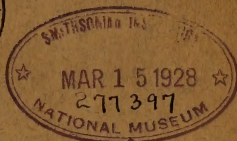


INDEX *of* PATENTS

ISSUED FROM

THE UNITED STATES
PATENT OFFICE

1927



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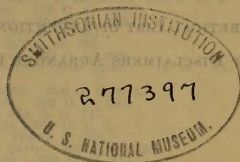
INDEX OF PATENTS

ISSUED FROM

THE UNITED STATES PATENT OFFICE

CONTENTS

1927



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON

1928

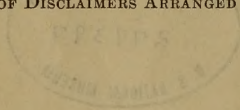
INDEX OF PATENTS

ISSUED FROM

THE UNITED STATES PATENT OFFICE

CONTENTS

	Page.
DECISIONS PRINTED IN THE OFFICIAL GAZETTE IN 1927.....	3
ALPHABETICAL LIST OF PATENTEES.....	5
ALPHABETICAL LIST OF DISCLAIMERS.....	693
ALPHABETICAL LIST OF INVENTIONS.....	695
LIST OF DISCLAIMERS ARRANGED BY INVENTIONS.....	1018



UNITED STATES
DEPARTMENT OF COMMERCE
PATENT OFFICE
WASHINGTON, D. C.

DECISIONS PRINTED IN THE OFFICIAL GAZETTE IN 1927.

- Appleby. Ex parte. 361 O. G. 661.
 Arsem. Ex parte. 362 O. G. 645.
 Au. Ex parte. 362 O. G. 4.
 Ballman and Evers. Ex parte. 361 O. G. 3. 428.
 Bard. In re. 362 O. G. 646. 647.
 Boyce. In re. 360 O. G. 4.
 Brewster. In re. 365 O. G. 3.
 Brogden v. Flake et al. McDill v. Flake et al. 364 O. G. 4.
 Carr. In re. 359 O. G. 4.
 Chubb. Ex parte. 354 O. G. 713.
 Clark. In re. 359 O. G. 741.
 Comey Co., R. H., v. Monte Christi Corporation et al. 363 O. G. 3.
 Couradson v. Drake and Hubbell v. Morgan. 358 O. G. 273.
 Crabbs v. Wardell. 365 O. G. 235.
 Devine v. Peau. 361 O. G. 429.
 Doble. In re. 356 O. G. 4.
 D'Olier and Tohlin. Ex parte. 363 O. G. 453.
 Ducas v. Seymour. 364 O. G. 3.
 Ek. In re. 364 O. G. 1021.
 Fagan v. Whitmore. 364 O. G. 513.
 Fekete and Essex Motors v. Robertson, Commissioner of Patents of the United States. 358 O. G. 3.
 Fine. Ex parte. 364 O. G. 511.
 Foltz. In re. 359 O. G. 500.
 Forsyth. Ex parte. 358 O. G. 1049.
 Freedlander. Ex parte. 360 O. G. 499. 747.
 Gascon v. Gubelmann. 364 O. G. 1019.
 Gay. Ex parte. 364 O. G. 1019.
 Gillick. Ex parte. 362 O. G. 447.
 Gray v. Greene. Greene v. Gray. 356 O. G. 497.
 Hadden. In re. 363 O. G. 696.
 Haight v. Nell. 354 O. G. 247.
 Hawkins. In re. 365 O. G. 236.
 Herbener. In re. 355 O. G. 439.
 Hernandez v. Robertson, Commissioner of Patents. 364 O. G. 250.
 Herring, Augustus M., by the assignee of his entire interest, James V. Martin. In re. 358 O. G. 577.
 Herrmann. Ex parte. 361 O. G. 427.
 Heuser v. Weiss. 364 O. G. 249.
 Hofmann v. Outman. 365 O. G. 478.
 I. T. S. Rubber Company, The, v. Essex Rubber Company. 359 O. G. 737.
 Jensen. Ex parte. 362 O. G. 233.
 Kishpaugh v. Gauthier. 367 O. G. 787.
 Kuehner. Ex parte. 364 O. G. 775.
 Long v. Gulick. 360 O. G. 262.
 Lotz. Ex parte. 362 O. G. 3. 5.
 Mandalian. Ex parte. 364 O. G. 3.
 Markel. In re. 358 O. G. 577.
 Martin v. Gubelmann. 364 O. G. 1020.
 Marx v. Brown. 365 O. G. 235.
 Mead v. Abbott v. Gammeter v. Wilhelmi. 363 O. G. 693.
 Meyer. In re. 364 O. G. 514.
 McChesney v. Gerrard & Wright. 362 O. G. 448.
 McClaire. In re. 356 O. G. 248.
 McCullough. Ex parte. 355 O. G. 185.
 McKay. Ex parte. 361 O. G. 891.
 McLellan Stores Company v. Conrad & Company, Inc. 365 O. G. 477.
 Moore. Ex parte. 364 O. G. 775.
 Muir v. Mallory. 364 O. G. 776.
 Muther et al. v. United Shoe Machinery Corporation. 357 O. G. 271.
 My Own Company v. The Janszen Grocery Company. 357 O. G. 788.
 O'Brien v. Bonelli. 361 O. G. 5.
 Ohn v. Cather. 360 O. G. 499.
 Overland Motor Company v. Packard Motor Car Company and Wire Wheel Corporation of America. 363 O. G. 211.
 Parks. In re. 356 O. G. 752.
 Parks and Miller. Ex parte. 361 O. G. 891.
 Peabody. Ex parte. 364 O. G. 511.
 Postum Cereal Company, Incorporated, v. California Fig Nut Company. 358 O. G. 811.
 Prescott and Rummel v. Michelin. 361 O. G. 4.
 Reinhard. In re. 359 O. G. 247.
 Robinson v. Davis. 354 O. G. 713.
 Ross v. Burke. 365 O. G. 657.
 Sachs v. Ball. 357 O. G. 788.
 Sawyer v. Strauss. 363 O. G. 695.
 Schiller and Westcott (two cases). In re. 358 O. G. 274.
 Schlaich. Ex parte. 360 O. G. 3. 5.
 Smary. Ex parte. 363 O. G. 694.
 Smith. In re. 364 O. G. 777.
 Smithey v. Myers. 364 O. G. 5.
 Snyder. In re. 364 O. G. 776.
 Stringham. Ex parte. 357 O. G. 533.
 Templeton. In re. 358 O. G. 811.
 Terry v. Webster. 355 O. G. 678.
 United States, ex rel. Searl, The, v. Robertson, Commissioner of Patents. 361 O. G. 892.
 Velander. Ex parte. 365 O. G. 3.
 Vial and Starkey. Ex parte. 360 O. G. 261.
 Vissering. In re. 356 O. G. 986.
 Wetmore. Ex parte. 359 O. G. 3.
 White Co., H. C., v. Morton E. Converse & Son Co. et al. 365 O. G. 4.
 Williams v. Clemons. 365 O. G. 477.
 Winkley v. Cogswell. 364 O. G. 1022.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1927.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Disclaimers follow in separate indexes, but precede the Alphabetical List of Inventions.

- A. B. See Elevator Company. (See Jackson, Joseph R., Jr., assignor.)
- A. B. Stove Company. (See Reedy, Alfred J., assignor.)
- A C Spark Plug Company. (See Champion, Albert, assignor.)
- A C Spark Plug Company. (See Gustafson, Edwin, assignor.)
- A C Spark Plug Company. (See McKinley, Charles W., assignor.)
- A C Spark Plug Company. (See Rabezzana, Hector, assignor.)
- A. G. Brown, Boveri & Cie. (See Trey, Karl, assignor.)
- A.-G. für Handels- und Industriewerte Glarus. (See Niemann, Erich, assignor.)
- A.-G. für Handels- und Industriewerte Glarus. (See Richter, Alfred, assignor.)
- A/S Krystal. (See Isaachsen, Isak, assignor.)
- A/S Norsk Kjølerensningsmiddel Ideal. (See Lillejord, Hans, assignor.)
- A/S Thunes mek. Verksted. (See Hanssen, Christian M., assignor.)
- Aab, Ernest F. (See Berg, W. H., Whitman, and Aab.)
- Aab, William, New Ulm, Minn. Aligning machine for connecting rods and wrist pins of internal-combustion engines. 1,622,560; Mar. 29.
- Aab, William, New Ulm, Minn. Aligning and reaming machine for connecting rods. 1,637,508; Aug. 2.
- Aab, William, New Ulm, Minn. Piston-aligning machine for connecting-rod assemblies. 1,643,359; Sept. 27.
- Aachener Maschinenbau-Gesellschaft m. b. H. (See Roderburg, Jacob, assignor.)
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive headlight. 1,631,112; June 7.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,633,969; June 28.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode for electrolytic condensers. 1,637,328; Aug. 2.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,637,329; Aug. 2.
- Anlborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric switch. 1,658,905; Apr. 16.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil switch and controlling mechanism. 1,652,508; Dec. 13.
- Aalborg, Christian, Pittsburgh, and O. A. Colby, Irwin, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electric switch. 1,650,924; Nov. 29.
- Aalborg, Christian, Pittsburgh, and F. C. Wilharm, Homewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. Operating device and disconnecting switch. 1,640,558; Aug. 30.
- Aaron, Maurice F., Mizpah, N. J. Automobile seat-cushion cover. 1,619,556; Mar. 1.
- Aaronson, Henry A. (See Olsen, F., and Aaronson.)
- Aarsøth, Ole M., Echo, Minn. Mail-box mounting. 1,616,432; Feb. 8.
- Abbadessa, Vincenzo, assignor of one-half to L. A. Andrews, Newton Upper Falls, Mass. Heel burnisher. 1,644,459; Oct. 4.
- Abbamonte, Antistene, Cheyenne, Wyo. Drain valve. 1,629,468; May 24.
- Abbe, George C., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Road scraper. 1,612,898; Jan. 4.
- Abbe, George C., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Differential lock for tractors. 1,626,374; Apr. 26.
- Abbe, George C., and E. C. Williamson, assignors to American Road Machinery Company, Inc., Kennett Square, Pa. Road roller and scarifier. 1,637,720; Aug. 2.
- Abbey, Charles J., Skowhegan, Me. Blower for saws. 1,628,869; Apr. 6.
- Abbey, Nelson D., assignor to The Etna Machine Company, Toledo, Ohio. Swaging machine. 1,617,890; Feb. 15.
- Abbott, Adrian O., Jr., assignor to Morgan & Wright, Detroit, Mich. Apparatus for manufacturing tire casings. 1,618,794; Feb. 22.
- Abbott, Adrian O., Jr., assignor to Morgan & Wright, Detroit, Mich. Apparatus for manufacturing tires. 1,635,240; July 12.
- Abbott, Adrian O., Jr., assignor to Morgan & Wright, Detroit, Mich. Vacuum shaping machine for straight-side tires. 1,635,241; July 12.
- Abbott, Adrian O., Jr., assignor to Morgan & Wright, Detroit, Mich. Tire shaping apparatus. 1,635,242; July 12.
- Abbott, Adrian O., Jr., assignor to Morgan & Wright, Detroit, Mich. Vacuum shaping machine for tires. 1,635,243; July 12.
- Abbott, Carl M., assignor to Martin Copeland Company, Providence, R. I. Vernier-adjusting device for radials or the like. 1,614,271; Jan. 11.
- Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. 1,614,168; Jan. 11.
- Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. 1,651,861; Dec. 6.
- Abbott, Charles M., Watertown, assignor to Samuel Cabot, Inc., Boston, Mass. Method and apparatus for dipping shingles. 1,624,379; Apr. 12.
- Abbott, Charles M., Watertown, assignor to Samuel Cabot, Inc., Boston, Mass. Shingle-abrading machine. 1,633,593; June 28.
- Abbott, Charles R., Los Angeles, Calif. Marble-polishing buffer. 1,619,961; Mar. 8.
- Abbott, Earl, Goshen, Ind. Radius-rod and front-axle bracing means. 1,614,639; Jan. 18.
- Abbott, Everett W., Houston, Tex. Milling tool. 1,636,032; July 19.
- Abbott, Geoffrey J., London, England. Power-transmission pulley. 1,637,402; Aug. 2.
- Abbott, Harry L. (See Trevor, W. W., and Abbott.)
- Abbott, Harvey B., Glassboro, N. J. Composition of materials adapted to be used for building materials. 1,620,312; Mar. 8.
- Abbott, Henry H., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. 1,637,403; Aug. 2.
- Abbott, John E., Spring Valley, Calif. Container for milk bottles. 1,625,183; Apr. 19.
- Abbott Laboratories. (See Hansen, Norman A., assignor.)
- Abbott Laboratories, The. (See Raiziss, George W., assignor.)
- Abbott Laboratories. (See Raiziss, G. W., and Proskouria-koff, assignors.)
- Abbott Laboratories. (See Vliet, E. B., and Volwiller, assignors.)
- Abbott Laboratories. (See Volwiller, Ernest H., assignor.)
- Abbott, Lyle S., Chicago, Ill., assignor to Chicago Fire Brick Company. Fire arch for furnaces. 1,612,795; Jan. 4.
- Abbott, Lyle S., assignor to Chicago Fire Brick Company, Chicago, Ill. Fire-box arch block. 1,624,193; Apr. 12.
- Abbott, Lyle S., assignor to Chicago Fire Brick Company, Chicago, Ill. Sectional fire-box arch. 1,624,199; Apr. 12.
- Abbott, Lyle S., assignor to Chicago Fire Brick Company, Chicago, Ill. Fire receiving wall. 1,624,200; Apr. 12.
- Abbott, Robert H. (See Buchanan, J. R., and Abbott.)
- Abbott, Royal K., Cranston, assignor to Respro Inc., Providence, R. I. Artificial leather. 1,642,394; Sept. 13.
- Abbott, Walter R., Louisville, Ky. Heating system. 1,654,396; Dec. 27.
- Abbott, William E., Rochdale, and J. R. Eley, Littleborough, assignors to George Spencer Moulton & Company, Limited, London, England. Automatically relieving the pressure on pressure members when the same are subjected to undue stress. 1,628,297; May 10.
- Abdulla, William J. (See Rouch, V. E., and Abbott.)
- Abdulla & Company Limited. (See Legg, Oscar, assignor.)

- Abel, August, assignor to Atlas-Werke Pöbler & Co., Leipzig-Stotteritz, Germany. Device for charging and discharging compressed air containers. 1,630,156; May 24.
- Abel, Frederick H. (See Lowry, C. A., and Abel.)
- Abel, Harry S., McLean, Va. Game. 1,632,941; June 21.
- Abel, Joseph C., Brooklyn, N. Y. Holding molding. 1,625,637; Apr. 19.
- Abel, Joseph C., Westwood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Bolt fitting. 1,649,436; Nov. 15.
- Abel, Walter T., assignor to The Patent Button Company, Waterbury, Conn. Making metal articles. 1,613,595; Jan. 11.
- Abel, Walter T., assignor to The Patent Button Company, Waterbury, Conn. Button. 1,635,774; July 12.
- Abele, Theodore J., assignor to Stuber & Kuck Co., Peoria, Ill. Display rack. 1,620,313; Mar. 8.
- Abele, Dytes H., Seymour, Ind. Automobile hood. 1,617,661; Feb. 15.
- Abell, Gerald L., Oakland, Calif. Light, color, and radiant ray bath cabinet. 1,618,158; Feb. 22.
- Abell-Howe Co. (See Haeger, Milton O., assignor.)
- Abein, Charles J., St. Louis, Mo. Show case. 1,639,876; Aug. 23.
- Abelt, Ernst, Karnap, near Essen-on-the-Ruhr, Germany, assignor to The Libby Glass Company, Toledo, Ohio. Device for cutting glass tubes or rods. 1,624,197; Apr. 12.
- Abendroth Brothers. (See Hansen, John, assignor.)
- Abendroth, Wilhelm, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Arrangement or system for the generation of steam. 1,632,576; June 14.
- Abercrombie, David T., Brooklyn, N. Y. Tent pole. 1,623,163; Apr. 5.
- Abercrombie, David T., Brooklyn, N. Y. Tent. 1,623,154; Apr. 5.
- Aberle, Carl F., St. Louis, Mo. Building construction. 1,618,433; Feb. 8.
- Abernethy, Lee R., Lead, S. Dak. Apparatus for the destructive distillation of oil shale. 1,618,038; Feb. 15.
- Abernethy, James L., Park Ridge, and L. E. Mumbower, Chicago, Ill. Wrench. 1,627,003; May 3.
- Abington Textile Machinery Trustees. (See Greenhill, Pink E., assignor.)
- Abington Textile Machinery Works. (See Clark, Ernest, assignor.)
- Abington Textile Machinery Works. (See Goldsmith, William H., assignor.)
- Aboarab, Michael J., Brooklyn, N. Y. Pillow top. Des. 74,131; Dec. 27.
- Abolin, Harry T., Woodridge, assignor to Lincrusta-Walton Company, Inc., Hackensack, N. J. Wall paper or similar article. Des. 72,873; June 21.
- Abolin, Harry T., Woodridge, assignor to Lincrusta-Walton Company, Inc., Hackensack, N. J. Wall paper or similar article. Des. 72,879; June 21.
- Abraham, Joseph, Shenandoah, Pa. Store fixture. 1,653,530; Dec. 20.
- Abraham, Fred A., Martinsville, Ind. Convertible baby seat. 1,641,953; Sept. 13.
- Abraham, Fred A., Martinsville, Ind. Convertible baby seat. 1,641,953; Sept. 13.
- Abraham, George W., Detroit, Mich. Punching bag. 1,612,796; Jan. 4.
- Abraham, George W., Detroit, Mich. Shot loader. 1,640,638; Oct. 18.
- Abrahams, Albin, Spokane, Wash. Fruit and nut dish. Des. 73,953; Nov. 29.
- Abrahams, David I., Muncie, Ind. Hi-Li Basket. Des. 72,656; May 17.
- Abrahams, Jacob, Bradley Beach, N. J. Tool for the repair of automobile tire shoes. 1,642,395; Sept. 13.
- Abrahams, Max, New York, N. Y. Acoustic horn. Des. 73,217; Aug. 9.
- Abrahams, Max, New York, N. Y. Acoustic horn. Des. 73,218; Aug. 9.
- Abrahamson, Gunwald, Point Edward, Ontario, Canada. Bit-brace head. 1,640,020; Aug. 23.
- Abratis, Tony, Detroit, Mich. Hammer. 1,614,055; Jan. 11.
- Abram, Otto. (See Foresman, R. A., and Abram.)
- Abrams, Henry J., R. T. Liddicoat, and F. H. Stevens, Ann Arbor, Mich. Aerial toy. 1,618,856; Feb. 22.
- Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Column for lighting fixtures. Des. 73,018; July 12.
- Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Column for lighting fixtures. Des. 73,019; July 12.
- Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Column for lighting fixtures. Des. 73,021; July 12.
- Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Bridge arm for lighting fixtures. Des. 73,653; Oct. 18.
- Abrams, Louis G., New York, N. Y. Window screen. 1,617,316; Feb. 15.
- Abrams, Samuel, and J. Neff, Chicago, Ill. Master template for laying out patterns. 1,635,300; July 12.
- Abrams, Solomon, Hayward, Calif. Foldable bed. 1,637,845; Aug. 2.
- Abramson, George A., Sherwood, Minn. Trap. 1,616,882; Feb. 8.
- Abramson, Nathan, Brooklyn, N. Y. Flashing plug. 1,619,778; Mar. 1.
- Abreu, Joaquin S., San Francisco, Calif. Aeroplane. 1,628,098; May 10.
- Absolute Con-Tac-Tor Corporation. (See Phelan, Louis, assignor.)
- Accessories Manufacturing Company. (See Bramming, Carl, assignor.)
- Accountograph Company, The. (See Schinke, Edward C., assignor.)
- Aceves, Julius G., New York, N. Y., assignor to Crocker-Wheeler Company, Ampere, N. J. Supply circuits for radio sets. 1,622,170; Mar. 22.
- Ach, Ernest M., assignor to The Samuel Ach Company, Cincinnati, Ohio. Lady's trimmed hat. 1,631,945; June 7.
- Ach, Samuel, Company, The. (See Ach, Ernest M., assignor.)
- Acker, George W., Newark, N. J. Preparing rubber compositions. 1,623,517; Apr. 5.
- Acieries de Haine St. Pierre et Lesquin, Societe Anonyme. (See Digna, Léon, assignor.)
- Acker, Aaron C., assignor to The Newell Mfg. Co. Inc., Ogdenburg, N. Y. Curtain-rod bracket. 1,649,275; Nov. 15.
- Acker, Frederick C. (See Nill, E. A., and Acker.)
- Acker, George H., assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Machine element. 1,639,680; Aug. 23.
- Acker, William L., Scranton, Pa. Core bit and plug for drilling. 1,642,572; Sept. 13.
- Ackeret, Herbert, assignor to The Massillon-Cleveland-Akron Sign Company, Massillon, Ohio. Display stand. 1,626,711; May 8.
- Ackerman, Albert H., Chicago, Ill., assignor to Catalytic Chemical Company. Process and material for treating gasoline and hydrocarbons. 1,653,032; Dec. 20.
- Ackerman, Albert H., Chicago, Ill., assignor to Catalytic Chemical Company, Denver, Colo. Reagent for treating materials containing hydrocarbons and making the same. 1,654,154; Dec. 27.
- Ackerman, Albert H., Chicago, Ill., assignor to Catalytic Chemical Company, Denver, Colo. Reagent for treating materials containing hydrocarbons and making the same. 1,654,155; Dec. 27.
- Ackerman-Blaesser-Fezzey, Inc. (See Ackerman, Edward L., assignor.)
- Ackerman-Blaesser-Fezzey, Inc. (See Ackerman, E. L., and Zwierzina, assignors.)
- Ackerman-Blaesser-Fezzey Corporation. (See Ackerman, Edward L., assignor.)
- Ackerman, Chester W., Bainbridge, assignor of two-fifths to R. L. Russell and one-fifth to H. J. Thrasher, Chardon, Ohio. Fuel-supply tank. 1,653,607; Dec. 27.
- Ackerman, Edward L., Romeo, assignor to Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich. Sash-operating mechanism. 1,641,954; Sept. 13.
- Ackerman, Edward L., assignor to Ackerman-Blaesser-Fezzey Corporation, Detroit, Mich. Sash-operating mechanism. 1,644,809; Oct. 11.
- Ackerman, Edward L., and A. J. Zwierzina, assignors to Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich. Clutch device. 1,651,052; Nov. 29.
- Ackerman, George W., New York, N. Y. Grille. Des. 73,769; Nov. 8.
- Ackerman, Hannibal R., Merrill, Wis. Snagless fishhook. 1,620,589; Mar. 8.
- Ackerman, William, Towners, N. Y., assignor to Mergenthaler Linotype Company, N. Y. Typographical machine. 1,626,773; May 3.
- Ackerman, Frank, and H. Gould, New York, N. Y. Adjustable leather-strip cutter. 1,622,265; Mar. 29.
- Ackermann, Frank B., W. C. Steffan, and W. J. Greiner, Chicago, Ill. Pencil. 1,621,048; Mar. 15.
- Ackermann, Gustave A., Chicago, Ill. Die. 1,650,314; Nov. 22.
- Ackermann, Hugo, Godesberg-on-the-Rhine, Germany. Charger for presses. 1,652,883; Dec. 13.
- Ackermann, Hugo, Godesberg-on-the-Rhine, Germany. Press for the manufacture of artificial stones, blocks, bricks, or the like. 1,652,884; Dec. 13.
- Ackers, Arthur E. (See Lonsdale, George L., assignor.)
- Ackley, Charles S. (See Plum, S. H., 2d, and Ackley.)
- Ackley, Charles S., Brooklyn, N. Y. Device for placing waves in hair. 1,652,751; Dec. 13.
- Ackley, Raymond E., assignor to R. R. Donnelly & Sons Company, Chicago, Ill. Mechanism for printing book edges. 1,616,101; Feb. 1.
- Ackley, Raymond E., assignor to R. R. Donnelly and Sons Company, Chicago, Ill. Book binding and covering machine. 1,642,866; Sept. 20.
- Ackroyd, Charles, Los Angeles, Calif. Trammel. 1,617,662; Feb. 15.
- Acme Ball Bearing Spindle Company. (See Chapman, Fred H., assignor.)
- Acme Card Company. (See Wright, William E., assignor.)
- Acme Card System Company. (See Clark, William C., assignor.)

- Acme Card System Company. (See Johnston, Frank H., assignor.)
- Acme Clutch Company. (See Geist, Walter, assignor.)
- Acme Devices Corporation. (See Sibley, Wesley B., assignor.)
- Acme Knitting Machine & Needle Company. (See Murphy, G., and Simond, assignors.)
- Acme Knitting Machine & Needle Company. (See Stroud, P. G., and Simond, assignors.)
- Acme Machine Products Company. (See Munger, Earl A., assignor.)
- Acme Machinery Company, The. (See Smith, Charles E., assignor.)
- Acme Partition Company. (See Grant, W. C., Thomas, and Drew, assignors.)
- Acme Priding Appliance Co., The. (See Daane, Arthur J., assignor.)
- Acme Products Company. (See Logan, William B., assignor.)
- Acme Rayon Corporation, The. (See Huttinger, Charles A., assignor.)
- Acme Road Machinery Company. (See Cookinham, Edward B., assignor.)
- Acme Wire Co., The. (See Archer, Harry W., assignor.)
- Acme Wire Co., The. (See Dale, Oswald, assignor.)
- Acosta, Joseph W. L., San Francisco, Calif. Vacuum cleaner. 1,639,876; Aug. 23.
- Acosta, Manuel. (See Burke, G., and Acosta.)
- Acro Aktiengesellschaft. (See Lang, Franz, assignor.)
- Actiengesellschaft der Maschinenfabrik von Theodor Bell & Cie. (See Schnyder, Johann, assignor.)
- Actien Gesellschaft "Neptun" Schiffswerft und Maschinenfabrik. (See Wodke, Otto, assignor.)
- Acurso, Joseph, Jr., Visalia, Calif. Refrigerator display case. 1,612,790; Jan. 4.
- Acushnet Process Company. (See Young, Philip E., assignor.)
- Adair, Thomas D., Jr., Quincy, Mass., assignor to Standard Thermometer Company, Portland, Me. Speedometer-fastening means. 1,622,897; Mar. 29.
- Adair, Thomas D., Jr., Dorchester, assignor, by mesne assignments, to L. L. Elden, Brookline, and D. S. Boyden, Boston, Mass. Transformer. 1,634,440; July 5.
- Adair, Thomas W., Houston, Tex. Flexible pipe-engaging slip. 1,641,467; Sept. 6.
- Adair, William R., Milwaukee, Wis. Vehicle headlight. 1,652,340; Dec. 13.
- Adam, Alfred G., Sioux City, Iowa. Electrical swivel connection. 1,649,276; Nov. 15.
- Adam, Harry C., St. Louis, Mo. Crystal detector. 1,633,059; June 21.
- Adam, Noel. (See Gall, J. B., and Adam.)
- Adams, Arthur H., La Grange, Ill. Playing ball and making same. 1,641,144; Sept. 6.
- Adams, Arthur H., La Grange, Ill. Reproducing drawings. 1,651,011; Nov. 29.
- Adams, Arthur H., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-working machine. 1,618,402; Feb. 22.
- Adams, Arthur J., Bay City, Mich., assignor to W. S. Ferris, Elkhart, Ind., now trading as Domore Chair Company. Swiveling chair. 1,637,846; Aug. 2.
- Adams, Asa S., and D. H. Morgan, Layton, Utah. Bottle opener. 1,653,939; Dec. 27.
- Adams, Ash, assignor to Lamore Tile Machine Company, Crawfordsville, Ind. Pneumatic core for block machines. 1,624,704; Apr. 12.
- Adams Brothers Manufacturing Company. (See Steffen, Adolf, assignor.)
- Adams, Clyde W., assignor to International Motor Company, New York, N. Y. Mechanical motion. 1,617,832; Feb. 15.
- Adams, Edward M., Lennoxville, Quebec, Canada. Pulley. 1,644,164; Oct. 4.
- Adams, Edward T., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Internal-combustion engine and operating the same. 1,632,958; June 21.
- Adams, Elizabeth B. (See Rankin, Nathaniel A., assignor.)
- Adams, George W., San Antonio, Tex. Concrete, mortar, and plaster mixer. 1,624,705; Apr. 12.
- Adams Grease Gun Corporation. (See Richmond, Jesse P., assignor.)
- Adams, Harry E., assignor to The W. G. Nagel Electric Company, Toledo, Ohio. Rheostat. 1,618,967; Mar. 1.
- Adams, Harry E., and H. L. Decker, assignors to The W. G. Nagel Electric Company, Toledo, Ohio. Control means for liquid-level indicators. 1,649,885; Nov. 22.
- Adams, Henry, Plainfield, N. J. Method and apparatus for fuel burning. 1,603,509; May 31.
- Adams, Henry T., Chicago, Ill. Ring book. 1,639,361; Aug. 16.
- Adams, John B., et al. (See Atkinson, Howard, assignor.)
- Adams, John B., Berhampore, Wellington, New Zealand. Buoyant wearing apparel for swimming or life-saving purposes. 1,629,429; May 17.
- Adams, John B., assignor B. Egley, Wellington, New Zealand. Life belt. 1,625,971; Apr. 26.
- Adams, John W. (See Brandes, P. H., and Adams.)
- Adams, Joseph, assignor to Adams-White Brush Co., Boston, Mass. Brush. 1,618,742; Feb. 22.
- Adams, Julius F., deceased, Pittsburgh, Pa.; A. A. Lauer, administratrix. Gas heater. Des. 71,772; Jan. 4.
- Adams, Leonard, Buffalo, N. Y. Telescoping radio loop or antenna. 1,642,350; Sept. 13.
- Adams, Lloyd S., et al. (See Bobbitt, Conrad E., assignor.)
- Adams, Louis M. (See Goff, Jess, assignor.)
- Adams, Lovell, Burlington, Inc. (See Burlington, W., and Lovell, assignors.)
- Adams, Morton L., Seattle, Wash. Lubricator. 1,619,779; Mar. 1.
- Adams Multiple Air Turbine Corporation. (See Adams, T., assignor.)
- Adams, Nathan H. (See Goff, T. S., and Adams.)
- Adams, Nathan H., Schenectady, N. Y., assignor to General Electric Company. Fabricating thermoelectric units. 1,618,743; Feb. 22.
- Adams, Nathan H., Schenectady, N. Y., assignor to General Electric Company. Thermoelectric generator. 1,618,744; Feb. 22.
- Adams, Nathan H., Schenectady, N. Y., assignor to General Electric Company. Thermoelectric generator. 1,618,745; Feb. 22.
- Adams, Nena M., Chicago, Ill. Hair wrapper. 1,633,507; June 21.
- Adams, Omer T., assignor to Adams Multiple Air Turbine Corporation, Los Angeles, Calif. Wind motor. 1,636,449; July 19.
- Adams, Oscar H., Keokuk, Iowa. Pipe wrench. 1,623,770; Apr. 5.
- Adams, Ralph M., Sidney, Nebr. Weeding machine. 1,647,680; Nov. 1.
- Adams, Reed, Detroit, Mich. Printing press. 1,633,564; June 28.
- Adams, Robert, assignor to B. C. Wilson, Los Angeles, Calif. Self-closing tongs. 1,647,977; Nov. 8.
- Adams, Robert, assignor to W. W. Wilson, Los Angeles, Calif. Multiple-size tongs. 1,652,551; Dec. 13.
- Adams, Robert E., Lonsdale, R. I. Roofing shingle. 1,636,349; July 19.
- Adams, Robert G., New York, N. Y. Removing shine and gloss from worn fabric. 1,650,412; Nov. 22.
- Adams, Roger, J. M. Davidson, Urbana, Ill., and I. Gubelmann, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. Preparing nitroamino benzene, o-benzoic acid and its derivatives. 1,614,584; Jan. 18.
- Adams, Ross W. (See Anderson E., and Adams.)
- Adams, Soren S., Asbury Park, N. J. Folding ornament. 1,621,708; Mar. 22.
- Adams, Stephen S., St. Louis, Mo. Manufacturing automobile license plates. 1,629,944; May 24.
- Adams, Thomas B., Sheboygan, Wis. Safety device for wringers. 1,624,706; Apr. 12.
- Adams, Thomas C., assignor to O. B. McClintock Company, Minneapolis, Minn. Alarm circuit operated by microphone. 1,643,759; Sept. 27.
- Adams, Thomas C., H. A. Noyes, and E. G. Lawrence, Minneapolis, Minn., assignors to O. B. McClintock Co. Time-lock indicator. 1,633,657; June 28.
- Adams, Walter L., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Line-guide mechanism for fishing reels. 1,639,362; Aug. 16.
- Adams, Walter L., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Drag mechanism for fishing reels. 1,647,101; Oct. 25.
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Slack adjuster for brake mechanism. 1,625,695; Apr. 19.
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Brake. 1,635,021; July 5.
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Brake hanger. 1,640,228; Aug. 23.
- Adams & Westlake Company, The. (See Levan, John F., assignor.)
- Adams-White Brush Co. (See Adams, Joseph, assignor.)
- Adams, Wilbur C. (See De Groote, M., and Adams.)
- Adams, William G., Roanoke, Va. Safety razor. 1,617,189; Feb. 8.
- Adams, William G., Roanoke, Va. Safety razor. 1,653,081; Dec. 20.
- Adams, William H., Kenyon, R. I. Induction coil for radio apparatus. 1,640,172; Aug. 23.
- Adams, William H., assignor to Eastern Finishing Works, Inc., Kenyon, R. I. Printed fabric. Des. 72,539; May 3.
- Adams, William J., Jr., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-current transmission. 1,616,162; Feb. 1.
- Adams, William J., Irvington, N. Y., and A. Haddock, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Shielding and balancing means. 1,624,459; Apr. 12.
- Adams, William S. (See Cole, C. M., and Adams.)
- Adamsky, Cornelius, Cincinnati, Ohio. Book or pamphlet trimming device. 1,635,165; July 12.
- Adams, Allan A. (See Fairchild, E. E., Adamson, and Morley.)
- Adamson, Allan A., assignor to G. H. Harris, Rochester, N. Y. Cigar box. 1,621,704; Mar. 22.
- Adamson, Allan A., assignor to G. H. Harris, Rochester, N. Y. Manufacture of cigar boxes and the like. 1,638,719; Aug. 9.
- Adamson, Arthur R., Los Angeles, Calif. Shredding machine. 1,620,138; May 17.

- Adams, Charles E., Muncie, assignor of one-half to J. S. Renner, Huntington, Ind. Self-heating sadiron. 1,636,162; July 19.
- Adams, Keith E., Fort Bragg, N. C., and H. J. Strimbaugh, Troy, N. Y. Automatic gun. 1,648,469; Nov. 8.
- Adamy, Arthur L., Reed City, Mich. Railroad tie. 1,645,514; Oct. 18.
- Adco, Limited. (See Richards, E. H., and Hutchinson, assignors.)
- Addie, Diedrich C., Ragland, Ala. Disintegrating machine. 1,643,938; Oct. 4.
- Addie, Thomas H., Philadelphia, Pa. Plug cock. 1,620,623; Mar. 15.
- Add-Index Corporation. (See Broman, Charles E., assignor.)
- Addis, Wendell A., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Centerless grinding machine. 1,616,296; Feb. 1.
- Additon, Forrest, Flowery Branch, Ga. Wardrobe. 1,647,031; Oct. 25.
- Addleberg, James T., and L. M. Fox, Greenville, Tenn. Mechanical advertising device. 1,621,344; Mar. 15.
- Addressograph Company. (See Duncan, Joseph S., assignor.)
- Addressograph Company. (See Duncan, J. S., and Hubbard, assignors.)
- Addressograph Company. (See Hubbard, Henry E., assignor.)
- Adler, John B., Boston, Mass. Shock absorber. 1,640,340; Aug. 30.
- Adelmann, Hans, assignor to Ham Boiler Corporation, New York, N. Y. Ham boiler. 1,613,151; Jan. 4.
- Adelmann, Leonid. (See Hahnemann, W., Hecht, Lichte, and Adelmann.)
- Adler, Neldie J., Port Arthur, Tex. Trousers-pocket construction. 1,618,039; Feb. 15.
- Aderer, Adolph, Los Angeles, Calif. Traffic signal for motor vehicles. 1,614,766; Jan. 18.
- Aderer, Hugo, East Orange, N. J., assignor to J. F. Jelenko & Co., New York, N. Y. Fracture splint. 1,629,066; Aug. 9.
- Adie, Harry P., and P. Gilpin, Cleveland, Ohio. Motor. 1,624,905; Apr. 19.
- Adkins, George, Carnegie, Okla. Trailer hitch. 1,617,283; Feb. 8.
- Adkins, John J., Southport, N. C. Back brush. 1,628,023; Mar. 10.
- Adlake Company, The. (See Galt, Thomas A., assignor.)
- Adlake Company, The. (See Hamm, William S., assignor.)
- Adler, Alfred S., Detroit, Mich. Breaker-arm gauge. 1,615,297; Jan. 25.
- Adler, Charles, Jr., Baltimore, Md. Electromagnetically operated circuit closer. 1,622,018; Mar. 22.
- Adler, Charles, Jr., Baltimore, Md. Automatic time-limit control means for interlocking levers of railway appliances. 1,638,793; Aug. 9.
- Adler, Ernst, Vienna, Austria. Safety razor. 1,616,210; Feb. 1.
- Adler, Harry, Melville, Johannesburg, assignor of one-third to A. Baker, Melrose, Johannesburg. South Africa. Dividing and spacing instrument. 1,624,031; Apr. 12.
- Adler, Hazel H., New York, N. Y. Textile-exhibiting device. Des. 71,993; Feb. 15.
- Adler, Hazel H., New York, N. Y. Color-harmony device. 1,629,330; May 17.
- Adler, Hazel H., New York, N. Y. Determining color combinations. 1,630,247; May 31.
- Adler, Hazel H., New York, N. Y. Device for selecting colors. 1,651,860; Dec. 6.
- Adler, Jerome. (See Feldman, H. H., and Adler.)
- Adler, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Chair. Des. 73,275; Aug. 25.
- Adler, Joseph, et al. (See Clay, Frank, assignor.)
- Adler, Milton M., Newark, N. J. Box. Des. 71,818; Jan. 11.
- Adler, Stephen R., New York, N. Y. Lubricating composition and making the same. 1,636,976; July 26.
- Adler, Victor E., Los Angeles, Calif. Ring for a banjo. Des. 73,151; Dec. 2.
- Adolf, Frederick W., New Brighton, Pa. Circular saw. 1,619,780; Mar. 1.
- Adolph Carl F., London, assignor to New Wilson Electrical Manufacturing Co. Ltd., London, England. Magneto-microphonic relay. 1,647,329; Nov. 1.
- Adriani, Salvatore, Buffalo, N. Y. Water motor. 1,654,031; Dec. 27.
- Adrema Maschinenbauges m. b. H. (See Krell, Joseph, assignor.)
- Adrian Corporation, The. (See Lowe, Jacob J., assignor.)
- Adrin Corporation, Inc., The. (See Adrian, Matthew B., assignor.)
- Adrian, Matthew B., Milwaukee, Wis. X-ray machine. 1,619,962; Mar. 8.
- Adrian, Matthew B., assignor to The Adrian Corporation, Inc., Milwaukee, Wis. Method and apparatus for X-ray work. 1,642,915; Sept. 20.
- Adriance Machine Works, Inc. (See Ross, Hugh M., assignor.)
- Adsit, Charles G., Atlanta, Ga., assignor to W. J. Cummings, Chicago, Ill. Drive for automotive vehicles. 1,652,083; Dec. 6.
- Adsit, George, assignor to B. Eastwood Company, Paterson, N. J. Quilling machine. 1,627,820; May 10.
- Adsit, George and D. Davis, assignors to Benjamin Eastwood Company, Paterson, N. J. Winding machine. 1,647,681; Nov. 1.
- Adt, John B., Company. (See Zenn, Louis H., assignor.)
- Advance Machine Company. (See Antoine, A. D., and Gebert, assignors.)
- Advance Machine Company. (See Richardson, M. H., and Gebert, assignors.)
- Advance Paracholite Corporation. (See Hanson, Christian, assignor.)
- Advance-Rumely Company. (See Krenzke, John G., assignor.)
- Advance-Rumely Company, The. (See Mainland, J., and Nyberg, assignors.)
- Advance-Rumely Company. (See Secor, John A., assignor.)
- Advance-Rumely Company. (See Worthington, Wayne H., assignor.)
- Advertising Samplers, Inc. (See Hamel, William W., assignor.)
- Aeolian Company, The. (See Dunham, Franklin G., assignor.)
- Aeolian Company, The. (See Starkie, John W., assignor.)
- Aeolian Company, The. (See Volare, Fred, assignor.)
- Aerial Service Corporation. (See Mummert, Harvey C., assignor.)
- Aerial Service Corporation. (See Mummert, H. C., and Meado, assignors.)
- Aeromarine Plane and Motor Company. (See Chilton, Roland, assignor.)
- Aeromotor Company. (See Scholes, Daniel R., assignor.)
- Aero Toy & Manufacturing Co. (See Lunz, Franz, assignor.)
- Aerovox Wireless Corporation. (See Siegel, Samuel, assignor.)
- Aetna Automatic Oil Burner, Incorporated. (See Scheeminger, John, Jr., assignor.)
- Affel, Herman A., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Multiplex telegraphy. 1,612,848; Jan. 4.
- Affel, Herman A., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Carrier telegraph system. 1,617,934; Feb. 15.
- Affel, Herman A., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Distribution of intelligence. 1,632,777; June 21.
- Affel, Herman A., Maplewood, N. J., and R. W. Deardorff, Kensington, Calif., assignors to American Telephone and Telegraph Company. Multiplex telegraphy by phase discrimination. 1,617,935; Feb. 15.
- Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. High-frequency signaling system. 1,615,896; Feb. 1.
- Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Harmonic generator. 1,646,438; Oct. 25.
- Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Pilot-channel-indicating system. 1,642,710; Sept. 20.
- Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Harmonic generator. 1,646,439; Oct. 25.
- Affholder, Clements S., Madison, Wis., assignor to French Battery Company. Dry-cell-core-making machine. 1,645,678; Oct. 18.
- Affock, Ellis T., and R. G. Bennett, Essex, Ontario, Canada, said Bennett assignor to said Affock. Bearing-adjusting nut wrench. 1,653,531; Dec. 20.
- Afonin, Ivan R., Baku, Caucasus. Oil-storage tank. 1,639,625; Aug. 16.
- Agar, Calvin A., West Orange, N. J. Shipping container. 1,613,152; Jan. 4.
- Agar, Calvin A., West Orange, N. J. Shipping member. 1,619,011; Mar. 1.
- Agasote Millboard Company, The. (See Harvey, H. C., and Becher, assignors.)
- Azate, Charlton S., Chelmsford, and P. W. Willans, London, England, assignors to Radio Corporation of America. Radiosignaling. 1,624,201; Apr. 12.
- Agee, George S., Lonsview, Wash. Vine lifter. 1,626,712; May 3.
- Agersdörfer, Fritz, Charlottenburg, Germany. Rotary pump. 1,626,115; Apr. 26.
- Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Chandelier. Des. 72,053; Feb. 22.
- Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture backplate. Des. 72,054; Feb. 22.
- Aglow, Harry, New York, N. Y., assignor to Artercraft Metal Stamping Corporation. Lighting fixture. Des. 72,055; Feb. 22.
- Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Chandelier. Des. 72,077; Mar. 1.
- Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture backplate. Des. 72,078; Mar. 1.
- Agnew, Benjamin, New York, N. Y. Mechanically-operated figure toy. 1,643,001; Sept. 20.
- Arnew, Anne E., Seattle, Wash. Candle. Des. 73,770; Nov. 8.

- Agnew, Anne E., Seattle, Wash. Candle. Des. 73,771; Nov. 8.
- Agnew, Anne E., Seattle, Wash. Candle. Des. 73,772; Nov. 8.
- Agnew, Francis E., Huntington Park, assignor to M. A. Brotherton, Santa Barbara, Calif. Centrifugal impact pulverizer. 1,635,453; July 12.
- Agnew, Francis E., Los Angeles, assignor to M. A. Brotherton, Santa Barbara, Calif. Centrifugal impact pulverizer. 1,636,033; July 12.
- Agnew, James G., and R. K. Pond, assignors, by mesne assignments, to F. L. Olmsted, trustees, Annapolis, Md. Badge or similar article. Des. 72,339; Apr. 5.
- Agobian, George, Brooklyn, N. Y. Fruit-pressing machine. 1,641,245; Sept. 6.
- Agricola, Herman A., Jr., assignor of 49 per cent to J. E. Lane, Atlanta, Ga. Printing-press attachment. 1,647,388; Nov. 1.
- Agrillo, John, and J. Daly, San Jose, Calif. Vehicle wheel tire. 1,639,207; Aug. 16.
- Aethe, Frederick T., Catasauqua, Pa., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Packing. 1,620,980; Mar. 15.
- Aguliar, Narciso C., Mexico City, Mexico. Blood transfusion. 1,630,248; May 31.
- Ahearn, Frank M., Kinde, Mich. Tire valve. 1,629,901; May 24.
- A'Hearn, Frank M., and E. F. Richardson, Greenville, Pa. Wheel-machining apparatus. 1,637,330; Aug. 2.
- Ahl, Niels K., Philadelphia, Pa. Vegetable slicer. 1,636,687; July 10.
- Ahlberg, Alfred, Indianapolis, Ind. Stove. 1,653,532; Dec. 20.
- Ahlburg, Frank, et al. (See Gilmore, Forrest E., assignor.)
- Ahlburg, Frank, Los Angeles, Calif. Process of and apparatus for coating articles. 1,618,159; Feb. 22.
- Ahles, Albert P., assignor to Fort Stanwix Tool and Die Co., Rome, N. Y. Foldable stool. 1,652,922; Dec. 13.
- Ahlgen, John E., Los Angeles, Calif. Massage apparatus. 1,612,899; Jan. 4.
- Ahlgren, John M., and J. V. Bretaud, assignors to American Rubber Products Company, Detroit, Mich. Molding apparatus. 1,630,157; May 24.
- Ahlheim, Peter, St. Louis, Mo. Bake oven. 1,630,795; July 26.
- Ahlm, Charles E. F., Cleveland Heights, Ohio. Combination railroad car and power unit. 1,613,864; Jan. 11.
- Ahlm, Charles E. F., Cleveland, Ohio. Transmission gearing. 1,634,063; June 28.
- Ahlm, Charles E. F., Cleveland, Ohio. Transmission gearing. 1,634,168; June 28.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,620,854; Mar. 15.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,620,855; Mar. 15.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,620,856; Mar. 15.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,620,857; Mar. 15.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,620,858; Mar. 15.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,620,859; Mar. 15.
- Ahlm, Charles E. F., East Cleveland, Ohio. Transmission-gearing suspension. 1,650,001; Nov. 22.
- Ahlm, Charles E. F., East Cleveland, assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,627,368; May 3.
- Ahlm, Charles E. F., East Cleveland, assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,647,981; Nov. 8.
- Ahlman, Franz H., Morristown, Minn. Anchoring device for containers. 1,647,009; Oct. 25.
- Ahlquist, Eugene F., Minneapolis, Minn. Printing attachment for envelope machines. 1,617,782; Feb. 15.
- Ahlquist, Eugene F., Minneapolis, Minn., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Vertical file pocket. 1,622,763; Mar. 29.
- Ahlquist, Eugene F., Minneapolis, Minn., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. File wallet. 1,634,064; June 28.
- Ahlrichs, Harm, Sherman, Ill. Poultry feeder. 1,633,880; June 28.
- Ahlvin, John E., Joliet, Ill. Edge planer. 1,639,420; Aug. 16.
- Ahlf, Josef M., New York, N. Y. Glider. 1,644,623; Oct. 4.
- Ahrendts, George R., assignor to The Atlas-Globe China Company, Niles, Ohio. Plate or similar article. Des. 73,219; Aug. 9.
- Ahrendts, George R., assignor to The Atlas-Globe China Company, Niles, Ohio. Casserole. Des. 73,220; Aug. 9.
- Ahrendts, George R., assignor to The Atlas-Globe China Company, Niles, Ohio. Sugar bowl or similar article. Des. 73,221; Aug. 9.
- Ahrendts, George A., assignor to The Atlas-Globe China Company, Niles, Ohio. Pitcher. Des. 73,222; Aug. 9.
- Ahrendts, George R., assignor to The Atlas-Globe China Company, Niles, Ohio. Casserole or similar article. Des. 73,465; Sept. 20.
- Ahrendts, George R., assignor to The Atlas-Globe China Company, Niles, Ohio. Cup or similar article. Des. 73,549; Oct. 4.
- Alchele, Ernest, Irvington, N. J. Electrical circuit breaker interrupter. 1,614,169; Jan. 11.
- Alchele, Ernest, Irvington, N. J. Composition of matter. 1,648,100; Nov. 8.
- Alchele, Ernest, Irvington, assignor of one-half to O. Kuhn, A. G. Birkenmeyer, and J. Becker, Newark, N. J. Repeating electrical-circuit interrupter. 1,614,223; Jan. 11.
- Alchele, Gottlob, Nellingen, near Esslingen, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Typewriting machine. 1,643,266; Sept. 20.
- Aicher, Gustav A., San Francisco, Calif. Milk-bottle closure. 1,647,783; Feb. 15.
- Aiken, Charles W., Brooklyn, N. Y. Evaporator. 1,621,862; Mar. 22.
- Aiken, Joseph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Sound reception system. 1,600,568; July 12.
- Aikens, Thomas N., Dayton, assignor of one-half to D. D. Walker, Lakewood, Ohio. Die. 1,641,863; Sept. 6.
- Aikman, Burton S., Milwaukee, Wis., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electrohydraulic brake. 1,622,480; Mar. 29.
- Aikman, Burton S., assignor to National Brake & Electric Co., Milwaukee, Wis. Magnetic unloader. 1,629,815; May 24.
- Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Fluid compressor. 1,632,262; June 14.
- Aikman, Burton S., Milwaukee, Wis., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake system. 1,633,756; June 28.
- Aikman, Burton S., assignor to National Brake and Electric Company, Milwaukee, Wis. Cooling compressors. 1,635,524; July 12.
- Alles, George H., Philadelphia, Pa. Display easel. 1,627,133; May 3.
- Ainsley, George S., Indianapolis, Ind. Adjustable wrench. 1,614,170; Jan. 11.
- Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electromagnet. 1,627,821; May 10.
- Ainsworth, Chester D., Wollaston, assignor to Condit Electrical Manufacturing Corporation, Boston, Mass. Electromagnetically operated device. 1,642,288; Sept. 13.
- Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electrically-operated switch. 1,650,172; Nov. 22.
- Ainsworth Manufacturing Company. (See Potter, Albert T., assignor.)
- Ainsworth Manufacturing Company. (See Potter, A. T., and Medville, assignors.)
- Aird, Clarence W. (See Riches, C. H., and Aird.)
- Aird, Clarence W., assignor to The Brantford Oven & Rack Co. Limited, Brantford, Ontario, Canada. Oven. 1,635,392; July 12.
- Airo, Sally, assignor to Lincoln Manufacturing Company, Detroit, Mich. Wall bracket for a lighting fixture. Des. 71,897; Jan. 25.
- Airo, Sally, assignor to Lincoln Manufacturing Company, Detroit, Mich. Beam-light fixture. Des. 72,125; Mar. 8.
- Air Reduction Company. (See Kühnl, Hans, assignor.)
- Air Reduction Company. (See Van Nuys, Claude C., assignor.)
- Air Reduction Company. (See Walker, George L., assignor.)
- Air Reduction Company. (See Wilkinson, Walter, assignor.)
- Air-Scale Company, The. (See Morley, Earl M., assignor.)
- Air-Scale Guarantee Company. (See Burney, Charles D., assignor.)
- Airship Guarantee Company. (See Wallis, Barnes N., assignor.)
- Airship Guarantee Company. (See Wallis, B. N., and Burney, assignors.)
- Air-Scale Guarantee Company Limited. (See Burney, Charles D., assignor.)
- Airrubber Corporation. (See Anderson, Arvid E., assignor.)
- Airrubber Corporation. (See Kennedy, William, assignor.)
- Aitchison, Peter, New Rochelle, assignor to American Bank Note Company, New York, N. Y. Paper-wetting machine. 1,653,610; Dec. 27.
- Aitelli, Silvio M., Newark, N. J. Envelope. 1,640,685; Aug. 30.
- Ajax Electric Hammer Corporation. (See Brummel, Henry P., assignor.)
- Ajax Electrothermic Corporation. (See Northrup, Edwin P., assignor.)
- Ajax Spring Stabilizer Company. (See Schlessler, Fred, assignor.)
- Ajax Trucks Limited. (See Kimber, Walter E., assignor.)

- Akashi, Kazuo, Tokyo, Japan. Beam compass. 1,619,392; Mar. 1.
- Ake, Clarence J., Vallejo, Calif. Device for the atomization and injection of liquids. 1,622,266; Mar. 29.
- Åkerlind, Hilmer G. A. (See Thunberg, E. J., and Åkerlind.)
- Akers, Ernest, C. C. Mims. F. L. Moutray, and L. P. Miller, Huntsville, Tex. Oil-saving device. 1,626,494; Apr. 26.
- Akers, Johnny G. C., Wallace, Nebr. Amusement device. 1,654,231; Dec. 27.
- Akers, Milton K., assignor to The Hobart Manufacturing Company, Troy, Ohio. Hopper for coffee grinders or the like. Des. 72,849; Apr. 6.
- Akers, Milton K., assignor to The Troy Metal Products Company, Troy, Ohio. Frame for food mixer. Des. 73,464; Sept. 20.
- Akitt, Norman B., Wilmington, N. C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,650,173; Nov. 22.
- Akitt, Norman B., Wilmington, N. C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,650,174; Nov. 22.
- Akitt, Norman B., Wilmington, N. C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,650,175; Nov. 22.
- Akron Metallic Gasket Company, The. (See Kinzel, Arch H., assignor.)
- Akron Rubber Mold and Machine Company. (See Michelson, Albert S., assignor.)
- Akron-Selle Company, The. (See Hower, J. B., and Zeller, assignors.)
- Akron Standard Mold Company. (See Chambers, Perry O., assignor.)
- Akron Standard Mold Company, The. (See Fleiter, A. J., and Miller, assignors.)
- Akron Standard Mold Company. (See Galvin, Wade S., assignor.)
- Akron Standard Mold Company, The. (See Greer, William E., assignor.)
- Akron Standard Mold Company, The. (See Hudson, C. B., and Bostwick, assignors.)
- Akron Standard Mold Company, The. (See Reichard, Harold D., assignor.)
- Akron Standard Mold Company, The. (See Sigler, Ward V., assignor.)
- Akron Tyrowder Company, The. (See Wheelock, Herbert K., assignor.)
- Akroyd, Harold A. (See Poultney, E. C., Gilling, and Akroyd.)
- Aktiebolaget Arkos. (See Lundgren, Fridolf H., assignor.)
- Aktiebolaget Ars. (See Hassat, Max, assignor.)
- Aktiebolaget Atlas Diesel. (See Danielsson, Axel U. S., assignor.)
- Aktiebolaget Baltic. (See Risberg, Johannes V. M., assignor.)
- Aktiebolaget Casselxevell. (See Cassel, Gunnar E., assignor.)
- Aktiebolaget Ferrolegeringar. (See Berlin, David W., assignor.)
- Aktiebolaget Filmfotofon. (See Berglund, Sven O. F. A: son, assignor.)
- Aktiebolaget Formator. (See Granstedt, Erik, assignor.)
- Aktiebolaget Formator. (See Nordenfält, P., and Granstedt, assignors.)
- Aktiebolaget Gasmätare. (See Johanson, Georg K. V., assignor.)
- Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Ekström, G. C., and Johnson, assignors.)
- Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Ekström, G. C., Oström, and Johnson, assignors.)
- Aktiebolaget Karlstads Mekaniska Verkstad. (See Ullgren, Johan D., assignor.)
- Aktiebolaget Knappfabriken. (See Bladh, Johan A., assignor.)
- Aktiebolaget Ljungströms Ångturbin. (See Broberg, Isidor, assignor.)
- Aktiebolaget Ljungströms Ångturbin. (See Broberg, I., Eriksson, and Sjölin, assignors.)
- Aktiebolaget Ljungströms Ångturbin. (See Eriksson, Erik O., assignor.)
- Aktiebolaget Ljungströms Ångturbin. (See Ljungström, Fredrik, assignor.)
- Aktiebolaget Ljungströms Ångturbin. (See Ljungström, F., and Anderson, assignors.)
- Aktiebolaget Ljungströms Ångturbin. (See Ljungström, F., and Broberg, assignors.)
- Aktiebolaget Ljungströms Ångturbin. (See Ljungström, F., Eriksson, and Broberg, assignors.)
- Aktiebolaget Ljungströms Ångturbin. (See Larsson, P. W., and Forsberg, assignors.)
- Aktiebolaget Stille-Werner. (See Brunsok, V. H. M., and Nordin, assignors.)
- Aktiebolaget Svenska Kullagerfabriken. (See Cassel, Hjalmar S., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, A. G. E., and Thoren, assignors.)
- Aktiebolaget Svenska Kullagerfabriken. (See Löfquist, Axel F. T., assignor.)
- Aktiebolaget Vaporackumulator. (See Bäckström, Sigurd M., assignor.)
- Aktiebolaget Vaporackumulator. (See Constam, Ernst, assignor.)
- Aktiebolaget Vaporackumulator. (See Ruths, Johannes, assignor.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Faber, Paul, assignor.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Jonas, Julius, assignor.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Jonas, J., and Niggeler, assignors.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Keller, Robert, assignor.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Kubler, Johannes, assignor.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Roebel, Ludwig, assignor.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Van Rijswijk, Willem, assignors.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Wichert, Alfred, assignor.)
- Aktiegesellschaft Brown, Boveri and Cie. (See Wirz, Ernst, assignor.)
- Aktiegesellschaft Brown, Boveri and Company. (See Broger, Johann, assignor.)
- Aktiegesellschaft für Chemische Produkte vormals H. Scheldemandel. (See Wachtel, Wilhelm, assignor.)
- Aktieselskabet Norsk Statist Elektrisk-Gas-Reduktion. (See Edwin, Emil, assignor.)
- Aladdin Hydraulic Jack Company. (See Shevlin, Joseph P., assignor.)
- Aladdin Manufacturing Company. (See Sacksteder, Overton, Jr., assignor.)
- Alaj, Antoine L., Chicago, Ill. Combination dish and cover. 1,635,918; July 12.
- Alamo, Martin, Gallup, N. Mex. Gymnastic toy. 1,629,945; May 24.
- Alaska Pulp and Paper Company. (See Keenan, C. J., Kennedy, and Kirsch, assignors.)
- Alaska Refrigerator Company, The. (See Buit, Ralph, assignor.)
- Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Springboard. 1,639,323; Aug. 16.
- Albach, George F., Jr., Bayonne, assignor to Schwarzenbach-Huber Co., Union City, N. J. Adjustable guide for winding machines. 1,643,914; Sept. 27.
- Albanese, Oreste, Boston, Mass. Locking device for motor vehicles. 1,613,637; Jan. 11.
- Albee, William H., assignor to B. A. Corbin & Son Company, Marlboro, Mass. Cutting machine. 1,635,166; July 12.
- Albee, William H., assignor to B. A. Corbin & Son Company, Marlboro, Mass. Machine, and making box-toe blanks. 1,645,845; Oct. 18.
- Albee, William H., assignor to Koehler Manufacturing Company, Marlboro, Mass. Football cleat. 1,648,872; Nov. 8.
- Albee, William H., assignor to Koehler Manufacturing Company, Marlboro, Mass. Making football cleats. 1,648,873; Nov. 8.
- Albee, William H., assignor to Koehler Manufacturing Company, Marlboro, Mass. Applying football cleats to shoes. 1,651,572; Dec. 6.
- Alben, Frank L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Centering device. 1,645,27; Oct. 11.
- Alben, Frank L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Drive mechanism for electric locomotives. 1,645,272; Oct. 11.
- Alber, Fred C., Cleveland, Ohio. Window ventilator. 1,616,297; Feb. 1.
- Alber, Walter L., Chicago, Ill. Hollow tile partition tie piece. 1,626,589; May 8.
- Albers, Henry P., Lakewood, Ohio. Supporting bracket. 1,647,330; Nov. 1.
- Albersheim, Walter J., and H. S. Konheim, New York, N. Y. Safety apparatus for elevators. 1,613,216; Jan. 4.
- Albersheim, Walter J., and H. S. Konheim, New York, N. Y. Overload stopping device for elevators. 1,613,216; Jan. 4.
- Albert, August. (See Pfleger, J., and Albert.)
- Albert, Cyrus J., Groveland, Calif. Combination union suit and supporter. 1,615,820; Jan. 25.
- Albert, Frank J., West New York, N. J. Device for eliminating printing impressions on impression-cylinders. 1,645,469; Oct. 11.
- Albert, Walter P., East Orange, N. J. Spring device. 1,649,643; Nov. 15.
- Albertine, Herman, East Rutherford, N. J., assignor to Charles P. Rogers and Company (Inc.). Force-feed lubricating apparatus. 1,633,356; June 21.
- Albertine, Herman, East Rutherford, N. J., assignor to Charles P. Rogers and Company (Inc.). Force-feed lubricating apparatus. 1,633,357; June 21.
- Alberts, Melvin H., Battle Creek, Mich. Traffic-gate structure. 1,639,157; Aug. 16.
- Alberts, Melvin H., Chicago, Ill. Traffic gate. 1,639,158; Aug. 16.
- Alberts Mfg. Co., et al. (See Bogdonoff, Glenn, assignor.)
- Abessard, Joseph, Paris, France. Aeroplane. 1,627,004; May 3.
- Abhin, Herman, St. Louis, Mo. Passenger car. 1,625,443; Apr. 19.

- Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Typographical composing machine. 1,625,696; Apr. 19.
- Albrecht, Louis C., assignor to The American Warming & Ventilating Company, Toledo, Ohio. Reversible ventilation. 1,648,796; Nov. 8.
- Albrecht, Robert, assignor to Hamilton Beach Mfg. Co., Racine, Wis. Motor mounting. 1,617,784; Feb. 15.
- Albrecht, William, jr., Long Island City, assignor to George R. Smart & Company, Inc., New York, N. Y. Sheet feeder. 1,618,624; Feb. 22.
- Albrecht, William P. (See Schebl, J. and Albrecht.)
- Albrecht, William F., Salt Lake City, Utah. Faucet. 1,635,875; July 12.
- Albright, Alan R. (See Engelmann, M., and Albright.)
- Albright, Harry I., Akron, Ohio. Device for attaching lamps to vases. 1,613,260; Jan. 4.
- Albright, Henry F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for coating cores. 1,615,431; Jan. 25.
- Albright, Victor A. T., Bedford, Ind. Mold. 1,643,651; Sept. 27.
- Alburtis, Edward W., El Dorado Springs, Mo. Animal trap. 1,614,450; Jan. 18.
- Alcaraz, Vicente M., San Juan, P. R. Closure-member securing and bowing device. 1,622,898; Mar. 29.
- Alcázar, Alcides M., Brooklyn, assignor to Meter Service Corporation, New York, N. Y. Housing. 1,646,739; Oct. 25.
- Alcock, Horace E., et al. (See Weber, Isaac E., assignor.)
- Alcorn, William B., Detroit, Mich. Packing strip for shipping materials. 1,627,223; May 3.
- Aldeborgh, Erik H., assignor to Standard Gage Co., Inc., Poughkeepsie, N. Y. Adjustable limit-pin gage. 1,638,543; July 19.
- Aldeen, Gedor W., assignor to National Lock Co., Rockford, Ill. Washing and drying apparatus. 1,647,763; Nov. 1.
- Aldeen, Gedor W., assignor to Fyrcac Manufacturing Co., Rockford, Ill. Portable windshield cutter. 1,651,353; Dec. 6.
- Aldeen, Gedor W., assignor to National Lock Co., Rockford, Ill. Hinge. 1,650,413; Nov. 22.
- Aldeen, Gedor W., assignor to National Lock Co., Rockford, Ill. Latch. 1,650,414; Nov. 22.
- Aldeen, Gedor W., assignor to National Lock Co., Rockford, Ill. Hinge. 1,652,509; Dec. 13.
- Aldeen, Wilhelm G., assignor to National Lock Co., Rockford, Ill. Countersinking machine. 1,624,648; Apr. 12.
- Aldeen, Wilhelm G., assignor to National Lock Co., Rockford, Ill. Hinge-making machine. 1,630,863; May 3.
- Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Brake for automobiles. 1,647,119. Nov. 1.
- Alden, Herbert W., and G. Huffer, assignors to The Timken-Detroit Axle Company, Detroit, Mich. Brake for automobiles. 1,631,445; June 7.
- Alden, James H., Wahoo, Nebr. Price marker. 1,643,267; Sept. 20.
- Alden, Milton, Springfield, Mass. Support for vacuum tubes. 1,622,267; Mar. 29.
- Alden, Milton, Springfield, Mass. Electrical connector. 1,651,680; Dec. 6.
- Alden, William H., jr., Bryn Athyn, Pa. Mail-handling machine. 1,641,435; Sept. 27.
- Alldendorff, Fritz, Wilmersdorf, near Berlin, Germany. Electrical switch. 1,624,202; Apr. 12.
- Alldendorff, Fritz, Berlin-Wilmersdorf, Germany, assignor of one-fourth to P. Kollisch, New York, N. Y. Electro-mechanically-controlled telephone system. 1,625,779; Apr. 26.
- Alldendorff, Fritz, Berlin-Wilmersdorf, Germany, assignor of one-fourth to P. Kollisch, New York, N. Y. Automatic switch. 1,629,446; May 24.
- Alldendorff, Fritz, Wilmersdorf, near Berlin, Germany, assignor of one-fourth to P. Kollisch, New York, N. Y. Automatic switching system. 1,634,007; June 28.
- Alldendorff, Fritz, Berlin-Wilmersdorf, Germany, assignor of one-fourth to P. Kollisch, New York, N. Y. Automatic switch. 1,641,145; Sept. 6.
- Alder, Vernon, Auburn, Victoria, Australia. Air-admission-control device for internal-combustion engines on motor-driven vehicles. 1,650,587; Nov. 29.
- Alderice, Walter, Brooklyn, assignor to Alfred W. Channing, Inc., New York, N. Y. Metal furnace. 1,642,351; Sept. 13.
- Alderfer, Sterling W., Akron, Ohio. Manufacture of tire beads. 1,633,620; June 28.
- Alderman, Fairchild Company. (See Fairchild, E. E., Adamson, and Morley, assignors.)
- Alderman, Ira D., Clinton, N. C. Rural-mail-box indicator or flag. 1,620,314; Mar. 8.
- Alderman, Zenas W. (See Mitchell, R. J., Babbitt, and Alderman.)
- Aldis, William J. (See Mallett, C. S., and Aldis.)
- Aldobitt Company. (See Harrington, Clinton O., assignor.)
- Aldrich, Alene L., Merion Station, Pa. Portable carrier. 1,638,794; Aug. 8.
- Aldrich, Alonzo, Beloit, Wis. Machine for making paper. 1,617,734; Feb. 15.
- Aldrich, Alonzo, assignor to Beloit Iron Works, Beloit, Wis. Shaker mounting for Fourdrinier machines. 1,629,087; May 17.
- Aldrich, Alonzo, assignor to Beloit Iron Works, Beloit, Wis. Mixer for Fourdrinier flow boxes. 1,629,088; May 17.
- Aldrich, George H., High Point, N. C. Boltless dead-end clamp. 1,618,160; Feb. 22.
- Aldrich, John P., and H. A. Morris, assignors to The Automat Molding & Folding Company, Toledo, Ohio. Sheet-feeding mechanism. 1,617,560; Feb. 15.
- Aldrich, John P., and H. A. Morris, assignors to The Automat Molding & Folding Company, Toledo, Ohio. Package-wrapping machine. 1,624,203; Apr. 12.
- Aldrich, John P., and H. A. Morris, assignors to The Automat Molding & Folding Company, Toledo, Ohio. Package-wrapping machine. 1,648,252; Nov. 8.
- Aldrich, Lester K., Sidney, Ohio. Automatic register. 1,618,625; Feb. 22.
- Aldrich, Lester K., Sidney, Ohio. Automatic feeder. 1,631,181; June 7.
- Aldrich, Lloyd I., assignor to Hart Oil-Burner Co., Peoria, Ill. Combustion apparatus. 1,653,611; Dec. 27.
- Aldrich, Thomas B., Detroit, Mich. Inhaler. 1,618,143; Feb. 15.
- Aldrich, William O., assignor to Whitin Machine Works, Whitinsville, Mass. Manufacture of bolster cases. 1,621,705; Mar. 22.
- Aldridge, Charles H., assignor to William Cotton, Limited, Pinner Gate, Loughborough, England. Friction clutch. 1,618,259; Feb. 22.
- Aldridge, Clarence J., Seattle, Wash. Water heater for gas burners. 1,612,900; Jan. 4.
- Aldridge, William J. B., Pasadena, Calif. Traffic signal. 1,636,272; July 19.
- Aldrin, Leonard, Denver, Colo. Shock absorber. 1,631,569; June 7.
- Aldrin, Leonard, Denver, Colo. Reamer for rotary well drills. 1,640,341; Aug. 30.
- Alemite Die-Casting & Mfg. Co. (See Gullborg, John S., assignor.)
- Alessio, Eugene, New York, N. Y. Station indicator. 1,615,153; Jan. 18.
- Alexander, Albert D., assignor to M. V. Alexander, Fredericksburg, Va. Bushing extractor. 1,636,796; July 26.
- Alexander, Alfred C., and O. K. Hagen, Beloit, Wis. Gasoline gauge. 1,653,688; Dec. 27.
- Alexander, Carl Z., and E. S. Newark, N. J., assignors, by mesne assignments, to E. C. Seward, Jersey City, N. J. Sectional steam boiler. 1,627,530; May 3.
- Alexander, Carl Z., West Livingston, and E. S. Alexander, Newark, assignors, by mesne assignments, to E. C. Seward, Jersey City, N. J. Steam-boiler attachment. 1,637,721; Aug. 2.
- Alexander, Charles P., Akron, Ohio. Sound amplifying or concentrating horn. 1,652,655; Dec. 13.
- Alexander, Clinton B., Washington, D. C. Casing and making the same. 1,631,611; June 7.
- Alexander, Clive M., Tulsa, Okla. Baffle tower. 1,651,354; Dec. 6.
- Alexander, Don M., Denver, Colo. Road sign. Des. 72,880; June 21.
- Alexander, E. S. (See Alexander, Carl Z. and E. S.)
- Alexander, Frank, Rochester, Ind. Cue-tip drier. 1,643,402; Sept. 27.
- Alexander, Frederick, East St. Louis, Ill. Clothesline fastener. 1,633,722; June 28.
- Alexander, Harry V., Bonne Terre, Mo. Aeroplane. 1,632,158; June 14.
- Alexander, Herbert, and A. Imbery, Leeds, England. Apparatus for the electric heat treatment of wire, strip, and the like. 1,626,713; May 3.
- Alexander, J. Monroe, Spanish Fork, Utah. Vise. 1,650,565; Nov. 22.
- Alexander, Jesse, Los Angeles, Calif. Ribbon-operating mechanism for typewriting machines. 1,619,174; Mar. 1.
- Alexander, Johann, Zehlendorf, Berlin, Germany, assignor to General Electric Company. Mercury rectifier. 1,643,146; Sept. 20.
- Alexander, John E. (See Youngchild, Casper E., assignor.)
- Alexander, John E., Port Edwards, Wis. Drying material. 1,642,386; Oct. 11.
- Alexander, John E., Port Edwards, Wis., and S. A. Staeger, Pittsburgh, Pa.; said Staeger assignor to said John E. Alexander. Automatic circuit breaker for drying machines and the like. 1,623,611; Apr. 5.
- Alexander, John E., Port Edwards, and C. E. Youngchild, Neenah, Wis., said Youngchild assignor to said Alexander. Cleaning means for drum driers. 1,621,706; Mar. 22.
- Alexander, Louis A., Toledo, Ohio. Timer. 1,614,449; Jan. 18.
- Alexander, Luther. (See Alford, J. R., and Alexander.)
- Alexander, Mabel V. (See Alexander, Albert D., assignor.)
- Alexander, Ralph I., Kankakee, assignor to Inland Engineering Company, Chicago, Ill. Mobile machinery. 1,631,184; June 7.
- Alexander, Ralph I., Kankakee, and A. H. Exton, Chicago Heights, assignors to Inland Engineering Company, Chicago, Ill. Traction equipment for mobile machinery. 1,631,182; June 7.

- Alexander, Ralph I., Kankakee, and A. H. Exton, Chicago Heights, assignors to Inland Engineering Company, Chicago, Ill. Steering mechanism for mobile machinery. 1,634,183; June 7.
- Alexander, Robert L., and H. W. Wishart, assignors to Climax Engineering Co., Clinton, Iowa. Water-cooled oil separator. 1,621,707; Mar. 22.
- Alexander, Robert L., W. Wishart, and H. H. Waters, assignors to Climax Engineering Co., Clinton, Iowa. Cooling device for compressors and condensers. 1,613,600; Jan. 11.
- Alexander, Verne P., assignor of one-half to O. L. Herron, Chicago, Ill. Home savings bank. 1,627,822; May 10.
- Alexander, Zeno, Kansas City, Mo. Transmission. 1,615,207; Jan. 25.
- Alexanderson, Charles A., assignor to E. W. Durkee, New York, N. Y. Apparatus for filling cans or other receptacles. 1,626,375; Apr. 26.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,620,506; Mar. 8.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Controlling alternating currents. 1,634,970; July 5.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,648,711; Nov. 8.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Voltage regulator. 1,652,923; Dec. 13.
- Alexeff, André, Paris, France. Water or air motor. 1,649,644; Nov. 15.
- Alexovits, Thomas M., Bayonne, N. J., assignor to J. E. Greenawald, New York, N. Y. Sintering apparatus. 1,617,561; Feb. 15.
- Alexsson, Delbert F., Los Angeles, Calif., assignor to Axelsson Machine Co. Sucker-rod rotor. 1,635,776; July 12.
- Alfani, Guido, Firenze, and L. Mazza, Genoa, Italy. Selector for automatic telephone exchanges. 1,620,620; Mar. 15.
- Alfani, Matthew A., Garfield, and S. Bohenek, Passaic, N. J. Line lighter. 1,646,336; Oct. 18.
- Alfieres, Emanuel J., New York, N. Y. Form for setting vault lights. 1,624,304; Apr. 12.
- Alfieres, Emanuel J., New York, N. Y. Separable vault-light lens frame. 1,626,063; Apr. 26.
- Alisi, Giuseppe, New York, N. Y. Fruit and vegetable squeezer. 1,615,734; Jan. 25.
- Alisi, Raffaele, Brooklyn, N. Y. Lock for automobiles. 1,632,576; June 14.
- Alfonso, Ernesto C., Ada, Ohio. Game. 1,642,711; Sept. 20.
- Alfonzo, Ernest M., Brooklyn, N. Y. Compression faucet. 1,619,781; Mar. 1.
- Alford, Allen D., Dallas, Tex. Reamer drill bit. 1,631,449; June 7.
- Alford, Ambrose. (See Hitchcock, George E., assignor.)
- Alford, George D., San Jose, Calif. Fireplace. 1,644,219; Oct. 4.
- Alford, John R., and L. Alexander, Henderson, Tex. Radiator repair stand. 1,634,227; June 28.
- Alfred, Theodore C., Lancaster, Ohio. Rotary cutting head. 1,628,870; May 17.
- Algrain, Paul, La Croix, Belgium. Axle for tramway, railway, and other vehicles. 1,618,040; Feb. 15.
- Albait, Henry A., Boston, Mass. Store furniture. 1,645,470; Oct. 11.
- Albert, Emile, Paris, France. Nail box for nailing machines. 1,634,226; June 28.
- Albert, Emile, Paris, France. Automatic releasing and braking device for nailing machines. 1,638,906; Aug. 16.
- Alkaios, Nick, New York, N. Y. Automatically adjustable spring bracket. 1,629,671; May 24.
- Allabough, William W., Silverdale, Pa. Preventing the wilting of leaves and flowers. 1,617,785; Feb. 15.
- Allabveridian, Wagna, Utica, N. Y. Lineman's climbing iron. 1,632,688; June 14.
- Allaoui, Wladimir, New York, N. Y. Ash tray or article of similar nature. Des. 72,540; May 3.
- All-American Radio Corporation. (See Dulzo, Edward W., assignor.)
- All-American Radio Corporation. (See Weibler, Carleton T., assignor.)
- Allan, David M., Halifax, Nova Scotia, Canada, assignor to Standard Development Company. Distillation. 1,621,229; Mar. 15.
- Allan, Hugh L., and J. Moore, Burmah, British India, assignors to The Burmah Oil Company Limited, Glasgow, Scotland. Wax separating and crystallizing apparatus. 1,654,232; Dec. 27.
- Allan, William G., Toronto, Ontario, Canada, assignor, by mesne assignments, to F. G. Clark. Electrolytic apparatus and electrode therefor. 1,620,052; Mar. 8.
- Allan, William G., Toronto, Ontario, Canada, assignor, by mesne assignments, to F. G. Clark. Welding and product thereof. 1,626,774; May 3.
- Alland, Maurice, Atlantic City, N. J. Fountain pen. 1,617,140; Feb. 8.
- Alland, Maurice, Atlantic City, N. J. Fountain pen. 1,619,323; Mar. 1.
- Alland, Maurice, Atlantic City, N. J. Razor. 1,624,707; Apr. 12.
- Alland, Maurice, Atlantic City, N. J. Magazine pencil. 1,646,740; Oct. 25.
- Alland, Maurice, Atlantic City, N. J. Shaving brush. 1,651,355; Dec. 6.
- Allard, Alfred J., Eldridge, Calif. Motor-vehicle direction indicator. 1,638,429; Aug. 9.
- Allardice, Thomas B., Mountain Lakes, N. J. Controlling unit for oil burners. 1,643,433; Sept. 27.
- Allardice, Thomas B., Mountain Lakes, N. J. Oil burner. 1,643,436; Sept. 27.
- Allatt, Thomas, Westfield, N. J., assignor, by mesne assignments, to Millie Patent Holding Co., Inc., New York, N. Y. Bag-closing machine. 1,637,509; Aug. 2.
- Albright-Nell Company, The. (See Laabs, William, assignor.)
- All Clear Windshields, Inc. (See Demand, Joseph, assignor.)
- Alcut, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rheostat. 1,647,381; Nov. 1.
- Allegrandi, Theodore, et al. (See Gordon, Albert B., assignor.)
- Allegheny Steel Company. (See Brautigam, Harold S., assignor.)
- Allegheny Steel Company. (See Caugherty, William E., assignor.)
- Allegheny Steel Company. (See Lucas, C. J., and Ponce, assignors.)
- Allegheny Steel Company. (See Otte, Otho M., assignor.)
- Alleman, Gellert, Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Mineral-oil derivative and making same. 1,637,510; Aug. 2.
- Alleman, William H., Ingalls, Mich. Attachment for gas engines. 1,630,286; May 31.
- Alleman, Raymond D., Clayton, Mo. Antiskid device for automobiles. 1,618,161; Feb. 22.
- Allen, Albert E. (See Johnstone, J., and Allen.)
- Allen, Alexander, Providence, R. I. Support. 1,629,430; May 17.
- Allen & Allen. (See Phillips, Frederick E., assignor.)
- Allen, Andrew A., Maricopa, Calif. Automatic brake mechanism. 1,640,916; Aug. 30.
- Allen, Andrews, Glencoe, Ill. Coal-handling apparatus. 1,647,168; Nov. 1.
- Allen, Arthur F., Alameda, Calif. Hat tree. Des. 72,974; July 5.
- Allen, Arthur W. (See Herman, J., Allen, and Newitt.)
- Allen Auto Specialty Company, The. (See Allen, William A., assignor.)
- Allen, Carlton H., Dayton, Ohio. Process and apparatus for making paper or the like. 1,620,860; Mar. 15.
- Allen, Carlton H., Dayton, Ohio, assignor of one-half to Great Northern Paper Company, Millinocket, Me. Flow-controlling apparatus. 1,632,780; June 21.
- Allen, Carlton H., Dayton, Ohio, assignor of one-half to Great Northern Paper Company, Millinocket, Me. Pulp-cooking apparatus. 1,633,554; June 21.
- Allen, Carlton H., Glens Falls, N. Y., assignor to Great Northern Paper Company, Millinocket, Me. Apparatus for cooking pulp. 1,632,779; June 21.
- Allen, Carlton H., assignor of one-half to Great Northern Paper Company, Millinocket, Me. Apparatus for treating pulp. 1,633,553; June 21.
- Allen, Charles B., Atlanta, Ga. Carburetor. 1,633,429; June 21.
- Allen, Charles H. (See Morris, J. L., and Allen.)
- Allen, Charles H., Pittsburgh, Pa. Printing raised figures and the like. 1,641,143; Sept. 6.
- Allen, Charles H., Pittsburgh, Pa. Combined telephone and wireless receiver. 1,650,925; Nov. 29.
- Allen, Charles H., and G. S. Soseman, assignors to The Alite Company, Chicago, Ill. Headlight. 1,651,984; Dec. 6.
- Allen, Charles M., Worcester, Mass. Measuring the rate of flow of liquid. 1,616,481; Feb. 8.
- Allen, Charles R. (See Lewis, F. K., and Allen.)
- Allen, Charles S., deceased, San Francisco, Calif.; T. J. Allen, administrator, assignor of one-twentieth to J. Sporek and F. Courtes, Cincinnati, Ohio. Front-wheel-drive brake mechanism. 1,638,007; Aug. 9.
- Allen, Chester B., assignor of one-half to W. H. Russe, Memphis, Tenn. Vehicle wheel. 1,632,427; June 14.
- Allen, Durward M., assignor of one-half to F. N. Gilbert, Binghamton, N. Y. Mop for baseboards. 1,619,324; Mar. 1.
- Allen, Earle F., Cambridge, Mass. Actuating apparatus for theater curtains. 1,651,985; Dec. 6.
- Allen, Edgar, Wichita Falls, Tex. Wire-rope fittings. 1,642,573; Sept. 13.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 1,629,139; May 17.
- Allen, Edward B., Newtown, Conn. Cord-handling mechanism for buttonhole sewing machines. 1,646,946; Oct. 25.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Work-clamping mechanism for sewing machines. 1,650,588; Nov. 29.
- Allen, Ernest, Groveland, Calif. Milk-can holder and contents dispenser. 1,639,249; Aug. 16.

- Allen, Francis K., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Handle for a burial casket. Des. 71,895; Jan. 25.
- Allen, Frank B., Lower Merion Township, Montgomery County, Pa., assignor, by mesne assignments, to F. H. Dunbar, Cleveland, Ohio. Sluiceway construction. 1,613,901; Jan. 11.
- Allen, Frank B., Lower Merion Township, Montgomery County, Pa., assignor to F. H. Dunbar, Cleveland, Ohio. Ash-handling equipment. 1,634,228; June 28.
- Allen, Frank B., Cynwyd, Pa., assignor, by mesne assignments, to F. H. Dunbar, Cleveland, Ohio. Hopper construction. 1,633,562; June 28.
- Allen, Fred D., Portsmouth, Va. Demountable rim. 1,631,906; June 7.
- Allen, Fred W., Kingston, Tenn. Steam-pressure cooker. 1,627,005; May 3.
- Allen, Frederick C., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling machine. 1,626,590; May 3.
- Allen, Frederick C., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Boring machine. 1,637,759; Aug. 2.
- Allen, George B., Atlanta, Ga. Golf game. 1,623,518; Apr. 5.
- Allen, George W., assignor to B. F. Sturtevant Company, Hyde Park, Mass. Blower. 1,628,216; May 10.
- Allen, Grosvenor N., Oneida, N. Y. Pot or similar article. Des. 72,541; May 3.
- Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 72,657; May 17.
- Allen, Grosvenor N., Oneida, N. Y. Spoon or similar article. Des. 72,747; May 31.
- Allen, Grosvenor N., Oneida, N. Y. Dish or similar article. Des. 73,634; Oct. 18.
- Allen, Hersey J., et al. (See Erb, Lanious P., assignor.)
- Allen, Howard G., assignor to The J. L. Morrison Company, Inc., Niagara Falls, N. Y. Gauge mechanism for stamping machines. 1,614,911; Jan. 18.
- Allen, Irving R., Chicago, Ill. Wardrobe trunk. 1,638,135; Aug. 9.
- Allen, Jacob J., Belvidere, Ill. Cigarette display and dispensing cabinet. 1,624,883; Apr. 12.
- Allen, James E., and H. G. Schwoeppe, assignors to Boyer Fire Apparatus Company, Logansport, Ind. Trussed ladder rail. 1,653,248; Dec. 20.
- Allen, James E., Peru, Ind. Driving-rod bearing for locomotives. 1,643,760; Sept. 27.
- Allen, Jesse B., New York, N. Y. Coffeepot. 1,652,552; Dec. 13.
- Allen, John, Greensburg, Ind. Poultry-dipping mechanism. 1,637,096; July 26.
- Allen, John F., assignor to L. C. Brammar, Ironton, Ohio. Milk bottle. 1,635,608; Dec. 27.
- Allen, John H. (See Riegel, Samuel S., assignor.)
- Allen, John R. (See Stackhouse, J. H., and Allen.)
- Allen, John S., Worcester, Mass. Puzzle. 1,635,022; July 5.
- Allen, Joseph H., Chandler, Ariz. Oil-reservoir alarm for cook stoves. 1,646,387; Oct. 18.
- Allen, Joseph H., assignor to Inland Glass Company, Chicago, Ill. Dispensing apparatus for liquid hydrocarbons. 1,632,815; June 21.
- Allen, Julius L., Sacramento, Calif. Variable-speed transmission. 1,615,432; Jan. 25.
- Allen, Mildred C., Highland Park, Ill. Child's garment. 1,625,184; Apr. 19.
- Allen, Otis S., Cleveland, Ohio. Telephone stand. 1,649,645; Nov. 15.
- Allen, Percy, Noh Wayne, assignor to North Wayne Tool Co., Halliwell, Me. Handle and shank for sickle blades and the like. 1,617,004; Feb. 8.
- Allen, Percy J. (See Johnstone, J., and Allen.)
- Allen, Robert C., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine valve. 1,620,624; Mar. 15.
- Allen, Robert C., Essington, Pa., assignor to Westinghouse Gear and Dynamometer Company. Reduction gearing. 1,634,863; July 5.
- Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade lashing. 1,621,618; Mar. 22.
- Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-cooling means. 1,634,894; July 5.
- Allen, Robert N., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Shuttle. 1,643,360; Sept. 27.
- Allen, Roy O., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Locking device. 1,648,886; Nov. 15.
- Allen, S. L., & Co. (See Warren, William C., assignor.)
- Allen, S. L., & Co. (See Yancey, Samuel H., assignor.)
- Allen, Samuel G., trustee. (See Davis, Frank W., assignor.)
- Allen, Samuel E., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Gradually speeding up engine-driven machines. 1,645,979; Oct. 18.
- Allen, Samuel E., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Liner stretcher for test cups of milking machines. 1,648,436; Nov. 8.
- Allen, Seton J., Vineland, N. J. Last for making shoes. 1,634,816; July 5.
- Allen, Seton J., Vineland, N. J. Shoe. 1,634,816; July 5.
- Allen, Sherman W., Albany, Ala. Quilting frame. 1,616,593; Feb. 8.
- Allen, Therron J., administrator. (See Allen, Charles S.)
- Allen, Thomas W., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Garnett machine. 1,630,158; May 24.
- Allen, Victor M., Waverly, N. Y. Glareshield for motor vehicles. 1,617,981; Feb. 15.
- Allen, Victor M., Waverly, N. Y. Window ventilator. 1,630,594; May 31.
- Allen, Wesley P., and E. H. Fincher, Mannsville, Okla. Cultivator. 1,621,704; Mar. 22.
- Allen, William A., New York, N. Y. Attachment means for controlling apparatus. 1,628,701; May 17.
- Allen, William A., Yonkers, assignor to The Allen Auto Specialty Company, New York, N. Y. Radiator shutter. 1,615,781; Jan. 25.
- Allen, William E., Bridgeport Conn., assignor to Crane Co., Chicago, Ill. Tank drain valve. 1,652,510; Dec. 13.
- Allen, William F., Nashville, Tenn. Heater. Re16,677; July 12.
- Allen, William H., Detroit, Mich. Coating process. 1,613,428; Jan. 4.
- Allen, William H., Detroit, Mich. Removal of coatings. 1,639,070; Aug. 16.
- Allen, William H., Detroit, Mich. Regenerating caustic small solutions. 1,647,784; Nov. 1.
- Allen, Willie L., Nacogdoches, Tex. Valve lifter. 1,621,820; Mar. 22.
- Allenite Company, The. (See Allen, C. H., and Roseman, assignors.)
- Allensworth, James N., M. C. Keltner, and O. C. Collins, Memphis, Tenn.; said Allensworth and said Collins, assignors to N. A. Carter and L. Wallin, Earle, Ark. Winch attachment for tractors. 1,654,106; Dec. 27.
- Allerheiligen, Albert H., C. Erichsen, and L. F. Crain, Missouri Valley, Iowa. Temperature control for internal-combustion motors. 1,646,338; Oct. 18.
- Allert, Cornelius. (See Williams, Sylvester J., assignor.)
- Allerton, Oscar J., assignor to The Florsheim Shoe Company, Chicago, Ill. Apparatus for coating articles. 1,651,939; Dec. 6.
- Allerton, Robert W., South Orange, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Pump. 1,616,072; Feb. 1.
- Alles, Peter, Bloomfield, N. J. Window seat. 1,650,315; Nov. 22.
- Alley, John H., assignor to The American Motor Body Corporation, Philadelphia, Pa. Air-cooled clutch. 1,635,353; July 12.
- Allgemeine Gesellschaft für Chemische Industrie m. b. H. (See Jodeck, Paul, assignor.)
- Alliance Machine Company, The. (See Yanney, George W., assignor.)
- Alliance Machine Company, The. (See Yanney, G. W., and Keller, assignors.)
- Alliance Toy & Specialty Company, The. (See Dooley, William, assignor.)
- Alliance Toy & Specialty Company, The. (See Lewis, Owen L., assignor.)
- Allianze Viroed China Company. (See Hashagen, August, assignor.)
- Allied Metal Industries, Inc. (See Finch, Harry, assignor.)
- Allied Metal Industries, Inc. (See Holdeman, Harry R., assignor.)
- Allied Packers, Inc. (See Appleton, Joseph H., assignor.)
- Allied Packers, Inc. (See Ralston, David S., assignor.)
- Allied Process Corporation. (See Czochralski, Johann, assignor.)
- Allied Process Corporation. (See Czochralski, J., and Welter, assignors.)
- Allied Process Corporation. (See Weidmann, Hans, assignor.)
- Allied Process Corporation. (See Welter, Georg, assignor.)
- Allinger, Albert A., Richmond Hill, assignor to American Game & Toy Corporation, Brooklyn, N. Y. Game apparatus. 1,628,446; May 10.
- Allingham, Sidney, London, assignor to Robert Boby Limited, Bury St. Edmunds, England. Machine for harvesting fax and other plants. 1,631,612; June 7.
- Allis-Chalmers Manufacturing Company. (See Agthe, Frederick T., assignor.)
- Allis-Chalmers Manufacturing Company. (See Bond, John S., assignor.)
- Allis-Chalmers Manufacturing Company. (See Dahl and Hildebrand, P., assignors.)
- Allis-Chalmers Manufacturing Company. (See Davis, Rae W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Dimberg, Paul C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Feindt, Arnold, F., assignor.)
- Allis-Chalmers Manufacturing Company. (See Gross, E., and Brinker, assignors.)
- Allis-Chalmers Manufacturing Company. (See Kane, John J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Klenk, George, assignor.)

- Allis-Chalmers Manufacturing Company. (See Knight, Earle R., assignor.)
- Allis-Chalmers Manufacturing Company. See Newhouse, Ray C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Nichols, Louis C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)
- Allis-Chalmers Manufacturing Company. (See Powell, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Schmidt, Franz, assignor.)
- Allis-Chalmers Manufacturing Company. (See Shaw, Ernest C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Sprado, Carl G., assignor.)
- Allis-Chalmers Manufacturing Company. (See Steen, Carl W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Steen, Charles W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Taylor, Charles B., assignor.)
- Allis-Chalmers Manufacturing Company. (See Weimer, Hugo W., assignor.)
- Allison, Charles F., Wells, assignor of one-half to H. B. Peatling, Salina, Kans. Vehicle end gate. 1,635,163; July 12.
- Allison, Clifford E., assignor to Willamette Iron and Steel Works, Portland, Oreg. Hoisting apparatus. 1,644,529; July 5.
- Allison, Ernest A., Eureka, Calif. Cooking utensil. 1,616,435; Feb. 8.
- Allison, Eva K., Los Angeles, Calif. Condiment holder. Dcs. 73,514; Sept. 27.
- Allison, Fred, Highland Park, assignor to Ford Motor Company, Detroit, Mich. Starting system for internal-combustion engines. 1,620,747; Mar. 15.
- Allison, Harry S., assignor to W. D. Allison, Indianapolis, Ind. Examining-table footstep. 1,649,053; Nov. 15.
- Allison, Harvey, New York, N. Y. Weighing device. 1,628,762; May 17.
- Allison, Harvey, New York, N. Y., assignor to W. J. O'Leary, Montreal, Quebec, Canada. Walking toy. 1,617,698; Feb. 15.
- Allison, William D. (See Allison, Harry S., assignor.)
- Allman, David W., Toronto, Ontario, Canada. Siphon for flush tanks. 1,618,362; Feb. 22.
- Allman, John H., trustee. (See Hansson, Soren, assignor.)
- Allmann Svenska Elektriska Aktiebolaget. (See Petersen, Wilhelm H., assignor.)
- Allmann Svenska Elektriska Aktiebolaget. (See Rooth, Adolf, assignor.)
- Allmann Svenska Elektriska Aktiebolaget. (See Stenkvist, Emil, assignor.)
- Allmann Svenska Elektriska Aktiebolaget. (See Ytterberg, Arle, assignor.)
- All-Metal Products Company, The. (See Schmidt, William F., assignor.)
- Alloy Metal Products Co. (See Shortt, James, assignor.)
- Alred, Daniel M. (See Foerster, Herman, assignor.)
- Alsopp Bros. (See Steller, Arthur, assignor.)
- Alsopp, Clifford W., Newark, N. J. Process and apparatus for making finger rings. 1,635,354; July 12.
- Alt-Steel-Equip Company. (See Knell, John, assignor.)
- Altimes, Alfred, South Medford, Mass. Cutting and embossing device for biscuit machines. 1,650,682; Nov. 29.
- Alwill, Stephen S., Auckland, New Zealand. Carburetor. 1,623,899; Apr. 5.
- Allyn, Harley H., Norwich, Conn., and J. S. Williams, Wallingford, Pa.; said Allyn assignor to said Williams. Treating automobile tires and products resulting therefrom. 1,614,024; Jan. 11.
- Allyn, Newell O., Leavittsburg, Ohio. Tool for surfacing cylindrical bores. 1,652,885; Dec. 13.
- Allyn, Robert S., et al. (See Campbell, Harry, assignor.)
- Allyne-Zerk Company, The. (See Bystricky, Joseph, assignor.)
- Alm, Joseph E., San Francisco, Calif. Expandible belt connector. 1,639,250; Aug. 16.
- Alma, Carl E. (See Alma, Maximilian, C. E.)
- Alma, Maximilian and C. E., Vienna, Austria. Repositioning device for swinging coupling heads on railroad vehicles. 1,632,942; June 21.
- Almay, Lawrence M., and A. J. Smith, Pittsburgh, Pa. Steam turbine. 1,613,008; Jan. 4.
- Almen-Crosby Motors Company. (See Almen, John O., assignor.)
- Almen, John O., Seattle, Wash., assignor to Almen-Crosby Motors Company, Inc. Valve mechanism for internal-combustion engines. 1,637,017; July 26.
- Almqvist, Grace B., La Porte, Tex. Hairpin. 1,617,980; Feb. 15.
- Almqvist, Leopold, New York, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Mine car. 1,616,564; Feb. 8.
- Almqvist, Milton L. (See Demarest, C. S. and Almqvist, Alvin, John A., Joplin, Mo. Mail box. 1,626,320; Apr. 26.
- Almy, Charles F. H., Edgewood, assignor to Almy Water-Tube Boiler Co., Providence, R. I. Water-tube heater. 1,614,767; Jan. 18.
- Almy Water-Tube Boiler Co. (See Almy, Charles F. H., assignor.)
- Alpina Kase A.-G. (See Sutter, Ernst, assignor.)
- Alsaker, Alfred, assignor to The Delta-Star Electric Co., Chicago, Ill. Clamping means. 1,638,230; Aug. 9.
- Alsberg, Julius, New York, N. Y., assignor to B. Heller & Company, Chicago, Ill. Curing meats. 1,635,301; July 12.
- Alsberg, Julius, New York, N. Y., assignor to B. Heller & Company, Chicago, Ill. Sausage meat and producing means. 1,637,302; July 12.
- Alsberg, Julius, New York, N. Y., and P. J. Ralph, Trenton, N. J.; said Ralph assignor to said Alsberg. Apparatus for analyzing gases. 1,633,881; June 28.
- Alschluer, Ernest, New York, N. Y. Electrical connector. 1,617,474; Feb. 15.
- Alsesser, Joseph, Chicago, Ill. Bracket. 1,642,352; Sept. 8.
- Alsop, Samuel, New York, N. Y. Ignition apparatus. 1,620,861; Mar. 15.
- Alspaugh, James S., Portsmouth, Ohio. Gear shift mechanism. 1,648,935; Oct. 4.
- Altenuis, Jacob K., Philadelphia, Pa. Yarn-oiling device. 1,621,303; Mar. 15.
- Altenuis, Jacob K., Philadelphia, Pa. Yarn-winding machine. 1,644,973; Oct. 11.
- Altenuis, Edmund, Fredersdorf, near Alt-Landsberg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Refrigerating apparatus of the absorption type. Re16,525; Jan. 11.
- Altenuis, Edmund, Alt-Landsberg-Süd, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, and elsewhere, Germany. Absorption method and apparatus. 1,615,353; Jan. 25.
- Alter, Henry A., Yonkers, and H. J. Wolner and M. and B. Schwartzman, New York, N. Y. Fry-drying apparatus. 1,635,876; July 12.
- Alter, Julius M., Brooklyn, N. Y. Match book and method of making. 1,646,229; Oct. 18.
- Alterman, Joseph. (See Joseph, F., and Creamer, assignor.)
- Alterthum, Hans. (See Koref, F., and Alterthum.)
- Altgelt, Herman E. (See Altgelt, Rudolph J. and H. E.)
- Altgelt, Herman E., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow structure. 1,613,596; Jan. 11.
- Altgelt, Herman E., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. 1,637,925; Aug. 2.
- Altgelt, Herman E., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. 1,642,801; Sept. 20.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Hitch device. 1,613,597; Jan. 11.
- Altgelt, Rudolph J. and H. E., assignors to Oliver Chilled Plow Works, South Bend, Ind. Plow. 1,618,693; Feb. 22.
- Althaus, Henry. (See Gebhard, J. B., and Althaus.)
- Alther, Joseph G. (See Egloff, G., and Alther.)
- Altmar, George, and J. A. Campbell, Parsons, Kans. Flue sander. 1,613,638; Jan. 11.
- Altman, Fred E. (See Frederick, C. W., and Altman.)
- Altman, Henry W. (See Folger, F. S., and Altman.)
- Altorfer, Alpheus W., Peoria, Ill. Washing machine. 1,632,866; June 21.
- Altorfer, Alpheus W., Peoria, Ill. Wringer. 1,637,630; Aug. 2.
- Altorfer, Alpheus W., Peoria, Ill. Washing-machine tub. 1,648,530; Nov. 8.
- Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,626,064; Apr. 26.
- Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,630,343; Aug. 30.
- Altorfer Bros. Company. (See Altorfer, Alpheus W., assignor.)
- Altorfer, Lehmann & Cle., Zentralheizungsfabrik. (See Sekinger, Otto, assignor.)
- Altpeter, Franz W., Chicago, Ill. Fretted musical instrument. 1,618,626; Feb. 22.
- Altwater, Herbert G., Hot Sulphur Springs, Colo. Multiple-speed transmission mechanism. 1,616,342; Feb. 1.
- Altwickler, Carl, Gotha, assignor to Deutsche Werke Aktiengesellschaft, Berlin-Wilmersdorf, Germany. Alternating-current motor. 1,625,760; Apr. 19.
- Aluminate Sales Corporation. (See Evans, Wilson, assignor.)
- Aluminium Welding Works Ltd. (See Winter, Paul, assignor.)
- Aluminum Company of America. (See Barnitt, Jesse B., assignor.)
- Aluminum Company of America, The. (See Collins, Rollin E., assignor.)
- Aluminum Company of America. (See Guyot, Marlus, assignor.)
- Aluminum Company of America, The. (See Magill, Charles E., assignor.)
- Aluminum Company of America. (See Norton, Allen B., assignor.)

- Aluminum Company of America. (See Pedersen, Harald, assignor.)
- Aluminum Company of America. (See Sharp, John E., assignor.)
- Aluminum Company of America. (See Stay, T. D., and Tessier, assignors.)
- Aluminum Company of America. (See Shumaker, Frank H., assignor.)
- Aluminum Company of America. (See Varney, Theodore, assignor.)
- Aluminum Company of America. (See Welty, George D., assignor.)
- Aluminum Cooking Utensil Co., The. (See Wilson, John H., assignor.)
- Aluminum Plant and Vessel Company Limited, The. (See Seligman, Richard, assignor.)
- Aluminum Products Company. (See Hastings, William A., assignor.)
- Aluminum Products Company. (See McClure, Elmer P., assignor.)
- Aluminum Seal Corporation. (See Nordstrom, Elof, assignor.)
- Alumoyd Sign & Signal Co. (See Thompson, Ray A., assignor.)
- Alvarado, Alberto M., Durango, Mexico. Violin bridge. 1,623,900; Apr. 5.
- Alvares, Arthur C., Berkeley, Calif. Wire fastener. 1,617,735; Feb. 15.
- Alver, Victor, Brooklyn, assignor to F. J. Kline, Long Island City, N. Y. Paper fastener. 1,650,002; Nov. 22.
- Alvera, Josef. (See Wenz, J., Alvera, and Brunnhubner.)
- Alvey, Benjamin H., Louisville, Ky. Automobile top. 1,613,429; Jan. 4.
- Alvey Manufacturing Company. (See Bohn, William J., assignor.)
- Alvord, Earl B., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Production of sodium hydrosulphide and valuable by-products. 1,650,106; Nov. 22.
- Alworth, Greydon N., South Milwaukee, Wis. Automatic line indicator for typewriters. 1,640,337; Aug. 23.
- Amalgamated Dyestuff and Chemical Works, Inc., The. (See Fletcher, Robert J., assignor.)
- Amalgamated Roofing Company. (See Milligan, Seaton K., assignor.)
- Amann, Adolf, Schomburg, near Wildbach, Germany. Instrument sterilizer. 1,647,070; Oct. 25.
- Amann, August, and E. Fonrobert, Wiesbaden, assignors to the Firm Chemische Fabriken Dr. Kurt Albert, G. m. b. H., Amoneburg, near Biebrich-on-the-Rhine, Germany. Making condensation products from mono- and diethyl phenols and aldehydes. 1,614,171; Jan. 11.
- Amann, August, and E. Fonrobert, Wiesbaden, assignors to the Firm Chemische Fabriken Dr. Kurt Albert, G. m. b. H., Amoneburg, near Biebrich-on-the-Rhine, Germany. Condensation product of ketones and phenols. 1,614,172; Jan. 11.
- Amann, August, and E. Fonrobert, Wiesbaden, assignors to the Firm Chemische Fabriken Dr. Kurt Albert, G. m. b. H., Amoneburg, near Biebrich-on-the-Rhine, Germany. Improvement of natural resins. 1,623,901; Apr. 5.
- Amann, Alexander E., Lacey, Wash. Dirigible headlight. 1,635,393; July 12.
- Amargós, José L., San Manuel, Cuba. Stalk-cutting attachment for plows. 1,637,926; Aug. 2.
- Amato, John, et al. (See Amato, Luciano, assignor.)
- Amato, Luciano. (See Selden, J. L., and Amato.)
- Amato, Luciano, South Berkeley, assignor of one-third to J. L. Selden, Oakland, and one-third to J. Amato, South Berkeley, Calif. Vehicle bumper. 1,622,754; Mar. 29.
- Amberg File and Index Company. (See Amberg, Theodore J., assignor.)
- Amberg, Theodore J., Chicago, Ill., assignor to Amberg File and Index Company. Guide card for vertical filing systems. 1,616,943; Feb. 8.
- Amberg, Walter E., Chicago, assignor to W. O. Peterson and B. L. Engelke, Chicago, Ill. Shearing tubular members. 1,635,807; July 12.
- Ambler Asbestos Company. (See Applin, Harry, assignor.)
- Ambler Asbestos Company. (See Mattison, Richard V., assignor.)
- Ambler Asbestos Shingle, Slate and Sheathing Company. (See Frey, Ralph E., assignor.)
- Ambler, George B., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Folding gocart. 1,653,533; Dec. 20.
- Amler, Robert R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and machine for covering flexible strips. 1,632,816; June 21.
- Ambrogini, Virgilio, Harrington, Wash. Car replacer. 1,636,034; July 19.
- Ambrose, Frank F., Los Angeles, Calif. Screw pump. 1,635,534; Dec. 20.
- Ambrose, Roy B., and J. W. Patterson, Pittsburgh, Pa. Fluid meter. 1,635,355; July 12.
- Amdur, Noah W., New Rochelle, assignor to Sun-Ray Lighting Products, Inc., New York, N. Y. Universal joint. 1,635,164; July 12.
- Amdursky, Samuel S., assignor to Taylor Instrument Companies, Rochester, N. Y. Filter. 1,630,287; May 31.
- Amdursky, Samuel S., assignor to Taylor Instrument Companies, Rochester, N. Y. Hygrometric apparatus. 1,635,697; July 12.
- Amdursky, Samuel S., assignor to The Taylor Instrument Companies, Rochester, N. Y. Apparatus for regulating wax-sweating systems. 1,636,730; July 26.
- Amdyco Corporation. (See Dunlap, F. L., and Ewer, assignors.)
- Amen, Nicholas C., assignor to H. H. Randolph, Kansas City, Mo. Fabric cement. 1,643,437; Sept. 27.
- Amend, August M., Manila, P. I., assignor to Atlantic Gulf & Pacific Company of Manila. Water gate. 1,654,476; Dec. 27.
- Amend, Otto P., New York, N. Y. Cracking or converting oils. 1,613,735; Jan. 11.
- Amende, Lewis W., Casper, Wyo. Shock absorber. 1,623,081; Apr. 5.
- Ament, Nat H., Inglewood, Calif. Oscillating valve for internal-combustion engines. 1,614,768; Jan. 18.
- American Aggregate Company. (See Hayde, Stephen J., assignor.)
- American Arch Company. (See Himmelright, Raleigh J., assignor.)
- American Arch Company. (See Willett, Alfred H., assignor.)
- American Auto Laundry Equipment Company. (See Gates, William J., assignor.)
- American Auto Rim Lock Corporation. (See Hoecker, Albert C., assignor.)
- American Auto Trimming Company. (See Best, Frank A., assignor.)
- American Auto Trimming Company. (See Plumb, Milton M., assignor.)
- American Automatic Lock and Lift Company. (See Bennett, George E., assignor.)
- American Automotive Corporation. (See Lavigne, Henry W., assignor.)
- American Autoparts Company. (See Frater, William H., assignor.)
- American Bank Note Company. (See Aitchison, Peter, assignor.)
- American Bank Note Company. (See Reinhardt, James H., assignor.)
- American Battery Products Corporation. (See MacKenzie, William A., assignor.)
- American Benberg Corporation. (See Elsaesser, E., and Hartmann, assignors.)
- American Benberg Corporation. (See Meyer-Gaus, Karl, assignor.)
- American Blower Company. (See Rowe, William A., assignor.)
- American Boiler Life Company. (See Doe, Alfred G., assignor.)
- American Bottle Company. (See Curran, Jerome P., assignor.)
- American Bottle Company, The. (See Stewart, Gayle D., assignor.)
- American Brake Company, The. (See Williamson, Frederick G., assignor.)
- American Brake Shoe and Foundry Company, The. (See De France, Murrell R., assignor.)
- American Brake Shoe & Foundry Company, The. (See Nelson, Albert, assignor.)
- American Brake Shoe & Foundry Company, The. (See Pogue, Robert B., assignor.)
- American Brass Company, The. (See Bassett, William H., jr., assignor.)
- American Brass Company, The. (See Coe, James R., assignor.)
- American Brass Company, The. (See Davis, Charles H., assignor.)
- American Buckle Co., The. (See Hodge, Robert J., assignor.)
- American Cable Company. (See Briggs, Arthur J., assignor.)
- American Cable Company. (See Conner, Edward A., assignor.)
- American Cable Company. (See Rosenberg, Ralph H., assignor.)
- American Can Company. (See Bachelder, Luther C., assignor.)
- American Can Company. (See Bryant, Harvey L., assignor.)
- American Can Company. (See Butler, William F., assignor.)
- American Can Company. (See Casper, G. H., and Dillon, assignors.)
- American Can Company. (See Corey, Harry R., assignor.)
- American Can Company. (See Eberhart, Felix, assignor.)
- American Can Company. (See Edwards, John R., assignor.)
- American Can Company. (See Egenolf, Jacob F., assignor.)
- American Can Company. (See Fleischer, Paul W., assignor.)
- American Can Company. (See Graf, Henry G., assignor.)
- American Can Company. (See Gray, James A., assignor.)
- American Can Company. (See Hotherals, John M., assignor.)
- American Can Company. (See Hunter, Felix, assignor.)
- American Can Company. (See Korwan, Harry B., assignor.)
- American Can Company. (See Loesel, Nicholas, assignor.)

- American Can Company. (See Magill, Donald G., assignor.)
- American Can Company. (See McCann, Leland R., assignor.)
- American Can Company. (See Miller, Henry, assignor.)
- American Can Company. (See Murch, John H., assignor.)
- American Can Company. (See Nordquist, Ronald E. J., assignor.)
- American Can Company. (See Odquist, Victor, assignor.)
- American Can Company. (See Peters, John F., assignor.)
- American Can Company. (See Pittelkow, August, assignor.)
- American Can Company. (See Rudolph, Franklin, assignor.)
- American Can Company. (See Schultz, Edward, assignor.)
- American Can Company. (See Stewart, James A., assignor.)
- American Can Company. (See Stollberg, Charles, assignor.)
- American Can Company. (See Taylor, William E., assignor.)
- American Can Company. (See Tevander, Swan N., assignor.)
- American Can Company. (See Widell, Magnus E., assignor.)
- American Can Company. (See Widell, M. E., and Rudolph, assignors.)
- American Can Company. (See Young, John M., assignor.)
- American Can Perforator Company, The. (See Lyman, Walter H., assignor.)
- American Car and Foundry Company. (See Abel, Joseph C., assignor.)
- American Car and Foundry Company. (See Almqvist, L., and Willoughby, assignors.)
- American Car and Foundry Company. (See Bates, Richard A., assignor.)
- American Car and Foundry Company. (See Bloss, Nelson W., assignor.)
- American Car and Foundry Company. (See Campbell, Edmund D., assignor.)
- American Car and Foundry Company. (See Constantine, Alphonse A., assignor.)
- American Car and Foundry Company. (See Cooper, W. E., and Willoughby, assignors.)
- American Car and Foundry Company. (See Dietrichson, William F., assignor.)
- American Car and Foundry Company. (See Elder, Thomas W., Jr., assignor.)
- American Car and Foundry Company. (See Field, Henry P., assignor.)
- American Car and Foundry Company. (See Folmsbee, Clyde H., assignor.)
- American Car and Foundry Company. (See Gibbs, Frederick H., assignor.)
- American Car and Foundry Company. (See Johnson, Warren V., assignor.)
- American Car and Foundry Company. (See Johnson, W. V., and Kepner, assignors.)
- American Car and Foundry Company. (See Johnson, W. V., and McDowell, assignors.)
- American Car and Foundry Company. (See Kaseberg, Theodore C., assignor.)
- American Car and Foundry Company. (See Kassler, Adolph, assignor.)
- American Car and Foundry Company. (See Kuhl, Robert J., assignor.)
- American Car and Foundry Company. (See Long, Frederick R., assignor.)
- American Car and Foundry Company. (See Lucas, Walter A., assignor.)
- American Car and Foundry Company. (See McBride, John J., assignor.)
- American Car and Foundry Company. (See Ostrander, Allen E., assignor.)
- American Car and Foundry Company. (See Rohlfing, John M., assignor.)
- American Car and Foundry Company. (See Schroeder, Robert R., assignor.)
- American Car and Foundry Company. (See von Dabrowski, Lothar, assignor.)
- American Car and Foundry Company. (See Walp, Charles F., assignor.)
- American Car and Foundry Company. (See Willoughby, Victor, assignor.)
- American Car and Foundry Company. (See Willoughby, V., and Kassler, assignors.)
- American Car and Foundry Company. (See Wolf, Fred G., assignor.)
- American Car and Foundry Motors Company. (See Hawkes, Arthur G., assignor.)
- American Casting and Manufacturing Corporation. (See Hiesche, Emil, assignor.)
- American Cast Iron Pipe Company. (See Moore, J. W., and Moxley, assignors.)
- American Cellulose and Chemical Manufacturing Company Limited. (See Ellis, George H., assignor.)
- American Chain Company. (See Campbell, Andrew C., assignor.)
- American Chain Company. (See Fageol, Rollie B., assignor.)
- American Chain Company. (See Goetz, Oscar H., assignor.)
- American Chain Company. (See Pratt, Alphonso C., assignor.)
- American Chain Company, Inc. (See Kirk, Robert W., assignor.)
- American Couch & Body Company, The. (See Larsen, Niel P., assignor.)
- American Coal Chute Co., The. (See Koller, John, assignor.)
- American Coaloil Corporation. (See Greenstreet, Charles J., assignor.)
- American Coating Mills. (See Colbert, C. C., and Preston, assignors.)
- American Coke & Chemical Company. (See Kus, Thomas G., assignor.)
- American Copper Products Corporation. (See Staples, H. A., and Hensch, assignors.)
- American Crayon Company, The. (See Daniels, Charles E., assignor.)
- American Creosoting Company. (See Austin, H. E., and Cook, assignors.)
- American Creosoting Company, The. (See Fulk, Elbridge B., assignor.)
- American Cuptor Corporation. (See Weckbaugh, Joseph V., assignor.)
- American Cyanamid Company. (See Barsky, George, assignor.)
- American Cyanamid Company. (See Barsky, G., and Hirsch, assignors.)
- American Cyanamid Company. (See Bierman, H. C., and Speirs, assignors.)
- American Cyanamid Company. (See Buchanan, G. H., and Griffith, assignors.)
- American Cyanamid Company. (See Buchannan, G. H., and Osborne, assignors.)
- American Cyanamid Company. (See Christmann, Ludwig J., assignor.)
- American Cyanamid Company. (See Collins, Charles D., assignor.)
- American Cyanamid Company. (See Cooper, Kenneth F., assignor.)
- American Cyanamid Company. (See Cox, George E., assignor.)
- American Cyanamid Company. (See Kilbourne, Kenneth A., assignor.)
- American Cyanamid Company. (See Landis, W. S., and Buchanan, assignors.)
- American Cyanamid Company. (See Moffett, Ernest C., assignor.)
- American Cyanamid Company. (See Ruff, John M., assignor.)
- American Cystoscope Makers, Inc. (See Wappler, Reinhold H., assignor.)
- American District Steam Company. (See Benedict, Everett R., assignor.)
- American Dressler Tunnel Kilns, Inc. (See Crawford, George E., assignor.)
- American Dressler Tunnel Kilns, Inc. (See Dressler, Conrad, assignor.)
- American Dressler Tunnel Kilns, Inc. (See Dressler, Philip D., assignor.)
- American Dressler Tunnel Kilns, Inc. (See Dressler, Philip D., assignor.)
- American Dressler Tunnel Kilns, Inc. (See Meeban, Paul A., assignor.)
- American Dressler Tunnel Kilns, Inc. (See Morris, George D., assignor.)
- American Dry Cleaning Company. (See Aydelotte, John T., assignor.)
- American Electric Company. (See Erickson, Charles J., assignor.)
- American Electric Fusion Corporation. (See von Henke, Edmund J., assignor.)
- American Electric Motor Company. (See Daun, C. L., assignor.)
- American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)
- American Electrical Heater Company. (See Thomas, L. H., and Kuhn, assignors.)
- American Eucastite Tiling Company. (See Lillibridge, J., assignor.)
- American Eucastite Tiling Company. (See Prouty, Theodore C., and W. O., assignors.)
- American Engineering Company. (See Cannon, Earl, assignor.)
- American Engineering Company. (See Preston, Herbert E., assignor.)
- American Engineering Company. (See Schultz, John L., assignor.)
- American Engineering Company. (See Smith, George E., assignor.)
- American Engineering Company. (See Weingartner, Anthony E., assignor.)
- American Fibre Corporation. (See Baldwin, E. F., and Woods, assignors.)
- American Flange & Manufacturing Company. (See Hurst, Francis R., assignor.)
- American Flange & Manufacturing Co. (See Schwartz, Morris, assignor.)
- American Flatite Company, The. (See Balsille, John G., assignor.)
- American Flyer Manufacturing Company. (See Becker, Henry S., assignor.)
- American Forge & Machine Company, The. (See Barnes, Herman L., assignor.)

- American Foundry Equipment Company. (See Coble, David C., assignor.)
- American Foundry Equipment Company, The. (See Minich, Verne E., assignor.)
- American Foundry Equipment Company, The. (See Minich, V. E. and Moore, assignors.)
- American Foundry Equipment Company, The. (See Rich, Elmer A., Jr., assignor.)
- American Foundry Equipment Company, The. (See Smith, Harry, assignor.)
- American Frog & Switch Company, The. (See Detmer, Ralph G., assignor.)
- American Game & Toy Corporation. (See Allinger, Albert A., assignor.)
- American Gasaccumulator Company. (See Dalen, Gustaf, assignor.)
- American Gasaccumulator Company. (See Johanson, George K. V., assignor.)
- American Gasaccumulator Company. (See Medén, Elof H., assignor.)
- American Gasaccumulator Company. (See Oestnaes, Victor L., assignor.)
- American Gas Accumulator Company. (See Oestnaes, Victor L., assignor.)
- American Gas Construction Company. (See Tenney, C. I. and Thayer, assignors.)
- American Gas Machine Company. (See Green, Andrew, assignor.)
- American Gas Machine Company. (See Hanson, Hans C., assignor.)
- American Gas Machine Company. (See Olsen, Walter, assignor.)
- American Glass Works, Incorporated. (See Ready, William, J., assignor.)
- American Glue Company. (See Campbell, Charles H., assignor.)
- American Glue Company. (See Underwood, George R., assignor.)
- American Grinder Company. (See Ott, Albert J. and C. L., assignors.)
- American Gypsum Company. (See Clark, Sidney C., assignor.)
- American Hard Rubber Company. (See Koblmeier, George, assignor.)
- American Hardware Corporation, The, et al. (See Christoph, George W., assignor.)
- American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
- American Hardware Corporation, The. (See Ringle, Percy H., assignor.)
- American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
- American Hoist & Derrick Co. (See Sederholm, John E., assignor.)
- American Hoist & Derrick Company. (See Sommer, William, assignor.)
- American Hydrocarbon Co. Inc. (See Clayton-Kennedy, Kenneth E., assignor.)
- American Incubators, Inc. (See Watson, H. L. and Heldrich, assignors.)
- American Iron & Machine Works, Inc. (See Murphy, Orville E., assignor.)
- American Katalite Corporation. (See Sokal, Edward, assignor.)
- American Kron Scale Company. (See Holm, John, assignor.)
- American Lace Paper Co. (See Conrad, Fred A., assignor.)
- American Lady Corset Company. (See Siegel, Joseph, assignor.)
- American Lakes Paper Company. (See Kress, Otto, assignor.)
- American Lakes Paper Company. (See Seaborne, Charles R., assignor.)
- American Lakes Paper Company. (See Weber, Herman G., assignor.)
- American Laundry Machinery Company, The. (See Carroll, Emil J., assignor.)
- American Laundry Machinery Company, The. (See Colclough, William, assignor.)
- American Laundry Machinery Company, The. (See Daly, Michael E., assignor.)
- American Laundry Machinery Company, The. (See Dreher, Albert J., assignor.)
- American Laundry Machinery Company, The. (See Dreher, A. and Benjamin, assignors.)
- American Laundry Machinery Company, The. (See Holden, Harry C., assignor.)
- American Laundry Machinery Company, The. (See Singiser, John P., assignor.)
- American Laundry Machinery Company, The. (See Taylor, James P., assignor.)
- American Laundry Machinery Company, The. (See Taylor, J. H. and Singiser, assignors.)
- American Laundry Machinery Company, The. (See Warren, Charles E., assignor.)
- American Lead Pencil Company. (See Roche, John, assignor.)
- American Liquid Meter Company. (See Bassler, Carlos J., assignor.)
- American Lithographic Company. (See Intemann, William, assignor.)
- American Lock Nut Company. (See Hawley, Bates E., assignor.)
- American Lock Nut Company. (See Lafever, George, assignor.)
- American Locker Company. (See Johnson, Harvey L., assignor.)
- American Lurgi Corporation. (See Müller, Georg, assignor.)
- American Machine and Foundry Company. (See Armstrong, Harry Y., assignor.)
- American Machine & Foundry Company. (See Bronander, Wilhelm B., assignor.)
- American Machine & Foundry Company. (See Bronander, W. B. and Leary, assignors.)
- American Machine & Foundry Company. (See Di Inaul, Frank, assignor.)
- American Machine & Foundry Company. (See Gwinn, George W., assignor.)
- American Machine & Foundry Company. (See Halstead, John F., assignor.)
- American Machine & Foundry Company. (See Hawkins, Wilford J., assignor.)
- American Machine & Foundry Company. (See Ogden, Ashley G., assignor.)
- American Machine and Foundry Company. (See Schmitt, Frank R., assignor.)
- American Machine and Foundry Company. (See Stein, John A., assignor.)
- American Machinery Co. (See Lundin, T. B. and McGhee, assignors.)
- American Manganese Steel Company. (See Clark, John C., assignor.)
- American Manganese Steel Company. (See Estes, Clarence H., assignor.)
- American Manganese Steel Company. (See Mullally, Walter J., assignor.)
- American Manganese Steel Company. (See Nagle, Perry I., assignor.)
- American Manganese Steel Company. (See Pfeil, Henry C., assignor.)
- American Manganese Steel Company. (See Psilander, Charles A., assignor.)
- American Manganese Steel Company. (See Rorabeck, Charles, assignor.)
- American Manufacturing Company. (See Fliedner, John, assignor.)
- American Manufacturing Company. (See Lindeken, August T., assignor.)
- American Marine Device Corporation. (See Lenz, C. S. and Lupp, assignors.)
- American Metal Cap Company. (See Hammer, Charles, assignor.)
- American Metallurgical Corporation. (See Hanson, Albert J., assignor.)
- American Meter Company. (See Gough, Wilford A., assignor.)
- American Meter Company. (See Kaiser, William H., assignor.)
- American Meter Company. (See Kerstein, Ernest A., assignor.)
- American Meter Company. (See Linderman, Garrett B., Jr., assignor.)
- American Meter Company. (See Tomlinson, Kenneth C., assignor.)
- American Meter Company. (See Wilson, George D., assignor.)
- American Mills Co. The. (See Smith, Julius B., assignor.)
- American Mine Door Co. The. (See Prince, Harry, assignor.)
- American Mirror Works, et al. (See Hurewitz, Joseph, assignor.)
- American Moistening Company. (See Armstrong, Joseph, assignor.)
- American Moistening Company. (See Comins, Frank B., assignor.)
- American Moistening Company. (See Comins, F. B. and Armstrong, assignors.)
- American Monoral Company, The. (See Harris, Frank C., assignor.)
- American Morgan Company. (See Morgan, Edmund C., assignor.)
- American Motor Body Corporation, The. (See Alley, John H., assignor.)
- American Motor Body Corporation, The. (See Hansen, Conrad T., assignor.)
- American Motor Body Corporation, The. (See Stubblebine, R. F. and Dolan, assignors.)
- American Motor Body Corporation, The. (See Wetzel, Edward A., assignor.)
- American Motor Equipment Corporation. (See Carson, Joseph P., assignor.)
- American Multiphase Company, The. (See Bates, Albert H., assignor.)
- American Multiphase Company, The. (See Chisholm, Charles, assignor.)
- American Multiphase Company, The. (See Chisholm, C. and Colquhoun, assignors.)
- American Multiphase Company. (See Colquhoun, Peter, assignor.)
- American Multiphase Company, The. (See Delehanty, Robert J., assignor.)
- American Multiphase Company, The. (See Demming, William J., assignor.)
- American Multiphase Company, The. (See Goldrick, Albert R., assignor.)
- American Multiphase Company, The. (See Hult, John A., assignor.)

- American Multigraph Company, The. (See Kline, Victor H., assignor.)
- American Multigraph Company, The. (See Macklin, Justin W., assignor.)
- American Multigraph Company, The. (See Morse, Lawrence H., assignor.)
- American Multigraph Company, The. (See Osborn, Henry C., assignor.)
- American Multigraph Company, The. (See Schultz, August L., assignor.)
- American Narrow Fabric Company. (See Hazelton, Carl J., assignor.)
- American-National Company, The. (See Weber, John, assignor.)
- American National Red Cross, The. (See Clark, N. D., and Armstrong, assignors.)
- American Nuplax Corporation. (See Homburg, Felix, assignor.)
- American Optical Company. (See Baker, Nelson M., assignor.)
- American Optical Company. (See Baker, N. M., and Fraser, assignors.)
- American Optical Company. (See Bell, Eugene E., assignor.)
- American Optical Company. (See Currier, Bernard P., assignor.)
- American Optical Company. (See De Zeng, Henry L., assignor.)
- American Optical Company. (See Fisher, Lyle H., assignor.)
- American Optical Company. (See Fraser, Frank, assignor.)
- American Optical Company. (See Gagnon, Louis L., assignor.)
- American Optical Company. (See Gunning, William A., assignor.)
- American Optical Company. (See Gunning, W. A., and Shields, assignors.)
- American Optical Company. (See Hill, Harry W., assignor.)
- American Optical Company. (See Kelley, William J., assignor.)
- American Optical Company. (See Laabs, Max A., assignor.)
- American Optical Company. (See Lancaster, John T., assignor.)
- American Optical Company. (See Maynard, Albert E., assignor.)
- American Optical Company. (See Ohlweiler, Clarence H., assignor.)
- American Optical Company. (See Peterson, Frank E., assignor.)
- American Optical Company. (See Poeton, L., and Morey, assignors.)
- American Optical Company. (See Sangren, Harry A., assignor.)
- American Optical Company. (See Schumacher, Elmer L., assignor.)
- American Optical Company. (See Tillyer, Edgar D., assignor.)
- American Optical Company. (See Tillyer, E. D., and American Optical Company. (See Tillyer, E. D., and Moulton, assignors.)
- American Optical Company. (See Tully, George L., assignor.)
- American Optical Company. (See Wrighton, William J., assignor.)
- American Paper Goods Company, The. (See Cooley, Henry B., assignor.)
- American Piano Company. (See Russell, Guy M., assignor.)
- American Piano Company. (See Stoddard, Charles F., assignor.)
- American Platinum Works. (See Ledig, Kurt K., assignor.)
- American Plumbing and Heating Co. (See Hardacker, William E., assignor.)
- American Plumbing & Heating Company. (See Crosby, Ralph H., assignor.)
- American Protein Corporation. (See Bunker, John W., assignor.)
- American Radiator Company. (See Howell, Frank B., assignor.)
- American Radiator Company. (See Mallory, Harry C., assignor.)
- American Radiator Company. (See Mertzano, André, assignor.)
- American Radiator Company. (See Praud, Henri, assignor.)
- American Radiator Company. (See Sutton, William S., assignor.)
- American Radiator Company. (See Ward, M. H., and Aurand, assignors.)
- American Re-Enforced Paper Company. (See Howard, Charles H., assignor.)
- American Reflex-Lite Company. (See Harmon, George A., assignor.)
- American Road Machinery Company. (See Abbe, George C., assignor.)
- American Road Machinery Company. (See Abbe, G. C., and Williamson, assignors.)
- American Road Machinery Company. (See Pellette, Robert S., assignor.)
- American Rolling Mill Company, The. (See Cushman, Allerton S., assignor.)
- American Rolling Mill Company, The. (See Tytus, John B., assignor.)
- American Rubber Company. (See Teague, Merwyn C., assignor.)
- American Rubber Products Company. (See Ahlgren, J. M., and Bretaud, assignors.)
- American Safety Device Company. (See Davidson, Fred-eric A., assignor.)
- American Safety Device Co. (See Pitou, Eugene, assignor.)
- American Safety Equipment Corporation. (See Olson, Carl W., assignor.)
- American Safety Razor Corporation. (See De Mesquita, Julius B., assignor.)
- American Safety Razor Corporation. (See Kaufman, Joseph, assignor.)
- American Sales Book Company. (See Bottle, Edward K., assignor.)
- American Sales Book Company. (See Johnston, Clarence L., assignor.)
- American Sales Book Company. (See Pringle, William A., assignor.)
- American Schaeffer & Budenberg Corporation. (See Blum, Eugen, assignor.)
- American Schaeffer & Budenberg Corporation. (See Hopkins, Frank H., assignor.)
- American Schaeffer & Budenberg Corporation. (See Nelson, Albin J., assignor.)
- American Schaeffer & Budenberg Corporation. (See Mohr, Herbert, assignor.)
- American Scrubbing Equipment Company. (See Finnell, Walter S., assignor.)
- American Seating Company. (See Hamilton, George H., assignor.)
- American Seeding Machine Company, The. (See Jones, Henry D., assignor.)
- American Separator Company, The. (See Collins, Thomas, assignor.)
- American Sheet and Tin Plate Company. (See McArthur, Arthur R., assignor.)
- American Shoe Machinery Company. (See Martin, Giles W. O., assignor.)
- American Signal Corporation. (See Turck, Albert G., assignor.)
- American Smelting and Refining Company. (See Call, Benjamin G., assignor.)
- American Smelting and Refining Company. (See Cannon, Espey T., assignor.)
- American Smelting and Refining Company. (See Chisholm, Oliver P., assignor.)
- American Smelting and Refining Company. (See Cregan, John F., assignor.)
- American Smelting and Refining Company. (See de Saules, Charles A. H., assignor.)
- American Smelting and Refining Company. (See Forbes, Gordon B., assignor.)
- American Smelting and Refining Company. (See Richards, Adelbert H., assignor.)
- American Smelting and Refining Company. (See Shores, Ethelbert, assignor.)
- American Soda Fountain Company. (See Harper, John L., assignor.)
- American Soda Fountain Company. (See Jenney, T., and Miner, assignors.)
- American Specialty Co. (See Coley, George F., assignor.)
- American Specialty Co. (See Skelly, Bernard H., assignor.)
- American Stamping Co. (See Ordway, Donald P., assignor.)
- American Steam Pump Company. (See Sommer, Karl G., assignor.)
- American Steam Pump Company. (See Yates, De Witt E., assignor.)
- American Steel Foundries. (See Blakeslee, Jerome, assignor.)
- American Steel Foundries. (See Hedgecock, William C., assignor.)
- American Steel Foundries. (See Kayler, Frank H., assignor.)
- American Steel Foundries. (See Kiune, Edmund P., assignor.)
- American Steel Foundries. (See Lamont, John A., assignor.)
- American Steel Foundries. (See Oelkers, Alfred H., assignor.)
- American Steel Foundries. (See Whitney, Loren L., assignor.)
- American Steel Foundries. (See Williams, William E., assignor.)
- American Steel Pipe and Tank Co. (See Kilham, Oliver W., assignor.)
- American Steel Products Co. (See Wells, Edward L., assignor.)
- American Steel Wheel Corporation. (See Jayne, Ames R., assignor.)
- American Steel and Wire Company, The. (See Bussey, H. S., and Hallstrom, assignors.)
- American Steel and Wire Company, The. (See Tangling, Olof, assignor.)
- American Steel and Wire Company of New Jersey, The. (See Cocker, John A., assignor.)

- American Steel and Wire Company of New Jersey, The. (See Hindmarsh, Percy J., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Hoeftmann, Alexander O., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Howe, James F., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Larson, Charles L., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Morrison, Max P., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Raiden, Albert S., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Thomas, Edward, assignor.)
 American Sterilizer Company. (See Hall, J. Everett, assignor.)
 American Sterilizer Company. (See Woods, G. H., Denison, and Wiley, assignors.)
 American Stove Company. (See Meacham, Benjamin E., assignor.)
 American Stove Company. (See Nicolaus, Frederic G., assignor.)
 American Stove Company. (See Possons, Minard A., assignor.)
 American Stove Company. (See Roy, Joseph, assignor.)
 American Stove Company. (See Stockstrom, Arthur, assignor.)
 American Stove Company. (See Stockstrom, Louis, assignor.)
 American Stove Company. (See Wild, Alfred, assignor.)
 American Sundries Co. (See Lawner, Nicholas, assignor.)
 American Telephone and Telegraph Company. (See Abbott, Henry H., assignor.)
 American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
 American Telephone and Telegraph Company. (See Affel, H. A., and Deardorf, assignors.)
 American Telephone and Telegraph Company. (See Anderson, G. T., and Taplin, assignors.)
 American Telephone and Telegraph Company. (See Armstrong, Frank C., assignor.)
 American Telephone and Telegraph Company. (See Bailey, Austin, assignor.)
 American Telephone and Telegraph Company. (See Bailey, Rand S., assignor.)
 American Telephone and Telegraph Company. (See Bailey, R. S., and Bros., assignors.)
 American Telephone and Telegraph Company. (See Bascom, Henry M., assignor.)
 American Telephone and Telegraph Company. (See Bascom, H. M., and Fowler, assignors.)
 American Telephone and Telegraph Company. (See Blackwell, O. B., and Herman, assignors.)
 American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)
 American Telephone and Telegraph Company. (See Bown, Ralph, assignor.)
 American Telephone and Telegraph Company. (See Branham, David E., assignor.)
 American Telephone and Telegraph Company. (See Campbell, George A., assignor.)
 American Telephone and Telegraph Company. (See Carpe, A., and Deardorf, assignors.)
 American Telephone and Telegraph Company. (See Clark, Alva E., assignor.)
 American Telephone and Telegraph Company. (See Connors, Neilson D., assignor.)
 American Telephone and Telegraph Company. (See Cory, Samuel I., assignor.)
 American Telephone and Telegraph Company. (See Crismon, George, assignor.)
 American Telephone and Telegraph Company. (See Crismon, G., and Silent, assignors.)
 American Telephone and Telegraph Company. (See Deardorf, Ralph W., assignor.)
 American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)
 American Telephone and Telegraph Company. (See Demarest, C. S., and Almqvist, assignors.)
 American Telephone and Telegraph Company. (See Dietze, Eginhard, assignor.)
 American Telephone and Telegraph Company et al. (See Dunham, B. G., and Haines, assignors.)
 American Telephone and Telegraph Company. (See Dustin, George E., assignor.)
 American Telephone and Telegraph Company. (See Eagon, Lloyd L., assignor.)
 American Telephone and Telegraph Company. (See Edwards, William H., assignor.)
 American Telephone and Telegraph Company. (See Edwards, W. H., and Tucker, assignors.)
 American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
 American Telephone and Telegraph Company. (See Espenschied, L., and Martin, assignors.)
 American Telephone and Telegraph Company. (See Faries, Charles L., assignor.)
 American Telephone and Telegraph Company. (See Fell, John M., assignor.)
 American Telephone and Telegraph Company. (See Fetter, Charles H., assignor.)
 American Telephone and Telegraph Company. (See Fish, Lewin B., assignor.)
 American Telephone and Telegraph Company. (See Fitzpatrick, Paul G., assignor.)
 American Telephone and Telegraph Company. (See Fraufeld, John C., assignor.)
 American Telephone and Telegraph Company. (See Glendon, O. A., and Dugan, assignors.)
 American Telephone and Telegraph Company. (See Gannett, D. K., and Kirkwood, assignors.)
 American Telephone and Telegraph Company, et al. (See Glezen, L. L., Shackleton, and Vroom, assignors.)
 American Telephone and Telegraph Company. (See Gordon, C. S., and Lowe, assignors.)
 American Telephone and Telegraph Company. (See Green, Irving W., assignor.)
 American Telephone and Telegraph Company. (See Grimes, David, assignor.)
 American Telephone and Telegraph Company. (See Hall, Merton C., assignor.)
 American Telephone and Telegraph Company. (See Hamilton, Baxter T., assignor.)
 American Telephone and Telegraph Company. (See Hamilton, Harold S., assignor.)
 American Telephone and Telegraph Company. (See Herman, Joseph, assignor.)
 American Telephone and Telegraph Company. (See Hildner, William H., assignor.)
 American Telephone and Telegraph Company. (See Horsford, Roger F., assignor.)
 American Telephone and Telegraph Company. (See Hunter, Howard V., assignor.)
 American Telephone and Telegraph Company. (See Ingalls, Alfred H., assignor.)
 American Telephone and Telegraph Company. (See Jacobson, Emil, assignor.)
 American Telephone and Telegraph Company. (See Johnson, H. B., and Eagon, assignors.)
 American Telephone and Telegraph Company. (See King, Mark Jr., assignor.)
 American Telephone and Telegraph Company. (See Klein, Charles H., assignor.)
 American Telephone and Telegraph Company. (See Martin, William H., assignor.)
 American Telephone and Telegraph Company. (See Matte, Andrew L., assignor.)
 American Telephone and Telegraph Company. (See Matthews, E. M., and Carr, assignors.)
 American Telephone and Telegraph Company. (See McCurdy, Ralph G., assignor.)
 American Telephone and Telegraph Company. (See McCutchen, Brunson S., assignor.)
 American Telephone and Telegraph Company. (See McKown, F. W., and Dietz, assignors.)
 American Telephone and Telegraph Company. (See Morris, Robert W., assignor.)
 American Telephone and Telegraph Company. (See Nelson, Stanley F., assignor.)
 American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
 American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)
 American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
 American Telephone and Telegraph Company. (See Parker, Ralzemond D., assignor.)
 American Telephone and Telegraph Company. (See Percival, Harry S., assignor.)
 American Telephone and Telegraph Company. (See Perry, Donald B., assignor.)
 American Telephone and Telegraph Company. (See Peterson, George H., assignor.)
 American Telephone and Telegraph Company. (See Pierce, Ralph E., assignor.)
 American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)
 American Telephone and Telegraph Company. (See Reier, George C., assignor.)
 American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)
 American Telephone and Telegraph Company. (See Rose, Arthur F., assignor.)
 American Telephone and Telegraph Company. (See St. John, Everett, assignor.)
 American Telephone and Telegraph Company. (See Shackleton, Samuel P., assignor.)
 American Telephone and Telegraph Company. (See Shackleton, S. P., and Glezen, assignors.)
 American Telephone and Telegraph Company. (See Shackleton, S. P., and Schott, assignors.)
 American Telephone and Telegraph Company. (See Shanck, Roy B., assignor.)
 American Telephone and Telegraph Company. (See Shetline, Roy A., assignor.)
 American Telephone and Telegraph Company. (See Shreeve, Herbert E., assignor.)
 American Telephone and Telegraph Company. (See Silent, Harold C., assignor.)
 American Telephone and Telegraph Company. (See Staples, Elliot M., assignor.)
 American Telephone and Telegraph Company. (See Stone, John S., assignor.)
 American Telephone and Telegraph Company. (See Strieby, Maurice E., assignor.)

- American Telephone and Telegraph Company. (See Strieby, M. E., and Fetter, assignors.)
- American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
- American Telephone and Telegraph Company. (See Thorp, Vaughn P., assignor.)
- American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
- American Telephone and Telegraph Company. (See Uff, Leslie S., assignor.)
- American Telephone and Telegraph Company. (See Verma, Gilbert S., assignor.)
- American Telephone and Telegraph Company. (See Verma, G. S., and Perry, assignors.)
- American Telephone and Telegraph Company. (See Watson, Edward F., assignor.)
- American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)
- American Telephone and Telegraph Company. (See Wilburn, Sidney D., assignor.)
- American Telephone and Telegraph Company. (See Wright, Sumner B., assignor.)
- American Telephone and Telegraph Company. (See Zinn, Muvvel K., assignor.)
- American Telephone and Telegraph Company. (See Zobel, Otto J., assignor.)
- American Textile Co. (See Ball, Ben A., assignor.)
- American Thermos Bottle Company, The. (See Payson, A. E., and Hastedit, assignors.)
- American Thread Company. (See Curry, Malcolm, assignor.)
- American Thread Company, The. (See Snyder, Rex V., assignor.)
- American Ticket Scale Company, The. (See Slezak, Vincent F., assignor.)
- American Tobacco Company, The. (See Dalton, J. T., and Corson, assignors.)
- American Tool Works Company, The. (See Robinson, Albert E., assignor.)
- American Tool Works Company, The. (See Sosa, Augustus M., assignor.)
- American Transformer Company. (See Schermerhorn, John L., assignor.)
- American Tube and Stamping Co., The. (See Keating, Daniel A., assignor.)
- American Type Founders Company. (See Plum, Stephen H., 2d, assignor.)
- American Type Founders Company. (See Plum, S. H., 2d, and Ackley, assignors.)
- American Valve and Enameling Corporation. (See Wulf, Charles A., assignor.)
- American Valve and Meter Company, The. (See Anderson, Frank C., assignor.)
- American Voith Contact Company. (See Grewin, Fredrik, assignor.)
- American Voith Contact Company. (See Priem, Paul, assignor.)
- American Warming & Ventilating Company, The. (See Albrecht, Louis C., assignor.)
- American Welding and Manufacturing Company. (See Klaus, Fred R., assignor.)
- American Window Company. (See Lewis, Claude A., assignor.)
- American Wire Cord Tire Company, The. (See Weigel, Daniel M., assignor.)
- American Wirecord Company, The. (See Frederickson, Otto A., assignor.)
- American Woodlute Corporation. (See Wood, William G., assignor.)
- American Woodworking Machinery Company. (See Perkins, Hiram A., assignor.)
- American Wringer Company. (See Keltie, George R., assignor.)
- American Writing Paper Company. (See Armstrong, James H. A., assignor.)
- American Writing Paper Company. (See Harrigan, Herman R., assignor.)
- Ames, Adelbert, Jr. (See Ames, Blanche A. and A., Jr.)
- Ames, Adelbert, Jr., Hanover, N. H. Optical aid to the visual perception of depth or rotundity. 1,630,450; July 19.
- Ames, Adelbert, Jr., Tewksbury, Mass. Photograph and making the same. 1,626,591; May 3.
- Ames, B. C., Co. (See Ames, Warren, assignor.)
- Ames, B. C., Co. (See Robbins, Chester C., assignor.)
- Ames, Blanche A., Boston, Mass., and A. Ames, Jr., Hanover, N. H. System of color standards. 1,612,791; Jan. 4.
- Ames, Butler, Lowell, Mass. Comb and making the same. 1,637,249; July 26.
- Ames, Charles F., et al. (See Frederick, Rheul H., assignor.)
- Ames, Charles F., Brooklyn, assignor of one-fifth to A. E. Berchem and one-fifth to H. S. Schanck, New York, N. Y. Centrifugal pump. 1,623,082; Apr. 5.
- Ames, Charles F., Brooklyn, assignor of one-fifth to A. H. E. Berchem and one-fifth to H. S. Schanck, New York, N. Y. Vacuum-producing apparatus. 1,623,083; Apr. 5.
- Ames, Earl R. (See Boekenoggen, I. E., and Ames.)
- Ames, George H., Brooklyn, N. Y. Barrel closure. 1,630,510; May 31.
- Ames, Howard E. (See Weaver, J. C., and Ames.)
- Ames, James W., Montclair, N. J. Utilizing waste rubber. 1,624,913; Apr. 19.
- Ames, John G., Los Angeles, Calif. Gleareless headlight. 1,613,370; Jan. 4.
- Ames, Warren, assignor to B. C. Ames Co., Waltham, Mass. Outside cylinder gauge. 1,617,005; Feb. 8.
- Ames, Warren, assignor to B. C. Ames Co., Waltham, Mass. Caliper gauge. 1,617,284; Feb. 8.
- Amet, Edward H., Redondo Beach, Calif. Motion-picture screen. 1,631,240; June 7.
- Amet, Edward H., Redondo Beach, Calif. Motion-picture film feed. 1,631,570; June 7.
- Amicarella, Romolo. (See Fisher, W. A., and Amicarella.)
- Amies, Joseph H., Philadelphia, Pa. Hardening and toughening broken-mineral aggregates, consisting of trap rock, limestones, sandstones, and types of shale rocks. 1,645,891; Oct. 18.
- Amiesite Asphalt Company of America. (See Sadtler Samuel S., assignor.)
- Amiot, Felix, Colombes, France. Connecting member. 1,623,956; Apr. 12.
- Amis, James T., Baton Rouge, La. Automobile jack. 1,634,391; July 5.
- Amis, Leather Products Co. (See Rolfs, Robert H. and H. J., assignors.)
- Ammann, Albert H., assignor to Jostam Manufacturing Co., Chicago, Ill. Recoil pad for guns. 1,642,835; Sept. 20.
- Ammann-Haberstich, Ernst, Basel, Switzerland. Method and apparatus for manufacturing glued binding tape. 1,618,903; Feb. 22.
- Ammon, Edward R., Reading, Pa. Pattern-plating attachment for circular-knitting machines. 1,642,761; Sept. 20.
- Ammon, Fred, Waukegan, Ill. Seat adjuster. 1,640,812; Aug. 30.
- Amodio, Robert, assignor of one-half to H. C. d'Annunzio, Rochester, N. Y. Heat indicator for heated tools. 1,625,014; Apr. 19.
- Amoroso, Silvio, Boston, Mass. Foot accelerator for motor cars. 1,616,926; Feb. 1.
- Amory, William N., New York, N. Y., assignor to Arch-Cubicle Corporation. Resilient support for vehicle bodies. 1,634,895; July 5.
- Amos, Cyril F., Rochester, England. Electric timing switch. 1,644,100; Oct. 4.
- Amos, Otis, and C. A. Deal, Indianapolis, Ind. Ink-vending device. 1,615,554; Jan. 25.
- Amour Corporation of America, The. (See Harris, Arthur W., assignor.)
- Amaco Products, Inc. (See Hardy, Charles, assignor.)
- Amsler, August, assignor to Ewak A.-G., Bern, Switzerland. Collapsible container. 1,614,705; Jan. 18.
- Amsler, August, assignor to Ewak A.-G., Bern, Switzerland. Traveling crane. 1,614,709; Jan. 18.
- Amsler-Morton Company, The. (See Amsler, Walter O., assignor.)
- Amsler-Morton Company, The. (See Morton, A., assignor.)
- Amsler-Morton Company, The. (See Morton, William A., assignor.)
- Amsler, Walter O., assignor to The Amsler-Morton Company, Pittsburgh, Pa. Recuperator. 1,624,128; Apr. 12.
- Amster, Samuel, Richmond, Ky. Tobacco wax and producing the same. 1,624,155; Apr. 12.
- Amsterdam Cutlery Company. (See Wilkes, C. H., and Calhoun, assignors.)
- Amundsen, Ivar, Oslo, Norway. Refrigerating machine of the absorption type. 1,632,387; Jan. 14.
- Amundsen, Ivar, Oslo, Norway. Refrigerating plant. 1,647,208; Nov. 1.
- Amusement Engineering Corporation of California. (See Wood, E. K., and Metzger, assignors.)
- Anaconda Copper Mining Company. (See Larison, Eldon L., assignor.)
- Anacond Copper Mining Company. (See Larison, E. L., Frick, and Caro, assignors.)
- Anaconda Sales Company. (See Gills, Julius H., assignor.)
- Anaconda Sales Company. (See Robinson, Thomas, assignor.)
- Anakin, Arthur E., Long Beach, Calif., assignor, by mesne assignments, to Safeway Lock Company. Lock. 1,637,097; July 26.
- Ananson, Richard D., Stirling, N. J. Motor-vehicle fan mechanism. 1,651,356; Dec. 6.
- Anchor Cap and Closure Corporation. (See Durkee, Chauncey H., assignor.)
- Anchor Cap & Closure Corporation. (See Jaeger, Max, assignor.)
- Anchor Cap & Closure Corporation. (See Podel, Abraham, assignor.)
- Anchor Cap and Closure Corporation. (See Ramsey, George, assignor.)
- Anchor Concrete Machinery Co. (See Olsen, Eugene F., assignor.)
- Anchor Manufacturing Company. (See Katz, Frank, assignor.)
- Anchor Post Fence Company. (See Thomson, Herbert G., assignor.)
- Ander, George K., et al. (See Rystedt, Ingemar K., assignor.)
- Andersen, Andrew C., assignor to Ternested Manufacturing Company, Detroit, Mich. Window-regulator operator and clutch. 1,613,009; Jan. 4.

- Anderson, Esten, Chicago, Ill. Rafter-framing tool. 1,644,624; Oct. 4.
- Anderson, Fred C., Bayport, Minn. Window and door frame. 1,618,712; Nov. 8.
- Anderson, Fred C., and E. C. Madison, Bayport, and G. A. Chapman, Minneapolis, assignors to Andersen Lumber Company, Bayport, Minn. Casement sash frame. 1,623,772; Apr. 5.
- Anderson, Hans P. (See Pedersen, F. B., and Andersen.)
- Anderson, Johan M., assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Railway signaling system. 1,624,087; Apr. 12.
- Anderson, Johan M., assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Time switch. 1,626,262; Apr. 26.
- Anderson, Lauritz W., Waterbury, Conn. Detachable collar for shades. 1,615,531; Jan. 25.
- Anderson, Lauritz W., Waterbury, Conn. Shade holder. 1,631,613; June 7.
- Anderson Lumber Company. (See Andersen, F. C., Madison, and Chapman, assignors.)
- Anderson, Niels C., assignor to The Goss Printing Press Company, Chicago, Ill. Cylinder for printing presses. 1,626,592; May 3.
- Anderson, Niels K. (See Harvey, A. L., and Andersen.)
- Andersh, Charles, Wagner, S. Dak. Musical instrument. 1,648,713; Nov. 8.
- Anderson, Albert F., Pasadena, Calif. Brake-equalizing mechanism. 1,629,647; May 24.
- Anderson, Albert & J. M., Manufacturing Company. (See Anderson, Johan M., assignor.)
- Anderson, Alexander C. (See Kennedy, D., and Anderson.)
- Anderson, Alfred, Dunedin, Fla. Pulley wheel. 1,638,720; Aug. 9.
- Anderson, Alfred B., New Haven, Conn. Ventilator and the like. 1,644,701; Oct. 11.
- Anderson, Arthur G., Wollaston, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,625,406; Apr. 19.
- Anderson, Andrew G., Wollaston, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,651,337; Nov. 29.
- Anderson, Andrew G., Wollaston, Mass., assignor, by mesne assignments, to The Basic Manufacturing Company, Chicago, Ill. Lubricant-receiving nipple and cap therefor. 1,644,220; Oct. 4.
- Anderson, Andrew P., Grand Rapids, Minn. Antislip attachment for footwear. 1,615,498; Jan. 25.
- Anderson, Arvid E., assignor, by mesne assignments, to Airubber Corporation, Chicago, Ill. Heat retaining garment. 1,623,993; Apr. 9.
- Anderson, Arvid E., assignor to Airubber Corporation, Chicago, Ill. Flexible hollow article and making the same. 1,625,582; Apr. 19.
- Anderson, Arvid E., Schenectady, N. Y., assignor to General Electric Company, Automatic reclosing circuit-breaker system. 1,626,495; Apr. 26.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company, Automatic reclosing circuit-breaker system. 1,641,724; Sept. 6.
- Anderson, August P., Toledo, Ohio. Automatic fluid-controlling device. 1,625,185; Apr. 19.
- Anderson, August P., Toledo, Ohio. Refrigerating apparatus. 1,644,165; Oct. 4.
- Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
- Anderson, Carl. (See Blume, E. E., and Anderson.)
- Anderson, Carl E., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. 1,627,304; May 3.
- Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Button loop. 1,628,638; May 17.
- Anderson, Carl J., Chicago, Ill. Lock for elevator doors. 1,615,607; Jan. 25.
- Anderson, Carl L., et al. (See Swenson, Carl E., assignor.)
- Anderson, Carl M., assignor of one-half to M. Chonick, Baltimore, Md. Cooling system for motor vehicles. 1,623,902; Apr. 5.
- Elizabeth, Carl T., Elizabeth, N. J. Faucet. 1,650,589; Nov. 29.
- Anderson, Charles E., Sioux Falls, S. Dak. Smoker's tray. 1,637,978; Aug. 2.
- Anderson, Charles L., Reno, Nev. Aviation. 1,639,833; Aug. 23.
- Anderson, Charles M., Salt Lake City, Utah. Flow meter. 1,625,583; Apr. 19.
- Anderson, Charles O., Omaha, Nebr. Load-adjusted brake mechanism. 1,627,305; May 3.
- Anderson, Charles R., Dallas, Tex. Bushing-removing tool. 1,649,437; Nov. 15.
- Anderson, Charles W., Milan, Ohio. Drain trap. 1,634,530; July 5.
- Anderson, Charles W., Milan, Ohio. Steering range for automobile. 1,651,174; Nov. 29.
- Anderson, Clarence G., Ottumwa, Iowa. Comb. 1,642,916; Sept. 20.
- Anderson, Clarence M. S., et al. (See Gerau, George B., assignor.)
- Anderson, Claude M., Guys Hill, Jamaica, British West Indies. Lantern. 1,632,577; June 14.
- Anderson, Daniel G., Los Angeles, Calif. Extension leaf for tables. 1,641,518; Sept. 6.
- Anderson, David B., assignor to General Motors Corporation, Detroit, Mich. Vehicle having four-wheel brakes. 1,634,131; June 23.
- Anderson, David B., assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,644,702; Oct. 11.
- Anderson, David L., assignor to Intertype Corporation, Brooklyn, N. Y. Assembling elevator gate for typographical machines. 1,619,646; Mar. 1.
- Anderson, David W., Scottsville, Va. Flashing brick or block. 1,617,141; Feb. 8.
- Anderson, Edgar, Wakefield, Nebr. Vehicle signal. 1,632,680; June 14.
- Anderson, Edgar W., assignor to Invincible Metal Furniture Company, Manitowoc, Wis. Safe deposit vault. 1,624,305; Apr. 12.
- Anderson, Edward, assignor to The A. A. Simonds-Dayton Company, Dayton, Ohio. Bond for elastic grinding wheels and applying the same. 1,631,113; June 7.
- Anderson, Edward, and R. W. Adams, Minneapolis, Minn. Vegetable and soap slicing machine. 1,619,557; Mar. 1.
- Anderson, Edward V., Belle Vernon, assignor of one-half to C. B. Golden, Gratton, Pa. Automatic control valve. 1,627,628; May 10.
- Anderson, Emil F., assignor to International Harvester Company, Chicago, Ill. Straw spreader. 1,639,447; Aug. 16.
- Anderson, Emma C., Spokane, Wash. Dressing carrier. 1,614,585; Jan. 18.
- Anderson, Eric W., Chicago, Ill. Hydraulic jack. 1,644,101; Oct. 4.
- Ahlstrom, Ernest D., New York, and C. Beckmann, deceased; F. V. Kelly administrator, Brooklyn, N. Y. Machine for separating articles. 1,614,586; Jan. 18.
- Anderson, Ernst G. K., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill. Rewinding reel. 1,626,376; Apr. 26.
- Anderson, Ernst G. K., Chicago, Ill., assignor to Appleton Electric Company, Controlling switch for spotlights and the like. 1,632,754; June 14.
- Anderson, Ernst G. K., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill. Electric switch. 1,642,528; Sept. 13.
- Anderson, Evald, Alhambra, assignor to International Precipitation Company, Los Angeles, Calif. Gas scrubber. 1,632,325; June 14.
- Anderson, Evald, Alhambra, assignor to International Precipitation Company, Los Angeles, Calif. Method and apparatus for supplying fibrous material in aligned condition. 1,636,977; July 26.
- Anderson, Evald, Alhambra, assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical separation of suspended particles from gases. 1,650,105; Nov. 22.
- Anderson, Florence, Chandler, Minn. Stove attachment. 1,650,859; Nov. 29.
- Anderson, Frank C., assignor to The American Valve and Meter Company, Cincinnati, Ohio. Switch-interlocking device. 1,622,019; Mar. 22.
- Anderson, Frank O. (See Atkins, D., jr., and Anderson, and Lindsey.)
- Anderson, Fred, Minden, Nebr. Sanitary adjustable milk stool. 1,613,779; Jan. 11.
- Anderson, Frederick V., assignor to The V. D. Anderson Company, Cleveland, Ohio. Press or expeller. 1,640,342; Aug. 30.
- Anderson, Fritz A., assignor, by mesne assignments, to The Burdick Corporation, Milton, Wis. Electric lamp. 1,651,175; Nov. 29.
- Anderson, George. (See Pierce, R. H., and Anderson.)
- Anderson, George M., Washington, D. C., assignor to The Shredded Wheat Company, Marking shredded-wheat biscuit. 1,621,863; Mar. 22.
- Anderson, George M., Washington, D. C., and S. Hilder, Glen Carlyn, Va., assignors to The Shredded Wheat Company, Niagara Falls, N. Y. Packing biscuit. 1,618,503; Feb. 22.
- Anderson, George P. (See Clark, O. A., and Anderson.)
- Anderson, George R., Rockford, Ill. Radio device. 1,642,290; Sept. 27.
- Anderson, Gordon W. (See Condit, T. M., and Anderson.)
- Anderson, Graig W., Columbus, Ohio. Hair curler and waver. 1,631,781; June 7.
- Anderson, Grenville T., Flushing, N. Y., and C. V. Tappin, East Orange, N. J., assignors to American Telephone and Telegraph Company, Testing device. 1,612,849; Jan. 4.
- Anderson, Gustaf A., Baltimore, Md., assignor, by mesne assignments, to The Symington Company, Truck side frame. 1,619,688; Mar. 1.
- Anderson, Gustaf A., Baltimore, Md., assignor, by mesne assignments, to The Symington Company, Truck side frame. 1,623,936; Apr. 5.
- Anderson, Gustaf A., Baltimore, Md., assignor, by mesne assignments, to The Symington Company, Car-truck side frame. 1,623,037; Apr. 5.
- Anderson, Gustaf A., Baltimore, Md., assignor, by mesne assignments, to The Symington Company, Truck side frame. 1,623,570; Apr. 5.

- Anderson, Gustaf A., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Car truck. 1,628,298; May 10.
- Anderson, Gustaf B., Minneapolis, Minn. Power-propelled runner, attachment for motor vehicles. 1,631,114; June 7.
- Anderson, Gustav B., East Elmhurst, New York, N. Y. Antiskid device. 1,615,164; Jan. 18.
- Anderson, Halvor E., Kenosha, Wis. Doorcheck. 1,621,305; Mar. 15.
- Anderson, Harold C., Miami, Fla. Wrench. 1,618,904; June 22.
- Anderson, Harold N., Cleveland, Ohio. Toothed gear. 1,619,963; Mar. 8.
- Anderson, Harry F., Marion, Ind., assignor of one-half to J. Boyce, Laketon, Mich. Sign. 1,616,163; Feb. 1.
- Anderson, Harry S., Los Angeles, Calif. Steam generator. 1,634,604; July 5.
- Anderson, Harry T. (See Hansson, Soren, assignor.)
- Anderson, Harry T., Butler, Pa. Connecting bar and making the same. 1,615,821; Feb. 1.
- Anderson, Harry T., Butler, Pa. Railway car. 1,634,008; June 28.
- Anderson, Harry T. Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Car-door-operating mechanism. 1,616,434; Feb. 8.
- Anderson, Hilder A., assignor to Mahr Manufacturing Company, Minneapolis, Minn. Preheating torch. 1,614,640; Jan. 18.
- Anderson, Hiram C., New York, N. Y. Tire protector. 1,630,948; July 26.
- Anderson, Hiram C., New York, N. Y. Punctureproof pneumatic tires. 1,636,978; July 26.
- Anderson, Hiram C., New York, N. Y. Resilient wheel. 1,650,885; Nov. 29.
- Anderson, Homer G., East Orange, N. J., assignor to Westinghouse Lamp Company. Manufacture of incandescent lamps. 1,626,656; May 8.
- Anderson, Horace C., Amarillo, Tex. Gas-outlet fixture. 1,631,953; June 14.
- Anderson, Irving S., Franklin, Minn. Aerator and cooler for cream separators. 1,635,877; July 12.
- Anderson, Ivar A., Chicago, Ill. Porch-rail fastener. 1,644,768; Oct. 11.
- Anderson, Iver A. P., Bridgeport, Conn. Laying-out fixture and drilling jig. 1,615,668; Jan. 25.
- Anderson, J. Alfred. (See Martikainen, Janne, assignor.)
- Anderson, James B., and J. B. Garner, assignors to Peoples Natural Gas Company, Pittsburgh, Pa. Burner for heating apparatus. 1,642,762; Sept. 20.
- Anderson, James C., Washington, D. C. Furnace. 1,650,886; Nov. 29.
- Anderson, James E., Moline, Iowa. Knockdown self feeder. 1,653,976; Dec. 27.
- Anderson, James H. (See Ferguson, J. J., Maguire, Ferguson, Anderson, and McGuire.)
- Anderson, James S. (See Karpinsky, S., and Anderson.)
- Anderson, James W., and W. B. Rice, New York, N. Y., assignor, by mesne assignments, to Vortex Mfg. Co., Chicago, Ill. Cup dispenser. 1,621,098; Mar. 15.
- Anderson, Johan A., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Cop holder for textile machines. 1,635,525; July 12.
- Anderson, John, Karlstad, Minn. Power plant. 1,648,837; Nov. 8.
- Anderson, John A. (See Hobbs, W. F., and Anderson.)
- Anderson, John A., assignor to B. S. Gray, trustee, Geneseo, Ill. Automatic take-up bearing. 1,642,476; Sept. 6.
- Anderson, John A., assignor to B. S. Gray, trustee, Geneseo, Ill. Automatic take-up bolt. 1,651,240; Nov. 29.
- Anderson, John C. A., Wilmette, assignor to Reliance Elevator Co., Chicago, Ill. Elevator-control system. 1,626,377; Apr. 26.
- Anderson, John E. (See Hartmann, Carl, assignor.)
- Anderson, John F., Oakland, Calif. Can exhaustor. 1,641,367; Sept. 6.
- Anderson, John N. (See Colby, Lawrence W., assignor.)
- Anderson, John N., Methuen, Mass. Making bobbins. 1,630,819; May 31.
- Anderson, John N., Hoboken, N. J., assignor to Otis Elevator Company, New York, N. Y. Brake. 1,640,972; Aug. 30.
- Anderson, John R., Moline, Ill. Spine stretcher. 1,614,641; Jan. 18.
- Anderson, John R., Moline, Ill. Amusement device. 1,619,325; Mar. 1.
- Anderson, John W. (See Smulski, Theodore J., assignor.)
- Anderson, John W., Hamilton, Ontario, Canada. Refrigerating device. 1,627,629; May 10.
- Anderson, Joseph F., Kansas City, Kans. Lubricating oil. 1,619,964; Mar. 8.
- Anderson, Lawrence, Anderson, Ind. Electric headlight control. 1,654,067; Dec. 27.
- Anderson, Lorin R., Brooklyn, N. Y. Advertising sign. 1,631,782; June 7.
- Anderson Manufacturing Company. (See Paul, Howard C., assignor.)
- Anderson, Martin E., assignor to The Clymer Manufacturing Company, Denver, Colo. Spotlight. 1,612,960; Jan. 4.
- Anderson, Mervyn F., and T. F. Clark, Hoboken, N. J. Brake. 1,625,684; Apr. 19.
- Anderson, Mildred N., Santa Cruz, Calif. Holder for thread, cord, tape, etc. 1,648,437; Nov. 8.
- Anderson, Newton M., Bedford, Ind. Mixing machine. 1,621,345; Mar. 15.
- Anderson, Nils A., Brooklyn, N. Y. Wrench. 1,645,570; Oct. 18.
- Anderson, Noah D., Brainerd, Minn. Razor. 1,632,778; June 21.
- Anderson, Oscar, Crosby, Minn. Folding chair. 1,642,477; Sept. 13.
- Anderson, Oscar O., Sioux Rapids, Iowa. Float valve. 1,622,374; Apr. 5.
- Anderson-Pitt Corporation, The. (See Pitt, Frederick D., assignor.)
- Anderson-Pitt Corporation, The. (See Pitt, F. D., and Osterloo, assignors.)
- Anderson, R. C., and Sons Limited. (See Young, Edward T., assignor.)
- Anderson, R. C. (See Fontaine, Robert A., assignor.)
- Anderson, Ralph H., Spokane, Wash. Football-game apparatus. 1,648,601; Nov. 8.
- Anderson, Raymond M., and S. M. Udale, assignors to G. M. Holley, Detroit, Mich. Vaporizer. 1,635,808; July 12.
- Anderson, Raymond W., Maplewood, N. J. Apparatus for directing the sighting of guns. 1,624,523; Apr. 12.
- Anderson, Robert D., Shreveport, La. Exhaust fan or blower. 1,623,650; Apr. 5.
- Anderson, Roy F., assignor to Hayes-Ionia Company, Grand Rapids, Mich. Automobile supply. 1,644,602; Oct. 11.
- Anderson, Rufus L., Orlando, Fla. Headlight-deflecting attachment. 1,633,509; June 21.
- Anderson, Russell G., Lackewood, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Hob for worm gears. 1,648,470; Nov. 8.
- Anderson, Russell W., Detroit, Mich. Advertising stand. 1,635,394; July 12.
- Anderson, Samuel R., St. Louis, Mo. Aircraft. 1,647,978; Nov. 8.
- Anderson, Sidney A. (See Marsh, A., and Anderson.)
- Anderson, Sidney E., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electromagnetic coupling device. 1,616,102; Feb. 1.
- Anderson, Sievert T., Chicago, Ill. Tent-pole socket. 1,622,273; Mar. 29.
- Anderson, Sigurd E., assignor to New Monarch Machine & Stamping Company, Des Moines, Iowa. Loader attachment for tractors. 1,619,766; Mar. 1.
- Anderson, Sven V., Philadelphia, Pa. Advertising novelty. 1,622,020; Mar. 22.
- Anderson, Thomas F. (See Carpenter, R. F., and Anderson.)
- Anderson, Thomas F., assignor to The R. F. Carpenter Manufacturing Company, Cleveland, Ohio. Sectional paragon. 1,649,886; Nov. 22.
- Anderson, Thomas H., assignor to M. E. Bernhardt, New York, N. Y. Cigar cutter. 1,628,570; May 10.
- Anderson, V. D., Company, The. (See Anderson, Frederick V., assignor.)
- Anderson, Victor T., assignor of one-fourth to H. H. Deppa, assignor, by mesne assignments, to Little Bear Specialties Company, Kansas City, Mo. Hatrack. 1,649,207; Nov. 15.
- Anderson, Waldemar E., Montclair, N. J., assignor to Westinghouse Lamp Company. Theftproof lamp. 1,651,357; Dec. 6.
- Anderson, Walter S., assignor to E. Holley, Detroit, Mich. Vent plug for permanent molds. 1,627,879; May 10.
- Anderson, William. (See McLaughlin, P. T., and Anderson.)
- Anderson, William, Hebburn-on-Tyne, and H. W. Clothier, Wallaseid-on-Tyne, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Metal-clad electric switch gear of the draw-out type. 1,620,792; Mar. 15.
- Anderson, William A., Kanorado, Kans. Device for expanding wheel rims. 1,632,263; June 14.
- Anderson, William A., Huntington Park, assignors to The Technical Glass Company, Incorporated, Los Angeles, Calif. Furniture knob. 1,639,159; Aug. 16.
- Anderson, William C., Bark River, Mich. Traction-wheel clasp. 1,631,731; July 26.
- Anderson, William J., Brooklyn, N. Y. Automatic operating device for steam-jet pumps or the like. 1,645,639; Oct. 18.
- Anderson, William M., Minneapolis, Minn. Self-adjusting valve-actuating rod for internal-combustion engines. 1,641,815; Jan. 11.
- Anderson, William T., Tulsa, Okla. Nutcracker. 1,650,681; Nov. 29.
- Anderson, Axel H., assignor to Baker-Vawter Company, Benton Harbor, Mich. Piling case. 1,621,304; Mar. 15.
- Anderson, Lars J., Halmstad, Sweden. Belt fastener. 1,624,933; May 24.
- Anderson, Nils F. F. (See Ljungström, F., and Anderson.)
- Andrade, Cipriano, jr., New York, N. Y. Differential. 1,626,907; May 3.
- Andrade, Cipriano, jr., New York, N. Y. Control element for clutches. 1,635,599; July 12.
- Andrade, Cipriano, jr., New York, N. Y. Roller clutch. 1,639,974; Aug. 23.

- Andre, Karl R., Lynwood, Calif. Rotary casing swage. 1,641,519; Sept. 8.
- Andrea, F. A. D., Inc. (See Klein, Richard M., assignor.)
- Andrekovics, Andras. (See Guba, John, assignor.)
- Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Attaching spring hanger to the side bars of automobile frames. 1,643,232; Sept. 20.
- Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Torsion-resisting crossbar for automobile frames. 1,654,107; Dec. 27.
- Andreoli, Henry P., Long Beach, N. Y. Transformer. 1,631,393; June 7.
- Andres, William J., South Bend, Ind. Brake-operating connection. 1,645,846; Oct. 18.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,625,444; Apr. 19.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,634,260; July 5.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,640,589; Aug. 30.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,654,557; Dec. 27.
- Andresen, Halvor, et al. (See Andresen, Halvor, assignor.)
- Andresen, Halvor, New York, N. Y., assignor, by mesne assignments, to said H. Andresen, Christiania, Norway, and O. O. Howard, Rockport, Mass. Internal-combustion engine. 1,654,156; Dec. 27.
- Andresen, Herman P., Chicago, Ill. Combination heater and maintenance apparatus. 1,613,738; Jan. 11.
- Andresen, Julius C., and H. F. Marten, assignors to California Barrel Company, San Francisco, Calif. Attaching device for receptacle balls. 1,639,975; Aug. 23.
- Andresen, Otto, Vindern, near Oslo, Norway. Magazine grinder. 1,647,682; Nov. 1.
- Andresen, Cyrus N., Yucaipa, Calif. Metrical optic and acoustic recording and reproduction. 1,631,450; June 7.
- Andrew, Frank C., London, England. Apparatus for fumigating, deodorizing, and the like treatment of air. 1,614,817; Jan. 18.
- Andrew, Frederick W., Andalusia, Pa., and M. Tibbetts, Detroit, Mich., assignors to Packard Motor Car Company, Detroit, Mich. Lock mechanism. 1,628,065; Apr. 26.
- Andrew, Harold, Princeton, Ill. Device for detecting and measuring the unevenness of a surface. 1,633,841; June 28.
- Andrew, Howard E., Vancouver, Wash. Automobile lock. 1,623,455; Apr. 5.
- Andrew, Nicholas P., Finsbury, England. Machine for scoring, cutting, or otherwise treating cardboard or the like. 1,616,565; Feb. 8.
- Andrews, Aden W., Lincoln, Neb. Fencepost and brace means therefor. 1,638,645; May 17.
- Andrews, Albert, Spearfish, S. Dak. Ventilator. 1,650,586; Nov. 20.
- Andrews, Arthur G., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Dish drier. 1,646,179; Oct. 18.
- Andrews, Benjamin, Houston, Tex. Sulphur mining. 1,648,210; Nov. 8.
- Andrews, Charles, Jr., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Beater. 1,617,787; Feb. 15.
- Andrews, Charles B., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Inner disk for disk crusher. 1,624,032; Apr. 12.
- Andrews, Chauncey C., administrator. (See Andrews, MacMundy.)
- Andrews, Chester E. (See Canon, F. A., and Andrews.)
- Andrews, Chrissy, New York, N. Y. Ornamentations. 1,638,311; Aug. 9.
- Andrews, Edward E., assignor to Andrews-Hammond Corporation, Chicago, Ill. Electrode for rectifiers and electrolytic condensers. 1,637,795; Aug. 2.
- Andrews, George G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Heel-washer-stacking machine. 1,622,243; Mar. 22.
- Andrews-Hammond Corporation. (See Andrews, Edward E., assignor.)
- Andrews, Harry D., Cincinnati, Ohio. Display device. 1,630,917; May 31.
- Andrews, Isaac, Spartanburg, S. C. Loom harness support. 1,637,796; Aug. 2.
- Andrews, Isaac, Spartanburg, S. C. Loom harness. 1,645,571; Oct. 18.
- Andrews, Isaac, Spartanburg, S. C. Loom harness. 1,645,572; Oct. 18.
- Andrews, Jarvis M. (See Troland, L. T., and Andrews.)
- Andrews, Jarvis M., Wollaston, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Etching apparatus for cinematographic films. 1,613,303; Jan. 4.
- Andrews, John S., Los Angeles, Calif. Wall furnace. 1,616,657; June 14.
- Andrews, L. V., assignor to Riley Stoker Corporation, Worcester, Mass. Pulverizing apparatus. 1,646,720; Oct. 25.
- Andrews Lead Company. (See Rohmer, Gabriel E., assignor.)
- Andrews, Linwood M., Chicago, Ill. Stand mirror. Des. 72,748; May 31.
- Andrews, Louis A. (See Abbadessa, Vincenzo, assignor.)
- Andrews, MacMundy, deceased, Morley, Mich.; C. C. Andrews administrator. Sputum-cup holder. 1,647,427; Nov. 1.
- Andrews, Nathaniel R., Yonkers, and J. J. Neuman, New York, N. Y. Centrifugal extractor-operating plant. 1,615,433; Jan. 25.
- Andrews, Thaddeus H., Casper, Wyo. Automatic drain for water-cooled engines. 1,649,277; Nov. 15.
- Andrews, Walter S., Eustis, Neb., assignor of one-half to C. N. Johnston, Curtis, Neb., and one-fourth to C. N. Johnston, Taft, Calif. Railway mower. 1,629,984; May 24.
- Andrich, Kurt, Frankfurt-on-the-Main, Germany, assignor to Roessler & Hasselacher Chemical Company, New York, N. Y. Preparation of alkali-metal cyanide solutions. 1,615,208; Jan. 25.
- Andrus, George W., Aberdeen, Wash. Bombing gun for aircraft. 1,636,451; July 19.
- Andruszkiewicz, Leon, Thorp, Wis. Device to hold cows' tails. 1,648,159; Nov. 8.
- Angfenger, Maximilian B., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Storage system for and storing and reclaiming from storage a liquid. 1,626,066; Apr. 26.
- Angel, Dennis N., North St. Paul, Minn. Ashlar-setting clamp. 1,621,650; Mar. 22.
- Angel, Harry, Los Angeles, Calif. Column parlor-floor lamp. 1,629,946; May 24.
- Angel, Herbert, Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Receiving perforator. 1,629,469; May 24.
- Angel International Corporation. (See Reilly, Rodolphe R., assignor.)
- Angeletti, Joseph M., New York, N. Y. Refillable pencil. 1,614,860; Jan. 18.
- Angeletti, Joseph M., New York, N. Y. Self-adjusting drawing instrument. 1,644,221; Oct. 4.
- Angelilli, Quirino, New York, N. Y. Bricklayer's guide. 1,643,915; Sept. 27.
- Angelillo, Fedele, New York, N. Y. Lock. 1,646,674; Oct. 25.
- Angelini, Luigi, Rome, Italy. Carburetor. 1,652,228; Dec. 13.
- Angelini, Oreste, Rome, Italy. Arrangement for hydraulic internal reaction propulsion. 1,631,783; June 7.
- Angell, Charles J., Plains, Kans. One-way disk plow. 1,615,499; Jan. 25.
- Angell, Chester M., assignor to Vesta Battery Corporation, Chicago, Ill. Manufacturing storage batteries. 1,622,204; Oct. 29.
- Angell, Chester M., assignor to Vesta Battery Corporation, Chicago, Ill. Battery-plate-filling machine. 1,627,763; May 10.
- Angell, Chester M., assignor to Vesta Battery Corporation, Chicago, Ill. Battery-plate-pasting machine. 1,627,764; May 10.
- Angell, Chester M., assignor to Vesta Battery Corporation, Chicago, Ill. Battery-plate filling machine. 1,644,659; Oct. 11.
- Angell, Earl B., Troy, Mont. Memorandum device. 1,637,672; Aug. 2.
- Angell, Fred P., Huntington Park, Calif. Door-operating means. 1,631,907; June 7.
- Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, Base assembly for dental equipment stand. Des. 72,785; June 7.
- Angelo, Stefani, Starkville, Colo. Direction indicator for automobiles. 1,641,950; Sept. 13.
- Angerer, Victor, Ridley Park, assignor to William Wharton jr. & Company, Incorporated, Easton, Pa. Track structure. 1,629,372; May 17.
- Angers, Charles S., Milwaukee, Wis., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,642,712; Sept. 20.
- Angert Brothers. (See Angert, George H., assignor.)
- Angert, George H., assignor to Angert Brothers, Cincinnati, Ohio. Table. 1,647,105; Oct. 25.
- Angier, Edward H. (See Wheldon, William M., assignor.)
- Angier, Edward H., Framingham, Mass. Packaging toric articles. 1,640,021; Aug. 23.
- Angier, Edward H., Framingham, Mass. Packaging toric articles. 1,640,022; Aug. 23.
- Angier, Edward H., Framingham, Mass. Crinkling paper. 1,643,147; Sept. 20.
- Anglada, Domingo, New York, assignor to Wolf Safety Lamp Co. of America, Inc., Brooklyn, N. Y. Illuminating and signal lamp. 1,617,432; Feb. 15.
- Angida, Joseph A., Jenkintown, Pa., assignor, by mesne assignments, to Arch Cushion Corporation. Shock-absorbing device. 1,643,597; Sept. 27.
- Angle, Edward H., Pasadena, Calif. Orthodontic appliance. 1,622,856; Mar. 29.
- Angle, Glenn D., Dayton, Ohio. Crank-case construction. 1,619,422; Mar. 1.
- Angle, Glenn D., Dayton, Ohio. Intake-manifold arrangement for W-type internal-combustion engines. 1,622,172; Mar. 22.
- Angle, Glenn D., Dayton, Ohio. Engine-cylinder valve port and stem-guide structure. 1,635,023; July 5.
- Angle, Glenn D., Detroit, Mich. Articulated connecting rod. 1,637,979; Aug. 2.

- Angle, Glenn D., Detroit, Mich. Cam-shaft and accessory drive for engines. 1,653,689; Dec. 27.
- Angle, Glenn D., Detroit, Mich., and H. E. Morehouse, Dayton, Ohio. Valve-port arrangement for internal-combustion engines. 1,634,971; July 5.
- Anglemyer, Carl M., Dayton, and W. P. Coffman, Dunkirk, assignors to The Edgemont Machine Company, Dayton, Ohio. Clutch. 1,627,006; May 3.
- Anglo-American Mill Company, Inc. (See Taylor, John E., assignor.)
- Anglo-California Trust Company, trustee. (See Miner, Claude G., assignor.)
- Anglo Shan Corporation Ltd. (See Ratignier, Marius, assignor.)
- Angrove, Samuel, Providence, R. I. Valve lifter. 1,616,492; Feb. 8.
- Angus, Arthur R., Westminster, London, England. Control of trains. 1,624,524; Apr. 12.
- Angus, Arthur R., Westminster, London, England. Control of trains. 1,630,511; May 31.
- Angus, Donald J., Indianapolis, Ind., assignor to Westinghouse Electric & Manufacturing Company. Vector-sum volt-ampere meter. 1,647,332; Nov. 1.
- Angyal, Arpad, Balham, London, England. Playing percussion musical instruments. 1,621,449; Mar. 15.
- Anlia, Anthony E., Corona, N. Y. Water heater. 1,643,533; Sept. 27.
- Anibal, Benjamin H., Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich. Distributor mounting. 1,631,185; June 7.
- Animated Picture Products Co. (See Schwartz, Isidore, assignor.)
- Aninger, Friedrich, Markt Trierendorf, Czechoslovakia. Shuttle-changing device for looms. 1,630,918; May 31.
- Ankario, Victor E., Duluth, Minn., assignor of five per cent to T. J. Saeed, Superior, Wis., five per cent to J. O. Bodin, Duluth, Minn., and five per cent to G. M. Schucht, Milwaukee, Wis. Connecting-rod bearing. 1,644,974; Oct. 11.
- Ankele, Moritz A., Danville, Ill. Rail-clamp signal. 1,639,877; Aug. 23.
- Ankeny, Arthur W., Indiana, Pa. Mechanically-operated figure toy. 1,631,451; June 7.
- Anker-Holth, Severin C., Los Angeles, Calif. Fish-cleaning machine. 1,614,587; Jan. 18.
- Anker-Holth, Severin C., Los Angeles, Calif. Fish-positioning machine. 1,614,588; Jan. 18.
- Anker-Werke Aktiengesellschaft. (See Hennig, Albert, assignor.)
- Anlauf, Herman, and T. J. Warhurst, San Antonio, Tex. Coupling. 1,622,216; Mar. 22.
- Anliker, Ferdinand, Sharon, Pa., and R. J. Wittmer, Cleveland Heights, Ohio, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,647,498; Nov. 1.
- Annen, James E., assignor to The National Paper Can Company, Milwaukee, Wis. Making paper containers. 1,636,584; July 19.
- Annis, James B., Kansas City, Mo. Device for measuring the lubricating value of oil. 1,622,481; Mar. 29.
- "Ansaldo" Societa Anonima. (See Soliani, Nabor, assignor.)
- Anschutz, Edward C., assignor of one-half to F. S. and J. M. Glaser, Cleveland, Ohio. Box-clamping device. 1,642,665; Sept. 20.
- Ansoco Photoproducts, Inc. (See Bornmann, Carl, assignor.)
- Ansoco Photoproducts, Inc. (See Lessler, Lew W., assignor.)
- Ansoco Photoproducts, Inc. (See Lessler, L. W., and Bornmann, assignors.)
- Ansoco Photoproducts, Inc. (See Slocum, Benjamin A., assignor.)
- Ansel, Harry R. (See Bloss, R. R., Strout, and Ansel.)
- Anselgh, Herman K. (See Randall, K. C., and Anselgh.)
- Anselgh, Herman K., Toronto, Ontario, Canada, assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,617,363; Feb. 15.
- Anselgh, Herman K., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical switch. 1,623,954; Apr. 12.
- Anselgh, Herman K., Toronto, Ontario, Canada, assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,623,955; Apr. 12.
- Anson, Edward E., Clarksville, Ohio. Gate. 1,635,878; July 12.
- Anson, Ruben, assignor of one-half to W. A. Femmer, Bruxton, Mo. Church contribution chest. Des. 73,248; Apr. 16.
- Ansonia Novelty Company, The. (See Meserole, Milton D., assignor.)
- Ansonia O & C Company, The. (See Clausa, George E., assignor.)
- Ansorre, Percy L., Brooklyn, N. Y. Lighting-fixture bracket. Des. 71,819; Nov. 11.
- Ansties, George P., Oak Park, assignor to G. S. Blakeslee & Co., Cicero, Ill. Dishwashing machine. 1,639,834; Aug. 23.
- Anstotz, Charles, and W. Saupe, New York, N. Y., assignors to Ohmer Fare Register Company, Dayton, Ohio. Driving means for taximeters. 1,635,698; July 12.
- Antaramian, Astor M., Kenosha, Wis. Detachable sole and heel for the use on shoes. 1,651,445; Dec. 27.
- Antonisen, George B., Minneapolis, Minn. Rail or rolled member. 1,613,498; Jan. 4.
- Anthony, Charles A., assignor to Metal Package Corporation of New York, New York, N. Y. Nozzle and cap therefor. 1,622,274; Mar. 29.
- Anthony Company. (See Anthony, Mark, assignor.)
- Anthony Company. (See Anthony, W. C. and Mackintosh, assignors.)
- Anthony Company. (See Benedict, Charles H., assignor.)
- Anthony, Daniel L., assignor of one-half to H. E. Cottman and one-half to E. P. Morgan, El Paso, Tex. Braider attachment for sewing machines. 1,622,171; Mar. 22.
- Anthony, David S., San Antonio, Tex. Flour mill. 1,645,847; Oct. 18.
- Anthony, Eugene, King County, Wash. Combined electric plug and controller. 1,613,261; Jan. 4.
- Anthony, John E., and D. B. Baker, assignors to International Harvester Company, Chicago, Ill. Steering mechanism for tractors. 1,613,865; Jan. 11.
- Anthony, Marcus O., New York, N. Y., assignor to Continental Engineering Corporation, Omaha, Neb. Valve-rotating mechanism. 1,626,067; Apr. 26.
- Anthony, Mark, Clermont, Fla., assignor to Anthony Company, Streator, Ill. Crank. 1,629,469; May 24.
- Anthony, Stanley, Boston, Mass. Stamping machine. 1,649,488; Nov. 15.
- Anthony, William C., and W. B. Mackintosh, assignors to Anthony Company, Streator, Ill. Steering gear. 1,630,046; May 24.
- Anthouls, George D. (See Deliganes, T. N., and Bourdes, assignors.)
- Antracite Separator Company. (See Pardee, Frank, assignor.)
- Antell, Alfred B., New York, N. Y. Valve. 1,647,823; Nov. 1.
- Antoine, Alfred D., Chicago, and A. E. Gebert, Wilmette, assignors to Advance Machine Company, Chicago, Ill. Vending machine. 1,627,547; May 10.
- Antoine, Victor, Lambermont, near Ensisval, Belgium. Eliminating water from the pulp on the wire of paper-making machines. 1,638,975; Aug. 16.
- Anton, Frederick A., Topeka, Kans. Sanitary freezer container. 1,647,169; Nov. 1.
- Antonich, Frederick A., Brooklyn, N. Y. Boat-launching device. 1,626,714; May 3.
- Antonelli, Orazio, Brooklyn, N. Y., assignor, by mesne assignments, to Recreator Photograph Corporation, Boston, Mass. Projecting machine. 1,627,154; May 3.
- Antonetti, Joseph E. (See Underwood, Jesse J., assignor.)
- Antonio, Ramon G., Manila, P. I. Clip and pencil for fountain pens. 1,630,413; May 31.
- Antoonian, Eunice M., Boston, Mass. Garment. 1,624,570; Apr. 12.
- Antoonian, Eunice M., Brooklyn, N. Y. Air supply for tumblers. 1,624,650; Apr. 12.
- Antrobus, Mary, London, England. Seat. Des. 72,126; Mar. 8.
- Antrobus, Mary, London, England. Bedstead. Des. 72,127; Mar. 8.
- Antrobus, Mary, London, England. Table. Des. 72,128; Mar. 8.
- Antrobus, Mary, London, England. Chair. Des. 72,464; Apr. 19.
- Antrobus, Mary, London, England. Sideboard. Des. 72,465; Apr. 19.
- Antunes, Alberto, assignor to V. Gonsalves, Boston, Mass. Combined engine stop motion, visual alarm, and condenser for motor-driven vehicles. 1,633,156; June 21.
- Anzelewitz, Abraham, New York, N. Y. Hand device for cutting and polishing diamonds. 1,636,671; July 19.
- Aoki, Jitsuiji, Oakland, Calif. Cooking chestnuts. 1,616,944; Feb. 8.
- Aoki, Tamotsu, Tokyo, Japan. Optical torsion meter. 1,613,262; Jan. 4.
- Apablas, Abraham C., Los Angeles, Calif. Powder box. Des. 73,991; Dec. 6.
- Apco Manufacturing Company. (See Cavanagh, John F., assignor.)
- Apco Manufacturing Company. (See Ransdell, Robert W., assignor.)
- Apel, Albert, Stockton, Calif. Harvesting machine. 1,652,806; Dec. 13.
- Apeldorn, Guy S., Philadelphia, Pa. Water-softening system. 1,646,270; Oct. 18.
- Apex (British) Artificial Silk Ltd. (See Levy, Leonard A., assignor.)
- Apex Electrical Manufacturing Company, The. (See Franz, Walter A., assignor.)
- Apex Electrical Manufacturing Company, The. (See McClatchie, Stanley, assignor.)
- Apex Spring Cover Company, The. (See Skok, Lawrence, assignor.)
- Apfel, David. (See Schaeffer, E. H., and Apfel.)
- Apfelbeck, Hugo, Falkenstein, Czechoslovakia. Press for making briquettes. 1,620,621; Mar. 15.
- Apollo Holding Corporation. (See McCrery, H. E., Jesser, and Montgomery, assignors.)
- Apollon, Hanco Co. (See Rauworth, Edwin S., assignor.)
- Apstoloff, Serge, Brooklyn, assignor to Union Dry Battery Corporation of America, New York, N. Y. Electric cell. 1,617,230; Feb. 8.

- Appel, Daniel, assignor to The Cleveland-Akron Bag Company, Cleveland, Ohio. Making paper bags. 1,621,049; Mar. 15.
- Appel, Daniel, assignor to The Cleveland-Akron Bag Company, Cleveland, Ohio. Machine for making paper bags. 1,631,452; June 7.
- Appellan, Henri G., and J. J. Van Horen, London, assignors of one-half to R. J. Walker, Leicester, England. Machine for bicycles. 1,626,775; May 3.
- Apperson, Graham. (See Riley O., and Apperson.)
- Apple, Vincent G., Dayton, Ohio. Machine for pressing inductors into place on the core of dynamo-electric-machine elements and bending them simultaneously. Re16,828; Dec. 20.
- Apple, Vincent G., Dayton, Ohio. Building dynamo-electric-machine armatures and windings for same. 1,631,186; June 7.
- Apple, Vincent G., Dayton, Ohio. Armature. 1,642,057; Sept. 13.
- Applebaum, Isaac, Philadelphia, Pa. Folding container. 1,642,529; Sept. 13.
- Applebaum, Isaac, Philadelphia, Pa. Folding container. 1,653,690; Dec. 27.
- Appay, James A., assignor to C. C. Wakefield & Company, Limited, London, England. Grease gun. 1,643,761; Sept. 27.
- Appley, Thomas, assignor of one-third to C. D. Ehret, Philadelphia, Pa. Control Method and apparatus. 1,619,911; Mar. 8.
- Appley, Thomas, Philadelphia, assignor to A. A. Kent, Ardmore, Pa. Method of and apparatus for producing oscillations. 1,651,012; Nov. 29.
- Appleford Counter Check Book Company. (See Waugh, William R., assignor.)
- Applegate, Andrew J., Old Monroe, Mo. Railroad-track dresser. 1,653,423; Dec. 20.
- Applegate, Charles O., Ambridge, Pa. Can opener. 1,613,499; Jan. 4.
- Appleton Electric Co. (See Anderson, Ernst G. K., assignor.)
- Appleton, Joseph H., Oshkosh, Wis., assignor to Allied Packers, Inc., Chicago, Ill. Apparatus for reshaping hams. 1,633,157; June 21.
- Appleton, Joseph H., Fort Washington, and F. H. Kriz, assignors to Leach Company, Oshkosh, Wis. Machine for making links or similar articles. 1,641,951; Sept. 13.
- Appleton Manufacturing Company. (See Sperry, Herbert B., assignor.)
- Appleton Manufacturing Company. (See Van Nortwick, John, assignor.)
- Appleton, Russell V., Pittsburgh, Pa., assignor of forty and one-half per cent to A. Welty, sixteen and one-half per cent to A. Welty, and two and one-half per cent to F. Welty, Chicago, Ill. Centrifugal frequency-time-element relay. 1,650,176; Nov. 22.
- Applin, Harry, Ambler, Pa., assignor to Ambler Asbestos Company. Shingle machine. 1,623,612; Apr. 5.
- Apsit, Julius. (See Easton, C. L., and Apsit.)
- Aquazone Corporation. (See Shook, Alexander M., assignor.)
- Aquila, Anthony, Iselin, N. J. Card holder. 1,629,331; May 17.
- Aquila, Anthony, Iselin, N. J. Price-card holder. 1,645,640; Oct. 18.
- Aram, Otto, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Stoker. 1,624,651; Apr. 12.
- Aram, Otto, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Underfed stoker. 1,630,774; May 31.
- Aram, Otto, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coal agitator. 1,649,333; Nov. 15.
- Aramian, Harry S., New York, N. Y. Pen nib. 1,621,450; Mar. 15.
- Arbette, Esther H., administratrix. (See Arbette, Wolf.)
- Arbette, Wolf, deceased, Boston, Mass.; E. H. Arbette, administratrix, New York, N. Y. Blindstitch sewing machine. 1,615,782; Jan. 25.
- Arbuckle, Harry B., Hot Springs, Wyo. Viscera retainer for use in abdominal operations. 1,618,261; Feb. 22.
- Arbogast, William H., assignor to W. McElwee, Dunmore, W. Va. Wrench. 1,647,071; Oct. 25.
- Arbon, Paul, Tulsa, Okla. Making drilling jars. 1,637,511; Aug. 2.
- Arbon, Paul & Company. (See Standlee, Harvey R., assignor.)
- Arbuckle, Samuel F., Detroit, Mich., assignor to Monogram Lens Corporation, New York, N. Y. Lighting apparatus. 1,622,938; Mar. 29.
- Arbuckle, Samuel F., Detroit, Mich., assignor to Monogram Lens Corporation, New York, N. Y. Headlamp shield. 1,635,879; July 12.
- Arca Regulators, Inc. (See Lindsay, Thomas, assignor.)
- Arca Regulators, Inc. (See Söderberg, Sten E. B., assignor.)
- Arcaide Manufacturing Company. (See Rubin, Adolph, assignor.)
- Arcaide Manufacturing Company. (See Tscherning, Henry, assignor.)
- Arch-Cushion Corporation. (See Amory, William N., assignor.)
- Arch-Cushion Corporation. (See Anglada, Joseph A., assignor.)
- Archauloff, Vadime, Boulogne-sur-Seine, France. Cylinder head of internal-combustion engines combined with fuel injectors. 1,633,158; June 21.
- Archer, Earl W., Cambridge, Ohio. Light-control system. 1,627,474; May 3.
- Archer, Floyd L., Wilkes-Barre, Pa. Aerial railway. 1,626,619; July 19.
- Archer, Harry W., assignor to The Acme Wire Co., New Haven, Conn. Core for spools, reels, bobbins, and the like. 1,625,585; Apr. 19.
- Archer, Lincoln G. (See Knox, Orville M., assignor.)
- Archer, Merton T., Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio. Control casing head. 1,648,039; Nov. 7.
- Archer, Robert G., jr. (See Archer, Robert G., sr., and R. G., jr.)
- Archer, Robert G., sr., and R. G. Archer, jr., Fort Washington, Pa. Flag holder for automobile radiators. Des. 72,542; May 3.
- Archer, Robert L. (See Spalding, J. E., and Archer.)
- Archer Rubber Company. (See Emery, Herbert W., assignor.)
- Archer, Thomas P., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Handle assembly. 1,619,097; Mar. 1.
- Archer, Thomas P., and F. M. Edgar, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Combination remote control and pull-to handle assembly. 1,635,231; Aug. 9.
- Archer, Thomas P., and F. M. Edgar, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Windshield regulator. 1,653,977; Dec. 27.
- Archer, Thomas P., and E. E. Heintz, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window regulator. 1,625,186; Apr. 19.
- Archibald, William M., Jacksonville, Fla. Door-closing handle. 1,629,195; May 17.
- Archidiacano, Nicholas, Boston, Mass. Fruit and vegetable squeezer. 1,653,831; Dec. 27.
- Archila, Fulgencio, Bogota, Colombia. Waterproof case. 1,619,782; Mar. 1.
- Archila, Fulgencio, Bogota, Colombia. Electric sign. 1,629,467; May 24.
- Archipenko, Alexander, New York, N. Y. Apparatus for displaying changeable pictures. 1,626,496; Apr. 26.
- Archipenko, Alexander, New York, N. Y. Decorating changeable display apparatus. 1,626,497; Apr. 26.
- Architectural Iron Works. (See Friedman, Harry, assignor.)
- Arctic Dairy Products Company. (See Zoller, Harper F., assignor.)
- Arctic Nu-Air Corporation. (See Sternberg, Irving C., assignor.)
- Arcturus Radio Co., The. (See Brockway, Carl P., assignor.)
- Arden, A. G. (See Häggi, Ida, assignor.)
- Arden, Thomas R., Forest Hills, assignor to The Ferdinand Strauss Corporation, New York, N. Y. Mechanical jigger toy. 1,614,912; Jan. 18.
- Arden, Thomas R., Forest Hills, assignor to The Ferdinand Strauss Corporation, New York, N. Y. Mechanical golf-playing toy. 1,636,117; July 19.
- Arden, Thomas R., Forest Hills, assignor to J. Cheln, deceased, New York, N. Y.; E. H. Cheln, executrix. Toy crane. 1,652,135; Dec. 6.
- Arden, Thomas R., Forest Hills, assignor to J. Cheln, deceased, New York, N. Y.; E. H. Cheln, executrix. Toy crane. 1,652,136; Dec. 6.
- Arden, Thomas R., Forest Hills, assignor to J. Cheln, deceased, New York, N. Y.; E. H. Cheln, executrix. Toy crane. 1,652,137; Dec. 6.
- Ardin, Lucien L., New York, N. Y. Internal-combustion engine. 1,626,466; Feb. 8.
- Arduse, George B., Toledo, Ohio. Mold cleaning and polishing apparatus. 1,642,289; Sept. 13.
- Arendt, Ernst, Berlin-Fichtenau, Germany. Card holder. 1,651,358; Dec. 6.
- Arentz, Fred B., Baltimore, Md., assignor to U. S. Industries, Alcohol Co. Revivifying process for carbons. 1,647,747; Feb. 1.
- Arenz, John A., Chicago, Ill., assignor to International Screw Company, Wilmington, Del. Double-threaded screw. 1,651,796; Dec. 6.
- Arey, Fred C., Oak Park, assignor to L. J. Brainard, Chicago, Ill. Length control for sausage machines. 1,642,353; Sept. 13.
- Arey, Ralph G., assignor to Lundquist Tool and Manufacturing Company, Worcester, Mass. Electrical measuring instrument. 1,620,622; Mar. 15.
- Arey, Ralph G., assignor to Worcester Bilt-Rite Company, Worcester, Mass. Windshield cleaner. 1,638,976; Aug. 16.
- Arey, Ralph G., assignor to Worcester Bilt-Rite Company, Worcester, Mass. Windshield cleaner. 1,639,013; Aug. 16.
- Argentographica (U. S. A.) Limited. (See de'Sperati, Mariano, assignor.)
- Aridor Company, The. (See Brown, A., and Peck, assignors.)
- Aridor Company, The. (See Moyer, Paul S., assignor.)
- Aridor Company, The. (See Peck, R. G., and Brown, assignors.)

- Armond, Frederick, Central Tanamo, Cuba. Saw. 1,652,084; Dec. 6.
- Ario, Rudolf, Brooklyn, N. Y. Moving van. 1,627,135; May 3.
- Aris, Guillermo, Barcelona, Spain. Dyeing and printing with phenylamine black. 1,643,233; Sept. 20.
- Arizona Minerals Corporation. (See Lindsay, Frederick K., assignor.)
- Arkansas Oak Flooring Company, et al. (See Gardner, Oscar B., assignor.)
- Arkell, Robert. (See Coulshaw, Charles J. A., assignor.)
- Arkell Safety Bag Company. (See Goodlett, Nicholas M., assignor.)
- Arkell Safety Bag Company. (See Robinson, Francis T., assignor.)
- Arkell Safety Bag Company. (See Wandell, Kurt, assignor.)
- Arkell & Smiths. (See Tooker, J. N., and Harley, assignors.)
- Arkema, Harold P., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating dies. 1,630,775; May 31.
- Arkfeld, John Norfolk, assignor to L. Arkfeld, Omaha, Neb. Animal drinking trough. 1,644,660; Oct. 11.
- Arkfeld, Lyman. (See Arkfeld, John, assignor.)
- Arliegh, Mabel W., Los Angeles, Calif. Vehicle. 1,616,839; Feb. 8.
- Armard Company, The. (See Murphy, George S., assignor.)
- Armaturen- & Maschinenfabrik A-G vorm. J. A. Hilpert. (See Neumann, Fritz, assignor.)
- Armbrust, Charles W., Albany, N. Y., assignor to International Life Saving Water Making Cup Corporation, Washington, D. C. Water-collecting device. 1,648,433; Nov. 8.
- Armbruster, Anthony, Houston, Tex. Laundry assorter. 1,618,260; Feb. 22.
- Armbruster, Charles E. H., Denver, Colo. Macular reflectoscope. 1,651,661; Dec. 6.
- Armbruster, Fred C. (See Bradt, Edward L., assignor.)
- Armen, Rozella C., Rochester, N. Y. Connector for electric conductors. 1,643,887; Nov. 15.
- Armington, Arthur P., Willoughby, assignor to The Euclid Crane & Hoist Company, Euclid Village, Ohio. Auxiliary rim and attaching same. 1,619,175; Mar. 1.
- Armistead, Hubert M., San Francisco, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Variable-spacing platen clutch for typewriters. 1,632,361; June 14.
- Armistead, Hubert M., San Francisco, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifolded attachment for typewriters. 1,632,362; June 14.
- Armistead, Hubert M., San Francisco, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Ribbon-carrying arm for manifolded typewriters. 1,634,605; July 5.
- Armitage, Joseph. (See Kearney, E. J., and Armitage.)
- Armitage, William D., New Bedford, Mass. Internal-combustion engine. 1,645,471; Oct. 11.
- Armour & Company. (See Heicke, Adolf, assignor.)
- Armour Fertilizer Works. (See Meyers, Herbert H., assignor.)
- Armour, Richard, Los Angeles, Calif. Forging tool. 1,621,573; Mar. 22.
- Arms, Edward W., assignor to W. & L. E. Gurley, Troy, N. Y. Microscope attachment for surveying instruments. 1,629,373; May 17.
- Arms, Ray W., assignor to Roberts and Schaefer Company, Chicago, Ill. Dry-separating apparatus. 1,641,407; Sept. 6.
- Armstrong, Alan, Whitley Bay, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for the production of welded-wire fabrics. 1,643,291; Sept. 27.
- Armstrong, Alma B. (See Clark, N. D., and Armstrong.)
- Armstrong Bros. Tool Co. (See Fletcher, Joseph C., assignor.)
- Armstrong Bros. Tool Co. (See Welter, Sebastian J., assignor.)
- Armstrong, Charles C., Huntington, W. Va. Cooking range. 1,652,292; Dec. 13.
- Armstrong, Charles M., East Lansing, Mich. Plant protector. 1,654,446; Dec. 27.
- Armstrong, Clara S. (See Armstrong, Paul B., assignor.)
- Armstrong Cork Company. (See Busch, Herman F., assignor.)
- Armstrong Cork Company. (See Chadwick, Eric H., assignor.)
- Armstrong Cork Company. (See Cover, Lester E., assignor.)
- Armstrong Cork Company. (See Humphreys, Charles F., assignor.)
- Armstrong Cork Company. (See Humphreys, C. F., and McCarthy, assignors.)
- Armstrong Cork Company. (See Humphreys, Harry S., assignor.)
- Armstrong, Edward R. (See Morey, W. W., and Armstrong.)
- Armstrong, Edward R., Holland, Mich. Traction appliance for automobiles. 1,613,598; Jan. 11.
- Armstrong, Edward R., Holland, Mich. Sled attachment for automobiles. 1,629,061; May 17.
- Armstrong, Edwin J., assignor, by mesne assignments, to Erie Steam Shovel Company, Erie, Pa. Traveling track sprocket. 1,643,598; Sept. 27.
- Armstrong, Edwin J., assignor to Erie Steam Shovel Company, Erie, Pa. Method of and mechanism for controlling variable-speed engines. 1,650,415; Nov. 22.
- Armstrong, Edwin J., assignor, by mesne assignments, to Erie Steam Shovel Company, Erie, Pa. Sprocket-chain link. 1,653,852; Dec. 27.
- Armstrong, Frank C., Little Neck, N. Y., assignor to American Telephone and Telegraph Company. Sighting instrument for measuring angles. 1,640,435; Aug. 30.
- Armstrong, Frank H., Auburn, assignor, by mesne assignments, to L. C. Smith & Corona Typewriter Inc., Syracuse, N. Y. Typewriting machine. 1,619,013; Mar. 1.
- Armstrong, Frederick A., Sawtelle, Calif. Muffler cut-out. 1,626,903; May 3.
- Armstrong, Fredrick D., West Kogarah, near Sydney, New South Wales, Australia. Shock-absorber shackle. 1,635,880; July 12.
- Armstrong, George J., Burkburnett, Tex. Sand pump. Re16,708; Aug. 16.
- Armstrong, George W., Fremont, Ohio, assignor to National Carbon Company, Inc. Depolarizer for primary batteries. 1,624,460; Apr. 12.
- Armstrong, Harry H., Los Angeles, Calif. Conversion process. 1,613,010; Jan. 4.
- Armstrong, Harry H., Los Angeles, Calif. Distilling and refluxing unit. 1,616,840; Feb. 8.
- Armstrong, Harry H., Los Angeles, Calif. Recovering condensable vapors from gases. 1,621,821; Mar. 22.
- Armstrong, Harry Y., Syracuse, N. Y., assignor, by mesne assignments, of one-half to American Machine and Foundry Company. Wrapping machine. 1,626,378; Apr. 26.
- Armstrong, Harry Y., Syracuse, N. Y., assignor, by mesne assignments, of one-half to American Machine and Foundry Company. Wrapping machine. 1,626,379; Apr. 26.
- Armstrong, Howard, Humberstone, Ontario, Canada. Bag or sack counter. 1,613,552; Jan. 4.
- Armstrong, James H. A., Holyoke, Mass., assignor to American Writing Paper Company. Method and apparatus for making paper having the appearance of handmade paper. 1,616,211; Feb. 1.
- Armstrong, John. (See Brutoski, S. J., and Armstrong.)
- Armstrong, John J., Crockett, Calif. Machine for washing sugar trays. 1,617,835; Feb. 15.
- Armstrong, John J., Crockett, Calif. Tray-setting device. 1,617,834; Feb. 15.
- Armstrong, John L., Chicago, Ill., assignor to The National Lock Washer Company, Newark, N. J. Combined sash holder and window release. 1,640,064; Aug. 23.
- Armstrong, Joseph. (See Comins, F. B., and Armstrong.)
- Armstrong, Joseph, Allston, assignor to American Moistening Company, Boston, Mass. Portable psychrometer. 1,636,350; July 19.
- Armstrong, Julian, Evanston, Ill. Cover for baskets and the like. 1,650,003; Nov. 22.
- Armstrong, Lonzo W., Las Animas, Colo. Electric water heater. 1,618,819; Feb. 1.
- Armstrong, Lyman P., San Jose, Calif. Clamping device. 1,632,108; June 14.
- Armstrong, Lyman P., San Jose, Calif. Fastener. 1,641,835; Sept. 6.
- Armstrong, Lyman P., San Jose, Calif. Bed bottom. 1,641,836; Sept. 6.
- Armstrong, Morgan K., Winnetka, Ill., assignor, by mesne assignments, to United States Gypsum Company. Non-penetrable wall board. 1,641,611; Sept. 6.
- Armstrong, Paul B., assignor to C. S. Armstrong, Chicago, Ill. Tone chamber. 1,616,434; Jan. 25.
- Armstrong, Percy A. E., New York, N. Y. Alloy impactor. 1,645,213; Oct. 25.
- Armstrong, Percy A. E., New York, N. Y. Preventing displacement in rollers for roller bearings. 1,646,947; Oct. 25.
- Armstrong, Raymond W., and I. E. McCabe, Chicago, Ill. Joint between electrical conductors. 1,640,869; Aug. 30.
- Armstrong, Victor C., Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y. Wear-compensating means for rail joints. 1,615,500; Jan. 25.
- Armstrong, Victor C., Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y. Reversible head-free rail joint. 1,652,807; Dec. 13.
- Armstrong, Victor C., Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y. Balanced splice for running rails. 1,654,397; Dec. 27.
- Armstrong, W. M., et al., trustees. (See Cutler, William C., assignor.)
- Armstrong, Wesley J., assignor to McKinnon Dash Company, Buffalo, N. Y. Apparatus for testing radiator cores. 1,613,217; Jan. 4.
- Arnatt, Philippe, Paris, France. Keyless combination lock mechanism for padlocks, door locks, and the like. 1,621,148; Mar. 15.
- Arndt, Ernest A., Sioux City, Iowa. Automobile trunk. Re16,665; June 28.
- Arndt, Franklin E., assignor to The Gallion Iron Works & Mfg. Co., Gallion, Ohio. Road-grader axle assembly. 1,641,127; Apr. 12.
- Arndt, Mix M., Manitowoc, Wis. Flying machine. 1,623,613; Apr. 5.

- Arneson, Theodore J., Baker, Oreg. Eye-testing apparatus. 1,622,215; Mar. 22.
- Arnest, Harry L., Virginia Highlands, Va. Brush-adjusting means for generators of automobiles. 1,640,917; Aug. 30.
- Arnett, Calvin C., Gainesville, assignor of one-half to H. L. Collins, Fort Worth, Tex. Meter-box lid and lock therefor. 1,616,298; Feb. 1.
- Arnett, Florence, and L. Welspiel, San Francisco, Calif. Pot-holder rack. Des. 71,859; Jan. 18.
- Arnett, Florence, and L. Welspiel, San Francisco, Calif. Pot-holder rack. Des. 72,129; Mar. 8.
- Arney, Arrie B., McClue, Ohio. Electric pulsator. 1,641,368; Sept. 6.
- Arnold, Adelaide F., et al. (See Friedman, William, assignor.)
- Arnold, Carl, Nuremberg, Germany. Motor mechanism for toy boats. 1,627,073; May 3.
- Arnold, Dan H., et al. (See Friedman, William, assignor.)
- Arnold, Edgar, Kent, Ohio. Planter. 1,637,980; Aug. 2.
- Arnold, Edward W., North Abington, Mass. Weiting. 1,654,204; Dec. 27.
- Arnold Electric Company. (See Fliegel, Harrison D., assignor.)
- Arnold Electric Company, The. (See Poplawski, Stephen J., assignor.)
- Arnold, Enos F., Long Beach, Calif. Inclinator. 1,627,136; May 3.
- Arnold, Eugene E., Lynchburg, Va. Sign. 1,650,177; Aug. 22.
- Arnold, E. R., & Company. (See Friedman, William, assignor.)
- Arnold, Frank D., Humboldt, Iowa. Sound amplifier. 1,635,303; July 12.
- Arnold, Frank D., Humboldt, Iowa. Phonograph. 1,647,389; Nov. 1.
- Arnold, Frank J., Brooklyn, N. Y. Button. Des. 74,132; Dec. 27.
- Arnold, George, Astoria, N. Y. Nonsinkable-boat construction. 1,616,404; Feb. 1.
- Arnold, Harid D., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission of pictures by electricity. 1,647,765; Nov. 1.
- Arnold, Hubert, Calgary, Alberta, Canada. Merchandise carrier. 1,630,047; May 24.
- Arnold, James E., Groton, Conn., assignor of one-half to F. P. Carr, Boston, Mass. Supplying fuel to hydrocarbon engines. 1,617,736; Feb. 15.
- Arnold, John W., et al. (See Friedman, William, assignor.)
- Arnold, Lester R., Worcester, Mass., assignor, by mesne assignments, to E. C. Bowers and C. L. Feldman, receivers. Card clothing. 1,653,596; Dec. 20.
- Arnold, Marvin L. (See Beechell, David W., assignor.)
- Arnold, Mildred C., et al. (See Friedman, William, assignor.)
- Arnold, Philip S., assignor of one-fifth to C. E. Wisner, Detroit, Mich. Indicating micrometer. 1,615,060; Jan. 18.
- Arnold Print Works. (See Porter, John, assignor.)
- Arnold, Robert B. (See Gross, P. M., and Arnold.)
- Arnold, Roy J. (See Smith, R. E., Arnold, and Gay.)
- Arnold, Samuel, 36, Ben Avon, Pa. Operating electric furnaces. 1,629,196; May 17.
- Arnot, John M., Bury, England. Steam-heated cylinder and the like and draining the same. 1,633,723; June 28.
- Arns, Harry M., Glendale, Ohio, assignor to H. G. Kottenbrook, Cincinnati, Ohio. Advertising device. 1,641,468; Sept. 6.
- Arnsberg, Tessie, San Francisco, Calif. Shoe overall. 1,620,935; Mar. 15.
- Arnstain, Karl, assignor to the Firm: Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Airship with structural compensating surfaces. 1,614,519; Jan. 18.
- Arnstain, Karl, assignor to Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Hull construction of rigid airships. 1,620,507; Mar. 8.
- Arnstain, Karl, assignor to the Firm Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Airship frame. 1,623,951; Apr. 5.
- Arnstain, Karl, assignor to Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Stabilizing apparatus for rigid airships. 1,623,952; Apr. 5.
- Arnstain, Karl, assignor to Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Rigid airships. 1,631,908; June 7.
- Arnstain, Karl, Akron, Ohio, assignor to Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Aircraft. 1,642,005; Sept. 13.
- Arnstain, Herold P., Lakewood, Ohio. Sprinkling-hose support. 1,631,849; June 7.
- Arutz, Svend A., assignor of one-half to H. R. A. Steffens, Mamaroneck, N. Y. Tobacco can. 1,641,565; Sept. 6.
- Arzen, Frank H., Grangeville, Idaho. Chain equipment for tires. 1,619,846; Mar. 8.
- Aron Electric Razor Company. (See Aron, William P., assignor.)
- Aron, William P., Dallas, Tex., assignor to Aron Electric Razor Company, Wilmington, Del. Electrical safety razor. 1,625,015; Apr. 19.
- Aronson, Algott, Vantage, Saskatchewan, Canada. Butter mold. 1,621,822; Mar. 22.
- Aronson, Gustaf A., Stockholm, Sweden. Section for stoves or the like. 1,629,245; May 17.
- Aronson, Louis V., Newark, N. J. Casing for cigarette lighters. Des. 72,658; May 17.
- Aronson, Louis V., Newark, N. J. Clock casing. Des. 72,811; June 14.
- Aronson, Louis V., Newark, N. J. Clock casing. Des. 72,812; June 14.
- Aronson, Louis V., Newark, N. J. Spinning toy. 1,619,689; Mar. 1.
- Aronson, Louis V., Newark, N. J. Toy gun. 1,629,608; May 24.
- Aronson, Louis V., Newark, N. J. Ornament. 1,634,251; July 5.
- Aronson, Louis V., Newark, N. J. Cigar lighter. 1,639,479; Aug. 16.
- Aronson, Louis V., Newark, N. J., assignor to Voices Incorporated. Voice mechanism. 1,630,250; May 31.
- Artesee Doll Company. (See Geisler, August, assignor.)
- Arras, George, and D. E. Worrell, Chicago, Ill. Adjustable fixture. 1,625,069; Apr. 19.
- Arrington, John, Seattle, Wash. Clamp. 1,629,246; May 17.
- Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
- Arrowood, Milton W., Wilmette, Ill. Coal-grinding mill. 1,609,099; May 10.
- Arrowood, Milton W., Chicago, Ill., assignor to Ground Coal Engineering Corporation, Worcester, Mass. Treating metals. 1,617,510; Feb. 15.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Production of inulin and inulin derivatives. 1,616,164; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Production of fructose. 1,616,165; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Production of levulose. 1,616,166; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Extraction and purification of inulin. 1,616,167; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Purifying sugar juices. 1,616,168; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Hydrolysis of inulin. 1,616,169; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Fructose product. 1,616,170; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Hydrolysis of inulin. 1,616,171; Feb. 1.
- Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Preparing fructose. 1,616,172; Feb. 1.
- Arsem, William C., Schenectady, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of formaldehyde. 1,648,602; Nov. 8.
- Art Acceptible Furniture Company. (See Krystofak, Josef, assignor.)
- Artau, Miguel R., Santurce, P. R. Head covering. 1,629,062; May 17.
- Artberg, John G., Skarsattra, Sweden. Fuel-controlling device for internal-combustion engines. 1,653,754; Dec. 27.
- Art Case Manufacturing Company. (See Markow, Bernard, assignor.)
- Art Case Mfg. Co. (See Sintow, Ely W., assignor.)
- Art Case Manufacturing Company. (See Zimmerman, Hyman, assignor.)
- Artcolor Motion Picture Company. (See Miller, Frederic R., assignor.)
- Artistic Company, The. (See Thurman, Tandy B., assignor.)
- Artcraft Metal Stamping Corporation. (See Aglow, Harry, assignor.)
- Artcraft Metal Stamping Corporation. (See Shapiro, Saul, assignor.)
- Artcraft Metal Stamping Corporation. (See Shapiro, Theodore, assignor.)
- Arter, Jakob, Oberengstringen, and E. Schelling, Dietikon, Switzerland. Power-transmitting device. 1,629,902; May 24.
- Artesian Well Engineering Co., The. (See Jacobson, Conrad C., assignor.)
- Arthur-Fowler Co. (See Fowler, Paul L., assignor.)
- Arthur, Glenn W., Osborn, Ohio. Corn shocker. 1,645,212; Oct. 11.
- Arthur, Harrison N., Methuen, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Device to prevent rotation of bobbins in looms. 1,652,598; Dec. 13.
- Arthur, James F., Dickson City, Pa. Circulating-tube connection. 1,639,251; Aug. 16.
- Arthur, James F., Dickson City, Pa. Circulating tube. 1,639,252; Aug. 16.

- Arthur, Paul, assignor to Lyon & Healy, Inc., Chicago, Ill. Banjo. Des. 74,333; Dec. 27.
- Arthur, Paul, assignor to Frank Holton & Co., Elkhorn, Wis. Key-valve pad for musical instruments. 1,635,775; July 12.
- Arthur, Willis U., Aiken, S. C. Seed separator. 1,613,553; Jan. 4.
- Artistic Brass & Bronze Works, Inc. (See Poritz, Frederick M., assignor.)
- Artistic Bronze Company, The. (See Swern, Daniel D., assignor.)
- Artizan Factories, Inc. (See Maerten, Christian, Jr., assignor.)
- Art Metal Construction Company. (See Bush, Ellis C., assignor.)
- Art Metal Construction Company. (See Lombard, Homer W., assignor.)
- Art Metal Radiator Cover Co. (See Faber, Guy S., assignor.)
- Arton, John A., Chicago, Ill. Convertible furniture. 1,637,797; Aug. 2.
- Art Specialty Company, The. (See Kaden, Harry E., assignor.)
- Artstone Burial Vault Co. (See Tanner, Oscar A., assignor.)
- Artus, Robert, Gera, Germany. Ice machine. 1,638,179; Aug. 9.
- Artyr Company, The. (See Huetter, Andrew, assignor.)
- Artz, Anthony C., assignor to The Beaverland Corporation, Louisville, N. Y. Bottle-cap machine. 1,635,454; July 12.
- Artz, William J. (See Ryan, Alva L., assignor.)
- Arundel, Clarence E., assignor of one-half to F. F. Postell, Birmingham, Ala. Sheet-material toy. 1,620,053; Mar. 8.
- Arvedson, George F., Carpentersville, Ill. Garden implement. 1,639,643; Aug. 22.
- Arvey Manufacturing Co., The. (See Hall, Richard E., assignor.)
- Arzens, Joseph E., Paris, France. Shock absorber. 1,616,021; Feb. 1.
- Asbestos Spinning and Weaving Corporation. (See Trainor, Edward J., assignor.)
- Asbridge, Harry H., Ashton-on-Mersey, England. Cam-grinding machine. 1,622,755; Mar. 29.
- Asbury, Dorsey F., Washington, D. C. Valve-operating mechanism. 1,612,792; Jan. 4.
- Asbury, Harry E., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Can opener. 1,617,142; Feb. 8.
- Ascheim, Jules, New York, N. Y. Riding boot. 1,648,101; Nov. 8.
- Ascher, Louis K., assignor, by mesne assignments, to The Humidity Control Company, Indianapolis, Ind. Vacuum return boiler feed. 1,635,600; July 12.
- Ascherl, Michael, Cleveland, Ohio. Spray appliance. 1,652,422; Dec. 13.
- Aschinger, Julius. (See Sandner, Henry, assignor.)
- Aseltine, Fred E., assignor to General Motors Research Corporation, Dayton, Ohio. Internal-combustion engine. 1,619,965; Mar. 8.
- Aseltine, Fred E., assignor to General Motors Research Corporation, Dayton, Ohio. Carburetor. 1,651,359; Dec. 6.
- Aseltine, Fred E., assignor to General Motors Corporation, Detroit, Mich. Method and apparatus for preparing combustible mixtures. 1,649,278; Nov. 15.
- Asenjo y Perez del Rio, Francisco F., Madrid, Spain. Rail. 1,652,850; Dec. 13.
- Ash, Charles S. (See Robinson, R. D., and Ash.)
- Ash, Charles S., Royal Oak, Mich. Constructing suspension wheels. 1,622,268; Mar. 29.
- Ash, Horace W., Winchester, Mass. Storing and handling apparatus for asphalt. 1,637,889; Aug. 2.
- Ash, Horace W., Winchester, Mass. Apparatus for heating and emptying asphalt tanks. 1,658,359; Dec. 27.
- Ash, Horace W., Winchester, and W. B. Stenmer, Malden, Mass. assignors to Warren Brothers Company, Boston, Mass. Combustion chamber. 1,654,353; Dec. 27.
- Ash, Louis R., Kansas City, Mo. Center lock for bascule bridges. 1,646,340; Oct. 18.
- Ash, Louis R., H., Tammen, and H. G. Hunter, Kansas City, Mo. Bascule bridge. 1,635,355; June 28.
- Ashbaugh, Chester R., Albert City, Iowa. Tractor control device. 1,651,986; Dec. 6.
- Ashbaugh, John H. (See Bradshaw, W. M., and Ashbaugh.)
- Ashbaugh, John H., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,621,054; Mar. 15.
- Ashbaugh, John H., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overload protective device. 1,638,819; Aug. 16.
- Ashbaugh, John H., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-balancing regulator. 1,654,317; Dec. 27.
- Ashbaugh, John H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,647,333; Nov. 1.
- Ashbaugh, John H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,654,360; Dec. 27.
- Ashbrook, Robert F., Watertown, Conn. Mechanical-drawing demonstrator. 1,639,448; Aug. 16.
- Ashby, Brodie H., et al. (See Liles, Thomas O., assignor.)
- Ashby, Heber L., Mammoth, assignor of one-half to J. E. Clark, Spanish Fork, Utah. Breaking-in machine. 1,651,810; Nov. 29.
- Ashcroft, Edgar A., Wye, near Ashburton, assignor to New Metallurgy Limited, London, England. Protecting carbon or graphite electrodes in fused electrolytes. 1,653,605; Dec. 20.
- Ashdown, Sydney, Victoria, British Columbia, Canada. Automatic releasing choker hook. 1,643,361; Sept. 27.
- Ashdown, Sydney, Victoria, British Columbia, Canada. Logging hook. 1,643,362; Sept. 27.
- Ashe, Marcellus T., Brooklyn, N. Y. Delivery mechanism. 1,621,619; Mar. 22.
- Ashenden, Ernest W., assignor to William Bros. Boller & Mfg. Co., Minneapolis, Minn. Baffle wall. 1,652,157; Dec. 13.
- Ashenfarb, Barnett, et al. (See Hurewitz, Joseph, assignor.)
- Ashenhurst, Harold S., assignor, by mesne assignments, to Insulex Corporation, Chicago, Ill. Making cellular blocks. 1,613,639; Jan. 11.
- Ashenhurst, Harold S., assignor, by mesne assignments, to Insulex Corporation, Chicago, Ill. Horizontal wall construction. 1,654,029; Dec. 27.
- Ashford, Harold S., assignor to Insulex Corporation, Chicago, Ill. Soundproof wall. 1,654,030; Dec. 27.
- Asher Manufacturing Company. (See Olson, Werner O., assignor.)
- Asherman, Max, New York, N. Y. Attachment for ladies' bags. 1,627,224; May 3.
- Ashford, Alfred J., assignor of one-half to S. L. Stough, Kingston, N. C. Electric switch. 1,646,440; Oct. 25.
- Ashing, Charles W., Laurel, Iowa. Grain sprouter. 1,637,250; July 26.
- Ashkenas, Abraham, Brooklyn, N. Y. Adjustable partition support. 1,651,940; Dec. 6.
- Ashkenas, Abraham, Brooklyn, N. Y. Removable panel and interchanging means. 1,651,941; Dec. 6.
- Ashleman, Adolph E., and T. E. Haney, Waco, Tex. Crank lock for box-car doors. 1,621,966; Mar. 22.
- Ashman, Adolph E., and T. E. Haney, Waco, Tex. Signal. 1,646,675; Oct. 25.
- Ashley, Ollie C. (See Lord, W. S., and Ashley.)
- Ashlock, George W., Jr., Oakland, Calif. Protective device for electric switchboards. 1,616,945; Feb. 8.
- Ashtman, Herbert H., et al. (See Rohm, James T., assignor.)
- Ashtman, James, Central City, Pa. Twin steel cross tie. 1,620,151; Mar. 8.
- Ashtmore, Frank F., and M. W. Crum, assignors of one-third to C. P. Hawkins, Quenemo, Kans. Automobile awning. 1,653,196; Dec. 20.
- Ashtmun, Harry S. (See Titcomb, L. R. and Ashtmun.)
- Ashtabula Bow Socket Company, The. (See Leach, Sagito J., assignor.)
- Ashtabula Bow Socket Company, The. (See Lewis, F. K., and Allen, assignors.)
- Ashtabula Bow Socket Company, The. (See Lewis, F. K., and Roath, assignors.)
- Ashton, Clifford. (See Hunt, J. E., and Ashton.)
- Ashton, Donald G., Cushing, Okla. Belt tightening and guiding device. 1,617,982; Feb. 15.
- Ashton, Ernest, Swampscott, Mass., assignor to United States Machinery Corporation, Putnam, N. J. Heel-breast scouring wheel. 1,647,260; Nov. 1.
- Ashton, Richard A. (See King, N., and Ashton.)
- Ashton, Richard A., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y. Work-driving device. 1,632,018; June 14.
- Ashton, Sidney C., Kansas City, Mo. Oil-well pump. 1,624,821; Apr. 12.
- Ashton Valve Company, The. (See Motherwell, J. W., and Baker, assignors.)
- Ashton Valve Company, The. (See Priest, Walter F., assignor.)
- Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau. (See von Schubert, Erich, assignor.)
- Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau. (See Winslow, Erich F., assignor.)
- Aske, Irving E., Duluth, Minn. Heater or fumer. 1,643,438; Sept. 27.
- Aske, Leonard E., Duluth, Minn. Electric heater or vaporizer. 1,616,247; Feb. 1.
- Aske, Leonard E., Duluth, Minn. Heater or fumer. 1,643,439; Sept. 27.
- Askelson, Benjamin A., Mazoned, Saskatchewan, Canada. Musical instrument. 1,643,044; Sept. 20.
- Askewsky, Paul, and E. Elsd, Karlsruhe, Baden, Germany. Production of arsenic acid and its solutions. 1,650,860; Nov. 29.
- Asman, Lionel. (See Karcher, L. C., and Asman.)
- Asmus, Charles R., Columbus, Ohio. Laundry appliance. 1,627,948; May 10.
- Asmus, Hugo C., Kansas City, Mo. Ice pick. 1,623,375; Apr. 5.
- Asmussen, Heinrich. (See Lodig, W., and Asmussen.)
- Aspöck, Ralph L., Chorley, England. Variable condenser. 1,631,453; June 7.

- Aspinwall, Louis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic switch. 1,614,173; Jan. 11.
- Aspliuwall, Robert S., assignor to Lincoln Manufacturing Company, Detroit, Mich. Light-fixture wall bracket back. Des. 71,820; Jan. 11.
- Aspinwall, Robert S., assignor to Lincoln Manufacturing Company, Detroit, Mich. Electric droplight fixture. Des. 72,130; Mar. 8.
- Aspinwall, Robert S., assignor to Lincoln Manufacturing Company, Detroit, Mich. Electric droplight fixture. Des. 72,131; Mar. 8.
- Asplund, Erick E., St. Paul, Minn. Display box. 1,640,870; Aug. 30.
- Asprooth, Axel H., Baltimore, Md., and A. M. Leoni, assignors to Electro-Motive Devices, Inc., Philadelphia, Pa. Balanced wheel drive. 1,616,343; Feb. 1.
- Asprooth, Axel H., Baltimore, Md., and A. M. Leoni, said Leoni, assignor to Electro-Motive Devices, Inc., Philadelphia, Pa. Balanced rear-axle drive. 1,619,051; Mar. 1.
- Asselin, Olivier, Ottawa, Ontario, Canada. Ice-cream holder. 1,615,209; Jan. 25.
- Associated Engineers Company. (See Graves, R. M., and D'Olive, assignors.)
- Associated Lead Manufacturers Limited. (See Waring, Horace, assignor.)
- Associated Silver Company. (See Lashar, Thomas B. and E. H., assignors.)
- Assarati, Albert, New York, N. Y. Snap fastener. 1,643,936; Oct. 4.
- Aste, Anthony L., Brooklyn, N. Y. Shoe-polishing cabinet. 1,614,096; Jan. 11.
- Asten, Eduard W., Eupen, Belgium. Process and device for drying paper and the like fibrous webs. 1,615,210; Jan. 25.
- Aston, S., et al. (See Davis, Paul, assignor.)
- Astoria Importing and Manufacturing Co. Inc. (See Straub, Christopher, assignor.)
- Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company. Dumping car. 1,613,153; Jan. 4.
- Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Hot-metal container. 1,616,074; Feb. 1.
- Astrom, John. (See Neumann, August, assignor.)
- Astrom, John, Fort Wayne, Ind. Filter. 1,651,797; Dec. 6.
- Astrom, John, assignor to Fort Wayne Engineering & Mfg. Co., Fort Wayne, Ind. Automatic pressure-control apparatus. 1,646,847; Oct. 25.
- Astrom, John, and V. L. Tannehill, Fort Wayne, Ind. Static eliminator. 1,625,445; Apr. 19.
- Åström, Peter E., Gothenburg, Sweden. Cleaning device. 1,625,930; Apr. 26.
- Atchison, Arlo G., Santa Barbara, Calif. Camera attachment. 1,623,690; June 14.
- Atchley, William T., Delta, Colo. Mulcher attachment for cultivators. 1,633,469; June 21.
- Ateliers de Construction Electriques de Charleroi Societe Anonyme. (See Thomas, Arthur, assignor.)
- Ateliers des Vosges. (See Gaulard, Alfred, assignor.)
- Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lighting-arrester connection. 1,636,544; July 19.
- Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lighting-arrester. 1,651,360; Dec. 6.
- Atherton, Charles, assignor to Hy-Lo Unit & Metal Products, Inc., Pasadena, Calif. Remote control valve. 1,617,094; Feb. 8.
- Athey, Isaac H., assignor to Athey Truss Wheel Co., Chicago, Ill. Vehicle. 1,623,450; Apr. 5.
- Athey, Isaac H., assignor to Athey Truss Wheel Co., Chicago, Ill. Vehicle. 1,623,457; Apr. 5.
- Athey, Isaac H., assignor to Athey Truss Wheel Co., Chicago, Ill. Vehicle. 1,623,458; Apr. 5.
- Athey Truss Wheel Co. (See Athey, Isaac H., assignor.)
- Ations, Herbert, Los Angeles, Calif. Rear-spring construction. 1,629,672; May 24.
- Atkins, Andrew A., Mineral, Va. Boiler-feed regulator. 1,641,612; Sept. 6.
- Atkins, Charles H., Palmer, Mass. Drainage of steam chambers. 1,637,327; Aug. 2.
- Atkins, Charles H., assignor to Atkins and Company, Inc., Palmer, Mass. Packing box for siphon pipes. 1,620,862; Mar. 15.
- Atkins, Charles H., assignor to Atkins and Company, Inc., Palmer, Mass. Differential pressure valve. 1,625,780; Apr. 26.
- Atkins and Company. (See Atkins, Charles H., assignor.)
- Atkins, Dudley, Jr., F. O. Anderson, and E. E. Lindsey, Minneapolis, Kans. Ditch-maintaining drag. 1,637,673; Aug. 2.
- Atkins, E. C., & Company. (See Gommel, Dewey E., assignor.)
- Atkins, George C. (See Clemence, John D., assignor.)
- Atkins, Henry W., Oakland, Calif. Pruning shears. 1,640,635; Aug. 30.
- Atkinson, Charles B., Avalon, Pa. Game board. 1,615,927; Feb. 1.
- Atkinson, Frederick A., and O. J. Pickard, assignors to Joseph Pickard's Sons Co., Philadelphia, Pa. Pile wire. 1,653,755; Dec. 27.
- Atkinson, Frederick C., Indianapolis, Ind. Leather dressing and tanning material. 1,622,127; Mar. 22.
- Atkinson, Frederick C., Indianapolis, Ind. Material for commutator brushes. 1,644,703; Oct. 11.
- Atkinson, Harry E., Traverse City, Mich. Connector for battery terminals and other electrical conductors. 1,653,833; Dec. 27.
- Atkinson, Howard, et al. (See Atkinson, Howard, assignor.)
- Atkinson, Howard, assignor, by mesne assignments, of eight-tenths to H. Atkinson, one-tenth to F. K. Holmestead, and one-tenth to J. B. Adams, Charleston, W. Va. Recovery of petroleum from oil-bearing sands. 1,651,311; Nov. 20.
- Atkinson, Jerome M., New York, N. Y. Swinging davenport. 1,650,178; Nov. 22.
- Atkinson, Joseph M., assignor to Oppenheim, Oberndorff Company, Inc., Baltimore, Md. Union suit. 1,621,392; Mar. 15.
- Atkinson, Ralph W. (See Fisher, H. W., and Atkinson, Atkinson, Thomas M., assignor to The Royston Paper Company, Milltown, N. J. Colored sheet material and producing the same. 1,624,652; Apr. 12.
- Atkinson, William H., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,617,190; Feb. 8.
- Atkinson, William L., Edmonds, Wash. Grip ratchet. 1,646,676; Oct. 25.
- Atlantic Coast Fisheries Corporation of New York. (See Cooke, Alexander H., assignor.)
- Atlantic, Gulf & Pacific Company of Manila. (See Amend, August M., assignor.)
- Atlantic Refining Company, The. (See Ehlers, Carl H., Jr., assignor.)
- Atlantic Refining Company, The. (See Lewis, Joseph W., Jr., assignor.)
- Atlantic Steel Company. (See Lawton, Mortimer P., assignor.)
- Atlas Box Company. (See Redemski, Albert J., assignor.)
- Atlas Elevator Devices Co. (See Weigle, Edmund.)
- Atlas-Globe China Company. (See Ahrendts, George R., assignor.)
- Atlas-Globe China Co., The. (See Habermann, Henry, assignor.)
- Atlas Metal Parts Company. (See Seyfert, John P., assignor.)
- Atlas Plywood Corporation. (See Buck, Ralph M., assignor.)
- Atlas Portland Cement Company, The. (See Croll, Andrew G., assignor.)
- Atlas Powder Company. (See Creighton, Henry J., assignor.)
- Atlas Powder Company. (See Djidics, Alexander, assignor.)
- Atlas Powder Company. (See Grant, Harry L., assignor.)
- Atlas Powder Company. (See Huyett, Daniel D., assignor.)
- Atlas Powder Company. (See Jessen, Charles C., assignor.)
- Atlas Powder Company. (See Shipley, Stanley D., assignor.)
- Atlas Powder Company. (See Shipley, S. D., and Given, assignors.)
- Atlas Powder Company. (See Wilcoxon, F., and Grotta, assignors.)
- Atlas Press Company. (See Collins, James G., assignor.)
- Atlas-Werke Pohl & Co. (See Abel, August, assignor.)
- Atmospheric Nitrogen Corporation. (See Bramwell, Francis H., assignor.)
- Atmospheric Nitrogen Corporation. (See Humphrey, Herbert A., assignor.)
- Atmospheric Nitrogen Corporation. (See Kniskern, Walter H., assignor.)
- Attack, Frederick W. (See Hope, Edward, assignor.)
- Attaway, Elisha, Logansport, La. Rafter gauge. 1,628,447; May 10.
- Atteboro Braiding Co. (See Burlingame, Fred E., assignor.)
- Attridge, Oliver H. (See Harris, H. M., and Attridge.)
- Attwood, Charles E., Wollaston, Mass., assignor to Post-Index Company, Inc., Boston, Mass. Filing and indexing equipment. 1,626,442; Apr. 20.
- Attwood, Stanley H. (See Costalen, L., and Attwood.)
- Astuesta, Mark A. (See Jones, Charles E., and Astuesta.)
- Atwater, Anna, Lakewood, Ohio. Cooking utensil. 1,622,075; Mar. 22.
- Atwater Kent Manufacturing Company. (See Kingsford, Russell T., assignor.)
- Atwater Kent Manufacturing Company. (See MacFadden, Wilford C., assignor.)
- Atwater Kent Manufacturing Company. (See Miller, John M., assignor.)
- Atwell, Harold V. (See Wilson, R. E., and Atwell.)
- Atwell, Harold V., Holliston, Mass. Extracting fats. 1,648,102; Nov. 8.
- Atwell, Harold V., Whiting, Ind. Extracting fats. 1,648,670; Nov. 8.
- Atwell, Harold V., assignor to Standard Oil Company, Whiting, Ind. Seal. 1,626,443; Apr. 26.
- Atwell, Harold V., assignor to Standard Oil Company, Whiting, Ind. Seal. 1,628,348; May 10.
- Atwell, Henry K., Syracuse, N. Y. Trousers for athletes. 1,619,176; Mar. 1.

- Atwood, Charles E., Binghamton, N. Y. Ground brake. 1,631,115; June 7.
- Atwood, Clifford R., H. Berg, and O. R. Junkins, Fairfield, Iowa. Automobile visor. 1,615,563; Jan. 25.
- Atwood, Edwin H., W. E. Wanner, C. A. Kiehl, and E. H. Wright, Olean, assignors to Vacuum Oil Company, New York, N. Y. Cleaning machine for containers. 1,646,570; Oct. 25.
- Atwood, Francis C., Newton, assignor to Comstock & Wescott, Inc., Boston, Mass. Separating fibrous material from fluids. 1,614,337; Jan. 11.
- Atwood, Francis L., Anderson, Ind. Plug gauge. 1,626,176; Apr. 26.
- Atwood, Harry N., Monson, Mass. Vehicle wheel. 1,652,511; Dec. 13.
- Atwood, Harry N., Monson, Mass. Vehicle wheel. 1,653,331; Dec. 20.
- Atwood, Harry N., Monson, assignor to Rubwood, Inc., Lawrence, Mass. Vehicle body. 1,633,159; June 21.
- Atwood, Harry N., Monson, assignor to Rubwood, Inc., Lawrence, Mass. Submarine craft. 1,633,817; Aug. 16.
- Atwood, Harry N., Monson, assignor to Rubwood, Inc., Lawrence, Mass. Forming submarine hulls. 1,638,818; Aug. 16.
- Atwood, Harry N., Monson, assignor to Rubwood, Inc., Lawrence, Mass. Shoe heel. 1,640,686; Aug. 30.
- Atwood, Harry N., Monson, assignor to Rubwood, Inc., Lawrence, Mass. Machine foundation. 1,647,428; Nov. 1.
- Atwood, Hart W., Portland, Oreg. Heating device. 1,631,614; June 7.
- Atwood Machine Company, The. (See Bradley, Edward E., assignor.)
- Atwood Machine Company, The. (See Bradley, E. E., and Rowe, assignors.)
- Atwood Machine Company. (See Chase, Herbert C., assignor.)
- Atwood, William J. (See Schatz, William A., assignor.)
- Atwood, Winfield A., Schenectady, N. Y., assignor to General Electric Company. Instrument shunt. 1,614,174; Jan. 11.
- Atwood, Winfield A., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,628,448; May 10.
- Au, Carl H., assignor of one-half to J. C. Hoyt, Washington, D. C. Current meter. 1,626,715; May 3.
- Au, Carl H., assignor of one-half to J. C. Hoyt, Washington, D. C. Current meter. 1,644,005; Oct. 4.
- Au, Carl H., assignor of one-half to J. C. Hoyt, Washington, D. C. Reciprocating mechanical movement. 1,645,273; Oct. 11.
- Auberlin, William, Northfield, Ohio. Airship anchorage. 1,629,197; May 17.
- Aubert, Jean M., L. A., Paris, France. River dam. 1,624,571; Apr. 12.
- Auburn Automobile Company. (See Crawford, James M., assignor.)
- Aucher, Charles G., Pittsburgh, Pa. Fortune-telling game board. Des. 72,689; May 24.
- Aucker, Robert F. (See Moyer, G. H., and Aucker.)
- Audibert, Jean, Villeurbanne, France, assignor to the corporation Societe des Films en Couleur Keller Dorian of France. Method and apparatus for producing films for color photography. 1,625,580; Apr. 19.
- Aue, Carlton W., Snoqualmie Falls, Wash. Pressure-operated switch for tire meters. 1,641,796; Sept. 6.
- Auer, Earl W., Louisville, and S. Pastorius, Canton, Ohio, assignors to Central Alloy Steel Corporation, New York, N. Y. Roller-nozzle guide for bar mills. 1,615,608; Jan. 25.
- Auerbach, Karl, Saalfeld-Saale, Germany, assignor to H. F. Hoevel, New York, N. Y. Upsetting machine. 1,633,430; June 21.
- Auerbach, Max, the Hague, Netherlands. Textile machine. 1,642,354; Sept. 13.
- Aufenast, William G., St. Paul, Minn. Electric-iron cord holder. 1,644,661; Oct. 11.
- Aufessens, Gates B., assignor to Mohawk Brush Company, Albany, N. Y. Hairbrush. 1,628,299; May 10.
- Auge, Louis W., Rahway, N. J. Electrical switch. 1,652,293; Dec. 13.
- Augenstein, Wilhelm, Elmendingen, Germany. Facet-cutting machine. 1,646,375; Oct. 18.
- Auger, Joseph T., assignor of one-third to E. O. Voyer and one-third to R. H. Monohan, Minneapolis, Minn. Pneumatic tire. 1,650,107; Nov. 22.
- Auger, Louis N., Los Angeles, Calif. Reflector. 1,614,224; Jan. 11.
- Augsbury, Frank A. (See Richter, A. F., and Augsbury.)
- Aurur, Richard F., assignor of one-half to R. E. Tubant, New York, N. Y. Display folder. 1,652,971; Dec. 13.
- August, Johannes R. C. (See Hunter, Edgar K., assignor.)
- August, Johannes R. C., London, England. Optical projection system. 1,645,367; Oct. 11.
- August, Ralph M. C. R., Great Kills, N. Y., assignor, by mesne assignment, to L. Florence, Teaneck, N. J. Radiofax. 1,627,823; May 10.
- Augustine Automatic Rotary Engine Co. (See Augustine, Benjamin F., assignor.)
- Augustine, Benjamin F., assignor to Augustine Automatic Rotary Engine Company, Buffalo, N. Y. Two-cycle gas engine. 1,623,296; Apr. 5.
- Augustine, Roy W., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Detecting metal particles in nonmetallic material. 1,640,524; Aug. 30.
- Aulbach, Charles J., assignor to Passaic Metal Ware Company, Passaic, N. J. Sealed container. 1,614,589; Jan. 18.
- Aulbach, Charles J., assignor to Passaic Metal Ware Company, Passaic, N. J. Covered receptacle. 1,621,487; Mar. 22.
- Aulbach, Charles J., assignor to Passaic Metal Ware Company, Passaic, N. J. Container. 1,630,687; May 31.
- Auld, D. L., Company. (See Auld, Fredrick, H., assignor.)
- Auld, D. L., Company, The. (See Brooks, Stanley G., assignor.)
- Auld, D. L., Company, The. (See Hyatt, Raymond D., assignor.)
- Auld, Fredrick H., Columbus, Ohio. Inlaid work of curved formation and producing the same. 1,641,955; Sept. 13.
- Auld, Fredrick H., Columbus, Ohio. Ornamental articles of manufacture and producing the same. 1,643,045; Sept. 13.
- Auld, Fredrick H., assignor to The D. L. Auld Company, Columbus, Ohio. Sign. 1,628,349; May 10.
- Auld, Fredrick H., assignor to D. L. Auld Company, Columbus, Ohio. Switch plate. 1,643,599; Sept. 27.
- Aulenback, James R., Bridgewater, Nova Scotia, Canada. Reamer. 1,635,067; July 5.
- Auletta, Alfred, et al. (See Luther, John A., assignor.)
- Aull, Wilson, Jr., assignor, by mesne assignments, to Dübiller Condenser Corporation, New York, N. Y. Variable electrostatic condenser. 1,652,158; Dec. 13.
- Ault, Forest F., Wilmette, assignor to The Borrowmire Company of America, Chicago, Ill. Mechanism and process for effecting regeneration. 1,630,612; May 31.
- Ault & Wiborg Company, The. (See Bragdon, Charles R., assignor.)
- Aumack, Howard W., Jersey City, N. J. Clothes rack. 1,644,503; Oct. 4.
- Aunes, Leonard, Quincy, Mass. Combination service stand. 1,636,035; July 19.
- Aurand, Edward L. (See Vard, M. H., and Aurand.)
- Aurand, Frank E., Oak Park, Ill. Portable surface-cleaning tool. 1,648,888; Nov. 15.
- Ausmus, William A., assignor to Protected Refill Corporation, Chicago, Ill. Combination notebook cover and stand. 1,614,977; Jan. 18.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Electrical conductor with reinforcing core. 1,626,776; May 3.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. High-potential conductor. 1,626,777; May 3.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Conductor terminal for bushings. 1,630,104; May 24.
- Austin, Arthur O., and D. K. Macleod, Barborton, assignors, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Apparatus for forming plastic materials. 1,625,914; Apr. 19.
- Austin, Bascum O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, Switch. 1,614,176; Jan. 11.
- Austin, Bascum O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overload relay. 1,652,512; Dec. 13.
- Austin, Bascum O., Wilkinsburg, and W. G. Horn, Bryn Mawr Farms, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,626,659; May 3.
- Austin, Charles T. (See Homan, W. A., and Austin.)
- Austin, Edward F., Schenectady, N. Y., assignor to General Electric Company. Signaling system. 1,641,725; Sept. 6.
- Austin, Edward F., and A. F. Phelps, Pittsburgh, Pa. Power-transmitting apparatus. 1,622,076; Mar. 22.
- Austin, George B., Jungo, Nev. Demountable rim for tires. 1,646,677; Oct. 25.
- Austin, George C., Seattle, Wash., assignor, by mesne assignments, of one-half to E. C. Carter Co., Inc., Los Angeles, Calif. Piston. 1,623,328; Apr. 5.
- Austin, George H., Reading, assignor, by mesne assignments, to Samuel Ward Manufacturing Company, Boston, Mass. Bookbinding machine. 1,640,918; Aug. 30.
- Austin, Gilbert E., Atascadero, Calif. Novelty doll. 1,619,193; Mar. 1.
- Austin, Harold E., Louisville, Ky., and J. C. Cook, Jeffersonville, Ind., assignors to American Cresoating Company, Louisville, Ky. Rail-lifting device. 1,629,468; May 24.
- Austin, Herbert, Bromsgrove, England. Spoked wheel of metal. 1,617,786; Feb. 15.
- Austin, Herbert, Bromsgrove, England. Window and wind screen. 1,618,746; Feb. 22.
- Austin, Herbert, Bromsgrove, England. Worm and worm-wheel transmission. 1,622,987; Mar. 29.
- Austin, Herbert, Bromsgrove, England. Window for motor vehicles. 1,626,129; Apr. 26.
- Austin, Herbert, Bromsgrove, assignor to The Austin Motor Company Limited, Northfield, near Birmingham, England. Change-speed gear. 1,635,020; July 12.

Austin, John B., assignor to Una Welding and Bonding Company, Cleveland, Ohio. Apparatus for uniting metals. 1,651,344; Nov. 29.

Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Swell-shutter-controlling mechanism. 1,639,324; Aug. 16.

Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Organ action. 1,640,306; Aug. 23.

Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Organ stop action. 1,640,307; Aug. 23.

Austin Machinery Corporation. (See Loken, Truls, assignor.)

Austin Machinery Corporation. (See Rosselle, George T., assignor.)

Austin Manufacturing Co. (See Beatty, W. T., Davis, and Wilson, assignors.)

Austin Manufacturing Co. (See Wilson, Fred D., assignor.)

Austin Motor Company Limited, The. (See Austin, Herbert, assignor.)

Austin, Ned M., Canton, Ohio, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Casting. 1,648,471; Nov. 8.

Austin Organ Company, The. (See Austin, John T., assignor.)

Austin, Raymond L., assignor to Bovaird & Seyfang Manufacturing Company, Bradford, Pa. Control mechanism. 1,937,722; Aug. 2.

Austin, Roy, London, England. Illuminated sign. 1,644,663; Oct. 11.

Austin, Samuel G., Cambridge, Ohio. Surgical table. 1,648,631; Nov. 8.

Austin, Walter M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Contact brush and making same. 1,630,460; May 31.

Austin, Walter S., Grand Rapids, Mich. Spring suspension for vehicles. 1,646,180; Oct. 8.

Austin, William S., South Paris, Me. Seed and fertilizer distributor. 1,651,313; Nov. 29.

Austral Window Company. (See Myers, Winter W., assignor.)

Australian Bituminous Compounds Limited. (See Renou, Frederick G., assignor.)

Australian Lanoline Proprietary Limited. (See Avery, John, assignor.)

Austrin, Valentin. (See Pumpurin, O., and Austrin.)

Autan Corporation. (See Gaisman, H. J., and Schumacher, assignors.)

Auth, Charles, New York, assignor to E. L. Auth, Brooklyn, N. Y. Annunciator drop. 1,623,376; Apr. 5.

Auth, Emma L. (See Auth, Charles, assignor.)

Auth, Emma L. (See Richardson, Henry F., assignor.)

Auto Brakeometer Corporation. (See McKinney, Francis R., assignor.)

Autocal Company, The. (See Richmond, Louis E., assignor.)

Autocar Company, The. (See Brumbaugh, Andrew K., assignor.)

Auto Fabrics Products, Inc. (See Osten, Joseph W., assignor.)

Auto Loading Device Manufacturing Company. (See Alderman, George C., assignor.)

Automat Equipment Corporation. (See Zsoldos, Julius, assignor.)

Automat Molding & Folding Company, The. (See Aldrich, J. P., and Morris, assignors.)

Automatic Appliance Company. (See Mapel, Lewis A., assignor.)

Automatic Arc-Welding Company. (See Morton, Harry D., assignor.)

Automatic Bottle Machine Corporation, The. (See McNish, Alexander, assignor.)

Automatic Car Lock Company. (See Hicks, James A., assignor.)

Automatic Display Company. (See Blumie, Frank W., assignor.)

Automatic Electric Control Company, The. (See Dodge, Owen, assignor.)

Automatic Electric Inc. (See Bellamy, John I., assignor.)

Automatic Electric Inc. (See Benson, William A., assignor.)

Automatic Electric Inc. (See Blessing, John G., assignor.)

Automatic Electric Inc. (See Engelsberg, Ralph W., assignor.)

Automatic Electric Inc. (See Erickson, John, assignor.)

Automatic Electric Inc. (See Erickson, J., and Obergfell, assignors.)

Automatic Electric Inc. (See Fahrenfeld, Fred W., assignor.)

Automatic Electric Inc. (See Gardner, John E., assignor.)

Automatic Electric Inc. (See Gardner, J. E., and Bellamy, assignors.)

Automatic Electric Inc. (See Gould, Roy F., assignor.)

Automatic Electric Inc. (See Hudd, Alfred E., assignor.)

Automatic Electric Inc. (See Hudd, A. E., and Bound, assignors.)

Automatic Electric Inc. (See Jacobsen, Emil, assignor.)

Automatic Electric Inc. (See Lomax, Clarence E., assignor.)

Automatic Electric Inc. (See Madsen, Fred T., assignor.)

Automatic Electric Inc. (See Martin, Talbot G., assignor.)

Automatic Electric Inc. (See McElyea, Harley B., assignor.)

Automatic Electric Inc. (See Mercer, R., and Tench, assignors.)

Automatic Electric Inc. (See Nelson, Martin L., assignor.)

Automatic Electric Inc. (See Obergfell, Herbert F., assignor.)

Automatic Electric Inc. (See Ostline, John E., assignor.)

Automatic Electric Inc. (See Pracht, Carl J., assignor.)

Automatic Electric Inc. (See Ray, Arthur J., assignor.)

Automatic Electric Inc. (See Ray, A. J., Madsen and Obergfell, assignors.)

Automatic Electric Inc. (See Richardson, Rodney G., assignor.)

Automatic Electric Inc. (See Richardson, R. G., and Bellamy, assignors.)

Automatic Electric Inc. (See Ruggles, Leonard L., assignor.)

Automatic Electric Inc. (See Schwartz, Michael, assignor.)

Automatic Electric Inc. (See Sengebusch, Hans, assignor.)

Automatic Electric Inc. (See Simmons, George H., assignor.)

Automatic Electric Inc. (See Sipe, Clinton R., assignor.)

Automatic Electric Inc. (See Smith, Arthur B., assignor.)

Automatic Electric Inc. (See Smith, E. D., and Perkins, assignors.)

Automatic Electric Inc. (See Stehlik, Rudolf F., assignor.)

Automatic Electric Inc. (See Tanke, Emil, assignor.)

Automatic Electric Inc. (See Thomas, A., and Stewart, assignors.)

Automatic Electric Inc. (See Walker, Edwin O., assignor.)

Automatic Electric Inc. (See Wicks, John, assignor.)

Automatic Electric Inc. (See Willis, Bernard D., assignor.)

Automatic Electric Washer Co. (See Nelson, John, assignor.)

Automatic Fuel Saving Company. (See Gray, George C. G., assignor.)

Automatic Gas Steam Radiator Company. (See Blackmore, George W., assignor.)

Automatic Guard and Signal Corporation, The. (See Jacobson, Ole A., assignor.)

Automatic Lock and Closer Company. (See Hill, E. L., and Webber, assignors.)

Automatic Lubricating Oil Equipment Company. (See Peaden, William H., assignor.)

Automatic Merchandizer, Inc., The. (See Lea, Charles, assignor.)

Automatic Molding & Folding Company, The. (See Aldrich, J. P., and Morris, assignors.)

Automatic Motion Picture Display Co. (See Burnett, John P., assignor.)

Automatic Musical Instrument Company. (See Green, Clifford H., assignor.)

Automatic Paper Machinery Company. (See Marcalus, Nils, assignor.)

Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)

Automatic Scale Company, The. (See Blick, Ernest L., assignor.)

Automatic Shoe Shiner Corporation. (See Thomas, Harold D., assignor.)

Automatic Signal & Sign Company, The. (See Myers, Parke G., assignor.)

Automatic Straight Air Brake Company. (See Hamilton, M. E., and Hopkins, assignors.)

Automatic Transmission Company. (See Gensmer, Theodore, assignor.)

Automatic Transmission Company. (See Gensmer, T., and Farmer, assignors.)

Automatic Limited. (See Bernstein, J. S., and Hulbert, assignors.)

Automatic Chest Company, The. (See Hawley, Charles A., assignor.)

Auto Meter Co. (See Huggins, Merion J., assignor.)

Automotive Corporation, The. (See Mowbray, James W., assignor.)

Automotive Devices, Inc. (See Miles, F. J., and Thompson, assignors.)

Automotive Patent Holding Company. (See Ahlm, Charles E. F., assignor.)

Automotive Valves Co., The. (See Burnett, Everett R., assignor.)

Automotive Valves Co., The. (See Burnett, E. R., and Burnell, assignors.)

Automotive Valves Corporation, The. (See Burnett, Everett R., assignor.)

Auto Pneumatic Action Company. (See La Joie, Hubert J., assignor.)

Auto Pneumatic Action Company. (See La Joie, H. J., and Urquhart, assignors.)

Auto Pneumatic Action Company, The. (See Urquhart, Hubert, assignor.)

Autopoint Company. (See Kaufmann, M. M., Lynn, and Dell, assignors.)

Autopoint Company. (See Keeran, Charles R., assignor.)

- Auto Research Corporation. (See Bijur, Joseph, assignor.)
- Auto Research Corporation. (See Bloom, Edgar J., assignor.)
- Auto Roller Awning Manufacturing Company, The. (See Clementi, C. L. and Hillebrandt, assignors.)
- Autostrop Patents Corporation. (See Gaisman, Henry J., assignor.)
- Autostrop Patents Corporation. (See Gaisman, H. J., and Schumacher, assignors.)
- Auto Wheel Coaster Company. (See Weyers, Howard L., assignor.)
- Auty, Frank, New York, N. Y. Mandrel. 1,639,019; Aug. 16.
- Avak, L. S., & Co. (See Goddu, William, assignor.)
- Avkanian, Bagdasar, Arlington, R. I. Mechanical pencil. 1,628,630; May 17.
- Arbel, Joseph, Bridgeport, Ohio. Coal drill. 1,642,355; Sept. 13.
- Averill, Charles C., Houston, Tex., assignor to Wm. S. Barnickel & Company, Webster Groves, Mo. Conditioning crude-oil emulsions. 1,617,737; Feb. 15.
- Averill, Charles C., Houston, Tex., assignor to Wm. S. Barnickel & Company, Webster Groves, Mo. Treating petroleum emulsions. 1,617,738; Feb. 15.
- Averill, Charles C., Houston, Tex., assignor to Wm. S. Barnickel & Company, Webster Groves, Mo. Breaking water-in-oil emulsions. 1,617,739; Feb. 15.
- Averill, Charles C., Houston, Tex., assignor to Wm. S. Barnickel & Company, Webster Groves, Mo. Breaking petroleum emulsions. 1,617,740; Feb. 15.
- Averill, Charles C., Houston, Tex., assignor to Wm. S. Barnickel & Company, Webster Groves, Mo. Breaking petroleum emulsions. 1,617,741; Feb. 15.
- Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company. Feed-water heater. 1,617,891; Feb. 15.
- Averill Mfg. Co. (See Hopf, Rudolph A., assignor.)
- Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Car-coupler system. 1,639,717; Aug. 23.
- Averill, William H., assignor to Joseph Pollak Tool and Stamping Company, Boston, Mass. Folding display rack. 1,622,612; Mar. 29.
- Avery, Anthony, Royal Oak, Mich. Speedway. 1,613,866; Jan. 11.
- Avery, Archie S., Two Rivers, Wis. Band-saw dresser. 1,643,148; Sept. 20.
- Avery, B. & Sons. (See Ray, Charles T., assignor.)
- Avery, Clarence W., assignor to Ford Motor Company of Delaware, Detroit, Mich. Machine and method for drawing glass. 1,616,405; Feb. 1.
- Avery, Clarence W., Detroit, and D. O. Moody, Highland Park, assignors to Ford Motor Company, Detroit, Mich. Article made from a rubber composition. 1,642,660; Sept. 20.
- Avery, Courtney C., assignor to Engle Wagon Works, Auburn, N. Y. Dumping apparatus. 1,654,032; Dec. 27.
- Avery, Harold Jr., Long Island City, N. Y. Spare-tire carrier. 1,648,472; Nov. 11.
- Avery, Harold T., San Luis Obispo, Calif. Airship. 1,615,002; Jan. 18.
- Avery, Hazelton S., San Juan, P. R. Method of and spray for expediting the ripening of fruit. 1,636,452; July 19.
- Avery, Henry A., Groton, assignor, by mesne assignments, to L. C. Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,621,488; Mar. 22.
- Avery, John, Armadale, assignor to Australian Lanoline Proprietary Limited, Melbourne, Victoria, Australia. Treatment of liquids containing oil or fatty substances and the like. 1,638,977; Aug. 16.
- Avery, John L., Long Beach, Calif. Direct-reading outside and inside calipers. 1,650,926; Nov. 29.
- Avery, True M., Glens Falls, assignor to Union Bag & Paper Corporation, Hudson Falls, N. Y. Bag making and printing machine. 1,618,041; Feb. 15.
- Avery, True M., Glens Falls, assignor to Union Bag & Paper Corporation, Hudson Falls, N. Y. Bag-delivery mechanism. 1,618,042; Feb. 15.
- Avery, True M., assignor to Union Bag & Paper Corporation, Hudson Falls, N. Y. Shift-proof bag. 1,619,177; Mar. 1.
- Avery, True M., Glens Falls, assignor to Union Bag & Paper Corporation, Hudson Falls, N. Y. Machine for stamping holes on bags. 1,624,864; Apr. 12.
- Avery, U. Sherman, Union Hill, and A. K. Trout, Bradley Beach, N. J., assignors to Waverly Novelty Co. Inc., New York, N. Y. Tuning peg for stringed instruments. 1,626,380; Apr. 26.
- Aviles, Florentino, Corozal, British Honduras. Key for water tanks. 1,614,175; Jan. 11.
- Avon, August, Malling, Java, Dutch East Indies. Engine-starting device. 1,632,264; June 14.
- Avis, Samuel W., West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Feeding device. 1,646,571; Oct. 25.
- Avon Seltz Company. (See Packard, Lester E., assignor.)
- Avondoglio, Giuseppe. (See Gaudio, O., Avondoglio, and Grassia.)
- Avorio, Luigi, Rome, Italy. Balloon capable of being employed as a captive observation balloon and as a dirigible. 1,629,374; May 17.
- Avriett, Giles L., et al. (See Walston, Joseph A., assignor.)
- Awoki, Kametaro, New York, N. Y. Saucer. 1,614,388; Jan. 11.
- Axberg, Edward, Spokane, Wash. Ticket cabinet. 1,632,265; June 14.
- Axe, Roy T., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y. Window construction. 1,616,248; Feb. 1.
- Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window-sash construction. 1,637,723; Aug. 2.
- Axe, Roy T., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y. Window sash and lock construction. 1,640,173; Aug. 23.
- Axe, Roy T., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y. Multiple-window construction. 1,651,352; Dec. 6.
- Axelson, Delbert F., Los Angeles, Calif., assignor to Axelsson Machine Company, Los Angeles, Calif. Spare-tire lock. 1,629,015; May 17.
- Axelsson, Jule C., and W. Jardh, Los Angeles, Calif., assignors to Axelsson Machine Co. Pump having standing-valve puller. 1,614,771; Jan. 13.
- Axelsson Machine Co. (See Axelsson, Delbert F., assignor.)
- Axelsson Machine Co. (See Axelsson, J. C., and Jardh, assignors.)
- Axelsson Machine Company. (See Barnwell, Dwight H., assignor.)
- Axelsson Machine Company. (See McKown, Randall C., assignor.)
- Axford, Allan C., San Francisco, Calif. Basket-grate heat deflector. 1,617,473; Feb. 15.
- Axelheim, Clarence M., and F. E. Chappell, Omaha, Neb., said Chappell assignor to said Axelheim. Demountable rim. 1,649,558; Nov. 15.
- Axtell, Clinton J., Schenectady, N. Y., assignor to General Electric Company. Protective device for electric circuits. 1,629,332; May 17.
- Axtell, Frank C., South Pasadena, assignor to Axtell Research Laboratories, Inc., Los Angeles, Calif. Petroleum-refining process and reagent for the removal of sulphur. 1,645,679; Oct. 18.
- Axtell Research Laboratories, Inc. (See Axtell, Frank C., assignor.)
- Axtell, Samuel T. (See Bollinger, Harry U., assignor.)
- Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Canning machine. 1,614,056; Jan. 11.
- Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. 1,621,864; Mar. 22.
- Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Vegetable-topping machine. 1,635,569; July 12.
- Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Machine for preparing fruits for canning. 1,640,745; Aug. 30.
- Ayars Machine Company. (See Ayars, Charles H., assignor.)
- Aydelotte, John T., assignor to American Dry Cleaning Company, Salt Lake City, Utah. Dry cleaning. 1,615,807; Feb. 1.
- Ayer Company, The. (See Harris, Thomas S., assignor.)
- Ayer, Louis H., Chicago, Ill. Bonding pin. 1,626,909; May 3.
- Ayers, Charles E., Cleves, Ohio. Blow-out patch for balloon tires. 1,631,354; June 7.
- Ayers, John A., Lima, Ohio. Soil-breaking machine. 1,637,290; July 26.
- Ayers, John E., Hartford, Conn. Bottle holder for bottle-washing machines. 1,652,597; Dec. 13.
- Ayers, John E., Hartford, Conn. Adjustable jet for bottle-washing machines. 1,652,599; Dec. 13.
- Ayers, Joseph G., Jr., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Gauging machine. 1,617,663; Feb. 15.
- Ayers, Joseph G., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Roller bearing. 1,651,798; Dec. 6.
- Ayers, Joseph G., Montclair, N. J., assignors to General Motors Corporation, Detroit, Mich. Gauging machine. 1,627,683; May 10.
- Ayers, Loren W., San Bernardino, Calif. Centrifugal casting appliance. 1,639,253; Aug. 16.
- Ayling, George W., Springfield, Ill. Kite. 1,633,510; Feb. 1.
- Ayling, Henry S., assignor to United Conveyor Corporation, Chicago, Ill. Conveyor fitting. 1,614,770; Jan. 18.
- Ayling & Reichert Company. (See Manchester, Clyde C., assignor.)
- Ayotte, Joseph R., Chicago, Ill. Interchangeable wrench or other tool holder. 1,651,361; Dec. 6.
- Ayotte, Joseph R., Chicago, Ill. Interchangeable wrench or other tool holder. 1,651,362; Dec. 6.
- Ayoub, Hana F., El Paso, Tex. Steering-wheel lock. 1,621,051; Mar. 15.
- Ayres, Arthur U. (See Jones, L. D., and Ayres.)
- Ayres, Claude E., Axtell, Nebr. Colander. 1,621,823; Mar. 22.
- Ayres, Eugene E., Jr., Chester, assignor to The Sharples Specialty Company, Philadelphia, Pa. Resolving water-in-oil emulsions. 1,646,339; Oct. 18.

- Ayres, Frank W., Colby, Kans. Chassis. 1,625,972; Apr. 26.
- Ayres, Harry T., Durango, Colo. End connection and shock absorber for vehicle springs. 1,623,651; Apr. 5.
- Ayvad, Hachig A., West New York, N. J. Swimming bag. 1,634,313; July 5.
- Ayvad, Hachig A., West New York, N. J. Valve for swimming bags. 1,634,514; July 5.
- Azami, John, Pittsburg, Kans. Flyswatter. 1,628,486; May 10.
- Azarraga, Luis, Hempstead, N. Y. Night aerial advertising. 1,652,996; Dec. 20.
- Azarraga, Luis, Hempstead, N. Y. Aerial advertising device. 1,652,997; Dec. 20.
- Azzam, Motor Manufacturing Company, The. (See Orr, William V., assignor.)
- Azzara, Polo C., Cresson, Pa. Spike. 1,642,006; Sept. 13.
- B & H Engineering Laboratories. (See Barrows, Ira C., assignor.)
- B. & H. Utility Products, Inc. (See Burleigh, James K., assignor.)
- B-S Manufacturing Products Corporation. (See Feeley, M. R., Stern, and Braden, assignors.)
- B. & S. Manufacturing Products Corporation. (See Stern, C., and Braden, assignors.)
- B. & T. Coll. Former & Tool Co. Inc. (See Bender, George, assignor.)
- Baur, Peter, Zeeland, Mich. Poultry perch. 1,630,020; Aug. 16.
- Baare, Edwin M., St. Louis, Mo. Lamp-shade holder. 1,616,735; Feb. 8.
- Baas, Dick J., Pease, Minn. Automatic ignition-control device for engines. 1,644,810; Oct. 11.
- Baash, Lawrence F., and E. H. McMahon, Whittier, Calif. Gas regulator for burners. 1,615,355; Jan. 25.
- Baatz, Margaret C., Irvington, assignor to Chas. R. De Revoise Company, Newark, N. J. Brassiere. 1,618,043; Feb. 15.
- Babb, Joseph E. (See Willock, H. H., Caplan, and Babb.)
- Babb, Edwin V., Fairhaven, Mass. Soldier toy. 1,621,574; Mar. 22.
- Babbitt, Edwin V., Fairhaven, Mass. Baseball-game apparatus. 1,623,038; Apr. 5.
- Babbitt, Edwin V., Fairhaven, Mass. Sailor toy. 1,623,039; Apr. 5.
- Babbitt, Edwin V., Fairhaven, Mass. Toy soldier. 1,650,784; Nov. 29.
- Babbitt, Edwin V., Fairhaven, Mass. Toy acrobat. 1,650,785; Nov. 29.
- Babbitt, Edwin J., Holland, Mich. Fishing line. 1,614,642; Jan. 18.
- Babbitt, John F., assignor to J. V. Pilcher, Louisville, Ky. Golf shaft. 1,630,249; May 31.
- Babbitt, John F., assignor to J. V. Pilcher, Louisville, Ky. Vanity case. 1,644,704; Oct. 11.
- Babbitt, Zeno B. (See Mitchell, R. J., Babbitt, and Alderman.)
- Babcock, Arthur E., Dolores, Colo. Safety starting crank for internal-combustion engines. 1,630,595; May 31.
- Babcock, Asa M., Lorain, Ohio. Spring motor. 1,634,864; July 5.
- Babcock Printing Press Manufacturing Company, The. (See English, F. S., and Perry, assignors.)
- Babcock Printing Press Manufacturing Company, The. (See Marlowe, Daniel J., assignor.)
- Babcock Printing Press Manufacturing Company, The. (See Perry, T. L., and English, assignors.)
- Babcock & Wilcox Company, The. (See Bennett, Harry S., assignor.)
- Babcock & Wilcox Company, The. (See Coleman, John, assignor.)
- Babcock & Wilcox Company. (See Dickson, George H., assignor.)
- Babcock & Wilcox Company, The. (See Harter, Isaac, assignor.)
- Babcock & Wilcox Company, The. (See Hartnett, George, assignor.)
- Babcock & Wilcox Company, The. (See Hoxie, William D., assignor.)
- Babcock & Wilcox Company, The. (See Hubbard, Norman, assignor.)
- Babcock & Wilcox Company, The. (See Jacobus, David, assignor.)
- Babcock & Wilcox Company, The. (See Jacobus, D. S., and Pratt, assignors.)
- Babcock & Wilcox Company, The. (See Kennal, James, assignor.)
- Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
- Babcock & Wilcox Company, The. (See Kohler, Anthony M., assignor.)
- Babcock & Wilcox Company, The. (See Lewis, Nathan E., assignor.)
- Babcock & Wilcox Company, The. (See Lewis, N. E., and Williams, assignors.)
- Babcock & Wilcox Company, The. (See Roszak, Charles L., assignor.)
- Babcock & Wilcox Company. (See Webster, Hosea, assignor.)
- Babcock & Wilcox Company, The. (See Weston, Sydney F., assignor.)
- Babcock & Wilcox Company, The. (See Witz, Henri E., assignor.)
- Babekuhl, William, Los Angeles, Calif. Lock for railroad car. 1,646,181; Oct. 13.
- Babel, Elmer H., Oakland, and R. L. Owen, Venice, Calif.; said Babel assignor to said Owen. Four-wheel equalized traction unit. 1,627,225; May 3.
- Baber, Wellesley M. C. (See Forbes, O. V., and Baber.)
- Babespune Company, The. (See Hodgman, Robert E., assignor.)
- Babb, Simon J., Philadelphia, Pa. Document-binding clamp. 1,644,625; Oct. 4.
- Babka, Joseph J., Berwyn, Ill. Oil atomizer. 1,620,625; Mar. 15.
- Babson Can Company, et al. (See Sebell, Harry, assignor.)
- Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Pail cover for milking machines. 1,653,756; Dec. 27.
- Baccellieri, Raffaele, Philadelphia, Pa. Press. 1,639,791; Aug. 23.
- Bach, James S., Toronto, Ontario, Canada. Sound amplifier. 1,653,144; Dec. 20.
- Bach, Niels P., Millburn, N. J., assignor to Thermokept Corporation, New York, N. Y. Sealing cans. 1,650,416; Nov. 22.
- Bach, Oscar B., New York, N. Y. Lamp. Des. 72,132; Mar. 8.
- Bach, Oscar B., New York, N. Y. Candlestick. Des. 72,133; Mar. 8.
- Bach, Oscar B., New York, N. Y. Candlestick. Des. 72,134; Mar. 8.
- Bach, Oscar B., New York, N. Y. Table. Des. 72,135; Mar. 8.
- Bach, Oscar B., New York, N. Y. Torchère. Des. 72,136; Mar. 8.
- Bach, Oscar B., New York, N. Y. Chair. Des. 72,137; Mar. 8.
- Bach, Oscar B., New York, N. Y. Console table. Des. 72,338; Apr. 5.
- Bach, Oscar B., New York, N. Y. Torchère. Des. 72,341; Apr. 5.
- Bach, Oscar B., New York, N. Y. Table. Des. 72,342; Apr. 5.
- Bach, Oscar B., New York, N. Y. Highboy. Des. 72,343; Apr. 5.
- Bach, Oscar B., New York, N. Y. Table. Des. 72,344; Apr. 5.
- Bach, Oscar B., New York, N. Y. Torchère. Des. 72,345; Apr. 5.
- Bach, Oscar B., New York, N. Y. Lamp. Des. 72,346; Apr. 5.
- Bach, Oscar B., New York, N. Y. Table. Des. 72,659; May 17.
- Bach, Oscar B., New York, N. Y. Table. Des. 72,660; May 17.
- Bach, Oscar B., New York, N. Y. Table. Des. 72,661; May 17.
- Bach, Oscar B., New York, N. Y. Table. Des. 72,662; May 17.
- Bach, Oscar B., New York, N. Y. Secretary. Des. 72,975; July 1.
- Bach, Oscar B., New York, N. Y. Lamp. Des. 73,466; Sept. 20.
- Bach, Oscar B., New York, N. Y. Torchère. Des. 73,467; Sept. 20.
- Bach, Oscar B., New York, N. Y. Candlestick. Des. 73,468; Sept. 20.
- Bach, Oscar B., New York, N. Y. Lamp. Des. 73,469; Sept. 20.
- Bach, Oscar B., New York, N. Y. Bridge lamp. Des. 73,470; Sept. 20.
- Bach, Oscar B., New York, N. Y. Ash tray. Des. 73,471; Sept. 20.
- Bach, Oscar B., New York, N. Y. Lamp. Des. 73,472; Sept. 20.
- Bach, Oscar B., New York, N. Y. Base for a lamp. Des. 73,473; Sept. 20.
- Bach, Oscar B., New York, N. Y. Table. Des. 73,550; Oct. 4.
- Bach, Oscar B., New York, N. Y. Table. Des. 73,551; Oct. 4.
- Bach, Oscar B., New York, N. Y. Cabinet. Des. 73,552; Oct. 4.
- Bach, Oscar B., New York, N. Y. Ash tray. Des. 73,553; Oct. 4.
- Bach, Oscar B., New York, N. Y. Console table. Des. 73,595; Oct. 11.
- Bach, Oscar B., New York, N. Y. Pedestal for lighting fixtures. Des. 73,992; Dec. 6.
- Bach, William F., Cleveland Heights, Ohio. Hanger for wall radiators. 1,630,919; May 31.
- Bachelder, Luther C., Portland, Oreg., assignor to American Can Company, New York, N. Y. Finger-gauging device. 1,648,572; Nov. 8.
- Bacher, Rollin L., Cleveland Heights, assignor to The United States Air Compressor Company, Cleveland, Ohio. Pumping system. 1,617,095; Feb. 8.
- Bachewich, Wasyli. Elphinstone, Manitoba, Canada. Pile driver. 1,616,299; Feb. 1.
- Bachman, Bessie T., executrix. (See Bachman, Frank E.)
- Bachman, Charles L., et al. (See Wotruba, Charles, assignor.)
- Bachman, Frank E., deceased, Part Henry, N. Y.; B. T. Bachman, executrix. Recovery of titanic acid, iron, and magnesia from titaniferous ores. 1,618,795; Feb. 22.

- Bachmann, Frank, assignor to The Dorr Company, New York, N. Y. Separation of solids from liquids. 1,627,550; May 10.
- Bachofen, Jacob. (See Dunning, W. E., and Bachofen.)
- Bachofen Novelty Fabric Inventions, Inc. (See Bachofen, Theodor, assignor.)
- Bachofen, Theodor, Westbrook, Me., assignor to Bachofen Novelty Fabric Inventions, Inc. Making pile fabrics. 1,644,819; Oct. 4.
- Bachofen, Theodor J., Westbrook, Me. Apparatus for piece dyeing. 1,644,460; Oct. 4.
- Bachofen, Theodor J., Westbrook, Me. Piece dyeing. 1,644,461; Oct. 4.
- Bachofen, Theodor J., Westbrook, Me. Machine for piece dyeing. 1,644,462; Oct. 4.
- Back, Robert, and G. A. Cooper, assignor to The Wahl Company, Chicago, Ill. Combined desk stand and penholder. Des. 71,994; Feb. 15.
- Backer, Christian B., Brooklyn, N. Y. Making fireproof electric insulated cables. 1,650,972; Nov. 29.
- Backes, Ernst, St. Gall, Switzerland. Attachment to folding combs, brushes, and the like. 1,651,746; Dec. 6.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Revivifying carbon used in purifying ethylene. 1,619,328; Mar. 4.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Revivifying carbon. 1,619,327; Mar. 1.
- Backlund, Isaac A., Satra, Sweden. Damper regulator. 1,618,044; Feb. 15.
- Backstay Machine & Leather Company, The. (See Schuchman, Robert C., assignor.)
- Backstrom, Fridolph F., Chicago, Ill. Toothpick holder. 1,618,627; Feb. 22.
- Backstrom, G. V. (See Brown, Perry O., assignor.)
- Backstrom, Gustaf V. (See Brown, Perry O., assignor.)
- Bickström, Sigurd M., assignor to Aktiebolaget Vaporsakumulator, Stockholm, Sweden. Internal-combustion locomotive. 1,627,226; May 8.
- Bacon, Adolphus S., Fair Haven, N. Y. Rat trap. 1,641,062; Aug. 30.
- Bacon, Alfred M., Arlington, Mass. Tire carrier. 1,623,377; Apr. 5.
- Bacon, Byron R., assignor to two-fifths to W. N. Bacon, New York, N. Y. Internal-combustion engine. 1,628,100; May 10.
- Bacon, Daniel R., Goshen, assignor to Percy Manufacturing Company, Inc., New York, N. Y. Turnstile. 1,646,078; Oct. 18.
- Bacon, Edwin W., assignor to The Erie Tool Works, Erie, Pa. Pipe vise. 1,617,364; Feb. 15.
- Bacon, Frederick W., New York, N. Y. Foot rest. 1,636,206; July 19.
- Bacon, Frederick J., New London, Conn. Banjo. 1,649,559; Nov. 15.
- Bacon, Frederick J., and David L. Day, Groton, Conn. Snare drum. 1,630,461; May 31.
- Bacon, Frederick J., and D. L. Day, Groton, Conn. Banjo bridge. 1,649,376; Nov. 15.
- Bacon, Frederick J., and D. L. Day, Groton, Conn. Banjo. 1,653,424; Dec. 20.
- Bacon, George M., Salt Lake City, Utah, assignor to A. K. Morgan, Chicago, Ill. Linen-straightening mechanism for laundry mangles. 1,645,036; Oct. 11.
- Bacon, John T., Williamsport, Pa. Traveler's check. 1,621,865; Mar. 22.
- Bacon, Raymond F., New York, and C. H. Kidwell, St. George, N. Y., assignors, by mesne assignments, to Van Heusen Products, Inc. Collar and cuff and making same. 1,647,950; Nov. 15.
- Bacon, Victor V., Spokane, Wash. Swimming appliance. 1,640,390; Aug. 30.
- Bacon, Wilber N. (See Bacon, Byron R., assignor.)
- Bacorn, Fredrick W., Butte, Mont. Lathering device. 1,639,718; Aug. 23.
- Bacterial Seepage Pification Company. (See Hopkins, L. S. R., and Corthell, assignors.)
- Baeckeland, Leo H., Yonkers, assignor to Bakelite Corporation, New York, N. Y. Resinous condensation products from dihydroxydiphenylethane and reactive methylene bodies and making same. 1,637,512; Aug. 2.
- Baddley, James A., Shepherdson, H. Swann, J. Hill, and G. Lawrence, assignors to British Dyestuffs Corporation Limited, Manchester, England. Dyeing acetyl cellulose or fabrics containing the same and new products for use therein. 1,616,103; Feb. 1.
- Baddley, James P., Chorley, and C. Butler, assignors to British Dyestuffs Corporation Limited, Manchester, England. Dyeing artificial silk. 1,653,757; Dec. 27.
- Badenhop, Hermann C., Wauseon, Ohio. Chicken feeder. 1,633,917; June 28.
- Bader, Joseph P., New York, assignor to The Texas Company, New York, N. Y. Colorimeter. 1,629,609; May 24.
- Badger, Arthur C., Newton, Mass. Nonfreezing fire extinguisher. 1,643,363; Sept. 27.
- Badger Manufacturing Corporation. (See Starck, William A., assignor.)
- Badger, Roy L., Youngstown, Ohio. Low-water alarm. 1,615,061; Jan. 18.
- Badger Tool & Mfg. Co. (See Tanguay, Arthur G., assignor.)
- Badger, Walter L., Ann Arbor, Mich., assignor to Swenson Evaporator Company, Harvey, Ill. Evaporating apparatus. 1,612,961; Jan. 4.
- Badger, William E., Hubbard, Ohio. Dental plate retainer. 1,618,847; Mar. 1.
- Badger, William R., Hubbard, Ohio. Dental articulator. 1,639,626; Aug. 16.
- Badgley, Gerald J., Brooklyn, N. Y., assignor to Duplex Motion Picture Industries, Inc. Adjustably mounting an optical combination. 1,649,646; Nov. 15.
- Bader, Paul E., Paris, France. Liquid-level indicator. 1,631,909; June 7.
- Badische Anilin- & Soda-Fabrik. (See Müller-Cunradi, M., and Wilke, assignors.)
- Badura, Benedict S., Lincoln, Nebr. Granary door. 1,627,548; May 10.
- Baechler, Kiser & Cie. (See Baechler, Max, assignor.)
- Baechler, Max, assignor to Baechler, Kiser & Cie., Paris, France. Vertical drying and dehydrating apparatus. 1,653,332; Dec. 20.
- Baehne, Walter, West New York, N. J. Tobacco case. 1,622,407; Mar. 29.
- Baehr, Albert M. (See Fleming, W. K., and Baehr.)
- Baentsch, Felix, Berlin-Charlottenburg, and A. Stober, Berlin, Germany. Smoke damper. 1,618,905; Feb. 22.
- Baer, Abraham L., assignor of one-half to F. J. Meyer, Milwaukee, Wis. Pen and pencil grip. 1,619,801; Mar. 8.
- Baer, Carl J., St. Louis, Mo. Cargo deck for water navigation and operating said deck. 1,618,401; Feb. 22.
- Baer, Frances R., Kansas City, Mo. Game. 1,632,640; June 14.
- Baer, Samuel, New York, N. Y. Playing card. 1,623,035; Apr. 5.
- Baeth, Edward C., Waller, Tex. Pulverizer attachment for cultivators. 1,614,590; Jan. 18.
- Baetz, Harry, St. Louis, Mo. Heating element. 1,649,010; Nov. 15.
- Baffetti, Achille A., Chicago, Ill. Vulcanizer. 1,619,231; Mar. 1.
- Bagamery, Alexander, South River, N. J. Safety cigar holder. 1,633,431; June 21.
- Bagby, Ralph B., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Flush valve for Pasteurizers. 1,624,572; Apr. 12.
- Bagby, Ralph B., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Pasteurizing apparatus. 1,624,573; Apr. 12.
- Bager, Frederic E., South Milwaukee, assignor to The T. L. Smith Company, Milwaukee, Wis. Flexible seal for mixers. 1,640,174; Aug. 23.
- Bager, Svante R. W. M., South Milwaukee, O. F. Kaeser, Milwaukee, and W. Lehman, assignors to Bucyrus Company, South Milwaukee, Wis. Creeping traction mounting for railway-type excavators. 1,616,673; Feb. 8.
- Bager, William M., W. Lehman, and F. C. Ruhloff, South Milwaukee, Wis. Dipper for excavating machinery. 1,642,189; Sept. 13.
- Bager, William M., W. Lehman, and F. C. Ruhloff, South Milwaukee, Wis. Dipper-front construction. 1,642,191; Sept. 13.
- Bagley, James, assignor, by mesne assignments, to A. L. Pfeiffer, Bedford, Mass. Pile wire. 1,625,783; Apr. 26.
- Bagley, James K., et al. (See Williamson, Aubrey C., assignor.)
- Bagley and Sewall Company, The. (See Valentine, Charles W., assignor.)
- Bagnall, Anna M., executrix. (See Hamilton, W. E., and Bagnall.)
- Bagnall, Ernest J. (See Hamilton, W. E., and Bagnall.)
- Bagnall, John, and P. G. Copeman, Toronto, Ontario, Canada. Device for making signs. 1,647,824; Nov. 1.
- Bagnani, Giuseppe, San Francisco, Calif. Endless drier for macaroni. 1,634,009; June 28.
- Bahan, William H., Greenville, S. C. Crank-shaft gear looms. 1,632,920; Jan. 11.
- Bahan, William H., Greenville, S. C. Crank-shaft gear for looms. 1,616,406; Feb. 1.
- Bahan, William H., and B. H. Boyter, Greenville, S. C. Valve mechanism for internal-combustion engines. 1,618,045; Feb. 15.
- Bahlke, William H. (See Wilson, R. E., and Bahlke.)
- Bahlmann, Erwin F., Milwaukee, Wis. Target-throwing apparatus. 1,638,283; Aug. 9.
- Bahnson, Frederic F., Winston-Salem, N. C. Humidifier. 1,622,482; Mar. 29.
- Bahr, August T. J., Kansas City, Mo., assignor to G. B. Rooney, Fairview, Kans. Collapsible tire rim. 1,643,534; Sept. 27.
- Bahr, Fritz, Charlottenburg, Germany, assignor to General Electric Company, Arc lamp of the sealed type. 1,632,578; June 14.
- Baler, Ludwig S., assignor to Ice Cream Smack Products Company, Portland, Ore. Machine for making ice-cream containers. 1,646,788; Nov. 22.
- Baler, Walter, New York, N. Y. Tool. 1,630,414; May 31.
- Baile, Roland P., Medford, Md. New food and process of production. 1,615,822; Feb. 1.
- Bailey, Albert S. (See Brown, Ryeer E., assignor.)
- Bailey, Alex D. (See Grunert, A. E., and Bailey.)

- Bailey, Austin, Freehold, N. J., assignor to American Telephone and Telegraph Company. Volume indicator. 1,653,082; Dec. 20.
- Bailey, Broadus, Greenville, S. C. Cleaning composition and making same. 1,635,244; July 12.
- Bailey, Charles W., Lynn, assignor to J. H. Stewart, Lynnfield, Mass. Buffing machine. 1,653,940; Dec. 27.
- Bailey, Claude W. W., McCord, and C. Wilkins, Wyandotte, assignor, by mesne assignments, to McCord Radiator & Mfg. Co., Detroit, Mich. Gasket. 1,626,110; Apr. 26.
- Bailey, David R., Sacramento, assignor to California Almond Growers Exchange, San Francisco, Calif. Apparatus for treating food products. 1,625,070; Apr. 13.
- Bailey, Edwin W. M., Amherst, Mass. Window-glass guide. 1,635,570; July 12.
- Bailey, Elmer C. L. (See Ruff, E., and Bailey.)
- Bailey, Elmer M., Havensville, Kans. Shade and curtain bracket. 1,613,780; Jan. 11.
- Bailey, Frank, and F. H. Jackson, Southwark, England. Apparatus for straining fluids. 1,615,009; Jan. 25.
- Bailey, Frank S., assignor to The Willys-Overland Manufacturing Company, Toledo, Ohio. Work-holding means. 1,617,562; Feb. 15.
- Bailey, Fred S., Chicago, Ill. Flexibly-adjustable duct-roller brake. 1,619,805; Mar. 8.
- Bailey, Garrold L., Newark, N. J. Sound amplifier. Des. 72,304; Mar. 29.
- Bailey, George M., Gracemont, Okla. All-weather top for automobiles. 1,636,453; July 19.
- Bailey, Henry A. (See Finkle, William P., assignor.)
- Bailey, James G., Delevan, assignor to Universal Broadcaster Mfg. Co., East Peoria, Ill. Seed or fertilizer distributing machine. 1,629,247; May 17.
- Bailey, James G., Delevan, assignor to Universal Broadcaster Mfg. Co., East Peoria, Ill. Broadcast distributing machine. 1,629,248; May 17.
- Bailey, James G., Delevan, assignor to Universal Broadcaster Mfg. Co., East Peoria, Ill. Broadcast distributing machine. 1,629,249; May 17.
- Bailey, John A., Willows, Calif. Automobile gate. 1,650,814; Nov. 29.
- Baig, Joseph A., Atlanta, Ga. Mounting for antifriction bearings. 1,622,483; Mar. 29.
- Bailey Meter Company. (See Eisenshitz, Robert, assignor.)
- Bailey Meter Company. (See McNairy, Jacob W., assignor.)
- Bailey Meter Company. (See Thompson, Louis W., assignor.)
- Bailey Meter Company. (See Wilkinson, James, assignor.)
- Bailey Meter Company. (See Woolley, Rew E., assignor.)
- Bailey, Neal, Tulsa, Okla. Key holder. 1,647,390; Nov. 1.
- Bailey, Percy S., Marblehead, Mass., assignor to General Electric Company. Reflector. 1,626,493; Apr. 26.
- Bailey, Rand S., Montclair, N. J., and P. Broc, New York, N. Y., assignors to American Telephone and Telegraph Company. Straightforward trunking system. 1,638,430; Aug. 9.
- Bailey, Rand S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Straightforward trunking system. 1,641,218; Sept. 6.
- Bailey, Raymond K., Nogales, Ariz. Nut-bowl fitting. 1,639,277; Aug. 16.
- Bailey, Rufus W., Kansas City, Mo. Automotive vehicle. 1,628,350; May 10.
- Bailey, Thomas, Christchurch, Canterbury, New Zealand. Cut-out insulator. 1,652,693; Dec. 13.
- Bailey, William E., Mansfield, Ohio. Combination double boiler and steamer. 1,647,209; Nov. 1.
- Bailey, William F., Canton, Ohio, assignor to The Hoover Company. Die-casting machine. 1,654,157; Dec. 27.
- Bailey, William M., Company. (See Tobin, John M., assignor.)
- Bailey, William R., Elmhurst, Ill. Automobile bed. 1,625,515; Apr. 19.
- Baillie, Cecilie, Camden, N. J. Brassière anchor. 1,622,269; Mar. 29.
- Baily, Milner B., Dunlap, Ill. Scrubbing machine. 1,627,263; May 3.
- Baily, Robert W., Pittsburgh, Pa. Floor clip. 1,622,697; Mar. 29.
- Baily, Thaddeus F., Alliance, Ohio. Annealing machine. 1,624,204; Jan. 12.
- Baily, Thaddeus F., Alliance, Ohio. Electrode control for arc furnaces. 1,634,483; July 5.
- Baily, Thaddeus F., Alliance, Ohio. Electric annealing hood. 1,643,600; Sept. 27.
- Bain, Benjamin F., Pittsburgh, Pa. Game board. 1,621,185; Mar. 15.
- Bain, Benjamin F., Cedar Rapids, Iowa. Seed-corn drying rack. 1,638,651; Aug. 9.
- Bain, Carl C., assignor to Wolverine Supply and Manufacturing Company, Pittsburgh, Pa. Vacuum sweeper. 1,621,919; Mar. 22.
- Bain, John, et al. (See Geake, William H. G., assignor.)
- Bain, Robert T., Chicago, Ill. Electric signal for vehicles. 1,614,706; Jan. 13.
- Bainbridge, George K., and S. W. Reynolds, Ripon, Calif. Container. 1,641,408; Sept. 6.
- Bainster, Milford, Columbus, Ohio, assignor to S. Obermayer Company, Chicago, Ill. Furnace arch. 1,644,166; Oct. 4.
- Bair-Collins Company. (See Stoiberg, Anders J., assignor.)
- Baird, Dudley. (See Hartley, H. J., Fowler, and Baird.)
- Baird, Frank T., Blue Island, Ill., assignor to French Battery & Carbon Company, Madison, Wis. Electric lantern battery. 1,627,264; May 3.
- Baird, George W. (See Emker, F. S., and Baird.)
- Baird, Glen W., and A. Lamb, Drummond, Idaho. Motor-driven toothbrush. 1,631,394; June 7.
- Baird, Hazen B., New York, N. Y. Hair-waving apparatus. 1,631,571; June 7.
- Baird, L. D., et al. (See Hendrickson, Dan C., assignor.)
- Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
- Baird, Stuart G. (See Fekete, S. I., and Baits.)
- Bajac Manufacturing Co. (See Batcheller, Hugh W., assignor.)
- Bakelite Corporation. (See Bakeland, Leo H., assignor.)
- Bakelite Corporation. (See Bender, Howard L., assignor.)
- Bakelite Corporation. (See Rossi, Louis M., assignor.)
- Baker, Andrew J., St. Louis, Mo. Dirigible headlight. 1,615,455; Jan. 25.
- Baker, Arnold W., Cooper Hill, Mo. Pulley block. 1,636,273; July 19.
- Baker, Arthur J., assignor to The Willys-Overland Company, Toledo, Ohio. Internal-combustion engine. 1,620,936; Mar. 15.
- Baker, Arthur J., assignor to The Willys-Overland Company, Toledo, Ohio. Engine mounting. 1,652,159; Dec. 13.
- Baker, Arthur R., assignor to I. T. Swartz, Indianapolis, Ind. Oil burner. 1,613,781; Jan. 11.
- Baker, Arthur R., assignor to I. T. Swartz, Indianapolis, Ind. Thermostat control. 1,638,907; Aug. 16.
- Baker, Arthur R., assignor to I. T. Swartz, Indianapolis, Ind. Fastening clamp. 1,646,636; Oct. 25.
- Baker, Arthur R., assignor to I. T. Swartz, Indianapolis, Ind. Oil burner. 1,646,637; Oct. 25.
- Baker, Bertram F., Tannersville, N. Y. Dispensing-tube holder. 1,620,748; Mar. 15.
- Baker Brothers Glass Company. (See Scohy, John R., assignor.)
- Baker Brothers Glass Company of Okmulgee, Oklahoma. (See Waters, Thomas F., assignor.)
- Baker, Butler, Haymarket, Va. Shaft and cross-bar connection. 1,613,011; Jan. 4.
- Baker, Butler, Haymarket, Va. Clothes form. 1,630,820; May 31.
- Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)
- Baker, Charles H., New Haven, Conn. Toy telephone. 1,651,080; Nov. 29.
- Baker, Charles H., assignor to Firestone-Apsley Rubber Company, Hudson, Mass. Overshoe and manufacturing the same. 1,644,364; Oct. 4.
- Baker, Clair A., Detroit, Minn. Ventilating screen for automobiles. 1,638,610; Aug. 9.
- Baker, Clyde J., Wellington, Tex. Cotton cleaner. 1,619,178; Mar. 1.
- Baker & Company. (See Brainin, Clement S., assignor.)
- Baker & Company. (See Coby, E. A., Maehlen, and Van Allen, assignors.)
- Baker, David, Los Angeles, Calif. Interliner. 1,620,054; Mar. 8.
- Baker, David B. (See Anthony, J. E., and Baker.)
- Baker, David B., Chicago, Ill., assignor to International Harvester Company. Internal-combustion engine. 1,639,449; Aug. 16.
- Baker, Edgar N., assignor to The Robbins & Myers Company, Springfield, Ohio. Electric motor. 1,627,949; May 10.
- Baker, Edward C. (See Baker, George B., H. B., and E. C.)
- Baker, Edwin, Winn, Me. Ice-cream-cone holder. 1,643,735; Sept. 27.
- Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation. Wire-spoke wheel. 1,653,612; Dec. 27.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Hub construction for demountable wheels. 1,615,253; Jan. 25.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Vehicle wheel. 1,627,360; May 3.
- Baker, Erle K., assignor to Baker Reduction Gear Company, Detroit, Mich. Planetary reduction gear. 1,637,847; Aug. 2.
- Baker, Erle K., assignor to Baker Reduction Gear Company, Detroit, Mich. Planetary reduction gear. 1,644,222; Oct. 4.
- Baker, Frank E. (See Adler, Harry, assignor.)
- Baker, Frank E., assignor to Chapin-Skelton Corporation, Syracuse, N. Y. Valve for garment-pressing machines. 1,641,132; Aug. 30.
- Baker, Frank E., and W. L. Taylor, assignors to Chapin-Skelton Corporation, Syracuse, N. Y. Garment-pressing machine. 1,641,131; Aug. 30.
- Baker, Frank W., East Aurora, N. Y. Windmill. 1,636,797; July 26.
- Baker, Frederick W., et al. (See Baker, Thomas T., assignor.)
- Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation. Vehicle wheel. 1,619,802; Mar. 8.

- Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation. Demountable wheel rim. 1,622,270; Mar. 29.
- Baker, George B., H. B., and E. C., Brockton, Mass. Tack machine. 1,618,628; Feb. 22.
- Baker, George E., Chicago, Ill. Collapsible tube with an unlosable cap. 1,637,890; Aug. 2.
- Baker, George O., assignor to Feed Water De-Scaling Corporation. Assignor to Joseph L. Water purifier. 1,647,495; Nov. 1.
- Baker, George R., and W. E. Prescott, London, and C. W. Gilderdale, New Earswick, assignors to Rowntree and Company Limited, York, England. Method and apparatus for grading solid materials. 1,623,040; Apr. 5.
- Baker, George S., London, England, assignor to Joseph Baker, Sons and Perkins Company Incorporated, White Plains, N. Y. Machine for use in the manufacture of biscuits and the like. 1,618,906; Feb. 22.
- Baker, George S., London, England, assignor to Baker-Perkins Company, Inc., White Plains, N. Y. Machine for molding plastic confections. 1,651,242; Nov. 29.
- Baker, George S., London, England, assignor to Baker-Perkins Co. Inc., Saginaw, Mich. Machine for use in the manufacture of biscuits. 1,651,243; Nov. 29.
- Baker, Gilbert L., Oakland, Calif. Glare shield for electric lamps. 1,644,937; Oct. 4.
- Baker, Hal, and J. L. Moore, Springfield, Ill. Bottle holder. 1,654,477; Dec. 27.
- Baker, Harold U., et al. (See Jones, Winfield S., assignor.)
- Baker, Harry L., Elmira, N. Y., assignor to Owen Card Publishing Co. Inc. Display box. 1,631,080; May 31.
- Baker, Harry R. (See Mudd, Garrett W., assignor.)
- Baker, Harry S. (See Motherwell, J. W., and Baker.)
- Baker, Herbert B. (See Baker, George B., H. B., and E. C.)
- Baker, Hubert B., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Traveling crane. 1,652,265; Dec. 13.
- Baker Ice Machine Company of Texas. (See Hillard, John J., assignor.)
- Baker, J. L. (See Hoeschen, Henry A., assignor.)
- Baker, Jesse H., Phoenix, Ariz. Auto bumper-clamp luggage carrier. 1,648,211; Nov. 8.
- Baker, John, Hadenworth, Birmingham, England. Etching apparatus. 1,643,234; Sept. 20.
- Baker, John, Brooklyn, N. Y. Boat-propelling mechanism. 1,643,535; Sept. 27.
- Baker, John C., Lake Bluff, assignor to Fanstel Products Company, Inc., North Chicago, Ill. Making breaker arms. 1,625,697; Apr. 19.
- Baker, John F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,638,908; Aug. 16.
- Baker, John F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Rotary furnace. 1,638,909; Aug. 16.
- Baker, John H., Detroit, Mich. Boiler. 1,646,382; Oct. 25.
- Baker, Joseph, Sons and Perkins Company Incorporated. (See Baker, George S., assignor.)
- Baker, Leslie M., Evanston, Ill. Valve mechanism. 1,613,012; Jan. 4.
- Baker, Linnaeus E., assignor to Wayne Company, Fort Wayne, Ind. Liquid-dispensing apparatus. 1,622,561; Mar. 29.
- Baker, Linnaeus E., assignor to Wayne Company, Fort Wayne, Ind. Safety mechanism for dispensing apparatus. 1,634,817; July 5.
- Baker, Linnaeus E., assignor to Wayne Company, Fort Wayne, Ind. Liquid measuring and dispensing apparatus. 1,637,251; July 26.
- Baker Manufacturing Company, The. (See Staley, Raleigh H., assignor.)
- Baker, Mark, Boston, England. Apparatus for cutting lard, butter, or margarine. 1,627,007; May 3.
- Baker, Max L. (See Danks, R. L., and Baker.)
- Baker, Milo A., Los Angeles, Calif. Fabricating structural members. 1,619,232; Mar. 1.
- Baker, Milo A., Los Angeles, Calif. Drilling apparatus. 1,622,084; Apr. 5.
- Baker, Nelson M. (See Tillyer, E. D., and Baker.)
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic-rim stretcher. 1,632,266; June 14.
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Grindstone. 1,647,722; Nov. 1.
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Bevel-edging machine. 1,651,501; Dec. 6.
- Baker, Nelson M., and F. Fraser, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,635,881; July 12.
- Baker, Norman G., Muscatine, Iowa. Tracker bar. 1,619,690; Mar. 1.
- Baker, Oscar H., New York, N. Y. Milk bottle. 1,623,459; Apr. 5.
- Baker, Otis M. C., assignor of one-fourth to J. de Paolo, Jeannette, Pa. Septic tank. 1,641,460; Sept. 6.
- Baker-Perkins Company. (See Baker, George S., assignor.)
- Baker-Perkins Company. (See Engels, Eugene O., assignor.)
- Baker Perkins Company. (See Gase, Eugene, assignor.)
- Baker-Perkins Company. (See Harber, Laurence S., assignor.)
- Baker-Perkins Company. (See Head, R., and Prescott, assignors.)
- Baker-Perkins Company. (See Hickey, Harry W., assignor.)
- Baker Perkins Company. (See Michallat, Francis J., assignor.)
- Baker Perkins Company. (See Pletscher, Carl, assignor.)
- Baker-Perkins Company. (See Prescott, William E., assignor.)
- Baker Perkins Company. (See Reiger, Carl S., assignor.)
- Baker Perkins Company. (See Tiedke, Hans F., assignor.)
- Baker Perkins Limited. (See Dewhurst, Frank, assignor.)
- Baker-Raulang Company, The. (See Hertzner, J. H., and Remde, assignors.)
- Baker-Raulang Company, The. (See Remde, Edward H., assignor.)
- Baker-Raulang Company, The. (See Stahl, Edward J., assignor.)
- Baker-Raulang Company, The. (See Stoner, Frank, assignor.)
- Baker Reduction Gear Company. (See Baker, Erle K., assignor.)
- Baker, Reuben C., Coalinga, Calif., assignor to Baker Casing Shoe Company. Well-drill-pipe float coupling. 1,631,509; June 7.
- Baker, Reuben C., Coalinga, Calif., assignor to Baker Casing Shoe Company. Counterbalance. 1,636,274; July 19.
- Baker, Robert D. (See Wolfinger, J., and Baker.)
- Baker, Robert D., Birmingham, Mich. Fine-grading machine for highway construction. 1,653,333; Dec. 20.
- Baker, Stephen D., New York, N. Y. Soap holder with ring cup. Des. 73,734; Nov. 1.
- Baker, Stephen D., New York, N. Y. Razor cabinet. Des. 73,954; Nov. 29.
- Baker, Stephen D., New York, N. Y. Razor-blade container. Des. 73,993; Dec. 6.
- Baker, Stephen D., New York, N. Y. Container for used safety-razor blades. 1,651,987; Dec. 6.
- Baker, Sylvester A., San Francisco, Calif. Radio loud speaker. Des. 73,363; Aug. 30.
- Baker, Thaddeus R. (See Wickersham, Roy D., assignor.)
- Baker, Thomas, assignor to Chase Companies, Inc., Watertown, Conn. Combined metal and fiber gasket. 1,618,796; Feb. 22.
- Baker, Thomas T., assignor of one-third to C. C. Watson and one-third to F. W. W. Baker, London, England. Apparatus for transmitting pictures. 1,614,339; Jan. 11.
- Baker Vawter Company. (See Andersson, Axel H., assignor.)
- Baker-Vawter Company. (See Read, Howard W., assignor.)
- Baker-Vawter Company. (See Steenrod, William J., assignor.)
- Baker, Walter, assignor to Speeder Machinery Corporation, Fairfield, Iowa. Tread member for traction devices. 1,617,615; Feb. 15.
- Baker, Walter R. G., Schenectady, N. Y., assignor to General Electric Company. Electric condenser. 1,631,665; June 7.
- Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
- Baker, William D., Trona, Calif. Nonglare road and car illuminating headlight. 1,642,190; Sept. 13.
- Baker, William E., et al., trustees. (See Baker, William E., assignor.)
- Baker, William E., assignor to W. E. Baker and G. A. Franz, trustees of the Web Engineering Company, Cleveland, Ohio. Valve. 1,620,315; Mar. 8.
- Baker, William H., Montreal, Quebec, Canada. Cloth-roll mounting for looms. 1,635,024; July 5.
- Baker, William H., assignor to F. W. Fairman, Montreal, Quebec, Canada. Loom. 1,634,818; July 5.
- Baker, William H., Montreal, Quebec, Canada, and J. Dewhurst, Methuen, Mass., and Baker assignor to said Dewhurst. Shuttle-checking device for looms. 1,619,847; Mar. 8.
- Baker, William J. (See Harriger, M. W., and Baker.)
- Bakeries Service Corporation. (See Johnson, Olaf W., assignor.)
- Baker, Laurits K. O., Emmetsburg, Iowa. Tripping mechanism for binders. 1,620,055; Mar. 8.
- Bakken, Andrew H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,649,011; Nov. 15.
- Baker, Manton, Grundy Center, Iowa. Ear-corn cleaner. 1,625,779; Mar. 22.
- Bakula, Frank A., assignor to Gross Chandler Co., St. Louis, Mo. Lighting fixture. Des. 73,887; Nov. 22.
- Bakula, Frank A., assignor to Gross Chandler Co., St. Louis, Mo. Lighting fixture. Des. 73,888; Nov. 22.
- Balachowsky, Dmitry, and P. Cedre, Paris, France. Utilizing hydrocarbons in internal-combustion engines and apparatus therefor. 1,630,048; May 24.
- Balaun, John J., Canton, Ohio. Axle drive. 1,613,371; Jan. 4.
- Balazs, Dezzo, San Francisco, Calif. Clasp for hand bags and like receptacles. 1,642,886; Sept. 20.
- Balcerzak, Frank, Milwaukee, Wis. Valveless two-cycle motor. 1,639,100; Aug. 16.
- Balcerzak, Frank, Milwaukee, Wis. Combined cap remover and milk-bottle top. 1,642,396; Sept. 13.

- Balch, Burdette M., assignor to The Miller Rubber Company, Akron, Ohio. Cutting sponge rubber. 1,617,511; Feb. 15.
- Balcon, Charles A. (See Reynolds, Joy S., assignor.)
- Baldard, Richard. (See Fecher, F. F., Danheiser, and Baldwin.)
- Baldwin, Carter, Wilmington, Del. Picture. 1,628,640; May 17.
- Baldwin, Clarence D., Bellingham, Wash. Embroidery-hoop clamp. 1,631,355; June 7.
- Baldwin Company, The. (See Tower, Herschel E., assignor.)
- Baldwin, Donald C., New York, N. Y. Picture hanger. 1,637,981; Aug. 2.
- Baldwin, Earl F., and F. E. Woods, assignors to American Fibre Corporation, Gardner, Mass. Winding mechanism. 1,649,012; Nov. 12.
- Baldwin, Elvora E., Rand, Colo. Marcel hair waver. 1,627,590; May 10.
- Baldwin, George B., Plainfield, N. J., assignor to J. Robinson, Westmount, Quebec, Canada. Train-pipe connector. 1,630,998; May 31.
- Baldwin, Hobart M., and H. M. Tremor, Gary, W. Va. Thermostatic circuit closer. 1,648,752; Nov. 8.
- Baldwin, James E., Hempstead, N. Y. Submersible pump. 1,638,867; Aug. 9.
- Baldwin, James G., New York, N. Y. Decorative lighting device. Des. 72,690; May 24.
- Baldwin, James L., Chicago, Ill. Clutch. 1,632,159; June 14.
- Baldwin, James P., Los Angeles, Calif. Shock absorber. 1,638,232; Aug. 9.
- Baldwin, James P., Los Angeles, Calif. Shock absorber. 1,638,234; Aug. 9.
- Baldwin, James P., Los Angeles, Calif. Shock absorber. 1,638,235; Aug. 9.
- Baldwin, James P., and R. A. Keese, Los Angeles, Calif.; said Keese assignor to said Baldwin. Shock absorber. 1,638,233; Aug. 9.
- Baldwin, Leslie A., University City, Mo., and E. R. Seuffer, Crestwood, assignors to Johns-Manville Incorporated, New York, N. Y. Device for preventing electrical ignition of stored inflammable fluids. 1,617,788; Feb. 15.
- Baldwin Locomotive Works, The. (See Hance, Lawrence W., assignor.)
- Baldwin Locomotive Works, The. (See McCarroll, William J., assignor.)
- Baldwin Locomotive Works, The. (See Neebe, Lawrence L., assignor.)
- Baldwin Locomotive Works, The. (See Rushton, Kenneth, assignor.)
- Baldwin Locomotive Works, The. (See Shannon, Ellwood M., assignor.)
- Baldwin Locomotive Works. (See Vauclain, Samuel M., assignor.)
- Baldwin Locomotive Works, The. (See Wille, H. V., Campbell, and Etherington, assignors.)
- Baldwin, Mary, Jackson Heights, N. Y., assignor of one-half to Fritz Ziegler, jr., New York, N. Y. Hand bag. 1,643,440; Sept. 27.
- Baldwin, Oliver W., Gary, Ind. Combination salt and pepper shaker. Des. 73,424; Sept. 13.
- Baldwin, Oliver W., Gary, Ind. Combination salt and pepper shaker. 1,644,811; Oct. 11.
- Baldwin, Ralph S., and W. A. Johnston, Spokane, Wash. Mineral separator. 1,632,210; June 14.
- Baldwin, Ralph S., and W. A. Johnston, Spokane, Wash. Mineral separator. 1,648,333; Nov. 8.
- Baldwin, Raymond J., Wisconsin, Pa. Combination radiator connection. 1,633,511; June 21.
- Baldwin, Robert W., jr., Islip, N. Y. Key retainer. 1,616,407; Feb. 1.
- Baldwin, Van V. (See Conrad, David E., assignor.)
- Baldwin, Walter L., Syracuse, N. Y. Automobile signal. 1,618,907; Feb. 22.
- Baldwin, William A., Haiku, Hawaii. Pineapple stump-shredder and harrow. 1,628,101; May 10.
- Baldwin, William C. P., London, Ontario, Canada. Direction indicator. 1,633,303; June 21.
- Baldwin, William M., assignor to J. R. McCardell & Co., Trenton, N. J. Extension tower. 1,638,611; Aug. 9.
- Baldygar, Stephan, Racine, Wis. Photograph. 1,625,446; Aug. 19.
- Balfour, Guthrie & Co. (See Jones, Paul R., assignor.)
- Balke, Clarence W., Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Tungsten welding. 1,651,662; Dec. 6.
- Balke, Paul, and G. Leysieffer, Troisdorf, Germany. Phonographic record. 1,627,227; May 3.
- Balken, Henry J. (See Glassel, Herbert, assignor.)
- Balkenbush, Joseph J., Fowler, Colo. Protective device for vaults. 1,645,368; Oct. 11.
- Ball, Arthur H., Buffalo, N. Y. Fence. 1,637,136; July 26.
- Ball, Ben A., assignor to American Textile Co., Inc. Pawtucket, R. I. Lace. Des. 73,681; Oct. 25.
- Ball, Ben A., assignor to American Textile Co., Inc. Pawtucket, R. I. Lace. Des. 73,682; Oct. 25.
- Ball, Ben A., assignor to American Textile Co., Inc. Pawtucket, R. I. Lace. Des. 73,683; Oct. 25.
- Ball, Ben A., assignor to American Textile Co., Inc. Pawtucket, R. I. Lace. Des. 73,684; Oct. 25.
- Ball, Ben A., assignor to American Textile Co., Inc. Pawtucket, R. I. Lace. Des. 74,044; Dec. 13.
- Ball Brothers Company. (See Schram, Alexander L., assignor.)
- Ball, Carl L. (See Reynolds, J. W., and Ball.)
- Ball, Charles M., jr., Denver, Colo. Drink mixer. 1,633,470; June 21.
- Ball, Edmund B. (See Hurst, J. E., and Ball.)
- Ball, Everett R., assignor of one-half to C. E. Monckton, Quincy, Ill. Scoop scale. 1,620,000; Mar. 8.
- Ball, Guy M., Dayton, Ohio. Quenching fluid. 1,635,025; July 5.
- Ball, Harry V., Concord, Mass., assignor to R. Hoe & Co., Inc., New York, N. Y. Adjustable ink-pump rail. 1,644,724; Oct. 11.
- Ball, John H., Kirkwood, Mo. Card-holding muntin clasp. 1,648,103; Nov. 8.
- Ball, John P., Chicago, Ill. Marine wall construction. 1,629,470; May 24.
- Ball, Joseph A., Cambridge, assignor to Technicolor Motion Picture Corporation, Boston, Mass. Cinematograph printer light control. 1,613,339; Jan. 4.
- Ball, Joseph A., Los Angeles, Calif., assignor to Technicolor Motion Picture Corporation, Boston, Mass. Making composite color pictures. 1,641,566; Sept. 6.
- Ball, Joseph S., assignor of one-half to J. N. Miller, Denver, Colo. Railway brake mechanism. 1,620,508; Mar. 8.
- Ball, Percy B., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Hand mirror or similar article. Des. 72,056; Feb. 22.
- Ball, Rowland Z., Los Angeles, Calif. Tortilla machine. 1,613,867; Jan. 11.
- Ball, Samuel S., Bethlehem, Pa. Apparatus for compressing ingots. 1,633,970; June 28.
- Ballou, Elizabeth. (See Benson, Walter M., assignor.)
- Ballantine, Stuart, White Haven, Pa., assignor to Electrical Research Laboratories, Inc., Chicago, Ill. Escutcheon plate for radioreceivers. Des. 72,138; Mar. 8.
- Ballard, Arthur H., Boston, Mass. Window. 1,614,942; Jan. 18.
- Ballard, Arthur H., Boston, Mass. Aeroplane runway. 1,645,494; Oct. 11.
- Ballard, Arthur H., assignor to Ballard Oven Corporation, Boston, Mass. Baking oven. 1,625,761; Apr. 19.
- Ballard, Ernest S., Eureka, Calif. Printing form and producing same. 1,643,046; Sept. 20.
- Ballard, Harrie A., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Channeling machine. 1,623,225; Apr. 5.
- Ballard, Harrie A., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Channeling machine. 1,623,226; Apr. 5.
- Ballard, Harrie A., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Hand tacker. 1,643,364; Sept. 27.
- Ballard, Harrie A., assignor to General Shoe Machinery Company, Boston, Mass. Innersole-forming machine. 1,645,515; Oct. 8.
- Ballard, Harrie A., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-trimming machine. 1,652,694; Dec. 13.
- Ballard, Herbert T., Norristown, Pa. Pattern-producing means for knitting machines. 1,613,804; Jan. 4.
- Ballard, John L., Denver, Colo. Typewriting-machine attachment. 1,628,102; May 10.
- Ballard, Lou S., Seward, Ira W., assignor.)
- Ballard, Milton H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Controlling means for machines. 1,620,001; Mar. 8.
- Ballard, Milton H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Starting and stopping mechanism. 1,640,871; Aug. 30.
- Ballard, Milton H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Strip-attaching means. 1,645,641; Oct. 18.
- Ballard, Milton H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Starting and stopping device for machines. 1,652,229; Dec. 13.
- Ballard, Milton H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,652,513; Dec. 13.
- Ballard Oven Corporation. (See Ballard, Arthur H., assignor.)
- Ballard Service Corporation. (See Goodridge, George E., assignor.)
- Ballash, Joseph L., assignor to The Cleveland Stone Company, Cleveland, Ohio. Grinding machine. 1,644,812; Oct. 11.
- Balle, Gerhard. (See Dalmier, K., Marschall, and Balle.)
- Ballenger, Edgar G., Atlanta, Ga. Recording dial for radiosets. 1,617,191; Feb. 8.
- Balletto, Paul, Long Island City, N. Y. Separator. 1,650,480; Nov. 22.
- Ballew, James C., Akron, Ohio. Tire and rim. 1,637,599; Aug. 2.
- Balin, Frederick A., Los Angeles, Calif. Dishwashing machine. 1,633,803; June 28.
- Ballman, Edward C. (See Mattern, P. J., and Walter, assignors.)
- Ballman, Edwin C., St. Louis, Mo. Attachment plug. 1,636,798; July 26.
- Balloon Rubber Heel Company. (See Norwood, Harry G., assignor.)
- Ballot, Ernest M., Paris, France. Valve-operating mechanism. 1,633,882; June 28.

- Ballot, Ernest M., Paris, France. Braking device for vehicles. 1,640,519; Aug. 30.
- Ballot, Ernest M., Paris, France. Suspension for vehicles. 1,654,447; Dec. 27.
- Ballou, B. A., & Co. (See Ballou, Frederick A., Jr., assignor.)
- Ballou, B. A., & Co. (See Ballou, F. A., and Stafford, assignors.)
- Ballou, B. A., & Co. (See Morehouse, Eugene, assignor.)
- Ballou, Frederick A., Jr., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Display card. 1,617,742; Feb. 15.
- Ballou, Frederick A., Nayatt, and R. T. Stafford, East Providence, assignors to B. A. Ballou & Co., Inc., Providence, R. I. Ornamentation for shoes. 1,650,104; Aug. 23.
- Ballou, George C., San Jose, Calif. Luggage carrier for automobiles. 1,647,120; Nov. 1.
- Ballou, Howard M. (See Ballou, Walter B. and H. M.)
- Ballou, John M. (See Bolzer, V. W. and Ballou.)
- Ballou, Walter B. and H. M., North Attleboro, Mass. Bottle closure. 1,653,490; Dec. 20.
- Balldreich, Charles A., Los Angeles, Calif. Ice-cream freezer. 1,653,978; Dec. 27.
- Balls, Arnold K. (See Hixson, A. W., and Balls.)
- Balls, Arnold K., Philadelphia, Pa. Preserving cane juice. 1,634,348; July 5.
- Balls, Arnold K., Philadelphia, Pa. Propagating yeasts. 1,642,192; Sept. 13.
- Balls, Arnold K., Philadelphia, Pa. Food product. 1,642,320; Sept. 13.
- Balls, Arnold K., Philadelphia, Pa. Drying yeast. 1,643,047; Sept. 20.
- Balluff, Edward J., assignor of one-half to H. A. Fitzgibbons, Chicago, Ill. Automatic current-controlling mechanism or switch. 1,641,146; Sept. 6.
- Ballweber, Harvey M. (See Donowho, R. W., and Ballweber.)
- Balmer, Irvin, Aledo, Ill. Jumping jack. 1,622,562; Mar. 29.
- Balmer, John H., Maplewood, N. J. Combination bathroom fixture. Des. 72,543; May 3.
- Balmer, John H., Maplewood, N. J. Combination bathroom fixture. Des. 72,544; May 3.
- Balmer, John H., Maplewood, N. J. Combination bathroom fixture. Des. 72,591; May 24.
- Balogh, Louis, assignor of one-fourth to J. Katona, one-eighth to I. Pacozdi, and one-eighth to I. Pacozdi, Niagara Falls, Ontario, Canada. Resilient wheel for bicycles. 1,630,920; May 31.
- Balsh, Wilmer G., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Switchboard. 1,626,680; May 3.
- Balsille, John G., Melbourne, Victoria, Australia, assignor, by mesne assignments, to The American Flatlite Company, Cincinnati, Ohio. Light-projecting reflector. 1,639,563; Aug. 10.
- Balsley, Frederick M., Madison, Wis. Marker for pavements. 1,623,297; Apr. 5.
- Balston, Clyde C., New York, N. Y. Typewriting machine. 1,619,691; Mar. 1.
- Balston, Clyde C., New York, N. Y. Photographic camera. 1,627,722; May 10.
- Balston, Clyde C., New York, N. Y. Transmitting mechanism. 1,631,572; June 7.
- Balthasar, John, and H. Gentz, Jersey City, N. J. Automatic safety gas cock. 1,642,007; Sept. 13.
- Baltimore & Ohio Railroad Company. (See Dennis, Olive W., assignor.)
- Baltimore Enamel & Novelty Company, The. (See Langer, Henry, assignor.)
- Baltimore Paper Company. (See Berkowitz, Eugene B., assignor.)
- Baltzer, Henry P., Hamburg, N. Y. Adjustable securing device for trusses. 1,640,229; Aug. 23.
- Baltzley, Louis E., Glen Ridge, N. J. Closure. 1,620,316; Mar. 8.
- Baltzley, Louis E., Glen Ridge, N. J. Traffic signal. 1,632,211; June 14.
- Baltzley, Louis E., Glen Ridge, N. J. Adjusting device. 1,632,212; June 14.
- Balt, Ramon R., Kingston, Pa. Dyeing fur. 1,648,889; Nov. 15.
- Balzano, James, New York, N. Y. Valve-locking attachment. 1,650,481; Nov. 22.
- Balzarin, Felice. (See Fountain, A., Balzarini, and Thiel.)
- Balzer, Fritz, Moline, assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Cylinder construction. 1,622,275; Mar. 29.
- Balzer, Fritz, Moline, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Garment press. 1,625,071; Apr. 19.
- Balzer, Fritz, Moline, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Door mechanism for washing machines. 1,630,513; May 31.
- Balzer, Vernon W., and J. M. Ballou, assignors to C. V. Burke, Los Angeles, Calif. Collection car. 1,640,275; Aug. 30.
- Balzer, Vernon W., and J. M. Ballou, Los Angeles, Calif. Speed-selecting device. 1,640,872; Aug. 30.
- Bambach, John J., and W. W. Collins, Wilkes-Barre, Pa. Liquid-dispensing apparatus. 1,631,454; June 7.
- Bamber, Joseph, and J. I. Mundell, Groton, Conn. Mechanical baseball game. 1,617,789; Feb. 15.
- Bamberger, Otto, Duisburg, Germany. Tube mill and process. 1,617,936; Feb. 15.
- Bamberger, Peter, Denver, Colo. Improving the tone of stringed instruments. 1,622,484; Mar. 29.
- Bamberger, Udo, Eberswalde, near Berlin, Germany. Crane. 1,653,834; Dec. 27.
- Bambini, Aurelio, Seward, Pa. Aeroplane. 1,631,187; Feb. 7.
- Bambini, Aurelio, and C. Nascivera, McKees Rocks, Pa. Knife guard. 1,614,772; Jan. 18.
- Bamford, Cyril J. (See Bamford, Joseph and C. J.)
- Bamford, Frank L., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp catch. 1,626,593; May 3.
- Bamford, Frank L., assignor to C. M. Hall Lamp Company, Detroit, Mich. Light. 1,652,192; Dec. 13.
- Bamford, Joseph and C. J., Utttoxeter, England. Tine for haymaking and like machinery. 1,631,455; June 7.
- Banach, Martha, New York, N. Y. Hair waver. 1,618,144; Feb. 15.
- Banbury, Cecil E., London, England. Tent or shelter. 1,644,664; Oct. 11.
- Banbury, Fernley H., assignor, by mesne assignments, to Ford-Sirringham Company, Incorporated, Ansonia, Conn. Heat-exchange roll. 1,651,502; Dec. 6.
- Bancel, Paul A., Nutley, and J. F. Kirgan, Phillipsburg, assignors to Ingersoll-Rand Company, Jersey City, N. J. Pump controller. 1,619,098; Mar. 1.
- Bancel, Paul A., Nutley, assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,627,265; May 3.
- Bancel, Paul A., Nutley, assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,628,487; May 10.
- Bandy, Robert W., Seattle, Wash. Matrix-drying cabinet and treating matrices. 1,649,647; Nov. 15.
- Bank, Peter, Chicago, Ill. Antiseptic adhesive tape. 1,630,596; May 31.
- Bank, Peter, Chicago, Ill. Adhesive tape. 1,630,597; May 31.
- Bang, Henry, assignor of two-fifths to T. Carstensen, Chicago, Ill. Freight-car door. 1,623,652; Apr. 5.
- Bang, Otto D., Los Angeles, Calif. Measuring device. 1,647,556; May 1.
- Bang, Heinrich, Dusseldorf, Germany. Furnace. 1,649,648; Nov. 15.
- Bangerter, Adolf, New Brighton, N. Y. Mechanical toy. 1,619,179; Mar. 1.
- Bangs, Edwin Q., assignor to Hamilton Beach Mfg. Co., Racine, Wis. Motor mounting. 1,645,680; Oct. 18.
- Bangs, Ralph C. (See Frank, H. C., and Bangs.)
- Bangser, William, New York, N. Y., assignor to Maimin Speed Control Corporation, Mounting for sewing-machine motors. 1,632,781; June 21.
- Banigan, Thomas F. (See Bassett, H. P., and Banigan.)
- Banika, William, Stamford, Ontario, Canada. Circuit closer. 1,625,973; Apr. 26.
- Bank, Edward C., Berkeley, Calif. Sprinkler stand. 1,649,649; Nov. 15.
- Bank of America, The, et al., executors. (See Sperry, Lawrence B.)
- Banka, John H., Battle Creek, Mich. Rim tool. 1,638,676; Aug. 9.
- Banker, Garrett N., Kew Gardens, N. Y. Remedy for sea-sickness. 1,634,315; July 5.
- Banker, Oscar H., Chicago, Ill. Band-saw sharpener. 1,634,281; July 5.
- Bankers Savings & Credit System Company, The. (See Habart, Joseph, assignor.)
- Bankers Savings & Credit System Company, The. (See Moffett, Marcus H., assignor.)
- Bankers Trust Company. (See Whitaker, John, assignor.)
- Bankette Company, The. (See Perkins, Frederic G., assignor.)
- Banks, Harry P. (See Davidson, G., Rippey, Cone, Laucks, and Banks.)
- Banks, Henry W. 3d. (See Loomis, C. C., and Banks.)
- Banks, Michael J., Biloxi, Miss. Hydrocarbon burner. 1,615,321; Jan. 25.
- Banks, Reeve H., assignor to Pittsburgh Producers Supply Company, Pittsburgh, Pa. Sheet-metal belt. 1,638,466; Aug. 9.
- Bankson, William R., Pittsburgh, Pa. Conveyor. 1,625,347; Apr. 19.
- Bannen, William, assignor of one-half to F. Hickstein, Milwaukee, Wis. Corrugated base for pavements. 1,641,655; Sept. 6.
- Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Oil engine. 1,625,113; Apr. 19.
- Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Oil engine. 1,634,132; June 28.
- Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Oil engine. 1,642,137; Sept. 13.
- Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Oil engine. 1,644,556; Oct. 4.
- Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Oil engine. 1,644,557; Oct. 4.
- Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Fuel-injection system for oil engines. 1,644,769; Oct. 11.
- Banning, Thomas A., Jr. (See Morrissey, George, assignor.)
- Banning, Thomas A., Jr., Wilmette, Ill. Fuel feeding and metering systems and apparatus. 1,631,356; June 7.

- Banning, Thomas A., jr., Wilmette, Ill. Locomotive power-reversing gear. 1,642,193; Sept. 13.
- Banning, Thomas A., jr., Chicago, Ill. System and apparatus for feeding and metering fuel and the like. 1,652,514; Dec. 18.
- Banning, Thomas A., jr., Wilmette, Ill. Fuel feeding and metering system. 1,652,515; Dec. 13.
- Bannings, Herman P., Muskegon, Mich. Dustless ash system. 1,657,982; Aug. 2.
- Bannister, Alfred E., Duluth, Minn. Mechanical shovel. 1,650,255; Nov. 22.
- Bannister, Grant A., Bridgeport, Conn. Dispensing apparatus. 1,650,179; Nov. 22.
- Bannon, Thomas C., et al. (See Dixon, Abner F., assignor.)
- Bannon, Thomas F., assignor of one-half to S. T. Willis, Cleveland, Ohio. Portable sheet-metal shears. 1,651,176; Nov. 29.
- Banschbach, Edward A., Chicago, Ill. Buffer. 1,647,766; Nov. 1.
- Bansley, William M. (See Booty, Philip C. P., assignor.)
- Banta, Clare W., San Francisco, Calif. Deposit safe. 1,635,730; Jan. 12.
- Banting Manufacturing Company, The. (See Lundquist, Herman A., assignor.)
- Bany, Herman, Scotia, N. Y., assignor to General Electric Company. Automatic switching system. 1,615,669; Jan. 25.
- Bany, Herman, Scotia, N. Y., assignor to General Electric Company. System of electric distribution. 1,615,670; Jan. 25.
- Banzet, Paul J., assignor to Bruyere Banzet & Co., Societe Dauphinoise de Materiel Textile, Bourgoin, France. Dobby for looms. 1,627,950; May 10.
- Baquet, Pierre (called) Gaston, Colombes, France. Grease tube for facial make-up. 1,646,005; Oct. 13.
- Baradat, Claudio. (See Lleo, A. and Baradat.)
- Barakat, Claudio, Barcelona, Spain. Cinematographic apparatus adapted for the continuous travel of the film. 1,646,341; Oct. 18.
- Barany, Edmund R., Brooklyn, N. Y. Vanity case. 1,620,002; Mar. 8.
- Barany, Edmund R., Brooklyn, N. Y. Connector for electrical conductors. 1,634,005; June 28.
- Barb, David, Roxbury, Mass. Method of and apparatus for bridge attachment. 1,638,820; Aug. 16.
- Barb, Roscoe W., Springfield, Ill. Socket wrench for Ford automobiles. 1,618,046; Feb. 15.
- Barba, Frank Y., Astoria, N. Y. Attachment for typographical machines. 1,621,306; Mar. 15.
- Barbarou, Marius J. B., Paris, France. Ignition in internal-combustion engines. 1,622,871; Mar. 29.
- Barbarou, Marius J. B., Paris, France. Valve gear in internal-combustion engines. 1,623,041; Apr. 5.
- Barbarou, Marius J. B., Paris, France. Control of carburetors. 1,627,951; May 10.
- Barbarou, Marius J. B., Paris, France. Lubricating arrangement for internal-combustion or like engines. 1,640,973; Aug. 30.
- Barbe, Edgar H. (See Guissart, A. and Barbe.)
- Barbee, Henry D., Greensboro, N. C. Fire door. 1,633,757; June 28.
- Barbee, Thomas M. (See Reynolds, W. B. and Barbee.)
- Barber Asphalt Company, The. (See Bergner, John C., assignor.)
- Barber Asphalt Company, The. (See Browne, Frank A., assignor.)
- Barber Asphalt Company, The. (See Forrest, Charles N., assignor.)
- Barber Asphalt Company, The. (See Freegard, William, assignor.)
- Barber Asphalt Company, The. (See Miller, John S., jr., assignor.)
- Barber Asphalt Company, The. (See Moriarty, John H., assignor.)
- Barber Asphalt Company, The. (See Ritter, George, assignor.)
- Barber, Basil T., Iola, Kans. Windshield cleaner. 1,643,235; Sept. 20.
- Barber, Clinton, Athol, Idaho. Fish creel. 1,652,387; Dec. 13.
- Barber-Colman Company. (See Colman, Howard D., assignor.)
- Barber-Colman Company. (See Colman, H. D., and Peterson, assignors.)
- Barber-Colman Company. (See Dewey, Ritchie P., assignor.)
- Barber-Colman Company. (See Edgar, John, assignor.)
- Barber-Colman Company. (See Peterson, Burt A., assignor.)
- Barber-Colman Company. (See Ransome, Stafford M., assignor.)
- Barber-Colman Company. (See Sinderson, John B., assignor.)
- Barber, Ernest B., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Fastening-inserting machine. 1,649,503; Nov. 15.
- Barber, Franklin L., assignor to Standard Car Truck Company, Chicago, Ill. Shim for car trucks. 1,640,391; Aug. 30.
- Barber-Greene Company. (See Barber, Harry H., assignor.)
- Barber, Harry E., Boston, Mass. Attachment clamp for beams. 1,652,695; Dec. 13.
- Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Digging member for ditching machines. 1,623,957; Apr. 12.
- Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Loader. 1,630,598; May 31.
- Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Preventing undue tension in multicolor perfecting printing presses. 1,614,177; Jan. 11.
- Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Web-slack preventer for multicolor perfection printing presses. 1,614,178; Jan. 11.
- Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Packer deliverer for folding machines. 1,615,610; Jan. 25.
- Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Cutting and feeding attachment for printing presses. 1,654,205; Dec. 27.
- Barber, Howard M., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Tympan clamp. 1,629,985; Dec. 27.
- Barber, Howard M., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Driving mechanism for printing presses. 1,637,848; Aug. 2.
- Barber, Howard M., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Plate-clamping mechanism for printing presses. 1,646,721; Oct. 25.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Holding sheets in register on tape carriers. 1,645,175; Oct. 11.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Signature-delivery mechanism for printing presses. 1,645,176; Oct. 11.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Mechanism for cutting sheets from webs. 1,650,927; Nov. 29.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Driving mechanism for web feeding and cutting machines. 1,650,928; Nov. 29.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-feeding mechanism. 1,654,158; Dec. 27.
- Barber, Mabel C., Chicago, Ill. Mattress retainer. 1,630,462; May 31.
- Barber, Martin A. (See Kothe, Charles A., assignor.)
- Barber, Martin A., Cleveland, Ohio. Lock for automatic connectors. 1,612,962; Jan. 4.
- Barber, Martin A., Cleveland, Ohio. Automatic-train-pipe connector. 1,644,975; Oct. 11.
- Barber, William, Brooklyn, N. Y. Shock absorber and buffer. 1,616,518; Oct. 25.
- Barber, William J., assignor to The Delphos Mop Company, Delphos, Ohio. Wringer-mop construction. 1,645,681; Oct. 18.
- Barber, Alexander M., Lyon, France. Shuttle-box motion of looms. 1,617,143; Feb. 8.
- Barbier, Alfred, Courcelles, Belgium. Speed-reducing apparatus. 1,622,217; Mar. 22.
- Barbieri, Angelo, Milan, Italy. Perforating apparatus. 1,620,711; Mar. 15.
- Barbieri, Angelo, Milan, Italy. Electric musical reed. 1,637,674; Aug. 12.
- Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co. Paper-cup-forming machine. 1,623,329; Apr. 5.
- Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Cup-machine carton-loading attachment. 1,623,330; Apr. 5.
- Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Receptacle and blank therefor. 1,632,019; June 14.
- Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Folding paper cup. 1,632,867; June 21.
- Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Paper cup and blank for making the same. 1,632,868; June 21.
- Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co. Paper cup. 1,632,869; June 21.
- Barbieri, Cesare, and P. Carpenter, Chicago, Ill. Machine for making photographic prints. 1,615,155; Jan. 18.
- Barbieri, D. Angelo, Milan, Italy. Combined electric piano-forte and organ. 1,622,364; Mar. 28.
- Barbour, Alton W. (See Shults, L. and Barbour.)
- Barbour, Breese F. (See Shults, L. and Barbour.)
- Barbour, Clyde A., jr., Monroe, La. Carbon-black-producing apparatus. 1,638,722; Aug. 9.
- Barbour, Clyde A., jr., Monroe, La. Manufacture of carbon black. 1,643,736; Sept. 27.
- Barbour, Clyde A., jr., Monroe, La. Gas tip and producing carbon black. 1,653,536; Dec. 20.
- Barbour, Fred R., Los Angeles, Calif. Tent. 1,642,530; Sept. 13.
- Barbour, Garland I., Akron, Ohio. Lavatory. 1,627,475; May 3.
- Barbour, Herbert W., New Bern, N. C. Ratchet drill. 1,635,882; July 12.
- Barbour, John E., Paterson, N. J. Strand package. 1,613,431; Jan. 4.
- Barcena, Fernando, Vigo, Spain. Inflatable tire. 1,649,092; Nov. 15.

- Barchoff, Abraham, New York, N. Y. Serving platter. Des. 71,860; Jan. 18.
- Barchoff, Abraham, New York, N. Y. Serving tray. Des. 73,119; July 26.
- Barclay, G. Ivar, assignor to Detroit Steel Products Company, Detroit, Mich. Latch for windows. 1,615,804; Feb. 1.
- Barclay, Gustaf I., assignor to Detroit Steel Products Co., Detroit, Mich. Window. 1,615,823; Feb. 1.
- Barclay, Gustaf I., assignor to Detroit Steel Products Company, Detroit, Mich. Window. 1,644,223; Oct. 4.
- Barclay, William R., and F. B. Keall, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing and securing strips to shoe parts. 1,618,162; Feb. 22.
- Barclay, William R., and W. T. Minett, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Support. 1,620,793; Mar. 15.
- Bardach, Lloyd H., Chicago, Ill., assignor, by mesne assignments, to Gold Dust Corporation, New York, N. Y. Glass-cleaning applicator. 1,621,489; Mar. 22.
- Bardax, Byron, New York, N. Y. Milk-bottle holder. 1,645,274; Oct. 11.
- Bardax, Byron, assignor of forty one-hundredths to C. F. Soccombe and twenty one-hundredths to H. E. Wright, Los Angeles, Calif. Fuel-control attachment for carburetors. 1,650,482; Nov. 22.
- Bardera, Jose M., Brooklyn, N. Y. Toilet article. 1,616,104; Feb. 1.
- Bardner, George A., Berkeley, and W. E. Burns, Burlingame, Calif., assignors to M. J. B. Co. Combined can and opener. 1,642,478; Sept. 13.
- Bardin, Clarence L., Limestone, Fla. Spring suspension for vehicles. 1,644,224; Oct. 4.
- Bardin, Victor, St.-Denis, France. Valved pipe coupling. 1,631,456; June 7.
- Bardon, Louis M., Seattle, Wash. Choker hook. 1,651,081; Nov. 29.
- Bardons & Oliver. (See Thompson, Horace W., assignor.)
- Bardsley, Henry, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom dobby. 1,619,394; Mar. 1.
- Bardwell, Ralph S., assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lantern roof. Des. 73,155; Aug. 2.
- Bardwell, Ralph S., assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting-fixture bracket. Des. 73,156; Aug. 2.
- Bardwell, Ralph S., assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lantern bracket. Des. 73,157; Nov. 15.
- Bareiman, Edward, Guelph, Ontario, Canada. Furnace. 1,631,116; June 7.
- Barett, Louis A., and C. Hunt, Lynn, Mass.; said Hunt assignor to said Barrett. Automatic windshield cleaner. 1,623,028; Mar. 29.
- Barfield, William, Clearwater, Fla., assignor to The Hills Brothers Company. Instrument for removing meat from citrus fruits and the like. 1,614,451; Jan. 18.
- Barger, Fred H., Cherry Valley, Ark. Carburetor. 1,625,516; Apr. 19.
- Barger, George, Chicago, Ill. Toy building blocks. 1,647,557; Nov. 1.
- Barger, Lewis J., Maplewood, N. J. Level. 1,613,262; Feb. 22.
- Barger, William R., and L. A. Hawkins, Washington, D. C., and C. P. Blatz, Pasadena, Calif., assignors, by mesne assignments, to the people of the United States. Treatment of fruit in the preparation of fruit for market. 1,632,579; June 14.
- Barghausen, John F., Takoma Park, D. C. Refrigerated display counter. Re16,595; Apr. 19.
- Baribault, Donat R., Springfield, Mass. Boat construction. 1,643,329; Sept. 27.
- Barie, Philip P., Pittsburgh, Pa. Mechanical toy. 1,638,467; Aug. 9.
- Barkber-Rauland Company, The. (See Remde, Edward H., assignor.)
- Barke, John G., Stockport, and F. Hardman, Bramhall, England. Driving mechanism for spinning, doubling, and the like machines. 1,622,698; Mar. 29.
- Barkelew Electric Manufacturing Company, The. (See McLaughlin, William B., assignor.)
- Barker, Benjamin F., El Paso, Tex., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,623,042; Apr. 5.
- Barker, Charles, assignor, by mesne assignments, to Brunswick-Balke-Collerden Company, Chicago, Ill. Pocket-billiard-ball rack. 1,613,372; Jan. 4.
- Barker, Conley T., Gate City, Va. Heading and loading kafir corn, maize, and the like. 1,635,106; July 5.
- Barker, Edmund G., et al. (See O'Brien, J. R., and Revell, assignor.)
- Barker, Edmund G., Melbourne, Victoria, Australia. Drinking vessel. 1,615,254; Jan. 25.
- Barker, Edwin H., Moylan, assignor to A. H. Wirz, Inc., Chester, Pa. Reinforcement for sprinkler tops. 1,625,016; Apr. 19.
- Barker, Edwin H., Moylan, assignor to A. H. Wirz, Inc., Chester, Pa. Dispensing bottle stopper. 1,631,784; June 7.
- Barker Factory, Inc., The. (See Barker, Merrill G., assignor.)
- Barker, Francis A., Santa Monica, Calif. Radiator. 1,616,776; Feb. 8.
- Barker, Frank E., Birmingham, England. Teapot and like vessel for making beverages by infusion. 1,642,222; Sept. 13.
- Barker, Hubert C., Houston, Tex. 1,624,855; Apr. 12.
- Barker, John S., Rochester, N. Y., assignor to Bethlehem Steel Company. Detonating fuse. 1,648,603; Nov. 8.
- Barker, Leonard M., Edgewater, N. J. Mechanical toy baseball. 1,626,778; May 3.
- Barker, Merrill G., assignor to The Barker Factory, Inc., Norwalk, Conn. Marine engine. 1,640,974; Aug. 30.
- Barker, Milton T., Jr., Winston-Salem, N. C. Smoker's appliance. 1,650,973; Nov. 29.
- Barker, Norman M., Cleveland, Ohio. Low-water alarm. 1,636,118; July 19.
- Barker, Percy E., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Dump truck. 1,618,629; Feb. 22.
- Barker, Percy E., Cleveland, assignor, by mesne assignments, of one-half to A. B. Betz, Shaker Heights Village, Ohio. Dishwashing machine. 1,624,380; Apr. 12.
- Barker, Percy E., Cleveland, Ohio, assignor of one-half to A. B. Betz. Dishwashing machine. 1,624,381; Apr. 12.
- Barker, Percy E., Cleveland, assignor by mesne assignments of one-half to A. B. Betz, Shaker Heights Village, Ohio. Dishwashing machine. 1,624,461; Apr. 12.
- Barker, Percy E., assignor of one-half to A. B. Betz, Cleveland, Ohio. Wringer. 1,638,312; Aug. 9.
- Barker, Percy E., assignor of one-half to A. B. Betz, Cleveland, Ohio. Wringer. 1,638,313; Aug. 9.
- Barker, Percy E., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Dumping mechanism for motor trucks. 1,651,988; Dec. 6.
- Barker & Rawson. (See O'Brien, J. R., and Revell, assignor.)
- Barker, Reuben F., Portland, Oreg. Holding-down mechanism for valves. 1,621,022; Feb. 1.
- Barker, Reuben F., Portland, Oreg. Fluid-cooled rotary valve for internal-combustion engines. 1,626,111; Apr. 26.
- Barker, Robert H., Chambersburg, Pa. Grain-scouring apparatus. 1,639,364; Aug. 16.
- Barker, Robert W., Providence, R. I. Manipulating strands of yarn. 1,612,798; Jan. 4.
- Barker, Robert W., Providence, R. I., assignor to E. A. Taft, trustee, Brookline, Mass. Instrument for manipulating strands or yarns. 1,612,797; Jan. 4.
- Barker, Seth S., Ottumwa, Iowa. Coop. Re16,537; Jan. 18.
- Barker, Virgil D., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Banding machine. 1,621,052; Feb. 1.
- Barker, Walter R., and L. Jensen, assignors to United Autographic Register Company, Chicago, Ill. Autographic-register cash drawer. 1,631,395; June 7.
- Barker, Walter R., and L. Jensen, assignors to United Autographic Register Co., Chicago, Ill. Autographic register. 1,643,483; Nov. 8.
- Barker, William M., Canton, Ohio. Centrifugal fan separator. 1,616,566; Feb. 8.
- Barker, William M., Canton, Ohio. Ball mill. 1,636,585; July 19.
- Barker, William T., Jr., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for feeding molten glass. 1,645,221; Oct. 11.
- Barkett, Joseph A., Pottsville, Pa. Novelty trick puzzle. 1,640,054; Nov. 15.
- Barkley, Alberto. (See Barkley, Fred W., assignor.)
- Barkley, Fred W., Winthrop, Mass., assignor to A. Barkley, Painted Post, N. Y. Carrying over mechanism for calculating machines. 1,622,563; Mar. 29.
- Barkley, Fred W., Winthrop, Mass., assignor to A. Barkley, Painted Post, N. Y. Overrotating check for calculating machines. 1,622,564; Mar. 29.
- Barklie, Robert H. D., Purley, England. Electric fuse. 1,644,626; Oct. 4.
- Barks, Frank S., St. Louis, Mo. Lubricating apparatus. 1,633,304; June 21.
- Barkschat, Henry. (See Gorrell, William R., assignor.)
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lamp post or similar article. Des. 72,466; Apr. 19.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lamp post or similar article. Des. 72,467; Apr. 19.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lamp-post or similar article. Des. 72,583; May 10.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lighting-standard capital. Des. 72,584; May 10.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lighting-standard capital. Des. 72,585; May 10.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lighting-standard capital. Des. 72,586; May 10.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lighting-standard capital. Des. 72,587; May 10.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lighting standard. Des. 72,588; May 10.

- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Lamp-post or similar article. Des. 72,589; May 10.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Combination post and lighting standard. Des. 72,590; May 10.
- Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Post. Des. 72,924; June 28.
- Barksdale, Irving S., Greenville, S. C. Preparation of carbocubic. 1,626,322; Apr. 26.
- Barlett, Eva R., Pasadena, Calif. Bottle closure. 1,621,187; Mar. 15.
- Barletta, John, San Francisco, Calif. Internal-combustion engine. 1,652,266; Dec. 13.
- Barling, Walter H., Dayton, Ohio. Aircraft-motor-control system. 1,641,567; Sept. 6.
- Barlow, Clifford, Waverley, New South Wales, Australia. Advertising machine. 1,612,850; Jan. 4.
- Barlow, Harry T., Brooklyn, assignor to Wonder Window Washer Corp., New York, N. Y. Window-cleaning device. 1,630,463; May 31.
- Barlow, Lester P., Stamford, Conn. Vapor-cooling system. 1,632,580; June 14.
- Barlow, Lester P., Stamford, Conn. Engine-cooling system. 1,632,581; June 14.
- Barlow, Lester P., Stamford, Conn. Vapor-cooling system for internal-combustion engines. 1,632,585; June 14.
- Barlow, Lester P., Stamford, Conn. Vapor-cooling system for internal-combustion engines. 1,632,586; June 14.
- Barlow, Lester P., Detroit, Mich. Engine-cooling system. 1,632,582; June 14.
- Barlow, Lester P., Detroit, Mich. Engine-cooling system. 1,632,583; June 14.
- Barlow, Lester P., Detroit, Mich. Engine-cooling system. 1,632,584; June 14.
- Barlow, William E., Trevoze, Pa., assignor to Dairy Equipment and Container Company, Dover, Del. Tube-forming machine. 1,614,643; Jan. 18.
- Barna, Emanuel E., Bratislava, Czechoslovakia. Adjustable wire mattress. 1,659,422; Aug. 16.
- Barnack, Oscar, assignor to the Firm Ernst Leitz, Optische Werke, Wetzlar, Germany. Focal plane shutter. 1,652,553; Dec. 13.
- Barnard, Arthur E., and R. G. Caswell, Newton, assignors to W. B. Pratt, Inc., Newtonville, Mass. Manufacturing paper. 1,648,838; Nov. 8.
- Barnard, Dudley J., Barking, England. Grab. 1,633,305; June 21.
- Barnard, George A., near Princeton, Nebr. Game trap. 1,620,182; Mar. 8.
- Barnard, Therides V., Schaller, Iowa. Popping kettle. 1,642,531; Sept. 13.
- Barnard, Wilbur D., Neenah, Wis. Weed killer. 1,624,033; Apr. 12.
- Barnay, Antoine, Paris, France. System for transmitting electrical impulses. 1,623,714; Apr. 5.
- Barnbrook, Helen B., Providence, R. I. Paper-binding tool. 1,643,193; Sept. 20.
- Barneby, Oscar L., Detroit, Mich. Manufacture of deodorizing carbons from vegetable materials. 1,614,913; Jan. 18.
- Barneby, Oscar L., Columbus, and M. B. Cheney, deceased; J. B. Cheney, Briggsdale, Ohio, administratrix. Making adsorbent carbon. 1,614,707; Jan. 18.
- Barnell, David O. (See Bertschy, Adolph J. P., assignor.)
- Barnes, Charles H., Ilion, N. Y. Trigger mechanisms for firearms. 1,625,768; Apr. 19.
- Barnes, Cornelia, executrix. (See Barnes, William H., assignor.)
- Barnes Drill Company. (See Johnson, Albert M., assignor.)
- Barnes, E. H. (See Effley, Michael P., assignor.)
- Barnes, Elkhart, Oklahoma City, Okla. Piling cotton bales. 1,617,743; Feb. 19.
- Barnes Ernest, and G. V. M. Edge, Bluff, New Zealand. Hoop for bales and packages. 1,649,650; Nov. 15.
- Barnes, Eugene L., Watertown, N. Y. Refrigerating apparatus. 1,625,878; Apr. 26.
- Barnes, Frank, Columbus, Ohio. Automobile signal. 1,646,678; Dec. 25.
- Barnes, Frederick J., Stourbridge, England. Construction of motor-road-vehicle bodies. 1,622,899; Mar. 29.
- Barnes, George L., Everett, Wash. Crude-oil burner. 1,645,787; Oct. 18.
- Barnes, Herman L., assignor to The American Forge & Machine Company, Canton, Ohio. Making insulator caps. 1,638,586; July 19.
- Barnes, James W., Cleveland, Tenn. Vehicle spring snubber. 1,620,424; Mar. 8.
- Barnes, Lionel F., Windsor, Canada. Traffic signal. 1,623,706; May 17.
- Barnes, Otto H., Tulsa, Okla. Wheel gauge. 1,638,723; Aug. 9.
- Barnes, Pierre. (See Reiter, John M., assignor.)
- Barnes, Rolland O., Walkerton, Ind. Tool for scraping bearings. 1,640,175; Aug. 23.
- Barnes Scale Company. (See King, Bert W., assignor.)
- Barnes, Stanley. (See Corcoran, Louis A., assignor.)
- Barnes, Stanley H., New Rochelle, N. Y., assignor to Gleason-Tiebout Glass Company, New York, N. Y. Illuminating glass shade. Des. 73,818; Nov. 15.
- Barnes, Stanley H., Mount Vernon, assignor to Gleason-Tiebout Glass Company, Brooklyn, N. Y. Glass lighting globe. Des. 74,089; Dec. 20.
- Barnes-Thomas, Albert, Dresden, Germany, assignor to Marvel Products Limited, London, England. Producing articles from compositions of matter. 1,638,108; Aug. 9.
- Barnes-Thomas, Albert, Dresden, Germany, assignor to Marvel Products Limited, London, England. Imitation marble tiles, slabs, and similar material especially for use for decorative purposes in buildings and other places. 1,638,109; Aug. 9.
- Barnes, Thomas J., Azusa, Calif. Pulverizer. 1,637,098; July 26.
- Barnes, Walter C., Taft, Calif. Core drill. 1,634,865; July 5.
- Barnes, Walter D., Lancaster, Pa. Attachment for printing presses. 1,626,444; Apr. 26.
- Barnes, William G., Kansas City, Mo. Body adjuster for deceased persons. 1,632,160; June 14.
- Barnes, William H., deceased, Seattle, Wash.; C. Barnes, executrix. Motor vehicle. 1,646,131; Oct. 18.
- Barnes, William H., Rochester, N. Y. Metallic wall construction. 1,655,197; Dec. 20.
- Barnes, William J., Detroit, Mich. Joint attachment and support for double-wall pipe. 1,614,179; Jan. 11.
- Barnet, William D., assignor to The Xylos Rubber Company, Akron, Ohio. Rubber working and analogous machinery. 1,649,774; Nov. 15.
- Barnett, Arthur J., New York, N. Y., assignor to The Worcester Knitting Co., Worcester, Mass. Buttonless bathing suit. 1,632,723; June 14.
- Barnett, Hubert, et al. (See Skinner, Clarence L., assignor.)
- Barnett, John B., assignor of one-half to W. G. McCann and one-half to A. E. Spellissy, Philadelphia, Pa. Display device. 1,631,785; June 7.
- Barnett, John S., Oakland, Calif. Planetary transmission gearing. 1,641,656; Sept. 6.
- Barnett, Leon H., New York, N. Y. Producing gem materials. 1,637,2; July 26.
- Barnett, Solt W., Webster City, Iowa. Corn picking and husking machine. 1,646,741; Oct. 25.
- Barnett, Walter J., Casper, Wyo. Pulling tool. 1,622,218; Mar. 22.
- Barnett, William G., New York, N. Y. Support for curling devices. 1,649,145; Nov. 15.
- Barney, Arthur L., assignor to Tiffany & Company, New York, N. Y. Spoon or analogous article. Des. 73,685; Oct. 25.
- Barney, Arthur L., assignor to Tiffany & Company, New York, N. Y. Spoon or analogous article. Des. 73,735; Nov. 1.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,622,276; Mar. 29.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,625,974; Apr. 26.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,646,271; Oct. 13.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,647,850; Nov. 1.
- Barney, Ernest E. (See Gegenheimer, W., and Barney.)
- Barney, Freeman, assignor to The Challenge Machinery Company, Grand Haven, Mich. Standard. Des. 73,955; Nov. 29.
- Barnhart, George E., Pasadena, Calif. Golf club. 1,639,547; Aug. 16.
- Barnhart, George E., Pasadena, Calif. Golf club. 1,639,548; Aug. 16.
- Barnhart, Harry J., assignor to The Osgood Company, Marion, Ohio. Steam shovel. 1,639,421; Aug. 16.
- Barnhart, Harry J., assignor to The Osgood Company, Marion, Ohio. Steam shovel. 1,646,781; Oct. 25.
- Barnhart, Job R., assignor to W. M. Scott, Lakewood, Ohio. Electrical indicating instrument. 1,630,884; May 31.
- Barnhart, Job R., assignor to W. M. Scott, Lakewood, Ohio. Variable condenser. 1,630,885; May 31.
- Barnickel, Wm. S., & Company. (See Averill, Charles C., assignor.)
- Barnickel, Wm. S., & Company. (See De Groote, M., and Adams, assignors.)
- Barnickel, Wm. S., & Company. (See Roberts, Claudius H. M., assignor.)
- Barnitt, Jesse B., assignor to Aluminum Company of America, Pittsburgh, Pa. Producing sodium aluminate. 1,616,674; Feb. 8.
- Baron, George J., Willesden, England. Locksmith's instrument to open all standard makes of cylinder lock. 1,639,919; Aug. 23.
- Baron, John, Long Island City, assignor, by mesne assignments, to L. Laxer and C. Young, New York, N. Y. Closure lock. 1,633,508; June 21.
- Baron, Leon, Brooklyn, N. Y. Bowl evacuant. 1,621,186; Mar. 15.
- Baron, Paul J., Dormont Borough, Pa. Method of and apparatus for coating. 1,643,330; Sept. 27.
- Barnwell, Dwight H., Taft, assignor to Axelson Machine Company, Los Angeles, Calif. Pump. 1,641,613; Sept. 6.
- Barnwell, Reginald H. (See Barnwell, Stephen and R. H.)

- Barnwell, Stephen, Manchester, and R. H. Barnwell, Potter Heigham, England. Loom. 1,640,813; Aug. 30.
- Barr, George R., Hackney, London, England. Automatic coin-operated machine. 1,621,230; Mar. 15.
- Barr, James C., Peoria, Ill. Handsaw. 1,613,432; Jan. 4.
- Barr, John H., assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. 1,644,504; Oct. 4.
- Barr, John H., Ithaca, N. Y., assignor to Barr-Morse Corporation. Line lock and margin release. 1,650,180; Nov. 22.
- Barr, Marshall B., Franklin Park, Ill. Variable-pressure track brake. 1,627,187; May 3.
- Barr-Morse Corporation. (See Barr, John H., assignor.)
- Barr, Samuel J., et al. (See Butterbaugh, Ralph B., assignor.)
- Barr, Sidney U., Brooklyn, N. Y. Double-hung window. 1,644,814; Oct. 11.
- Barr and Stroud, Limited. (See Strang, John M., assignor.)
- Barr, William J., assignor to The H. T. Cushman Mfg. Co., North Bennington, Vt. Smoker's stand. Des. 74,090; Dec. 20.
- Barr, William J., assignor to The H. T. Cushman Mfg. Co., North Bennington, Vt. Smoker's stand. Des. 74,091; Dec. 20.
- Barratt, Edgar G., New York, N. Y., assignor to The Beaver Products Company, Inc. Tile. 1,645,214; Oct. 11.
- Barré, Paul, Paris, France. Vulcanizing molding apparatus for rubber tires. 1,643,869; Sept. 27.
- Barrell, Charles S., Boston, Mass. Tire-chain link. 1,644,627; Oct. 4.
- Barrett, Alfred G., and H. H. Burton, Leicester, England. Covers for application to steering-wheel handles of motor vehicles and the like. 1,641,311; Sept. 6.
- Barrett, Arthur M., Winnetka, Ill. Lifting truck. 1,633,390; June 21.
- Barrett, Charles D., Altoona, Pa. Smoke box for locomotives. 1,653,537; Dec. 20.
- Barrett, Charles G., Quincy, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Reversing and control mechanism for internal-combustion engines. 1,650,929; Nov. 29.
- Barrett Company, The. (See Craver, Augustus E., assignor.)
- Barrett Company, The. (See Perry, Ray P., assignor.)
- Barrett Company, The. (See Reeve, Charles S., assignor.)
- Barrett Company, The. (See Zavertnik, Joseph, jr., assignor.)
- Barrett, Dwight O., Springfield, Ohio. Lubricating-oil pump. 1,653,538; Dec. 20.
- Barrett, Edward R., assignor to Wood Hydraulic Hoist and Body Company, Detroit, Mich. Gravity dumping construction. 1,641,369; Sept. 6.
- Barrett, Edward R., assignor to Wood Hydraulic Hoist and Body Company, Detroit, Mich. Elevating-dumping apparatus. 1,646,679; Oct. 25.
- Barrett, Edward R., assignor to Wood Hydraulic Hoist and Body Company, Detroit, Mich. Lifting and dumping body apparatus. 1,650,815; Nov. 29.
- Barrett, George E., assignor to Lenher Engineering Company, New York, N. Y. Driving mechanism for the windlasses and capstans of vessels. 1,634,766; July 5.
- Barrett, Jesse L., McMillan, Mich. Boot. 1,642,715; Sept. 20.
- Barrett, John A., McMillan, Mich. Traction attachment for vehicle power wheels. 1,642,713; Sept. 20.
- Barrett, John A., McMillan, Mich. Auto-wheel sleigh runner. 1,642,714; Sept. 20.
- Barrett, John H., New York, N. Y. Stationary wheelhub cover-holding device. 1,627,476; May 3.
- Barrett, Joseph M., Fostoria, Ohio. Feed-water regulator. 1,650,108; Nov. 22.
- Barrett, Joseph M., assignor to The "S-C" Regulator Manufacturing Company, Fostoria, Ohio. Automatic alarm and shut-off for steam boilers. 1,634,392; July 5.
- Barrett, Joseph M., assignor to The S-C Regulator Manufacturing Company, Fostoria, Ohio. Turbine-pump governor. 1,643,483; Sept. 27.
- Barrett, Lewis B., Bangor, Me. Wire holder. 1,631,510; June 7.
- Barrett, Paul D., San Francisco, Calif. Brake-equalizing mechanism. 1,619,912; Mar. 8.
- Barrett, Thomas J., Bordentown, N. J. Machine for mixing road material and the like. 1,621,099; Mar. 15.
- Barrett, Thomas W., Zanesville, Ohio. Sash-cord fastener. 1,622,988; Mar. 29.
- Barrett, William, assignor to G. A. Reach, Philadelphia, Pa. Leg guard for athletes. 1,624,129; Apr. 12.
- Barrett, William C., Chicago, Ill. Curtain fixture. 1,619,456; Mar. 1.
- Barringer, Lawrence E., Schenectady, and C. F. Peterson, Scotia, N. Y., assignor to General Electric Co. Making molded compositions. 1,619,692; Mar. 1.
- Barron, John, Yonkers, N. Y. Overflow device for cooking vessels. 1,616,408; Feb. 1.
- Barron, John W., Des Moines, Iowa. Container. 1,617,192; Feb. 8.
- Barron, Nicholas N., Newark, N. J. Burial casket or coffin. 1,634,767; July 5.
- Barron, Randolph M., Beaumont, assignor of one-half to C. W. Willace, Columbia, Miss. Veneer-splitting machine. 1,640,023; Aug. 23.
- Barrowman, Robert. (See Tape, William H., assignor.)
- Barrows, Alford C., assignor to Economy Baler Company, Ann Arbor, Mich. Bale-dividing device. 1,637,543; Aug. 2.
- Barrows, Allan S., Los Angeles, Calif. Car door. 1,624,306; Apr. 12.
- Barrows, Allan S., Los Angeles, Calif. Metallic car door. 1,636,891; July 26.
- Barrows, Donald C. (See Kadel, B. W., and Barrows.)
- Barrows, Donald S., Rochester, N. Y. Slide frame. 1,637,724; Aug. 2.
- Barrows, Donald S., Rochester, N. Y. Inboard car truck. 1,649,377; Nov. 15.
- Barrows, Donald S., Rochester, N. Y. Car truck. 1,652,808; Dec. 13.
- Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Carry iron. 1,618,693; Mar. 1.
- Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Journal box. 1,624,708; Apr. 12.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Truck side frame. 1,628,394; Nov. 29.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,637,099; July 26.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,650,974; Nov. 29.
- Barrows, Ira C., assignor to B & H Engineering Laboratories, Oakland, Calif. Brake dressing. 1,645,682; Oct. 18.
- Barry, Carl A., Sutherland, Iowa. Hitch. 1,646,342; Oct. 18.
- Barry, Clifton R., Fort Smith, Ark., assignor of one-half to R. L. Smith, Tulsa, Okla. Swivel attachment. 1,649,208; Nov. 15.
- Barry Drum Mfg. Co. (See Barry, William A., assignor.)
- Barry, Gerald G., Chicago, Ill. Ignition timer. 1,615,255; Jan. 25.
- Barry, Gerald G., Chicago, Ill. Ignition timer. 1,615,256; Jan. 25.
- Barry, James, Medford, Mass. Fish-cutting machine. 1,639,976; Aug. 23.
- Barry, James J., assignor, by direct and mesne assignments, to General Seafoods Corporation, Gloucester, Mass. Preserving food products. 1,617,066; Feb. 8.
- Barry, James J., assignor to General Seafoods Corporation, Gloucester, Mass. Fish scaler. 1,642,802; Sept. 20.
- Barry, James J., assignor to General Seafoods Corporation, Gloucester, Mass. Filleting machine. 1,647,170; Nov. 1.
- Barry, James J., assignor to General Seafoods Corporation, Gloucester, Mass. Trimming tool. 1,648,931; Nov. 15.
- Barry, Laurence A. (See Barry, Laurence A. and L. A.)
- Barry, Laurence A., Bogota, and L. A. Barry, Irvington, N. J. Pulp beater. 1,647,982; Nov. 8.
- Barry, Louis J., Newport, R. I. Torpedo. 1,630,159; May 24.
- Barry, Nicholas, Muscatine, Iowa. Sheet-metal pulley. 1,613,433; Jan. 4.
- Barry, Nicholas, Muscatine, Iowa. Button-blank-facing machine. 1,646,132; Oct. 18.
- Barry, Richard P., Carle Place, assignor of one-third to E. J. Kubat, New York, and one-third to A. Parrott, Jamaica, N. Y. Adjustable bracket. 1,618,857; Feb. 22.
- Barry-Webmiller Machinery Company. (See Dawson, Joseph W., assignor.)
- Barry-Webmiller Machinery Company. (See Dawson, J. W., and Herold, assignors.)
- Barry-Webmiller Machinery Co. (See Herold, James L., assignor.)
- Barry, William A., assignor to Barry Drum Mfg. Co., Philadelphia, Pa. Drum. 1,648,212; Nov. 8.
- Barrymore Concrete Mixer Corporation. (See Barrymore, C., and Addicissman, assignors.)
- Barrymore, Orson C., and R. A. Addicissman, assignors to Barrymore Concrete Mixer Corporation, San Francisco, Calif. Concrete mixer. 1,625,762; Apr. 19.
- Barrymore Seamless Wiltons, Inc., The. (See Finlay, Alexander, assignor.)
- Barsky, George, assignor to American Cyanamid Company, New York, N. Y. Treating calcium cyanamid. 1,618,047; Feb. 15.
- Barsky, George, assignor to American Cyanamid Company, New York, N. Y. Making dicyandiamid. 1,618,504; Feb. 22.
- Barsky, George, assignor to American Cyanamid Company, New York, N. Y. Refrigerant. 1,631,573; June 7.
- Barsky, George, assignor to American Cyanamid Company, New York, N. Y. Fertilizer product and producing the same. 1,651,363; Dec. 6.
- Barsky, George, New York, N. Y., and F. W. Freese, Palmyra, N. J., assignors to American Cyanamid Company, New York, N. Y. Producing fertilizer materials. 1,614,943; Jan. 18.
- Barstow, Edwin O. (See Dow, H. H., and Barstow.)
- Bart, Blasius, East Orange, N. J. Reflector. 1,653,609; Dec. 27.
- Bart, Thomas E., assignor to The Murdock Manufacturing and Supply Company, Cincinnati, Ohio. Self-draining valve structure. 1,647,334; Nov. 1.

- Bartak, James J., Cleveland, Ohio. Safety window device. 1,620,749; Mar. 15.
- Bartlett, Erwald A. (See Breitenstein, A. F., and Bartlett.)
- Bartel, Rudolph F., New York, N. Y. Garter. 1,653,383; Dec. 20.
- Bartels, Amendus, and O. Miech, Harburg-on-the-Elbe, Germany. Manufacture of shaped articles of casein. 1,623,085; Apr. 6.
- Bartels, Carl. (See Goldsmith, G. M., and Bartels.)
- Bartels, Carl, assignor to The Mosler Safe Company, Hamilton, Ohio. Fireproof safe door. 1,616,249; Feb. 1.
- Bartels, Carl, and C. J. Goebel, assignors to The Mosler Safe Company, Hamilton, Ohio. Safety device for vaults, safes, and the like. 1,614,944; Jan. 18.
- Bartels, Carl, and C. J. Goebel, assignors to The Mosler Safe Company, Hamilton, Ohio. Safety device for vaults, safes, and the like. 1,614,945; Jan. 18.
- Bartels, Edward E., assignor to Standard Oil Company, Whiting, Ind. Producing residual oil products. 1,613,737; Jan. 11.
- Bartels, Edward E., assignor to Standard Oil Company, Whiting, Ind. Liquid and mechanical seal. 1,632,213; June 14.
- Bartels, Reinhard E., Lynn, Mass. Incorporating a shank stiffener with a shoe sole. 1,619,648; Mar. 1.
- Bartels, Reinhard E., Lynn, Mass. Shank stiffener. 1,638,136; Aug. 9.
- Bartels, Reinhard E., Lynn, Mass. Shoe-shank stiffener and making the same. 1,633,137; Aug. 9.
- Bartels, Reinhard E., Lynn, Mass. Apparatus for locating shank stiffeners in shoe soles. 1,647,979; Nov. 8.
- Bartels, William, New York, N. Y. Tool. 1,619,395; Mar. 1.
- Bartenfeld, Wilford G., Lorain, Ohio. Channel and plate construction for vessels. 1,625,716; May 3.
- Barth, Andrew. (See Buckthorpe, F. T., and Barter.)
- Barth, Adolf, Munich, Germany. Syringe. 1,644,225; Oct. 4.
- Barth, Edwin J., and F. Howell, San Antonio, Tex. Fluid fuel and producing the same. 1,638,314; Aug. 9.
- Barth, Erich, New York, N. Y. Plumb bob. 1,626,130; Apr. 26.
- Barth, Friedrich F., Radeberg, Germany. Spool for sewing machines. 1,624,884; Apr. 12.
- Barthel, Hans, and P. Kurth, assignors to the Firm Alfred Wassmuth G. m. b. & Co., Cologne-Dellbrück, Germany. Device for reducing the energy of flow of a flowing fluid. 1,642,409; Sept. 13.
- Barthelemy, Henri, assignor to The Societe Industrielle des Matieres Plastiques, Paris, France. Manufacture of the condensation products of urea and of formaldehyde. 1,645,848; Oct. 18.
- Barthelmess, Emil, Dusseldorf-Oberkassel, Germany. Pneumatically fed crushing and sifting device. 1,635,527; July 12.
- Bartholdy, Max, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Implement for testing cones. 1,643,570; Sept. 27.
- Bartholomae, William, Brooklyn, N. Y. Musical instrument. 1,618,908; Feb. 22.
- Bartholomae, William, Brooklyn, N. Y. Musical instrument. 1,622,219; Mar. 22.
- Bartholomae, William, Brooklyn, N. Y. Sounding toy. 1,654,398; Dec. 27.
- Bartholomew, Edward P., Rochester, N. Y. Connector and support for meters. 1,630,323; May 31.
- Bartholomew, Albert B. W., Montreal, Quebec, Canada. Writing instrument. 1,636,207; July 19.
- Bartholomew, Odelia, San Francisco, Calif. Surgical appliance. 1,635,919; July 12.
- Bartholomew, Harry G., and M. L. D. McFarlane, London, England. Telautography. 1,653,425; Dec. 20.
- Bartholomew, John. (See Lyon, John S., assignor.)
- Bartholomew, John R., Montclair, N. J., assignor to The Beddinghouse Air, Brake Company, Wilmerding, Pa. Vehicle vacuum brake. 1,644,558; Oct. 4.
- Bartholomew, Raymond A., Brooklyn, N. Y. Transmission device. 1,651,862; Dec. 6.
- Bartholomew, Robert J., Lansdale, assignor to Fletcher Works, Incorporated, Philadelphia, Pa. Harness motion for looms. 1,648,011; Nov. 8.
- Bartholomew, Robert J., Lansdale, assignor to Fletcher Works, Incorporated, Philadelphia, Pa. Turnback apparatus. 1,652,998; Dec. 20.
- Bartkowiak, Wojciech. (See Leskiewicz, M., and Bartkowiak.)
- Bartkowiak, Joseph M., Chicago, Ill. Lighting fixture. 1,614,591; Jan. 18.
- Bartlam, Clinton T., Los Angeles, Calif. Web handling and display system. 1,615,298; Jan. 25.
- Bartlam, Thomas C. (See Peters, T. K., and Bartlam.)
- Bartlebaugh, David W., Springfield, Ohio. Weeder and the like. 1,634,606; July 5.
- Bartlett, Albert C., Watford, and R. Le Rossignol, Harrow, assignors to The General Electric Company Limited, London, England. Thermionic valve. 1,632,870; June 21.
- Bartlett, C. O., and Snow Company, The. (See First, Mahlon E., assignor.)
- Bartlett, Edward E., Sapulpa, Okla. Making blown glass articles. 1,618,747; Feb. 22.
- Bartlett, Frederick A., and R. J. Davis, assignors of one-third to R. M. McCracken, Boise, Idaho. Bridge scorer. 1,613,975; Jan. 11.
- Bartlett, Frederick P. (See Bilgart, E. E., and Bartlett.)
- Bartlett, George W., Tacoma, Wash., assignor to Bartlett Oil Burner & Power Company. Burner. 1,645,222; Oct. 11.
- Bartlett, Harold W., Alvarado, Calif. Apparatus for harvesting fruit. 1,626,008; Apr. 26.
- Bartlett, Hayward Company, The. (See Fast, Gustave, assignor.)
- Bartlett, Hayward Company, The. (See Kennedy, James S., assignor.)
- Bartlett, Hayward Company. (See Kuehn, Paul M., assignor.)
- Bartlett, Hayward Company, The. (See Wagner, Frederick H., assignor.)
- Bartlett, John N., Winnipeg, Manitoba, Canada. Valve-timing system. 1,614,861; Jan. 18.
- Bartlett, John N., Winnipeg, Manitoba, Canada. Amusement device. 1,633,204; June 21.
- Bartlett, Kenneth A. (See Nirtady, F. W., Bartlett, and Berg.)
- Bartlett, Kent W., Hammond, Ind. Apparatus for separating liquids and gases. 1,620,750; Mar. 15.
- Bartlett, Kent W., Hammond, Ind. Tray. 1,620,751; Mar. 15.
- Bartlett, Kent W., Hammond, Ind. Water-softening apparatus. 1,624,382; Apr. 12.
- Bartlett, Newell B., Springfield, Mass. Lock butt for asphalt shingles. 1,634,972; July 5.
- Bartlett Oil Burner & Power Company. (See Bartlett, George W., assignor.)
- Bartlett, Willard J. (See Wright, J. G. E., and Bartlett.)
- Bartlett, William O., Denver, Colo. Measuring device. 1,636,036; July 19.
- Bartling, Friedrich. (See Honigmann, L., and Bartling.)
- Bartling, Howard G., Chicago, Ill., assignor to Sewall Patin & Vanish Company, Kansas City, Mo. Rubbing machine. 1,614,708; Jan. 18.
- Bartling, Howard G., assignor to Peerless Pneumatic Systems, Inc., Chicago, Ill. Spraying cabinet and apparatus. 1,633,306; June 21.
- Bartol, George E., Jr., Ardmore, Pa., assignor to C. Howard Hunt Pen Company, Camden, N. J. Pencil sharpener. 1,637,849; Aug. 2.
- Bartolomucci, Anthony, Peoria Heights, Ill. Display sign. 1,650,059; Nov. 22.
- Barton, Francis M., Chicago, Ill. Concrete wall construction. 1,641,147; Sept. 6.
- Barton, Frederick C., Schenectady, N. Y., assignor to General Electric Company. Amplifying system. 1,640,436; Aug. 30.
- Barton, John, Matador, Tex. Propeller. 1,634,393; July 5.
- Barton, Raymond L., Los Angeles, Calif. Combination signal casing. Des. 73,120; July 26.
- Barton, Roy L., Milton, Iowa. Harrow-weight-distributing device. 1,620,794; Mar. 15.
- Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,631,715; June 7.
- Barton, Thomas E., Toronto, Ontario, Canada. Sand distributor. 1,640,636; Aug. 30.
- Barton, William E., Montclair, N. J. Packing for gate valves. 1,625,698; Apr. 19.
- Bartosik, Joseph, Monessen, Pa. Flush tank. 1,613,640; Jan. 11.
- Bartram, George C., Freeport, N. Y. Pipe joint. 1,613,434; Jan. 4.
- Barisch, Herbert E., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism. 1,623,227; Apr. 5.
- Bartschmid, William A. (See Holcombe, H. H., and Bartschmid.)
- Barter, Stephen H., Kingston-on-Thames, England. Means or device for the retention of bedclothes. 1,617,008; May 3.
- Baruck, Samuel, New York, N. Y. Antirattling device. 1,619,913; Mar. 8.
- Baruch, Samuel, New York, N. Y. Antirattling device. 1,634,349; July 5.
- Barutig, Constantine B. (See Roop, C. E., Dieckmeyer, and Barutig.)
- Barwood, V. H., Manufacturing Co. (See De Witt, Charles E., assignor.)
- Barzen, Richard G., assignor to English Brothers Machinery Company, Kansas City, Mo. Lubricating system for hoist drums. 1,636,892; July 26.
- Bar-Zim Toy Manufacturing Co. (See Zimmerman, Harry, assignor.)
- Basch, David, Schenectady, N. Y., assignor to General Electric Company. Composite electric conductor. 1,637,033; July 26.
- Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Transmission system. 1,632,817; June 21.
- Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,645,573; Oct. 18.
- Bascom, Henry M., Brooklyn, and C. B. Fowler, Queens; said Bascom assignor to American Telephone and Telegraph Company and said Fowler assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Straightforward trunking system. 1,650,683; Nov. 29.

- Bascon, Emile B. G., assignor to Societe Anonyme des Petroles Houillies et Derives Paris, France. Production of coke and semicoke. 1,618,563; Feb. 22.
- Basel, Eli A., Kansas City, Mo. Valve-operating means. 1,650,590; Nov. 29.
- Baseman, Ernest, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Hitching mechanism for connecting mowers and tractors. 1,646,519; Oct. 25.
- Basenau, Frederik, Amsterdam, Netherlands. Steam trap. 1,639,208; Aug. 16.
- Basford, Harold R., San Francisco, Calif. Folding stand. 1,614,818; Jan. 18.
- Bash, Frank E., Esq. (See Fairchild, C. O., and Bash.)
- Basham, Reginald, Onewhunga, New Zealand. Draft and rain excluder attachment for doors. 1,630,821; May 31.
- Bashenoff, Valerian I., Moscow, Russia. Method and arrangement for the multiple and directed receiving of radiosignals. 1,652,388; Dec. 13.
- Basho, Bela K., New York, N. Y. Peanut and potato sifter. 1,631,457; June 7.
- Bashor, Emery E., and E. N. Wray, Berthoud, Colo. Tractor hitch. 1,620,937; Mar. 15.
- Basil, Gerald L. (See Wakefield, F. W., Basil, and Schroeder.)
- Basinger, Mattie T., Kansas City, Mo. Paper doll. 1,621,231; Mar. 13.
- Baskeviller, Benjamin J., Joliet, Ill. Grain sprouter. 1,643,536; Sept. 27.
- Baskerville, Benjamin J., Joliet, Ill. Oat sprouter. 1,643,537; Sept. 27.
- Baskerville, Edward A., Omaha, Nebr., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,638,138; Aug. 9.
- Baskin, Louis, and M. Sternberg, Chicago, Ill. Combination ash tray and lamp cap. Des. 72,468; Apr. 19.
- Baskin, Maurice, et al. (See Watter, Michael, assignor.)
- Basore, George W., Berryville, Ark. Carpenter's wrecking tool. 1,646,894; Oct. 25.
- Basore, E. & J., Incorporated. (See Negbaur, Harry, as assignor.)
- Bass, William L., New York, N. Y. Toilet article. 1,639,628; Aug. 16.
- Bassan, Mordecai, Brooklyn, N. Y. Packing rugs, etc. 1,618,972; Mar. 1.
- Bassett, Charles W., Alameda, Calif. Combination vent and closure for cans. 1,618,694; Feb. 22.
- Bassett, Cyrus W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator-position indicator. 1,644,866; Oct. 11.
- Bassett, Cyrus W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Mounting and repairing means for electrical units. 1,652,809; Dec. 13.
- Bassett, Fred H., Washington, D. C. Dirigible balloon. 1,633,238; June 21.
- Bassett, George A. (See Wilkinson, H., and Bassett.)
- Bassett, Harry H., Flint, Mich. Radiator casing for automobiles. Des. 73,736; Nov. 1.
- Bassett, Harry P., Philadelphia, Pa., assignor to Electro Company, Odessa, Del. Purifying salt crystals from iron contaminants. 1,616,250; Feb. 1.
- Bassett, Harry P., Cynthiaana, Ky. Altering viscosity of cellulose-containing materials. 1,620,938; Mar. 15.
- Bassett, Harry P., Cynthiaana, Ky. Motor fuel. 1,641,520; Sept. 6.
- Bassett, Harry P., Cynthiaana, Ky., and T. F. Banigan, Clifton Heights, Pa., assignor, by mesne assignments, to said Bassett. Spinning threads. 1,642,290; Sept. 13.
- Bassett, Harry P., Cynthiaana, Ky., and T. F. Banigan, Clifton Heights, Pa., assignors, by mesne assignments, to said Bassett. Spinning artificial silk. 1,642,291; Sept. 13.
- Bassett, Henry L., Columbus, Ind. Shovel handle. 1,648,714; Nov. 8.
- Bassett, Preston R., assignor to The Sperry Gyroscopic Company, Brooklyn, N. Y. Arc lamp. 1,632,161; June 14.
- Bassett, Robert S., Buffalo, N. Y. Liquid meter. 1,620,151; Mar. 8.
- Bassett, William B. (See Lottman, Edward J., assignor.)
- Bassett, William H., Jr., Ansonia, assignor to The American Brass Company, Waterbury, Conn. Wrought-metal article. 1,630,999; May 31.
- Bassford, Abraham, Millwood, N. Y. Adjustable tennis net post. 1,641,246; Sept. 6.
- Basic Alemite Corporation. (See Zerk, Oscar U., assignor.)
- Basic Company, The. (See Herold, Walter F., assignor.)
- Basic Company, The. (See Moore, Raymond G., assignor.)
- Basic Mfg. Co., The. (See Carr, Fred S., assignor.)
- Basic Manufacturing Company, The. (See Anderson, Andrew G., assignor.)
- Basic Manufacturing Company, The. (See Carr, Moses F., assignor.)
- Basic Manufacturing Company, The. (See Davis, Ernest W., assignor.)
- Basic Manufacturing Company, The. (See Davis, E. W., and Reynolds, assignors.)
- Basic Manufacturing Company, The. (See Fessler, Douglas F., assignor.)
- Basic Manufacturing Company, The. (See Fuller, Percy H., assignor.)
- Basic Manufacturing Company, The. (See Gullborg, Arthur V., assignor.)
- Basic Manufacturing Company. (See Houghton, Herbert H., assignor.)
- Basic Manufacturing Company, The. (See Jacques, Raynaldo P., assignor.)
- Basic Manufacturing Company, The. (See Johnson, Gustav, assignor.)
- Basic Manufacturing Company, The. (See Manzel, Charles W., assignor.)
- Basic Manufacturing Company, The. (See Murphy, Howard J., assignor.)
- Basic Manufacturing Company, The. (See Pierce, Earl F., assignor.)
- Basic Manufacturing Company, The. (See Sonen, Clayton L., assignor.)
- Basic Manufacturing Company, The. (See Upham, Preston, assignor.)
- Basic Manufacturing Company. (See Wallace, Charles, assignor.)
- Basic Manufacturing Company, The. (See Zerk, Oscar, assignor.)
- Basic, William R. (See Pitman, Andrew C., assignor.)
- Bassler, Carlos J., assignor to American Liquid Meter Company, Portland, Oreg. Variable valve-operating means for fluid meters. 1,637,850; Aug. 2.
- Bassler, Edwin M., Milwaukee, Wis. Spraying apparatus. 1,636,949; July 26.
- Baster, Edward M., Milwaukee, Wis. Radiator. 1,641,148; Sept. 6.
- Bast, Frank J., New York, assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y. Controlling apparatus. 1,621,620; Mar. 22.
- Bast, Frank J., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Valve for automatic controllers and the like. 1,655,813; Dec. 27.
- Baster, Forest S., Detroit, Mich. Valve gearing for internal-combustion engines. 1,614,709; Jan. 18.
- Baster, Forest S., Detroit, Mich. Oiling system for internal-combustion engines. 1,614,773; Jan. 18.
- Baster, Forest S., Detroit, Mich. Valve gearing. 1,635,304; July 12.
- Bastian Blessing Company, The. (See Bastian, C. L., and Apsit, assignors.)
- Bastian-Blessing Company, The. (See Bastian, C. L., and Koch, assignors.)
- Bastian-Blessing Company, The. (See Bastian, Charles L., assignor.)
- Bastian, Charles L., assignor to The Bastian-Blessing Company, Chicago, Ill. Safety valve. 1,649,210; Nov. 15.
- Bastian, Charles L., assignor to The Bastian-Blessing Company, Chicago, Ill. Carbonator. 1,651,573; Dec. 6.
- Bastian, Charles L., and J. Apsit, assignors to The Bastian Blessing Company, Chicago, Ill. Torch. 1,639,450; Aug. 16.
- Bastian, Charles L., and P. Koch, assignors to The Bastian-Blessing Company, Chicago, Ill. Dispensing pump. 1,649,200; Nov. 15.
- Bastian-Morley Company. (See Birtch, Fred W., assignor.)
- Bastian, William B., Los Angeles, Calif. Quick-throw thermostat valve. 1,621,866; Mar. 22.
- Bastian, William B., Los Angeles, Calif. Gas burner. 1,632,820; Mar. 29.
- Bastien, Paul, Cleveland, Ohio. Brake. 1,620,752; Mar. 15.
- Bastien, Paul, Cleveland, Ohio. Brake-operating mechanism. 1,639,071; Aug. 16.
- Bastien, Paul, Cleveland, Ohio, assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,635,571; July 12.
- Bastien, Paul, Indianapolis, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,635,572; July 12.
- Bastien, Paul, and C. S. Crawford, assignors to F. E. Moskovics, Indianapolis, Ind. Automobile radiator. Des. 72,545; May 3.
- Bataille, Archimede, Toulouse, France. Cutting machine. 1,653,979; Dec. 27.
- Bat-Penny Corporation. (See Steinmetz, Herman, assignor.)
- Batchelder, Asa F., Scotia, N. Y., assignor to General Electric Company. Locomotive or car truck. 1,620,425; Mar. 8.
- Batchelder, Asa F., Scotia, N. Y., assignor to General Electric Company. Locomotive or car. 1,624,709; Apr. 12.
- Batchelder, Charles H., North Attleboro, Mass. Link. 1,647,797; Sept. 6.
- Batcheller, Hugh W., assignor to Bojac Manufacturing Co., Inc., Winooski, Vt. Circuit closer. 1,613,305; Jan. 4.
- Bate, John W., Racine, Wis. Double-lift jack. 1,629,140; May 17.
- Bateholts, Charles F., Schenectady, N. Y., assignor to General Electric Company. Talking-motion-picture apparatus. 1,652,924; Dec. 13.
- Bateholts, Clinton, Hoosick Falls, N. Y. Portable cabinet. Des. 72,663; May 17.
- Bateman, Charles E., Minneapolis, Minn. Window. 1,631,666; June 7.
- Bateman, Fred H., Co. (See Willis, Leland, assignor.)

- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Treating tubing and apparatus therefor. 1,634,066; June 28.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Process and apparatus for forming tubes. 1,634,067; June 28.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Making bags. 1,636,545; July 19.
- Bates, Adelmor M. deceased; C. H. Bates, administrator, assignor to Bates Valve Bag Company, Chicago, Ill. Method of and apparatus for packaging material. 1,637,891; Aug. 2.
- Bates, Adelmor M., and J. E. Dancker, assignors to Bates Valve Bag Company, Chicago, Ill. Bag-sewing machine. 1,625,782; Apr. 26.
- Bates, Adelmor M., and J. E. Dancker, assignors to Bates Valve Bag Company, Chicago, Ill. Stencil and making the same. 1,636,546; July 19.
- Bates, Adelmor M., and A. Krassa, assignors to Bates Valve Bag Company, Chicago, Ill. Sewing, severing, and seam reinforcing machine. 1,625,781; Apr. 26.
- Bates, Adelmor M., G. P. Dorr, and J. E. Dancker, assignors to Bates Valve Bag Company, Chicago, Ill. Method of and apparatus for severing and valving bag tubes. 1,623,228; Apr. 26.
- Bates, Albert H., Shaker Heights, Ohio, assignor to Motor Terminals Company, Wilmington, Del. Freight-handling apparatus. 1,612,901; Jan. 4.
- Bates, Albert H., Shaker Heights, assignor to The American Multigraph Company, Cleveland, Ohio. Latch for embossing machines. 1,627,684; May 10.
- Bates, Arthur, (See Reid, R. G. Bates, and Ricks.)
- Bates, Benjamin E., assignor to Wilson-Western Sporting Goods Company, Chicago, Ill. Helmet or headguard. 1,646,272; Oct. 18.
- Bates, Charles J., Jr., Englewood, N. J., assignor to The Mosler Safe Company, Hamilton, Ohio. Lock. 1,614,272; Jan. 11.
- Bates, Clara H., administratrix. (See Bates, Adelmor M.)
- Bates, Clifford V., assignor to The Cinch Manufacturing Corporation, Chicago, Ill. Radiocondenser. 1,612,902; Jan. 4.
- Bates, Edwin G. and R. C.; said R. C. Bates assignor to said Edwin G. Bates, Minneapolis, Minn. Making and holding dies for cutting paper figures. 1,618,048; Feb. 15.
- Bates, Edwin G. and R. C.; said R. C. Bates assignor to E. G. Bates, Minneapolis, Minn. Assembly plate and die-holding clamp. 1,638,180; Aug. 9.
- Bates, Franklin S., Mount Vernon, N. Y. Straw hat. 1,633,358; June 21.
- Bates, George T., assignor to Illinois Watch Case Company, Elgin, Ill. Watch case and making same. 1,627,705; May 10.
- Bates, Henry L., Greenfield, Mass. Artificial marble. 1,629,854; May 24.
- Bates, James H. S., Olympia, Wash., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,617,193; Feb. 8.
- Bates, Lindon W. (See Plauson, H., and Schröder, assignors.)
- Bates, Minot H., Brockton, Mass. Shoe or analogous article. Des. 73,396; Sept. 6.
- Bates, Minot H., Brockton, Mass. Shoe or analogous article. Des. 73,397; Sept. 6.
- Bates, Raymond C. (See Bates, Edwin G. and R. C.)
- Bates, Richard A., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Journal box. 1,649,439; Nov. 15.
- Bates, Solomon W., deceased, Portland Me.; F. E. Haines, executor. Oil burner. 1,634,819; July 5.
- Bates Valve Bag Company. (See Bates, Adelmor M., assignor.)
- Bates Valve Bag Company. (See Bates, A. M., and Dancker, assignors.)
- Bates Valve Bag Company. (See Bates, A. M., and Krassa, assignors.)
- Bates Valve Bag Company. (See Bates, A. M., Dorr, and Dancker, assignors.)
- Bates Valve Bag Company. (See Bushman, E. L., Curtis, and Ward, assignors.)
- Bates Valve Bag Company. (See Fegely, Nathan M., assignor.)
- Bates Valve Bag Company. (See Krassa, Albert, assignor.)
- Bates Valve Bag Company. (See Kronmiller, Carl G., assignor.)
- Bates Valve Bag Company. (See Kronmiller, C. G., and Cornell, assignors.)
- Bateson, Donald M., Marshalltown, Iowa. Snubber hook and quick-fastener link. 1,633,512; June 21.
- Bauer & Company. (See Machin, John S., assignor.)
- Bath, John, Worcester, Mass. Grinding threaded wire. 1,614,225; Jan. 11.
- Bath, John, Worcester, Mass. Thread gauge and holder. 1,654,233; Dec. 27.
- Bath, John, and E. A. Walker, Worcester, Mass., assignors, by mesne assignments, to said John Bath. Relieving mechanism for grinding machines. 1,651,432; Dec. 6.
- Batho, William F., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,615,671; Jan. 25.
- Batie, Joseph E., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Conveyor apparatus. 1,647,599; Nov. 1.
- Battles-Lite Co., The. (See Smith, Hensselaer J., assignor.)
- Battilani, Joseph, Toledo, Ohio. Paring and slicing knife. 1,638,468; Aug. 9.
- Battelle, Eugene B., New York, N. Y. Purifying liquids and making sugar. 1,646,079; Oct. 18.
- Batten, Richard W., Scammon, Kans. Pencil holder for shirt studs, etc. 1,615,322; Jan. 25.
- Batterman, John J., Brookline, assignor of one-half to J. J. Daly, Newton, Mass. Manufacture of rubber heels. 1,615,156; Jan. 18.
- Batterman, John J., Brookline, assignor of one-half to J. J. Daly, Newton, Mass. Manufacture of rubber heels. 1,622,077; Mar. 22.
- Batterman, John J., Dedham, Mass., assignor to Vacuum Refrigerating Company. Refrigerating apparatus. 1,642,321; Sept. 13.
- Batley, Bryan M. (See Batley, Sumter B. and B. M.)
- Batley, Sumter B. and B. M., New York, N. Y. Repeating mechanism for talking machines. 1,629,886; May 24.
- Batt, William A. (See Borton, G. W., and Battley.)
- Battilani, Stefano, New York, N. Y. Shoe tree. 1,631,786; June 7.
- Battle, James C., Los Angeles, Calif. Shock absorber. 1,654,399; Dec. 27.
- Battle, William T., assignor to G. F. Berkander, Providence, R. I. Barrette. 1,625,687; Apr. 19.
- Battle-Fyre Company. (See Burke, George W., Jr., assignor.)
- Batts, Carl T., Grand Rapids, Mich. Garment carrier. 1,639,021; Aug. 16.
- Batts, David A., Atlanta, Ga. Combined shade roller and holding means for windows. 1,637,795; Aug. 2.
- Batts, Walter H., Grand Rapids, Mich. Shipping box for clothing. 1,617,365; Feb. 15.
- Batts, Walter H., Grand Rapids, Mich. Shipping box for clothing. 1,626,381; Apr. 26.
- Bauer, Adolph, assignor to R. C. Jenkinson, doing business as R. C. Jenkinson & Co., Newark, N. J. Combined air purifier or humidifier and radiator vent valve. 1,624,774; Apr. 12.
- Bauer, Bruno, Vienna, Austria. Casing or mold box for concrete beams or ties. 1,628,385; May 10.
- Bauer Devices Inc. (See Bauer, Fred C., assignor.)
- Bauer, Frank, Williamsville, N. Y. Rigid aircraft. 1,632,611; Jun. 14.
- Bauer, Fred C., Irvington, N. J., assignor to Bauer Devices Inc. Contact-making device. 1,638,517; Aug. 9.
- Bauer, Frederick E., New York, N. Y. Electrical surgical apparatus. 1,645,215; Oct. 11.
- Bauer, George. (See Haines, August W., assignor.)
- Bauer, George L., Santa Ana, Calif. Walnut dehydrator. 1,625,151; Apr. 22.
- Bauer, Gus, Hamburg, and H. Kluge, Hamburg, Borstel, Germany. Ship-propelling plant. 1,614,819; Jan. 18.
- Bauer, Gustav F. C., Tonawanda, assignor to Rock Asphalt & Construction Co. Inc., Buffalo, N. Y. Retarding device. 1,613,782; Jan. 11.
- Bauer, Gustav, R. Wälde, Hamburg, and H. Kluge, Hamburg, Borstel, Germany. Arrangement for draining the chambers and passages of the fluid circuits of fluid gears and fluid couplings. 1,613,154; Jan. 4.
- Bauer, Jacob, assignor of one-third to C. L. Johnson and one-third to L. W. Johnson, Youngstown, N. Y. Inverting packages. 1,623,958; Apr. 12.
- Bauer, John, Detroit, Mich. Windshield. 1,624,906; Apr. 19.
- Bauer, Leo, et al. (See Wemlinger, William F., assignor.)
- Bauer, Martha V., Washington, D. C. Sanitary pad. Re1,650; Mar. 15.
- Bauer-Stuart Company, The. (See Stuart, Harve R., assignor.)
- Baugher, William J., Syracuse, N. Y. Anchor. 1,632,529; June 14.
- Bauer, William J., assignor to Foltite Chair Corporation, New York, N. Y. Collapsible chair. 1,643,107; Sept. 20.
- Bauerle, Charles E., assignor to The Motobile Products Company, Cleveland, Ohio. Motor-vehicle lock. 1,647,111; Oct. 25.
- Bauersfeld, Walther, assignor to Firm of Carl Zeiss, Jena, Germany. Device for projecting stars. 1,616,736; Feb. 8.
- Bauersfeld, Walther, assignor to the Firm of Carl Zeiss, Jena, Germany. Machine for making circle divisions. 1,653,426; Dec. 20.
- Bauch, Charles J. (See Kinkade, W. D., and Bauch.)
- Bauch, Linza C., assignor of one-half to R. E. Bauch, Pasadena, Calif. Transom and fittings. 1,654,400; Dec. 27.
- Bauch, Ruth E. (See Bauch, Linza C., assignor.)
- Baughman, George W., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,644,813; Oct. 11.
- Baughman, George W., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,653,384; Dec. 20.
- Baum, Ernst O., Ungenthal, near Kirchen, Germany. Compressed-air locomotive. 1,628,217; May 10.
- Baum, Ewald G., assignor to Seal-Kap Company, Natick, Mass. Milk-bottle cap. 1,615,157; Jan. 18.

- Baum, Ewald G., assignor to Seel-Kap Company, Natick, Mass. Bottle cap. 1,619,283; Mar. 1.
- Baum, Frank G., San Francisco, Calif., assignor to Westinghouse Electric and Manufacturing Company. Transmission system. 1,617,007; Feb. 8.
- Baum, Henry, Cleveland, Ohio. Compound tool. 1,617,563; Feb. 15.
- Baum, Isaac A., Memphis, Tenn. Plaster terminal. 1,618,695; Feb. 22.
- Baum, Max, New York, N. Y., assignor to Radice Electric Co., Inc. Wall-bracket lighting fixture. Des. 73,819; Nov. 15.
- Baum, Max, New York, N. Y., assignor to Radice Electric Co., Inc. Wall-bracket lighting fixture. Des. 73,820; Nov. 15.
- Baum, Max, New York, N. Y., assignor to Radice Electric Co., Inc. Electric light socket adapted. 73,821; Nov. 15.
- Baum, Max, New York, N. Y., assignor to Radice Electric Co., Inc. Strap for lighting fixtures. Des. 73,822; Nov. 15.
- Bauman, Arthur E., Akron, Ohio. Resilient tire. 1,624,856; Apr. 12.
- Bauman, Harry A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hot-water bottle. Des. 72,925; June 28.
- Bauman, Harry A., and R. M. Pierson, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Bathtub cap. Des. 72,926; June 28.
- Baumann, Christy J., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Bottle. Des. 71,899; Jan. 25.
- Baumann, Herman J. and J. F. West New York, N. J. Awning-operating device. 1,643,281; Sept. 20.
- Baumann, Herman J. and J. F. West New York, N. J. Awning-operating device. 1,643,282; Sept. 20.
- Baumann, John F. (See Baumann, Herman J. and J. F.)
- Baumann, Karl, Urnston, England, assignor, by mesne assignments, to Westinghouse Gear and Dynamometer Company. Double-reduction gear. 1,630,599; May 31.
- Baumann, Karl, Urnston, England, assignor, by mesne assignments, to Westinghouse Gear and Dynamometer Company. Reduction gearing. 1,632,989; June 21.
- Baumann, Karl, Urnston, England, assignor to Westinghouse Electric and Manufacturing Company. Flexible coupling for shafts. 1,639,480; Aug. 16.
- Baumann, Karl, Urnston, England, assignor to Westinghouse Electric and Manufacturing Company. Flexible coupling. 1,639,481; Aug. 16.
- Baumann, Karl, Urnston, England, assignor to Westinghouse Electric and Manufacturing Company. Flexible coupling for shafts. 1,639,644; Aug. 23.
- Baumberger, William J. (See Yerck, H. H. and Baumberger.)
- Baumberger, William J., Davenport, Iowa, assignor, by mesne assignments, to Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,631,183; June 7.
- Baumberger, William J., Davenport, assignor to Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,633,068; June 21.
- Baummeister, Hans, Stuttgart, Wilhelm E. Dörr, Friedrichshafen, Bodensee, Germany, and Karl Hürttle, Akron, Ohio, assignors to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gas-inflated airship. 1,623,653; Apr. 5.
- Baumgarten-Crussius, Carl A., Dresden, Germany. Obtaining a culture mixture for fertilizer production. 1,628,579; Apr. 26.
- Baumgartner, Dr. Katz & Co., G. m. b. H. (See Lechthaler, Robert, assignor.)
- Baumgartner, Werner, Elgin, Ill. Valve. 1,633,061; June 21.
- Baur, Hugo J., assignor, by mesne assignments, to S. S. Corham, trustee, Chicago, Ill. Fare box. 1,634,441; July 5.
- Baur, Mathieu J., Woodlyn, Pa. Ladder jack. 1,651,863; Dec. 6.
- Baurelle, Albert C. (See Carroll, John R., assignor.)
- Bares, Richard E., assignor to The Studebaker Corporation, Detroit, Mich. Shipping device. 1,638,612; Aug. 9.
- Bausch and Lomb Optical Company. (See Bernheim, Daniel P., assignor.)
- Bausch & Lomb Optical Company. (See Day, George H., assignor.)
- Bausch & Lomb Optical Company. (See Drescher, Theodore B., assignor.)
- Bausch & Lomb Optical Company. (See Flodin, Oscar H., assignor.)
- Bausch & Lomb Optical Company. (See Hart, E., and Gallasch, assignors.)
- Bausch & Lomb Optical Company. (See Kellner, Gustav A., assignor.)
- Bausch & Lomb Optical Company. (See McKinstrey, Arthur L., assignor.)
- Bausch & Lomb Optical Company. (See Newell, H. J., and Fermoli, assignors.)
- Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)
- Bausch & Lomb Optical Company. (See Sabel, John C., assignor.)
- Bausch and Lomb Optical Company. (See Stevens, Frederick A., assignor.)
- Bausch & Lomb Optical Company. (See Stevens, F. A., and Welsh, assignors.)
- Bausch & Lomb Optical Company. (See Stevenson, Clarence M., assignor.)
- Bausch and Lomb Optical Company. (See Welsh, James W., assignor.)
- Bauschard, John H., Erie, Pa. Wall-form tie. 1,651,313; Nov. 29.
- Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Starch-molding apparatus. 1,638,338; Jan. 23.
- Baupies, Raymond C., Maywood, Ill. Smoker's tray. Des. 73,364; Aug. 30.
- Baverey, François, assignor to Societe Du Carburateur Zenith, Lyon, France. Carburetor. 1,631,716; June 7.
- Bayington, Walter W., Okmulgee, Okla. Compressor. 1,625,378; Apr. 5.
- Baxter, Benjamin R., Goulburn, New South Wales, Australia. Agitating, washing, liming, or tanning solutions. 1,620,317; Mar. 8.
- Baxter, Bert, assignor to Baxter & Company, Welch, W. Va. Radiator casing or cover. 1,625,931; Apr. 26.
- Baxter & Company. (See Baxter, Bert, assignor.)
- Baxter, Harold G., Baldwin, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Fuse mechanism. 1,633,971; June 28.
- Baxter, Harold G., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,643,798; Sept. 27.
- Baxter, Mabel, Belvidere, Ill. Apron. 1,620,426; Mar. 8.
- Baxter, William C., assignor to E. M. Trimble Mfg. Co., Inc., Rochester, N. Y. Canopy or tent. 1,637,725; Aug. 2.
- Baxter, William C., assignor to E. M. Trimble, Rochester, N. Y. Folding crib. 1,640,024; Aug. 23.
- Baxter, William C., assignor to E. M. Trimble Mfg. Company, Inc., Rochester, N. Y. Wheel mounting for cribs or the like. 1,640,025; Aug. 23.
- Baxter, William E., Louisville, Ky. Automatic handle. 1,627,880; May 10.
- Baxter, William M., assignor to Ideal Removable Body Company, Chicago, Ill. Removable truck-body-locking mechanism. 1,615,532; Jan. 25.
- Baybutt, Richard, and E. S. Farrow, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Bleaching cellulose acetate. 1,623,519; Apr. 5.
- Baybutt, Richard, and E. S. Farrow, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose acetate and making the same. 1,635,026; July 5.
- Bayer, Gaudenz, Augsburg, Germany. Absorption refrigerating apparatus. 1,646,520; Oct. 25.
- Bayer, Herman K., and H. J. Epstein, St. Louis, Mo. Brake construction for sole-cutting machines. 1,627,370; May 3.
- Bayes, J. C., Furnace Company. (See Bryer, Edward R., assignor.)
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Wall bed. 1,628,763; May 17.
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Caster mounting. 1,630,514; May 31.
- Bayerische Spiegelglasfabriken Bechmann-Kupfer. (See Offenbacher, Leopold, assignor.)
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Chuck for rock drills. 1,649,651; Nov. 15.
- Bayles, Lewis C., Easton, Pa., and H. W. Morrow, Philadelphia, assignors to Ingersoll-Rand Company, Jersey City, N. J. Dies for forging caking and yarning irons. 1,651,082; Nov. 29.
- Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Disk valve for rock drills. 1,633,471; June 21.
- Bayless, Benjamin W., Louisville, Ky. Refrigerator. 1,630,160; May 24.
- Bayley, Marcus L., Spokane, Wash. Restaurant equipment. 1,648,531; Nov. 8.
- Bayley, William D., Springfield, Ohio. Silo. 1,637,018; July 26.
- Baylin, Jacob, Montreal, Quebec, Canada. Windshield wiper. 1,613,263; Jan. 4.
- Bayne, Walter L. (See Burkhardt, P. H., and Bayne.)
- Baynes, Edward C., Birmingham, Mich. Nut lock. 1,617,317; Feb. 15.
- Baynes, James B., Buffalo, N. Y. Engine. 1,625,638; Apr. 19.
- Bayport Foundry Company. (See Relland, Ernest S., and P. M., assignors.)
- Bay State Optical Company. (See Clulee, Stephen J., assignor.)
- Bay State Optical Company. (See Nerney, Edwin D., assignor.)
- Bay State Optical Company. (See Nerney, George E., assignor.)
- Bay State Optical Company. (See Siddall, Wilbur H., assignor.)
- Bayuk Cigars Incorporated. (See Kitchel, R. R., Lip-pard, and Mullan, assignors.)
- Bayuk Cigars Incorporated. (See Wurman, Harry P., assignor.)
- Bay View Furniture Company. (See Lindemann, Marvin C., assignor.)
- Bazeley, Arthur J. (See Blackmore, W., Bazeley, and Robinson.)
- Bazeley, Arthur J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,647,496; Nov. 1.

- Bazewick, Walter F., Binghamton, N. Y. Mop wringer. 1,636,445; Apr. 24, 1926.
- Beach, Chester H., Racine, Wis., assignor to Wisconsin Electric Company. Drink mixer. 1,650,256; Nov. 22.
- Beach, Clarence E., Binghamton, N. Y., assignor to The Gamewell Company, Newton, Mass. Signaling system. 1,627,685; May 10.
- Beach, David K., Worcester, Mass., assignor to Riley Stoker Corporation. Driving mechanism for clinker grinders. 1,651,433; Dec. 6.
- Beach, David K., and I. A. Taylor, Worcester, Mass., assignors to Riley Stoker Company. Driving mechanism for clinker grinders. 1,654,234; Dec. 27.
- Beach, Edward F., assignor to H. H. Robertson Company, Pittsburgh, Pa. Ventilator. 1,632,871; June 21.
- Beach, Hamilton, Mfg. Co. (See Bangs, Edwin Q., assignor.)
- Beach, Harold K. (See Staples, H. A., and Beach.)
- Beach, Henry L., Brooklyn, N. Y. Container. 1,621,451; Mar. 15.
- Beach, Howard L., assignor to Clark Car Company, Pittsburgh, Pa. Latch-release mechanism. 1,643,974; Oct. 4.
- Beach, John M., Grand Rapids, Mich. Radiocabinet. Des. 71,900; Jan. 25.
- Beach, John M., Grand Rapids, Mich., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radiocabinet or the like. Des. 7,045; Dec. 15.
- Beach, John M., and G. Fletcher, Grand Rapids, Mich., assignors to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Combined radio and photograph cabinet or similar article. Des. 73,474; Sept. 20.
- Beach, John W. (See Bristow, John J. R., assignor.)
- Beach, Mally J., Ridgefield, Conn. Finger and thumb nail buffer. 1,646,848; Oct. 25.
- Beach, Milo D., Litchfield, Conn. Braking motor vehicles. 1,624,525; Apr. 12.
- Beach, Milo D., Litchfield, Conn. Braking motor vehicles. 1,624,574; Apr. 12.
- Beach, Ralph H., Belleville, N. J. Carburetor. 1,613,599; Jan. 11.
- Beach, Riley F. (See Johnson, Kirk A., assignor.)
- Beachler, George F., Cleveland, Ohio. Sphygmomanometer. 1,640,920; Aug. 30.
- Beacon Oil Company. (See Bolton, Harold L., assignor.)
- Beacon Steel Furniture Co. (See Rosenthal, A. E., and Clarin, assignors.)
- Bead Chain Manufacturing Company, The. (See Gagnon, Bernard E., assignor.)
- Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
- Bead Chain Manufacturing Co., The. (See Goodridge, Gilbert W., assignor.)
- Beadle, George W., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing device. 1,620,318; Mar. 8.
- Beagle, Frank A., assignor to one-half to Muhleman & Kayhoe, Incorporated, Richmond, Va. Roof tile and making the same. 1,627,266; May 3.
- Beall, Charles R., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,632,162; June 14.
- Beall, Charles R., Swissvale, and R. M. Gilson, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Overload circuit breaker. 1,636,037; July 19.
- Beall, Frank F., et al., trustees. (See Ramage, Alexander S., assignor.)
- Beall, John S., Portland, Ore. Pipe-testing machine. 1,647,121; Nov. 1.
- Beale, Allen E., et al., executors. (See Francke, William J., et al.)
- Beam, Aron M., Denver, Colo., deceased; L. J. Beam, administrator. Continuously-operating ore or ore-shale converting retort furnace. 1,627,538; May 3.
- Beam, Leroy J., administrator. (See Beam, Aron M.)
- Beamer, Charles W., Tonopah, Nev. Combination brace and drill. 1,625,517; Apr. 19.
- Bean, Charles E., Kansas City, Kans. Domestic cooking utensil. 1,615,865; Feb. 1.
- Bean, James O., Brazos, Tex. Gear. 1,648,715; Nov. 8.
- Bean, Charles E., Kansas City, Kans. Domestic cooking utensil. 1,615,865; Feb. 1.
- Bean, Leon H., New York, N. Y., assignor to Hollander-Langee, Inc. Machine for making buttons. 1,619,233; Mar. 1.
- Bean, Leon L., Freeport, Me. Inside protecting stay for leather-top rubbers. 1,620,712; Mar. 15.
- Bean, Orestes U., New York, N. Y., assignor to Bean Process Syndicate, Incorporated. Producing gas. 1,621,652; Mar. 22.
- Bean Process Syndicate, Incorporated. (See Bean, Orestes U., assignor.)
- Bean, Thomas R., Guernsey, Channel Islands, and R. E. Taudevin, Welwyn, Hertford, England. Utilizing wave motion for the propulsion of ships and their auxiliary machinery. 1,622,178; Mar. 22.
- Bean, Vital A., Keene, N. H. Chain fastener. 1,648,104; Nov. 8.
- Bean, William L., West Haven, Conn. Locomotive smoke-box and saddle construction. 1,625,784; Apr. 26.
- Bean, William L., West Haven, Conn. Locomotive smoke box. 1,639,792; Aug. 23.
- Bean, William L., West Haven, Conn. Locomotive smoke-box structure. 1,647,335; Nov. 1.
- Bean, William L., West Haven, Conn. Locomotive-smoke-box structure. 1,650,684; Nov. 29.
- Beanish, John T. (See Prichard, Channing, assignor.)
- Bear, Belle. (See Bear, Theodore, assignor.)
- Bear, Montague M., Atlanta, Ga. Garter. 1,634,169; June 28.
- Bear, Theodore, assignor to Belle Bear, Chicago, Ill. Smoking set. 1,641,657; Sept. 6.
- Bear, Theophilus L., Camden, N. J. Spoon. Des. 73,475; Sept. 20.
- Bear Tractor Corporation of America. (See Leake, Thomas C., assignor.)
- Beard, Arthur L., Minneapolis, Minn. Lock. 1,642,480; Sept. 13.
- Beard, John E., Kansas City, Mo. Automobile brake. 1,618,748; Feb. 22.
- Beard, Lawrence O., Lancaster, Pa. Valve-refacing tool. 1,631,850; June 7.
- Beard, Lawrence O., Lancaster, Pa. Valve-seat-refacing tool. 1,639,835; Aug. 23.
- Beard, Leonard O., and E. J. Bendtsen, Concrete, Wash. Oil brake. 1,617,366; Feb. 15.
- Beard, Percy M., Tulsa, Okla. Hair-curling device. 1,630,560; May 31.
- Beard, William E., and W. E. Hostetter, Buckner, Mo. Quick-service oil bottle. 1,652,696; Dec. 13.
- Beardmore, William. (See Chorlton, Alan E. L., assignor.)
- Beardslee Chandelier Manufacturing Company. (See Dvorak, Anton, assignor.)
- Beardsley, Charles B., Waterbury, assignor to The Risdon Manufacturing Company, Naugatuck, Conn. Smokers' stand. Des. 73,596; Oct. 11.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding machine. 1,618,630; Feb. 22.
- Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)
- Beardsley, Robert, Chicago, Ill. Lamp. Des. 73,157; Aug. 2.
- Beardsley, Robert, Chicago, Ill. Lamp shade. Des. 73,889; Nov. 22.
- Beardsley, Robert, Chicago, Ill. Papier-mâché product and making the same. 1,618,263; Feb. 22.
- Beardsley, Robert, Chicago, Ill. Shade. 1,651,364; Dec. 6.
- Beardfoot, Sole Co. Inc. (See Calvin, Edwin, assignor.)
- Bearings Company of America, The. (See Chambers, David F., assignor.)
- Bearly, Fred D., Oklahoma City, Okla. Derrick. 1,645,980; Oct. 18.
- Bearse, Ephraim L., Centerville, Mass. Candle support. 1,647,898; Nov. 1.
- Beasley, Edwin W., Durham, N. C. Cotton chopper and feeder. 1,634,010; June 28.
- Beasley, John W., Jr., Los Angeles, Calif. Electrical switch. 1,651,314; Nov. 29.
- Beasley, Starley F., Kansas City, Kans. Tank car. 1,615,672; Jan. 25.
- Beasley, Starley F., Kansas City, Mo., assignor to one-half to F. E. Wellman, Kansas City, Kans. Truck-bolster reinforcement saddle. 1,647,767; Nov. 1.
- Becker, John, et al. (See Aichele, Ernest, assignor.)
- Beasley, Walter J., Kew, Victoria, Australia. Collapsible casing. 1,648,890; Nov. 15.
- Beaton, Greek P., assignor to J. McCracken, Coin, Iowa. Circuit closer. 1,632,530; June 14.
- Beaton & Cadwell Manufacturing Company, The. (See Cadwell, W. H., Ott, and Crocker, assignors.)
- Beatty, John W., et al., assignor to Universal Optical Corporation, Providence, R. I. Making ophthalmic mountings. 1,635,699; July 12.
- Beattie, George W., Highland, Calif. Irrigating and mining water meter. 1,634,011; June 28.
- Beattie Manufacturing Co., The. (See Beattie, Walter J., assignor.)
- Beattie, Walter J., assignor to The Beattie Manufacturing Co., Cohoes, N. Y. Marking machine. 1,653,334; Dec. 20.
- Beatty, Douglas T., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Casting. 1,614,862; Jan. 18.
- Beatty, Douglas T., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Centrifu-gally cast pipe. 1,614,863; Jan. 18.
- Beatty, Earl W., Falls City, Nebr. Cotter pin. 1,621,346; Mar. 15.
- Beatty, George W., Decatur, Ill. Fire-control apparatus. 1,612,851; Jan. 4.
- Beatty, George W., Decatur, Ill. Fuse-setting machine. 1,640,392; Aug. 30.
- Beatty, William G., Fergus, Ontario, Canada, assignor to Haag Brothers Company, a copartnership composed of George A. Haag and Albert R. Haag, East Peoria, Ill. Wringer. 1,616,827; May 17.

- Beatty, William H., Birmingham, Ala., assignor to James B. Clow & Sons. Centrifugal molding machine. 1,620,427; Mar. 8.
- Beatty, William T., Flossmoor, F. S. Davis, Homewood, and F. D. Wilson, Harvey, assignors to Austin Manufacturing Co., Chicago, Ill. Telescoping-axle leaning-wheel road grader. 1,651,315; Nov. 29.
- Beatty, Bruce, assignor to The Universal Milking Machine Co., Waukesha, Wis. Dairy-Equipment cleaner. 1,627,824; May 10.
- Beaty, Edward E., Seattle, Wash. Cutter head. 1,636,403; July 19.
- Beaty, Floyd, et al. (See Patterson, Roy G., assignor.)
- Beauchamp, Clifford J. R., London, England. Stopper for vacuum flasks and other containers. 1,652,156; Dec. 6.
- Beauchamp, Dora F., Forest Hills, N. Y. Vehicle signal. 1,626,131; Apr. 26.
- Beauchamp, Dora F., Forest Hills, N. Y. Adjustable reflector. 1,628,218; May 10.
- Beaudet, Theodore F. X., Elaine, Wash. Gold washer. 1,619,568; Mar. 1.
- Beaulac, Charles E., Bartlettville, Alberta, Canada. Movable headlight. 1,632,691; June 14.
- Beaulieu, Joseph, Lynbrook, N. Y. Automatic damper. 1,641,875; Sept. 6.
- Beaumont Manufacturing Company. (See Burnett, William J., assignor.)
- Beaumont, R. H., Co. (See Beaumont, Robert H., assignor.)
- Beaumont, R. H., Co. (See Birch, Herbert E., assignor.)
- Beaumont, R. H., Co. (See Hale, William E., assignor.)
- Beaumont, R. H., Company. (See Warner, Arthur, assignor.)
- Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Co., Philadelphia, Pa. Flow-facilitating means for gravity hoppers. 1,622,565; Mar. 29.
- Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Co., Philadelphia, Pa. Material storage and handling system. 1,622,566; Mar. 29.
- Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Co., Philadelphia, Pa. Cable-winding mechanism. 1,649,279; Nov. 15.
- Beaumont, William M. (See King, R. E. and Beaumont.)
- Beaumont, William M., Summit, N. J., and F. A. Bonomi, Brooklyn, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,629,016; May 17.
- Beauprie, Arthur W. (See Taylor, Mark, assignor.)
- Beauregard, Victor, Boston, Mass. Hair clipper. 1,642,532; Sept. 13.
- Beauvais, Ernest J. (See Nall, T. O. and Beauvais.)
- Beaver, Byron R., Ulysses, Neb. Wrench. 1,623,379; Apr. 5.
- Beaverland Corporation, The. (See Artz, Anthony C., assignor.)
- Beaver Machine and Tool Company. (See Chadwick, Francis C., assignor.)
- Beaver Machine & Tool Co. (See Slade, Harold E., assignor.)
- Beaver Machine & Tool Co. Inc. (See Slade, Harold E., assignor.)
- Beaver Products Company, The. (See Barratt, Edgar G., assignor.)
- Beazell, William S., Lakewood, Ohio. Card holder. 1,618,163; Feb. 22.
- Bebel, Abraham, Brooklyn, N. Y., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Hook and eye tape. 1,622,408; Mar. 29.
- Bebray, Percival P., West Roxbury, Mass., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Tufted-mattress bulion. 1,627,723; May 10.
- Becerra, Pedro H. (See Campos, A. and Becerra.)
- Beckard, Emile J., Levallois-Perret, France. Fire-extinguishing and like apparatus. 1,630,251; May 31.
- Becher, Edward, New York, N. Y. Massaging heating roller. 1,634,316; July 5.
- Becher, Hubert L. (See Harvey, H. C. and Becher.)
- Beckgaard, Poul, Dalby, Sweden. Jaw or breaker plate for stone crushers and the like. 1,643,048; Sept. 20.
- Beckie, Edward, Kiel, Wis. Bow-facing oar. 1,634,282; July 5.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Inking mechanism for printing presses. 1,643,799; Sept. 27.
- Beckman, William C., and E. C. Knudsen, Chicago, Ill. Hoisting derrick. 1,646,133; Oct. 18.
- Beckstein, Carl A., et al. (See Jones, Ira M., assignor.)
- Beckstein, Carl A. (See Kornitz, Ewald E., assignor.)
- Becht, Robert F., Silverton, Ohio. Coating machine and coating cylindrical objects. 1,622,174; Mar. 22.
- Becht, Robert F., Silverton, assignor to The Kenton Baking Powder Company, Cincinnati, Ohio. Marking device. 1,642,983; Sept. 20.
- Becht, Robert F., Silverton, assignor to The Kenton Baking Powder Company, Cincinnati, Ohio. Sealing cans. 1,642,984; Sept. 20.
- Bechtel, George M., Montclair, N. J. Contents-level indicator for containers. 1,625,973; Apr. 26.
- Bechtold, William S., Newark, N. J. Mirror or similar article. Des. 72,469; Apr. 19.
- Beck, Adolf, Bitterfeld, Germany. Making casting mold. 1,614,820; Jan. 18.
- Beck, Albert, assignor to McGill Metal Products Company, Chicago, Ill. Hand punch. 1,641,521; Sept. 6.
- Beck, Alwin H., and E. S. Mix, assignors to Hickok Manufacturing Company, Inc., Rochester, N. Y. Detachable link. 1,642,322; Sept. 13.
- Beck, Charles F., Park Ridge, Ill. Combination letter-box and house-number sign. Des. 73,476; Sept. 20.
- Beck, Charles W., Toledo, Ohio, assignor to Beck-Frost Corporation, Detroit, Mich. Oil-can holder. 1,619,099; Mar. 1.
- Beck, Charles W., Toledo, Ohio, assignor to The Beck-Frost Corporation, Detroit, Mich. Automobile can holder. 1,644,665; Oct. 11.
- Beck, Dupliator Company, The. (See Fecher, F. F., Danheiser, and Baldauf, assignors.)
- Beck, Edward, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mercury arc rectifier. 1,624,383; Apr. 12.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Spoon or similar article. Des. 72,786; June 7.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Side panel for metal dishes or similar articles. Des. 72,881; June 21.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Side panel for metal dishes or similar articles. Des. 72,882; June 21.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Base for metal bowls or similar articles. Des. 72,883; June 21.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Border panel for metal dishes or similar articles. Des. 72,884; June 21.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Base for a fountain pen holder. Des. 72,885; June 21.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Base for a fountain pen holder. Des. 72,886; June 21.
- Beck, Fitzhugh L., Barksdale, Tex. Pneumatically-operated railway gate. 1,638,316; Aug. 9.
- Beck, Foster A., Allentown, Pa. Combined suction tube and tongue depressor. 1,618,373; Jan. 4.
- Beck-Frost Corporation, The. (See Beck, Charles W., assignor.)
- Beck-Frost Corporation, The. (See Lober, George H., assignor.)
- Beck, George C., Spokane, Wash. Piston-groove cleaner and deepener. 1,644,006; Oct. 4.
- Beck, John, Brooklyn, N. Y. Combination article of furniture. 1,645,685; Oct. 18.
- Beck, Joseph M. (See Combs, W. F. and Beck.)
- Beck, Joseph, and A. E. Gallin, Taft, Calif. Motor-driven saw. 1,648,632; Nov. 8.
- Beck, Karl. (See Wagner, H., Langbein, Beck, and Thies.)
- Beck, Kenneth H., and E. H. Blackburn, Pittsburgh, Pa. Door catch. 1,627,825; May 10.
- Beck, Lester C., and J. Lamuscu, Maysville, Okla. Check valve. 1,652,341; Dec. 13.
- Beck, Michael, Minneapolis, Minn. Vaporizer and pre-heater for internal-combustion engines. 1,619,496; Mar. 18.
- Beck, Riley, Dows, Iowa. Water circulator and air moistener for water-cooled internal-combustion engines. 1,623,229; Apr. 5.
- Beck, Sigmund, Nuremberg, Germany. Paintbrush. 1,646,182; Oct. 18.
- Beck, William E., Herrick, Ill. Article clip. 1,652,972; Dec. 13.
- Becker, Albert H. (See Nichol, Orr T., assignor.)
- Becker, Albert W., Windsor, Conn. Heating attachment. 1,642,292; Sept. 13.
- Becker, Alfred A., Lakewood, assignor to The George H. Bowman Company, Cleveland, Ohio. Wagon. 1,639,124; Aug. 16.
- Becker, Allen J., Upper Montclair, N. J. Automatic stevedore-truck brake. 1,640,308; Aug. 23.
- Becker, Arman E., Elizabeth, N. J., assignor to Standard Development Company. Lubricant and making the same. 1,628,646; May 17.
- Becker, Arman E., Elizabeth, N. J., assignor to Standard Development Company. Lubricating internal-combustion engines. 1,628,647; May 17.
- Becker, August M., New York, N. Y. Machine for coating webs with adhesive. 1,618,631; Feb. 22.
- Becker, Bernard C., York, Pa. Clasp for pencils. 1,646,742; Oct. 25.
- Becker, Charles M., Brooklyn, assignor to Smiling Charlie, Inc., New York, N. Y. Method and apparatus for molding confections. 1,617,564; Feb. 15.
- Becker, Dean B., Fort Atkinson, Wis. Jacketed casing. 1,628,524; May 10.
- Becker, Edmund H. (See Martus, M. L., and Becker.)
- Becker, Edmund H. (See Martus, M. L., Becker, and Ross.)
- Becker, Eulabee D., New York, N. Y. Embroidery and process. 1,646,383; Oct. 25.
- Becker, Frank, Jr., Mount Carroll, Ill. Incubator egg tray. 1,642,323; Sept. 13.
- Becker, Fred, Buffalo, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,626,779; May 3.
- Becker, Frederick W., East Rutherford, N. Y. Welding and cutting apparatus. 1,638,359; June 21.
- Becker, George J., Annandale, N. Y. Piano key. 1,623,381; Apr. 5.

- Becker, George W., Brooklyn, N. Y. Automobile door. 1,643,939; Oct. 4.
- Becker, Harry S., River Forest, assignor to American Flyer Manufacturing Company, Chicago, Ill. Wire-terminal clip for toy tracks. 1,620,428; Mar. 8.
- Becker, Hazen K., and E. G. Jurgens, assignors to Peters Machinery Company, Chicago, Ill. Carton-blank separator. 1,638,518; Aug. 9.
- Becker, Heinrich, Kiel-Hassee, assignor to Fried. Krupp Germaniaewerft Aktiengesellschaft, Kiel-Gaarden, Germany. Cylinder for internal-combustion engines. 1,627,549; May 10.
- Becker, Heinrich, Kiel-Hassee, assignor to Fried. Krupp Germaniaewerft Aktiengesellschaft, Kiel-Gaarden, Germany. Valve gear for power engines. 1,645,574; Oct. 18.
- Becker, Heinrich, Kiel-Hassee, assignor to Fried. Krupp Germaniaewerft Aktiengesellschaft, Kiel-Gaarden, Germany. Cylinder for two-stroke internal-combustion engines with scavenging ports. 1,645,575; Oct. 18.
- Becker, Heinrich, Kiel-Hassee, assignor to Fried. Krupp Germaniaewerft Aktiengesellschaft, Kiel-Gaarden, Germany. Internal-combustion engine. 1,649,440; Nov. 15.
- Becker, John, Warren, Idaho. Bottle-washing device. 1,622,900; Mar. 29.
- Becker, John F., (See Bruhn, J. H., and Becker.)
- Becker, John J., New York, N. Y. Mechanical toy. 1,643,916; Sept. 27.
- Becker, John J., New York, N. Y. Figure wheeled toy. 1,643,917; Sept. 27.
- Becker, John J., New York, N. Y. Toy steamboat. 1,643,918; Sept. 27.
- Becker, John J., New York, N. Y. Mechanical toy. 1,651,244; Nov. 29.
- Becker, John J., New York, N. Y. Sounding toy. 1,651,245; Nov. 29.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Combination oven. 1,623,460; Apr. 5.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia-saturator apparatus. 1,654,159; Dec. 27.
- Becker, Joseph E., San Francisco, Calif. Trailer-steering device. 1,645,892; Oct. 13.
- Becker, Lucien E., (See Small, William J., assignor.)
- Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Spreader mechanism for sewing machines. 1,622,277; Mar. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,956; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,957; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,958; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,959; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,960; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,961; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,962; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,963; Nov. 29.
- Becker, Wilhelm, New York, N. Y. Watchcase. Des. 73,964; Dec. 6.
- Becker, William P., Pelham, assignor to The New York Last Company, New York, N. Y. Last. 1,625,538; Apr. 19.
- Becket, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Making molybdenum steel. 1,613,571; Jan. 4.
- Becket, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Making molybdenum steel. 1,615,501; Jan. 25.
- Becket, Frederick M., Douglaston, assignor to Electro Metallurgical Company, New York, N. Y. Composition for treating metal baths and making the same. 1,622,078; Mar. 22.
- Becket, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Chromium-plated carbon article. 1,650,688; May 31.
- Beckett, Ivan, New York, N. Y. Filing and indexing apparatus. 1,626,661; May 3.
- Beckett, Laycock & Watkinson Limited. (See Hirst, Charles E., assignor.)
- Beckett, William A., Kingsville, Ontario, Canada. Gas burner. 1,644,505; Oct. 4.
- Beckfield, William J., Pittsburgh, Pa. Nut lock. 1,643,484; Sept. 27.
- Beckford, Frederick, White House, N. J. Paint mixer. 1,616,567; Feb. 8.
- Beckhardt, Gene G., Brooklyn, N. Y. Display apparatus. 1,649,652; Nov. 15.
- Beckley, Ethel P., (See Beckley, William R., assignor.)
- Beckley, Joseph C., Tampa, Fla. Orchard heater. 1,637,988; Aug. 2.
- Beckley, William R., assignor to E. P. Beckley, Omaha, Nebr. Electric autocondensation pad. 1,622,244; Mar. 22.
- Beckman, Arthur C., Mound City, S. Dak. Corn harvesting and husking machine. 1,646,004; Oct. 18.
- Beckman, Gustaf S., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Thread guide for winding machines. 1,648,439; Nov. 8.
- Beckman, John W., Oakland, assignor of sixty per cent to G. C. Roeding, Piedmont, Calif. Pickling fruit, etc. 1,621,188; Mar. 15.
- Beckmann, Carl. (See Anderson, E. D., and Beckmann.)
- Beckmann, Jacob H., New York, N. Y. Watchcase. Des. 74,134; Dec. 27.
- Beckmann, Jacob H., New York, N. Y. Watchcase. Des. 74,135; Dec. 27.
- Beckmann, Johannes, Altona-Ottensen, Germany. Explosion-proof fitting for electric glowlamps. 1,629,089; May 17.
- Beckmann, Johannes, Charlottenburg, Germany, assignor to General Electric Company. Electric furnace system. 1,631,667; June 7.
- Beckord, Frederick, White House, N. J. Scraper. 1,641,522; Sept. 6.
- Beckstein, George C., Buffalo, N. Y. Ring. Des. 73,554; Oct. 4.
- Beckstrom, August W., (See Ellison, E. H., and Beckstrom.)
- Beckwith, Charles J., Brooklyn, assignor, by mesne assignments, to Johns-Manville, Incorporated, New York, N. Y. Floor construction. 1,642,324; Sept. 13.
- Beckwith, Clinton H., Geneva, assignor to Crane Co., Chicago, Ill. Limit switch. 1,646,080; Oct. 18.
- Beckwith, Harry H., (See Swett, Charles E., assignor.)
- Beckwith, James, Eugene, Oreg. Carbonized article and making same. 1,624,710. Apr. 12.
- Beckwith Manufacturing Company. (See Clapp, Albert L., assignor.)
- Beconnier, Paul M., Paris, France. Shock absorber. 1,645,576; Oct. 18.
- Becsi, Peter, Durand, Mich. Blotter device for pens. 1,623,614; Apr. 5.
- Becusman, Charles G., Chicago, Ill. Bank and method of collecting money. 1,648,891; Nov. 15.
- Bedard, Frank, Flint, Mich. Telescope air jet. 1,624,384; Apr. 12.
- Bedard, Frank, Flint, Mich. Portable air jet for paper machines. 1,644,226; Oct. 4.
- Bedard, Frank W., Ottawa, Ontario, Canada. Automobile alldlight. 1,614,821; Jan. 13.
- Bedford, Clayton W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., and The Goodyear Tire and Rubber Company, Akron, Ohio. Vulcanization of caoutchouc. 1,613,572; Jan. 4.
- Bedford, Clayton W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., and The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanization of caoutchouc. 1,613,573; Jan. 4.
- Bedford, Clayton W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., and The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanization of caoutchouc. 1,613,574; Jan. 4.
- Bedford, Clayton W., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing caoutchouc. 1,645,084; Oct. 11.
- Bedford, Clayton W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing rubber. 1,650,975; Nov. 29.
- Bedford, Roy. (See Roaten, J. T., and Bedford.)
- Bedgood, Hubert O., Glasgow, assignor to Lobnitz & Company Limited, Slip Dock, Renfrew, Scotland. Anchoring dredges. 1,613,374; Jan. 4.
- Bedington, Sydney J., London, England, assignor to S. Knaggs, New York, N. Y. Building card structure and blank for producing the same. 1,648,604; Nov. 8.
- Bednarz, Edward, Everett, Wash. Signal for vehicles. 1,623,903; Apr. 5.
- Bedortha, Luther E., (See Marshall, W. H., Killgore, and Bedortha.)
- Bee, May P., New York, N. Y. Handkerchief. Des. 72,347; Apr. 5.
- Beebe, Daniel S., Chicago, Ill., assignor to The Vitrolite Company, Parkersburg, W. Va. Pouring apparatus for glass furnaces. 1,643,601; Sept. 27.
- Beebe, Eugene F., Minneapolis, Minn. Resilient mounting for washing-machine plungers. 1,632,443; June 21.
- Beebe, Frederick H., assignor to The Western Construction Company, Fort Wayne, Ind. Motor-operated gate valve. 1,616,841; Feb. 8.
- Beebe, Harold C., New Haven, Conn. Coin-controlled lock. 1,621,100; Mar. 15.
- Beebe, Leslie W., Oak Park, Ill. Liquid-control system. 1,619,234; Mar. 1.
- Beebe, Murray C., and A. Murray, Cincinnati, Ohio, assignors to The Wadsworth Watch Case Company, Dayton, Ky. Offset litho process. 1,618,505; Feb. 22.
- Beebe, Ollie E., Lansing, Mich. Home-baker's measure. 1,642,985; Sept. 20.
- Beebe, Paul, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for and making articles from a fibrous composition. 1,623,933; Apr. 5.
- Beebe, Paul, assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Machine for making a rubberized fibrous composition. 1,642,008; Sept. 13.
- Beebe, Robert H., Seattle, Wash. Brake. 1,623,380; Apr. 5.
- Beebe, Stanley J., assignor to Endicott-Johnson Corporation, Endicott, N. Y. Base for paints. 1,616,673; Jan. 25.
- Beebee, Eugene L., Poplar, Mont. Lubricant-cooling attachment for Ford engines. 1,653,427; Dec. 20.
- Beech, Alexander C., Chicago, Ill., assignor to Kroehler Mfg. Co., Neperville, Ill. Reclining chair. 1,626,069; Apr. 26.

- Beech, Alexander C., Chicago, assignor to Kroehler Mfg. Co., Naperville, Ill. Adjustable armchair. 1,628,764; May 17.
- Beecher, Elmer C., Wakeman, Ohio, assignor of one-third to H. C. Beecher, San Francisco, Calif., and one-third to R. L. Beecher, Detroit, Mich. Auto traffic signal. 1,646,895; Oct. 25.
- Beecher, Herbert C., et al. (See Beecher, Elmer C., assignor.)
- Beecher, Milton F. (See Jeppson, G. N., and Beecher.)
- Beecher, Raymond L., et al. (See Beecher, Elmer C., assignor.)
- Beechlyn, John T., Worcester, Mass. Optical projection. 1,651,574; Dec. 6.
- Beechlyn, John T., Worcester, Mass., assignor to General Electric Company. Lens. 1,615,674; Jan. 25.
- Beechlyn, John T., Boston, Mass., assignor to General Electric Company. Light projector using Fresnel lens. 1,650,591; Nov. 29.
- Bechtel, David W., assignor of forty-nine per cent to M. L. Arnold, Los Angeles, Calif. Tire valve. 1,624,914; Apr. 19.
- Beedle, Edwin W., San Francisco, Calif. Automatic type lock. 1,632,175; Mar. 22.
- Beedle, Edwin W., San Francisco, Calif. Galley type clamp. 1,633,918; June 28.
- Beegle, Raymond E., East St. Louis, Ill., assignor of one-half to W. J. Steinbreder, St. Louis, Mo. Clamping device. 1,651,396; June 7.
- Beeman, Ross C., Kansas City, Kans. Washing machine. 1,635,356; July 12.
- Beem, John C., Sawtelle, Calif. Drafting instrument. 1,632,267; June 14.
- Beenken, Daniel D., Santa Barbara, Calif. Multiple-record photograph. 1,622,756; Mar. 29.
- Beer, James C., Long Beach, Calif. Mail box. 1,642,533; Sept. 13.
- Beers, Burton B. (See Labadie, H. H., and Beers.)
- Beers, Floyd J., Chemung, N. Y. Bottled-beverage cooler. 1,652,600; Dec. 13.
- Beers, Royce L., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Tuyere structure. 1,620,056; Mar. 3.
- Beers, Royce L., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Side tuyere structure. 1,620,057; Mar. 8.
- Beers, Royce L., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Fuel-distributing means for underfeed stokers. 1,620,509; Mar. 8.
- Beers, Royce L., assignor to Detroit Stoker Company, Detroit, Mich. Underfeed stoker. 1,625,975; Apr. 26.
- Beers, Royce L., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Rear-end structure for rear-dump stokers. 1,630,464; Mar. 31.
- Beers, William C. (See Hunt, Clarence T., assignor.)
- Beery, Joseph C., Kansas City, Mo. Combined muffler and cut-out. 1,615,564; Jan. 25.
- Beery Shocker, Incorporated. (See Dickinson, Harry S., assignor.)
- Beesch, Hazel O., et al., administrators. (See Owens, Michael J.)
- Beesley, Cora G., Chicago, Ill. Marcel weaver. 1,622,821; Mar. 29.
- Beeson, Frank, Alliance, Nebr. Windmill attachment. 1,615,820; Feb. 1.
- Beetham, Marcus F., and R. H. Moore, assignors to Whiting Corporation, Harvey, Ill. Door closure for rotatable receptacles. 1,630,600; May 31.
- Beetz, Hans B., San Francisco, Calif. Tack and nail extractor. 1,612,793; Jan. 4.
- Beezley, Reginald R., Memphis, Tenn. Storage-battery terminal. 1,623,332; Apr. 5.
- Beetz, Eugene W., Glen Ridge, N. J., assignor to Westinghouse Lamp Company. Lamp mount. 1,653,385; Dec. 20.
- Beggs, Thomas R., Hartford, Conn. Flush valve. 1,624,130; Apr. 12.
- Beghetti, Peter, San Francisco, Calif. Actuating mechanism for air-blown musical instruments. 1,616,737; Feb. 8.
- Behan, Thomas W., assignor to The Nineteen Hundred Washer Company, Inc., Binghamton, N. Y. Combined casing and frame for a washing machine. Des. 73,995; Dec. 6.
- Behmer, Otto. (See Holmes, R. C., Manley, and Behmer.)
- Behm, Alexander, Kiel, Germany. Ascertaining the flying height of flying machines. 1,630,689; May 31.
- Behm, Alexander, Kiel, Germany. Sounding or measuring distance in water. 1,649,378; Nov. 15.
- Behm, John J., Grand Haven, Mich. Child's coaster. 1,620,939; Mar. 15.
- Behning, Robert V., assignor of one-half to M. Kroeger, Los Angeles, Calif. Ford wheel and throttle lock. 1,623,029; Mar. 29.
- Behr, Gustave E., Jr., Brooklyn, assignor to National Lead Company, New York, N. Y. Abrasive sheet material. 1,645,037; Oct. 13.
- Behr, Hans C., Scarsdale, N. Y. Centrifugal apparatus and process for continuously separating liquids from solids. 1,642,662; Sept. 13.
- Behr, Hans C., Scarsdale, N. Y. Process and apparatus for separating liquids from solids. 1,650,685; Nov. 29.
- Behr, Herman & Co. (See Crupi, Frank J., assignor.)
- Behr, Peter B. (See Mann, Robert C., assignor.)
- Behrends, Tony A., Havana, Ill. Adjustable plowshare. 1,648,532; Nov. 8.
- Behrens, Walter A. (See La Shelle, C. P., and Behrens.)
- Behring, Matthäus. (See Niedermann, Robert, assignor.)
- Behrie, Edward H., et al. (See Giancola, Nicholas, assignor.)
- Behrman, Abraham S. (See Green, W. H., and Behrman.)
- Behrman, Abraham S., assignor by mesne assignments to General Zeolite Company, Chicago, Ill. Water softening reagent and process of preparing same. 1,624,711; Apr. 12.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Seal for packages. 1,614,592; Jan. 18.
- Behrman, Marcus B., assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile-wire cutter. 1,616,344; Feb. 1.
- Behrman, Marcus B., assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile-wire cutter. 1,616,345; Feb. 1.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile-wire cutter. 1,616,346; Feb. 1.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile-wire cutter. 1,616,347; Feb. 1.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile-wire cutter. 1,616,348; Feb. 1.
- Behrman, Marcus B., assignor to The Lox Seal Corporation, New York, N. Y. Price ticket and securing means therefor. 1,616,946; Feb. 8.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Fastening means. 1,619,803; Mar. 8.
- Behrman, Marcus B., assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile-wire cutter and making it. 1,625,072; Apr. 19.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Ticket and securing means therefor. 1,631,954; June 14.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile-wire cutter. 1,647,600; Nov. 1.
- Behrman, Marcus B., assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pin ticket. 1,648,473; Nov. 8.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pile wire. 1,648,892; Nov. 15.
- Behrsin, August, Los Angeles, Calif. Oil burner. 1,653,447; Dec. 20.
- Beidelstein, Frank, Milwaukee, Wis. Game-wheel spider. Des. 72,139; Mar. 8.
- Beidelstein, Frank, Milwaukee, Wis. Game board. Des. 73,477; Sept. 20.
- Beldier, Elliott W., trustee. (See Zimmermann, Hans J., assignor.)
- Beldier, John W., assignor to The Carrom Company, Ludington, Mich. Folding table. 1,652,267; Dec. 13.
- Beil, Albert, Hochst-on-the-Main, and W. A. Meyer, assignors to A. Reebing Gesellschaft mit beschränkter Haftung and Georg Braun Gesellschaft mit beschränkter Haftung, Hersfeld, Germany. Extracting fats from tallow. 1,636,351; July 19.
- Beimling, William A., assignor to National Brake & Electric Company, Milwaukee, Wis. Gasoline locomotive. 1,614,452; Jan. 18.
- Beinhauer, Louis, Brooklyn, N. Y. Orthopedic device. 1,617,790; Feb. 15.
- Beintema, Tibbe D., Leighton, Iowa. End-gate scoop board. 1,637,631; Aug. 2.
- Beise, Leonard L., and R. J. Pine Island, Minn. Cultivator for eliminating quack grass. 1,620,510; Mar. 8.
- Beise, Richard J. (See Beise, Leonard L., and R. J.)
- Beisel, Rex B., assignor to Curtiss Aeroplane and Motor Co., Inc., Garden City, Long Island, N. Y. Oil-temperature regulators. 1,617,453; Feb. 15.
- Beisel Spring Wheel Corporation. (See Beisel, William J., assignor.)
- Beisel, William J., Port Richmond, assignor to Beisel Spring Wheel Corporation, New York, N. Y. Spring valve. 1,625,518; Apr. 19.
- Beisel, Harry, Detroit, Mich. Key machine. 1,634,133; June 28.
- Beistle, Martin L., Shippensburg, Pa. Expandable tissue-paper ornament. 1,616,568; Feb. 8.
- Beltman, Albert B., Cleveland Heights, Ohio. Windshield. 1,649,799; Nov. 22.
- Belknap, Ole T., Hurdtsfeld, N. Dak. Cover for tanks. 1,636,454; July 19.
- Belang, Andrew J., Port Leyden, N. Y. Tubular-knit union suit. 1,635,455; July 12.
- Belanger, Jean B., Montreal, Quebec, Canada. Lamp stand. Des. 73,996; Dec. 6.
- Belber Trunk & Bag Company, The. (See Caldwell, Charles, assignor.)
- Belber Trunk & Bag Company. (See Langmuir, Frank H., assignor.)
- Belcher, Daniel, assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Feeding attachment for printing presses. 1,620,863; Mar. 15.

- Belcher, Daniel, assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Offset printing attachment. 1,653,198; Dec. 20.
- Belcher, Daniel, assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Feeding attachment for printing presses. 1,653,199; Dec. 20.
- Belcher, Daniel, assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Bag-filling apparatus. 1,653,200; Dec. 20.
- Belcher, J. E. (See Brown, James F., assignor.)
- Belcher, Leslie, Park Ridge, N. J., assignor to Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Making confections. 1,614,057; Jan. 11.
- Belcher, Miles H., Greasy Creek, Ky. Combination tool. 1,644,705; Oct. 11.
- Belcher, Warren J., assignor to The Whitney Mfg. Co., Hartford, Conn. Transmission chain. 1,638,139; Aug. 9.
- Belcher, Warren J., assignor to The Whitney Mfg. Company, Hartford, Conn. Power-transmission chain. 1,638,386; Aug. 9.
- Belcher, Warren J., assignor to The Whitney Mfg. Company, Hartford, Conn. Power-transmission chain. 1,644,650; Oct. 4.
- Belcher, Warren J., assignor to The Whitney Mfg. Co., Hartford, Conn. Method and apparatus for forming heads on rivets. 1,649,334; Nov. 15.
- Belcher, George W., Ealing, England. Golf ball. Des. 72,692; May 24.
- Beldam, George W., Ealing, England. Golf ball. Des. 72,693; May 24.
- Beldam, George W., Ealing, England. Cricket, hockey, and like ball. 1,624,822; Apr. 12.
- Belden, Albert G., assignor to Norton Company, Worcester, Mass. Machine-tool work supporting and driving mechanism. 1,631,458; June 7.
- Belden, Edward H., assignor to The Willys-Overland Company, Toledo, Ohio. Flexible spring connection. 1,616,842; Feb. 8.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Lubricating system for internal-combustion engines. 1,623,461; Aug. 5.
- Belden, Edward H., assignor to The Willys-Overland Company, Toledo, Ohio. Internal-combustion engine. 1,623,462; Apr. 5.
- Belden, Edward H., assignor to The Willys-Overland Company, Toledo, Ohio. Lubricating system. 1,634,320; July 5.
- Belden Manufacturing Company. (See Parsons, Newell B., assignor.)
- Belden Manufacturing Company. (See Wermline, Hugo H., assignor.)
- Belding, George A. (See Bickell, William G., assignor.)
- Belfield, Stafford C., Liverpool, England. Dash lamp. 1,617,892; Feb. 15.
- Belford, Mrs. J. D. (See Carnes, A. H., and Marr, assignors.)
- Belin, Edouard, Ruell, France. Optical receiver for teletype machines. 1,632,163; June 14.
- Belin, Edouard, Paris, France. Transmitting pictures. 1,635,027; July 5.
- Belin, Edouard, Paris, France. System of facsimile teleglyphs by wireless signals. 1,642,637; Sept. 13.
- Belke, William E., Chicago, Ill. Filtering apparatus. 1,652,423; Dec. 13.
- Belknap, Edward H., Washington, D. C. Fuel-testing apparatus. 1,643,617; Sept. 27.
- Belknap, George J., Bridgeport, Conn. Valve. 1,651,942; Dec. 6.
- Belknap, Orin H., Chinook, Wash. Seine landing. 1,648,871; Nov. 8.
- Belknap, Samuel L., assignor to In-A-Wall Safe Company, Inc., Los Angeles, Calif. Wall safe. 1,644,410; Oct. 4.
- Belknap, William H., Brooklyn, N. Y. Turbine engine. 1,615,052; Jan. 18.
- Belknap, Alexander B., Norfolk, Va. Land or lawn roller. 1,618,564; Feb. 22.
- Bell, Alvah, Brooklyn, New York, N. Y. Lock nut. 1,646,805; Oct. 25.
- Bell, Alvin L., Dallas, Tex. Grille frame. 1,641,523; Sept. 6.
- Bell, Angus R., New Westminster, British Columbia, Canada. Paper cutter. 1,651,434; Dec. 6.
- Bell, Anthony W., sr., and H. L. Jennings, Uniontown, Pa. Timber hoist. 1,650,316; Nov. 22.
- Bell, Charles E., Charleroi, assignor of one-half to T. H. Robinson, Donora, Pa. Mine-car check lock. 1,628,525; May 10.
- Bell, Clinton L., Decatur, and M. S. Kessler, Auburn, assignors, by mesne assignments, to Decatur Rotary Display Company, Decatur, Ill. Sanitary display and vending device. 1,629,673; May 24.
- Bell, Clinton L., Decatur, and M. S. Kessler, Auburn, assignors, by mesne assignments, to Decatur Rotary Display Company, Decatur, Ill. Display rack. 1,635,201; July 12.
- Bell, Cyrus, et al. (See Keniston, G. I., and Priestley, assignors.)
- Bell, Daniel, assignor to Invincible Laundry Equipment Co., Chicago, Ill. Door latch. 1,645,849; Oct. 18.
- Bell, Edwin A., Philadelphia, Pa. Grease trap. 1,651,246; Nov. 29.
- Bell, Elmer, et al. (See Blackmore, William, assignor.)
- Bell, Eugene E., Dayton, Ohio, assignor to American Optical Company, Southbridge, Mass. Tool for widening and narrowing bridges of ophthalmic mountings. 1,638,078; Aug. 9.
- Bell, Frank M., assignor to R. G. Thompson and E. B. Simmonds, Muncie, Ind. Truck. 1,623,298; Apr. 5.
- Bell, Fred C., Alameda, Calif. Rotary compressor. 1,615,824; Feb. 1.
- Bell, Fred C., Alameda, Calif. Combination condenser and oil separator. 1,620,713; Mar. 15.
- Bell, George, Granite City, Ill. Roll grinding and polishing device. 1,614,097; Jan. 11.
- Bell, George A., and J. H. Carson, assignors to Indiana Fibre Products Company, Marion, Ind. Stacking device. 1,620,058; Mar. 8.
- Bell, George F., Tulsa, Okla. Flange for bull wheels. 1,626,322; Apr. 26.
- Bell, George, Preston, and J. Boardman Ashton, Preston, England. Knitting machine. 1,651,316; Nov. 29.
- Bell, Gilbert C., Augusta, Ga. Refrigerator and dispenser. 1,638,131; Aug. 9.
- Bell, Gordon E., Englewood, Colo. Water-closet. 1,620,429; Mar. 8.
- Bell & Gossett Company. (See Ercanbrack, John E., assignor.)
- Bell, Harmon. (See Loftus, Thomas J., assignor.)
- Bell, Harry E., Fort Worth, Tex. Toy rubber shooter. 1,615,833; Feb. 1.
- Bell, Harvey W., Ardsley-on-Hudson, N. Y., assignor to The Beloyt Corporation, Dover, Del. Flexible coupling. 1,619,457; Mar. 1.
- Bell & Howell Company, The. (See Howell, Albert S., assignor.)
- Bell & Howell Company, The. (See Miehle, Robert F., assignor.)
- Bell, Ivan C., assignor to The Guberson Corporation, Dallas, Tex. Mechanically-packed packer. Re16,670; July 12.
- Bell, Ivan C., assignor to The Guberson Corporation, Dallas, Tex. Tubing stripper. 1,639,209; Aug. 16.
- Bell, James, & Co. Proprietary Limited. (See Innes, J. D., and Stanley, assignors.)
- Bell, Jerome B. (See Patterson, R. N., and Fell, assignors.)
- Bell, Jesse J., Terre Haute, Ind. Automobile seat. 1,643,236; Sept. 20.
- Bell, Jessie M., Tacoma, Wash. Doll. Des. 72,787; June 7.
- Bell, John E. (See Isom, E. W., and Bell.)
- Bell, John E., deceased, Brooklyn; L. R. Bell, executrix, assignor to Sinclair Refining Company, New York, N. Y. Oil still. 1,613,306; Jan. 4.
- Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Furnace apparatus. 1,616,675; Feb. 8.
- Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Pressure-still heating furnace. 1,617,297; Feb. 8.
- Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Evaporative condenser. 1,619,284; Mar. 1.
- Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Apparatus and process for fractional distillation and condensation. 1,619,396; Mar. 1.
- Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Oil still. 1,623,773; Apr. 5.
- Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Grinding and drying apparatus. 1,632,109; June 14.
- Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Furnace apparatus. 1,636,119; July 19.
- Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Grinding and drying apparatus. 1,641,409; Sept. 6.
- Bell, John E., Brooklyn, assignor to Combustion Engineering Corporation, New York, N. Y. Pulverized-coal System. 1,641,470; Sept. 6.
- Bell, John E., deceased, by L. R. Bell, executrix, Brooklyn, and E. W. Isom, Locust Valley, assignors to Sinclair Refining Company, New York, N. Y. Apparatus for cracking hydrocarbons. 1,641,941; Sept. 6.
- Bell, John W., and T. J., Lake Monroe, Fla. Vegetable-washing apparatus. 1,617,096; Feb. 8.
- Bell, Lawrence M., Marietta, Ohio. Suspension seat. 1,649,013; Nov. 15.
- Bell, Leo F. (See Douglass, T. L., and Bell.)
- Bell, Lola R., executrix. (See Bell, John E.)
- Bell, Lola R., executrix. (See Bell, J. E., and Isom.)
- Bell, Lumber Company. (See Bubar, George A., assignor.)
- Bell, Paul, Mexico City, Mexico. Holding device for wild animals. 1,623,774; Apr. 5.
- Bell, Robert J., assignor to Economy Barrel Corporation, Richmond, Va. Barrel. 1,651,317; Nov. 29.
- Bell, Roy H., and F. R. Seales, Great Falls, Mont. Support for writing tablets and the like. 1,636,275; July 19.
- Bell, Samuel J., West Springfield, Mass. Cooking utensil. 1,632,326; June 14.
- Bell Telephone Laboratories. (See Haddock, Arthur, assignor.)

- Bell Telephone Laboratories, Incorporated. (See Bascom, H. M., and Fowler, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Byl, George N., assignor.)
- Bell Telephone Laboratories, Inc. (See Clokey, Allison A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Curtis, Austen M., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Davis, R. C., and Conway, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Deakin, Gerald, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Field, Frank E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Fisher, Harold J., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Goodman, Charles L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Griffith, Thomas R., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Harrison, Henry C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Hinrichsen, Edward E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Hovland, Henry, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Johnson, Herbert B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Johnson, H. B., and Eagon, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Kiesel, W. C., and Fowler, assignors.)
- Bell Telephone Laboratories, Incorporated. (See King, R. E. and Beaumont, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Legg, Victor E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Lorange, George T., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Lowry, Homer H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Manthorne, William H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See May, David T., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Miller, Daniel D., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Mueller, Emil C., jr., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Norton, Edward L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See O'Neill, Henry W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Persons, George A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Rettenmeyer, Francis X., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Shann, O. A., and Kuntz, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Shiel, John B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Stokely, Ray L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Ulrich, Horace W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Vadersen, Herbert, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Whiting, Donald F., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Whitney, Wiley, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Wilbur, Ray S., assignor.)
- Bell, Thomas H., Oakland, Calif. Rat and mink trap. 1,642,194; Sept. 13.
- Bell, Thomas J. (See Bell, John W. and T. J.)
- Bell, Thomas V., Montreal, Quebec, Canada. Loose-leaf binder. 1,648,105; Nov. 8.
- Bell, Walter. (See Van Alstyne, H. M., and Bell.)
- Bell, William D., Columbus, Ohio. Oil burner, 1,618,565; Feb. 22.
- Bell, William E. H., Glenside, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Fastening mechanism. 1,643,365; Sept. 27.
- Bell, William E. H., Glenside, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Closure-securing device. 1,643,538; Sept. 27.
- Bell, William M., Portsmouth, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Fastening for the covers of metallic drums. 1,642,481; Sept. 13.
- Bellmore, David H., New York, N. Y., assignor to The Mosler Safe Company, Hamilton, Ohio. Metallic structure. 1,623,165; Apr. 5.
- Bellamy, Archibald J., Wolverhampton, assignor, by mesne assignments, to Egg Patents Limited, London, England. Egg-preservation process and product thereof. 1,639,549; Aug. 16.
- Bellamy, John I. (See Gardner, J. E., and Bellamy.)
- Bellamy, John I. (See Richardson, R. G., and Bellamy.)
- Bellamy, John I., Brookfield, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,614,693; Jan. 18.
- Bellamy, John I., Brookfield, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,623,230; Apr. 5.
- Bellamy, John I., Brookfield, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Zone-metering telephone system. 1,650,410; Nov. 22.
- Bellamy, John I., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,625,235; Apr. 19.
- Bellamy, William D., assignor to S. Stathakis, El Dorado, Ark. Toaster. 1,615,356; Jan. 25.
- Belle City Manufacturing Company. (See Johnson, Alfred C., assignor.)
- Bellevue Manufacturing Company, The. (See Martin, Jacob F., assignor.)
- Bellegarde, Harry R., Palo Alto, Calif. Game and apparatus for playing the same. 1,616,524; Feb. 8.
- Bellinger, Earl W., et al. (See Rouse, George M., assignor.)
- Bellman, Jethro, et al. (See Wemlinger, William F., assignor.)
- Bellingrath, August, East Orange, N. J., assignor to August Goertz & Co. Bag frame. 1,639,977; Aug. 23.
- Belliveau, John E., Halifax, Nova Scotia, Canada. Hinge. 1,640,525; Aug. 30.
- Bellman, Edward T., assignor of one-third to J. J. Roney, Rockford, Ill. Circuit-closing device. 1,623,571; Apr. 5.
- Bellman, John A., assignor to M. M. Payne and W. G. Flournoy, Henryetta, Okla. Spudding shoe. 1,645,472; Oct. 11.
- Bellene, Alfred F. S., Lyons, assignor to Societe Chimique des Usines du Rhone, Paris, France. Reduction of halogenated hydrocarbons. 1,627,881; May 10.
- Bellows, Emma L., New York, N. Y. Thermometer case. 1,641,020; Aug. 30.
- Bellows, Henry W. (See Bodwell, P. D., and Bellows.)
- Bellows, Walter C., assignor to Sterling Automatic Machine Company, Inc., New York, N. Y. Coin detector. 1,650,483; Nov. 22.
- Bellows, Warren S., assignor to Walden-Worcester, Incorporated, Worcester, Mass. Wrench. 1,613,976; Jan. 11.
- Belluche, Elmer W., Racine, Wis., assignor to George R. Swart & Company, Inc., New York, N. Y. Sheet feeder. 1,618,632; Feb. 22.
- Belluche, Frank R., Mansfield, Mass., assignor, by mesne assignments, to Miller Saw-Trimmer Company, Pittsburgh, Pa. Mechanical movement. 1,616,441; Oct. 23.
- Belluzzo, Giuseppe, Milan, Italy. Blade of internal-combustion turbine. 1,631,503; Dec. 6.
- Belluzzo, Giuseppe, assignor to Società Italiana Ernesto Breda, Milan, Italy. Steam-turbine locomotive. 1,638,079; Aug. 9.
- Belmont Packing & Rubber Company. (See Crooks, William, assignor.)
- Belmont, William C., New York, N. Y. Combined medicinal pencil and inhaler. 1,640,687; Aug. 30.
- Beloit Iron Works. (See Aldrich, Alonzo, assignor.)
- Beloit Iron Works. (See Berry, Earl E., assignor.)
- Beloit Corporation, The. (See Bell, Harvey W., assignor.)
- Beltami, Cesare, Milan, Italy. Vehicle elastic suspension. 1,649,800; Nov. 22.
- Beltz, Peter J., Stillwater, Minn. Latch. 1,646,343; Oct. 18.
- Belvin, Preston, Richmond, Va. Auxiliary fastener for doors. 1,635,920; July 12.
- Belz, Hugo A. A. (See Boege, O. C., and Belz.)
- Bemberg, J. P., Aktien-Gesellschaft. (See Korff, Max, assignor.)
- Bement, John W., Venice, Calif. Luggage carrier for automobiles. 1,624,462; Apr. 12.
- Bemis, Albert F., Newton, assignor to Bemis Industries, Inc., Boston, Mass. Building method and product. 1,640,606; Feb. 22.
- Bemis, Albert F., Newton, Mass., assignor to Bemis Industries, Inc., Boston, Mass. Building construction. 1,626,112; Apr. 26.
- Bemis, Albert F., Newton, and H. W. Brown, Concord, assignors, by mesne assignments, to Bemis Industrial Inc., Boston, Mass. Concrete building construction. 1,638,080; Aug. 9.
- Bemis Bro. Bag Co. (See Belcher, Daniel, assignor.)
- Bemis Bro. Bag Co. (See Litchfield, Isaac W., assignor.)
- Bemis Industries, Inc. (See Bemis, Albert F., assignor.)
- Bemis Industries Inc. (See Bemis, A. F., and Brown, assignors.)
- Bemis Industries Inc. (See Folger, Henry C., assignor.)
- Bemis, John E., Des Moines, Iowa. Comparative visible record book. 1,635,357; July 12.
- Benaglia, Agide, Bologna, Italy. Device for the production of any patterns with grooves and projecting portions on the surface of rubber tires during the tire regeneration. 1,653,835; Dec. 27.
- Bénard, Georges L. O., Blois, France. Method of and apparatus for determining the shapes of airplane parts. 1,615,063; Jan. 18.
- Bénard, Henri L. M. J. (See Perrin, J. B., Marcellin, and Bénard.)
- Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump car. 1,640,637; Aug. 30.

- Benca, Ferdinand, Chicago, Ill. Window guard. 1,635,601; July 12.
- Benckenstein, Charles H., Vinton, La. Core barrel. 1,619,328; Mar. 1.
- Benda, Jaroslav, Prague, Czechoslovakia, Last. 1,636,677; July 26.
- Benda, Louis, Mainkur, near Frankfurt-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft. Stable and sterilizable solutions containing organic phosphorus and complex auro compounds. 1,635,169; July 12.
- Benda, Ludwig, Mainkur, near Frankfurt-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Acylamino-hydroxybenzene arsine oxides. 1,622,271; Mar. 29.
- Benda, Ludwig, Mainkur, near Frankfurt-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft. Production of stable, sterilizable, complex auro-sodium-thiosulphate solutions. 1,643,213; Nov. 8.
- Benda, Ludwig, Mainkur, near Frankfurt-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft. Benzoxazolone arsonic compounds. 1,648,214; Nov. 8.
- Benda, Ludwig, Mainkur, and O. Sievers, Fechenheim, near Frankfurt-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft. Benzoxazolone arsine oxides. 1,635,167; July 12.
- Benda, Ludwig, Mainkur, and O. Sievers, Fechenheim, near Frankfurt-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft. Benzoxazolone arsonic acids. 1,635,168; July 12.
- Bendelari, Mary E., New York, N. Y. Closure for shoe uppers. 1,643,108; Sept. 20.
- Bender, Alexander S. H., Chicago, Ill. Vehicle towing mechanism. 1,651,365; Dec. 6.
- Bender, Carl J., Minneapolis, Minn. Battery box. 1,644,641; Oct. 4.
- Bender, Frederick C., Mineola, N. Y. Toy. 1,612,794; Jan. 4.
- Bender, Frederick C., Mineola, N. Y. Musical instrument. 1,623,381; Apr. 5.
- Bender, Frederick C., Mineola, N. Y. Toy. 1,639,550; Aug. 16.
- Bender, Frederick C., Brooklyn, N. Y. Musical instrument. 1,651,799; Dec. 6.
- Bender, George, assignor to B. & T. Coll. Former & Tool Co. Inc., New York, N. Y. Armature-coil winding and shaping device. 1,616,947; Feb. 8.
- Bender, George A., Pittsburgh, Pa. Collapsible case. 1,644,909; Oct. 11.
- Bender, Howard L., Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Synthetic resin composition. 1,650,109; Nov. 22.
- Bender, Walter, Emden, Germany. Windwheel. 1,615,675; Jan. 25.
- Bender, William, Jr., South Bend, Ind. Radiocabinet. Des. 71,773; Jan. 4.
- Bendick, Sidney S., New York, N. Y. Printing stencil and making same. 1,626,323; Apr. 26.
- Bendix Brake Company. (See Andrus, William J., assignor.)
- Bendix Brake Company. (See Barber, Ernest B., assignor.)
- Bendix Brake Company. (See Bastien, Paul, assignor.)
- Bendix Brake Company. (See Bendix, Vincent, assignor.)
- Bendix Brake Company. (See Bendix, V., and La Brie, assignors.)
- Bendix Brake Company. (See Cantley, John R., assignor.)
- Bendix Brake Company. (See Clark, Otto B., assignor.)
- Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
- Bendix Brake Company. (See Dodge, A. Y., and McDonald, assignors.)
- Bendix Brake Company. (See Krieg, Walter L., assignor.)
- Bendix Brake Company. (See La Brie, Ludger E., assignor.)
- Bendix Brake Company. (See Laddon, I. M., Ring, and Herman, assignors.)
- Bendix Brake Company. (See Lyman, Kenneth E., assignor.)
- Bendix Brake Company. (See McConkey, Montgomery W., assignor.)
- Bendix Brake Company. (See McDonald, Eugene G., assignor.)
- Bendix Brake Company. (See Michael, Gus F., assignor.)
- Bendix Brake Company. (See Nelson, Emil A., assignor.)
- Bendix Brake Company. The. (See Parsons, Ben G., assignor.)
- Bendix Brake Company. (See Peterson, John W., assignor.)
- Bendix Brake Company. (See Price, Jacob L., assignor.)
- Bendix Brake Company. (See Renaux, Eugène P., assignor.)
- Bendix Brake Company. (See Reynolds, Frank D., assignor.)
- Bendix Brake Company. (See Sanford, Roy S., assignor.)
- Bendix Brake Company. (See Thomas, George J., assignor.)
- Bendix Brake Company. (See White, William W., assignor.)
- Bendix Brake Company. (See Whitworth, Stanley, assignor.)
- Bendix Corporation. (See Perrot, Henri, assignor.)
- Bendix Corporation. (See Waseige, Charles, assignor.)
- Bendix, Vincent. (See Jacker, Edward G., assignor.)
- Bendix, Vincent. (See Price, Jacob L., assignor.)
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,619,806; Mar. 8.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Reinforced brake shoe. 1,629,471; May 24.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,650,257; Nov. 22.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake-applying means. 1,650,816; Nov. 29.
- Bendix, Vincent, assignor to Motor Industries, Ind., Chicago, Ill. Wheel. 1,652,752; Dec. 13.
- Bendix, Vincent, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind. Brake shoe. 1,633,691; Dec. 27.
- Bendix, Vincent, Chicago, Ill., and L. E. La Brie, South Bend, Ind., assignors to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,632,782; June 21.
- Bendixson, Elmer A. (See Engler, M., and Bendixson.)
- Bendit, Paul M., assignor of one-half to A. F. Sauer, St. Paul, Minn. Game. 1,652,851; Dec. 13.
- Bendtsen, Carl, Brooklyn, N. Y. Automobile horn blower. 1,614,340; Jan. 11.
- Bendtsen, Saloy J. (See Beard, L. O., and Bendtsen.)
- Bendstedt, Allan B., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,644,227; Oct. 4.
- Benedict, Charles F., New York, N. Y. Scissors. 1,645,981; Oct. 18.
- Benedict, Charles H., assignor to Anthony Company, Streator, Ill. Clutch mechanism. 1,628,219; May 10.
- Benedict, Clifton E., Spokane, Wash. Cream separator. 1,625,385; Apr. 19.
- Benedict, Curtis C. (See Mee, W. J., and Tullis, assignor.)
- Benedict, Everett R., assignor to American District Steam Company, North Tonawanda, N. Y. Meter. 1,649,653; Nov. 15.
- Benedict, George W., Detroit, Mich., assignor to Kent-Moore Organization, Detroit, Mich. Reaming or boring tool. 1,630,515; May 31.
- Benedict, H. Stanley, et al. (See Nicoll, Russell C., assignor.)
- Benedict, Herschel A., East Orange, and E. M. Moller, South Orange, N. J. Vehicle wheel. 1,629,903; May 24.
- Benedict, Herschel A., East Orange, and E. M. Moller, South Orange, N. J. Passenger vehicle. 1,629,904; May 24.
- Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)
- Benel, Francois L., assignor to Compagnie Industrielle de Mecanique Horlogère, Paris, France. Time train. 1,616,569; Feb. 8.
- Benenati, Nicholas, New York, N. Y. Mounted gas heater. 1,632,587; June 14.
- Benenati, Nicholas, New York, N. Y. Steam pressing apparatus. 1,641,876; Sept. 6.
- Benes, James W. (See Engstrom, E. F., and Benes.)
- Benesh, Matthew E., Chicago, Ill. Means and method for ascertaining, increasing, and maintaining the efficiency of water-gas-generating machines. 1,620,864; Mar. 15.
- Benetti, Carlos, Barcelona, Spain. Bottle closure. 1,626,499; Apr. 26.
- Benetti, Carlos, Barcelona, Spain. Crown stopper. 1,626,500; Apr. 26.
- Benfanti, Salvatore, et al. (See Pagano, Gaetano, assignor.)
- Benford, Frank A., Schenectady, N. Y., assignor to General Electric Company, Mirror. 1,615,735; Jan. 25.
- Benford, Frank A., Schenectady, N. Y., assignor to General Electric Company. Light projector. 1,629,333; May 17.
- Bengel, Edward C., St. Louis, Mo., assignor to The Lamson Company, Syracuse, N. Y. Pneumatic dispatch carrier. 1,645,495; Oct. 11.
- Bengtsson, Bror J., Kallered, assignor to Lundberg & Kullberg Aktiebolag, Gönervorden, Sweden. Stopper for the discharge opening of traps. 1,654,418; Dec. 27.
- Benham, Edgar M., Norwood, assignor, by mesne assignments, to The Mosler Safe Company, Hamilton, Ohio. Safety device for vaults, safes, and the like. 1,614,978; Jan. 18.
- Benham, Edgar M., Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky. Lock. 1,630,238; May 24.
- Benham, Edgar M., Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky. Lock. 1,646,987; Oct. 25.
- Benham, Roy E., and H. B. Ross, Richmond, Ind. Miniature electric advertising sign. 1,633,883; June 28.
- Benham, William T., Norwood, and J. E. Dwyer, assignors to The Hall's Safe Company, Cincinnati, Ohio. Safe-locking mechanism. 1,632,428; June 14.
- Benham, William T., Norwood, and J. E. Dwyer, assignors to The Hall's Safe Company, Cincinnati, Ohio. Time-lock mechanism. 1,632,429; June 14.
- Benham, William T., Norwood, and J. E. Dwyer, assignors to The Hall's Safe Company, Cincinnati, Ohio. Time-lock means. 1,634,928; July 5.
- Beni, Frank, and D. Iarussi, Cleveland, Ohio. Safety attachment for aeroplanes. 1,634,442; July 5.

- Benice, Theodore S., Los Angeles, Calif. Exerciser. 1,625,447; Apr. 19.
- Bénit, Henri, assignor to La Societe dite l'Eclairage des Vehicules sur Rail, Paris, France. Regulating the voltage of dynamos of variable speed and load. 1,621,452; Mar. 15.
- Bénit, Henri, assignor to l'Eclairage des Vehicules sur Rail, Paris, France. System of electrical supply. 1,631,574; June 7.
- Benjamin, Bert R., Oak Park, and C. R. Raney, Riverside, assignors to International Harvester Company, Chicago, Ill. Tractor drawbar. 1,636,276; July 19.
- Benjamin, Bert R., Oak Park, and W. Webber, La Grange, assignors to International Harvester Company, Chicago, Ill. Adjustable self-aligning bushing. 1,632,164; June 14.
- Benjamin, Bert R., Oak Park, and W. Webber, La Grange, Ill., assignors to International Harvester Company. Tractor harvester. 1,643,149; Sept. 20.
- Benjamin, Dana H. (See Dreher, A. J., and Benjamin.)
- Benjamin, E. V., Company, The. (See Orndoff, Herbert W., assignor.)
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
- Benjamin Electric Manufacturing Company. (See Hopkins, Charles L., assignor.)
- Benjamin Electric Mfg. Co. (See Niemann, George F., assignor.)
- Benjamin Electric Manufacturing Company. (See Warner, Charles E., assignor.)
- Benjamin, Jerome, Los Angeles, Calif. Wall furnace. 1,652,268; Dec. 13.
- Benjamin, John P., East Providence, assignor to Rex Manufacturing Company, Providence, R. I. Extension member for wrist-watch straps. 1,622,959; Mar. 29.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical fixture-supporting device. 1,613,013; Jan. 4.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Pull-switch socket. 1,617,097; Feb. 8.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. 1,618,909; Feb. 22.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Highway-lighting unit. 1,622,272; Mar. 23.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combination electrical connector device and fixture support. 1,620,568; May 24.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-fixture support and connector. 1,631,987; June 14.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch socket. 1,635,170; July 12.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Panel board. 1,636,277; July 19.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical fixture-supporting device. 1,636,278; July 19.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combination electrical connector and fixture support. 1,637,463; Aug. 2.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. 1,639,125; Aug. 16.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch construction. 1,639,126; Aug. 16.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Show-case lighting fixture. 1,639,127; Aug. 16.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. 1,646,806; Oct. 25.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fixture connector. 1,646,807; Oct. 25.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Ceiling connector device. 1,646,808; Oct. 25.
- Benjamin, Samuel O., Chicago, Ill. Tumbler-washing machine. 1,644,628; Oct. 4.
- Benn, Alonzo N., Chicago, Ill. Smokehouse trolley. 1,653,539; Dec. 20.
- Benner, Harry P. (See Egloff, G., and Benner.)
- Benner, Raymond C., Bayside, assignor to The Prest-O-Lite Company, Inc., New York, N. Y. Making separator and separator block. 1,628,104; May 10.
- Benner, Raymond C., Bayside, N. Y., assignor to The Prest-O-Lite Company, Inc. Storage battery. 1,631,511; June 7.
- Benner, Raymond C., Bayside, N. Y., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Active-material support for storage cells. 1,651,989; Dec. 6.
- Benner, Raymond C., Bayside, N. Y., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Storage-battery separator. 1,653,614; Dec. 27.
- Benner, Raymond C., Bayside, and H. F. French, Flushing, N. Y., assignors to The Prest-O-Lite Company, Inc. Storage cell and electrode therefor. 1,639,280; Aug. 16.
- Benner, Raymond C., Bayside, and L. C. Werking, New York, N. Y., assignors, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Negative electrode for storage batteries. 1,649,280; Nov. 15.
- Benner, Winthrop W., Cuyahoga Falls, and E. A. Hoener, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Compensating mechanism. 1,637,892; Aug. 2.
- Bennett, Alonzo W., New Haven, Conn. Steam turbine. 1,652,085; Dec. 6.
- Bennett, Arthur, Chilliwack Township, British Columbia, Canada. Shock absorber. 1,631,459; June 7.
- Bennett, Arthur J., Cambridge, Ohio. Covered dish. Dec. 1, 1921; Jan. 11.
- Bennett, Arthur J., Cambridge, Ohio. Platter or similar article. Des. 74,092; Dec. 20.
- Bennett, Arthur J., Cambridge, Ohio. Flower holder. 1,645,577; Oct. 18.
- Bennett, Ashley C., assignor to I. E. Bennett, Minneapolis, Minn. Apparatus for supplying fuel oil to furnaces. 1,637,368; Aug. 2.
- Bennett, Augustus A., and E. H. McWhorter, Coffeyville, Kans. Separator. 1,650,484; Nov. 22.
- Bennett, Benjamin W., San Francisco, Calif. Hose fastener. 1,729,431; May 17.
- Bennett, Brass Company. (See Siefen, John J., assignors.)
- Bennett, Cadwell E., De Soto, Kans. Automatic feeder. 1,629,334; May 17.
- Bennett, Charles, Richmond Hill, N. Y. Drawing instrument. 1,651,504; Dec. 6.
- Bennett, Charles E., Decatur, Ga. Fuse. 1,631,851; June 7.
- Bennett, Claude C., Seattle, Wash. Axle-aligning gauge. 1,653,249; Dec. 20.
- Bennett, Claude C., Winton, Calif. Milking pail. 1,635,921; July 12.
- Bennett, Edward O., Chicago, Ill., assignor to W. C. Hayes Key lock. 1,644,365; Oct. 4.
- Bennett, Elmar W. (See Davis L., and Bennett.)
- Bennett, Frank S., Schenectady, N. Y., assignor to General Electric Company. Heat-exchange apparatus. 1,618,797; Feb. 22.
- Bennett, Frederick F., Ypsilanti, Mich. Oil burner. 1,634,443; July 5.
- Bennett, George E., assignor to American Automatic Lock and Lift Company, San Francisco, Calif. Foot-frame lock for foldable beds. 1,631,081; May 31.
- Bennett, George L., Cleveland Heights, Ohio. Building wall construction. 1,631,787; June 7.
- Bennett, Guy I., assignor of one-half to W. C. Frieze, Columbus, Ohio. Reinforced shirt cuff. 1,620,319; Mar. 8.
- Bennett, Harold S., Baltimore, Md. Self-soaping mop. 1,643,762; Sept. 17.
- Bennett, Harry S., Bethlehem, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Waste heat boiler. 1,636,979; July 26.
- Bennett, Howard T., Clairton, J. McIntosh, North Braddock, and T. M. McNelly, Clairton, Pa. Valve-operating mechanism. 1,618,633; Feb. 22.
- Bennett, Irene E. (See Bennett, Ashley C., assignor.)
- Bennett, James A. (See Rule, O., and Bennett.)
- Bennett, John C., et al. (See Haubert, Leo, assignor.)
- Bennett, Joseph, North Adams, Mass., assignor to Consolidated Textile Corporation, New York, N. Y. Finished fabric and making same. 1,633,160; June 21.
- Bennett, La Fayette, Salt Lake City, Utah. Light-globe protector. 1,636,980; July 26.
- Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Condenser-operating mechanism for variable condensers. 1,631,788; June 7.
- Bennett, Morris H., and H. C. Rochette, Waterbury, Conn., assignors to Scovill Manufacturing Company. Driving mechanism for phonographs and the like. 1,651,800; Dec. 6.
- Bennett, Norman B., et al. (See Savage, Basil H., assignor.)
- Bennett, Raymond A., Roxbury, and A. M. Boothby, Watertown, assignors to Boothby Fibre Can Company, Boston, Mass. Paper can. 1,633,884; June 28.
- Bennett, Raymond A., Roxbury, and A. M. Boothby, Watertown, assignors to Boothby Fibre Can Company, Boston, Mass. Paper container. 1,644,506; Oct. 4.
- Bennett, Robert G. (See Affleck, E. T., and Bennett.)
- Bennett, Roy C., Hendersonville, N. C. Telephone cabinet. Des. 73,276; Aug. 23.
- Bennett, Rose E., Fort Smith, Ark. Hose supporter. 1,614,910; Feb. 22.
- Bennett, Samuel P., San Francisco, Calif. Shock absorber. 1,613,977; Jan. 11.
- Bennett, Thomas F., Flushing, N. Y. Electric-lighting fixture. 1,643,940; Oct. 4.
- Bennett, Wallis B., Chicago, Ill. Catamenial device. 1,614,180; Feb. 11.
- Bennett, Wilbur, Scranton, Pa., assignor to The Graff Furnace Company, New York, N. Y. Kitchen range. Des. 72,202; Mar. 15.
- Bennett, William H., Calvin, Okla. Vehicle body. 1,641,877; Sept. 6.
- Bennewitz, Johannes, assignor of one-half to F. Lunow, Leipzig, Germany. Railway signaling device. 1,649,441; Nov. 15.

- Bennie, Harold C., Almena, Kans. Tricycle. 1,624,915; Apr. 19.
- Benninger, John, assignor to A. Schroeder, Philadelphia, Pa. Exercising apparatus. 1,650,417; Nov. 22.
- Benninger, Mario, Rheineck, St. Gall, Switzerland. Peeling machine. 1,645,516; Oct. 18.
- Bennington, Albert P., Philadelphia, Pa. Cleaning head for blackboard renovators. 1,623,520; Apr. 5.
- Bennington, Albert P., Philadelphia, Pa. Cleaning head for blackboard renovators. 1,623,521; Apr. 5.
- Bennington, Earl T., Cleveland Heights, assignor to The Cleveland Crane and Engineering Company, Wickliffe, Ohio. Suspended carrier. 1,624,205; Apr. 12.
- Bennington, Earl T., Cleveland Heights, assignor to The Cleveland Crane and Engineering Company, Wickliffe, Ohio. Job-crane transfer device for overhead carrier systems. 1,640,344; Aug. 30.
- Bennington Wax Paper Company. (See Hurlbut, Daniel C., assignor.)
- Benoit, Elphege F., Seattle, Wash. Brake-band coupling. 1,644,629; Oct. 4.
- Bens, Samuel J., New York, N. Y. Baby carriage. 1,616,676; Feb. 8.
- Bens, Samuel J., New York, N. Y. Fuel tank. 1,633,062; June 21.
- Bens, Samuel J., New York, N. Y. Bearing for link chains and belts. 1,634,641; July 5.
- Bens, Samuel J., New York, N. Y. Lubricant retainer or dust cover. 1,634,642; July 5.
- Bens, Samuel J., New York, N. Y. Interlocking link. 1,634,643; July 5.
- Bens, Samuel J., New York, N. Y. Link for chains or belts. 1,634,644; July 5.
- Bens, Samuel J., Herkimer, N. Y., assignor to Chain Saw Corporation, Wilmington, Del. Tree-sawing apparatus. 1,617,565; Feb. 15.
- Bens, Samuel J., New York, N. Y., assignor to Chain Saw Corporation, Wilmington, Del. Chain-saw link and bushing therefor. 1,617,566; Feb. 15.
- Bens, Samuel J., New York, N. Y., assignor to Chain Saw Corporation, Wilmington, Del. Link joint for chains. 1,634,645; July 5.
- Bens, Samuel J., New York, N. Y., assignor to Chain Saw Corporation, Wilmington, Del. Wheel or sprocket sheave. 1,634,646; July 5.
- Bens, Samuel J., assignor to Chain Saw Corporation, New York, N. Y. Sprocket chain or link belt. 1,634,647; July 5.
- Bens, Samuel J., New York, N. Y., assignor to Chain Saw Corporation. Chain saw. 1,652,295; Dec. 13.
- Bensa, Felice. (See Zinke, Alois, assignor.)
- Bensa, Felice. (See Zinke, A., and Klingler, assignors.)
- Bensing, Le Rue P., et al. (See Keeler, Lewis J., assignor.)
- Bensing, Le Rue P., assignor of one-half to G. P. Koelliker, Cleveland Heights, Ohio. Electrolytic rectifier. 1,645,085; Oct. 11.
- Benson, Bernhart A., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Dashboard attachment for cigar lighters. 1,616,173; Feb. 1.
- Benson, Bernhart A., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Push and pull switch. 1,636,678; July 26.
- Benson, Davison A., assignor to Standard Arch Company, Frostburg, Md. Furnace-roof structure. 1,623,860; Apr. 5.
- Benson, Elsie C., Seattle, Wash. Portable bath cabinet. 1,646,521; Oct. 25.
- Benson, Fred J., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making tire-casing repair patches. 1,651,801; Dec. 6.
- Benson, George F., Syracuse, N. Y. Preventing leaking of oil from axle housings. 1,645,578; Oct. 18.
- Benson, Harold M., Oakland, Calif. Shock absorber. 1,641,021; Aug. 30.
- Benson, Harry F., Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Hydraulic pump. 1,629,141; May 17.
- Benson, Harry F., Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Impeller balancing and sealing device. 1,634,317; July 5.
- Benson, Henry R., Seattle, assignor to Standard Safety Appliance Company, Everett, Wash. Towline. 1,649,654; Nov. 15.
- Benson, Henry R., Seattle, assignor to Standard Safety Appliance Company, Everett, Wash. Cargo hook. 1,649,655; Nov. 15.
- Benson, John B., Independence, Kans. Clamping device. 1,643,737; Sept. 27.
- Benson, Otto C. (See Luedtke, Charles E., assignor.)
- Benson, Samuel C., assignor of one-fourth to J. J. Roby, Cleveland, one-fourth to R. W. Moore, and one-fourth to L. S. Moscrop, Adena, Ohio. Electric motor. 1,652,999; Dec. 20.
- Benson, Walter J., Fort Madison, Iowa. Fountain pen. 1,620,626; Mar. 15.
- Benson, William A., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,616,738; Feb. 8.
- Benson, William E., Wilmington, assignor to Kalix Cup Company, Boston, Mass. Paper drinking cup. 1,654,318; Dec. 27.
- Bent, George H., Battle Creek, Mich. Delivery mechanism for carton-sealing machines. 1,618,911; Feb. 22.
- Bent, George H., Battle Creek, Mich. Weighing machine. 1,631,117; June 7.
- Bent, Walter G., Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y. Coated paper. 1,623,522; Apr. 5.
- Bentley, Anson J., Niles, Ohio. Truck. 1,638,469; Aug. 3.
- Bentley, Mark, assignor to Packard Motor Car Company, Detroit, Mich. Treating metal articles. 1,647,851; Nov. 1.
- Bentley, Walter H., San Jose, Calif. Labeling process. 1,638,795; Aug. 9.
- Benton, Arthur R., Beverly Hills, Calif. Hand oiler. 1,625,699; Apr. 19.
- Benton, Frank W., Wilson, N. C. Securing dust caps for valve stems. 1,617,299; Feb. 8.
- Benton, William A., assignor to W. & T. Avery, Limited, Birmingham, England. Weighing apparatus. 1,634,444; July 5.
- Bentrott, Harry, Wheatland, Iowa. Latch. 1,639,878; Aug. 15.
- Bentz Engineering Corporation. (See Cano, Vernon, assignor.)
- Bentzen, Aanon, New York, N. Y. Ship's rigging. 1,642,716; Sept. 20.
- Benussi, Andrew, Brooklyn, N. Y. Bath mitt. 1,619,180; Mar. 1.
- Benway, David A. (See Brady, H. T., Benway, and Van Ness.)
- Benze, Adolph, Jr., Peoria, Ill. Dough-conditioning machine. 1,643,366; Sept. 27.
- Benz, Charles A., and E. E. Van Cleave, Chicago, Ill. Reversible fulcrum. 1,613,014; Jan. 4.
- Benzel, Emile L., Sherman, Tex. Grain mixer. 1,621,307; Mar. 15.
- Benzing, Frank, Los Angeles, Calif. Trowel. 1,654,449; Dec. 27.
- Benzing, Roland F. (See Cope, F. T., and Benzing.)
- Benzo-Verband Gesellschaft mit beschränkter Haftung. (See Ostwald, Walter, assignor.)
- Beoddy, John A., Roanoke, Va. Testing jack. 1,621,867; Mar. 22.
- Berbaum, Henry F., Chicago, Ill. Stirrup pad. 1,639,073; Aug. 16.
- Berchem, Alphonse H. E., et al. (See Ames, Charles F., assignor.)
- Berchem, Alphonse H. E., et al. (See Frederick, Rheuef H., assignor.)
- Bern, Albert E., East Orange, N. J. Pressure fuel-feed system. 1,647,763; Nov. 1.
- Berean, Delbert A. (See Trevor, W. W., and Berean.)
- Berean, Delbert A., Barker, and W. W. Trevor, Lockport, assignors to Trevor Manufacturing Company, Lockport, N. Y. Machine for operating on barrels or other containers. 1,647,980; Nov. 8.
- Berek, Max, assignor to the Firm Ernst Leitz, Optische Werke, Wetzlar, Germany. Illuminator for microscopes. 1,613,583; Jan. 4.
- Beret, John, Blair, W. Va. Combination tool. 1,619,181; Mar. 1.
- Berg, Albert C., Cheyenne Wells, Colo. Wheeled supporting device. 1,613,155; Jan. 4.
- Berg, August O., Los Angeles, Calif. Rocking-horse toy. 1,622,079; Mar. 22.
- Berg, Charles, assignor of one-half to V. Hobart, Minneapolis, Minn. Tire rim. 1,618,405; Feb. 22.
- Berg, Charles C., Detroit, Mich. Lubricating apparatus for internal-combustion engines. 1,637,600; Aug. 2.
- Berg, Elwin H., Eveleth, Minn. Attachment for windows. 1,646,522; Oct. 25.
- Berg, Franz F. (See Nitardy, F. W., Bartlett, and Berg.)
- Berg, Hans, Grand Rapids, Mich., assignor to The Brunswick-Balke-Collider Company, Chicago, Ill. Game table. Des. 73,398; Sept. 6.
- Berg, Harold F., Clinton, Iowa. Milk-can steaming and water-heating system. 1,623,156; Apr. 5.
- Berg, Henry. (See Atwood, C. R., Berg, and Junkins.)
- Berg, John, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Electric connector. 1,627,306; Mar. 3.
- Berg, John, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Visor. 1,645,216; Oct. 11.
- Berg, John, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Visor. 1,654,206; Dec. 27.
- Berg, Joseph, Long Island City, N. Y. Trunk. 1,617,699; Feb. 15.
- Berg, Joseph, Long Island City, N. Y. Amplifying tone chamber for horns. 1,650,976; Nov. 20.
- Berg, M. M. (See Johnson, Alfred B., assignor.)
- Berg Manufacturing Company. (See Berg, Nanstad, assignor.)
- Berg, Nanstad, assignor to Berg Manufacturing Company, Cleveland, Ohio. Pulley. 1,628,220; May 10.
- Berg, Olav, Paterson, and M. Imhoff, Clifton, N. J. Weighting fibers. 1,634,012; June 28.

- Berg, Peter A., Janesville, Wis. Shaping mechanism. 1,651,505; Dec. 6
- Berg, Ralph. (See Thomson, Roy W., assignor.)
- Berg, Roy L., New Ulm, Minn. Nonglare attachment for reflectors. 1,625,932; Apr. 26.
- Berg, William H., South Orange, N. J., R. C. Whitman, Chatham, N. J., and E. F. Abb, Astoria, N. Y., assignors to Health Products Corporation, Newark, N. J. Chewing gum. 1,629,461; May 17.
- Bergdoll, John G., assignor to York Manufacturing Company, York, Pa. Purge device for refrigerating systems. 1,612,963; Jan. 4.
- Berge, Godeksak, assignor of one-third to H. Spurrier, Chicago, Ill. Decomposing insoluble minerals. 1,642,667; Sept. 20.
- Berge, Joseph, Montclair, N. J. Crown for screw heads and the like. 1,613,921; Jan. 11.
- Bergedorfer Eisenwerk Aktiengesellschaft. (See Fischer, Albert, assignor.)
- Bergem, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Triazo-nitrate explosives and producing the same. 1,620,714; Mar. 15.
- Bergem, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 1,620,715; Mar. 15.
- Bergem, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing explosives. 1,637,726; Aug. 2.
- Bergen, George B., sr., Milwaukee, Wis. Plastic process. 1,638,821; Aug. 16.
- Bergen, Harold E., Berkeley, Calif. Apparatus for recovering solids from press liquids. 1,624,385; Apr. 12.
- Bergen, Harold E., San Pedro, Calif. Fish-cutting machine. 1,628,765; May 17.
- Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Tapping machine. 1,640,105; Aug. 23.
- Bergendahl, Oscar E., and R. A. Rimel, assignors of one-third to W. S. Moseley, Erwin, Tenn. Buffer. 1,638,008; Aug. 9.
- Berger, Augusta M., Brooklyn, N. Y. Shoe-lace fastener. 1,646,849; Oct. 25.
- Berger Bros. Company. (See Geiser, George B., assignor.)
- Berger Brothers Company, The. (See Versoy, Irving R., assignor.)
- Berger, Eugene F. (See Jenkins, J. D., and Berger.)
- Berger, George P. (See Melum, H. A., and Berger.)
- Berger, John D., Cincinnati, Ohio. Ground vase. 1,616,647; Feb. 8.
- Berger, John G., Breckenridge, Tex. Winding and setting mechanism for watches. 1,615,898; Feb. 1.
- Berger, Joseph C., Columbus, Ohio. Headblock for mortuary crypts. 1,617,144; Feb. 8.
- Berger, Knute, Seattle, Wash. Controller. 1,630,516; May 31.
- Berger, Knute, Seattle, Wash. Snatch block. 1,630,517; May 31.
- Berger, Knute, Seattle, Wash. Brake mechanism. 1,633,919; June 28.
- Berger, Knute, Seattle, Wash. Reversing gear. 1,641,614; Sept. 6.
- Berger Manufacturing Company, The. (See Schlafly, Julius H., assignor.)
- Berger, Matthew R., Philadelphia, Pa. Manner of making sickle hooks. 1,632,327; June 14.
- Berger, Nathan L., New York, N. Y. Plate for lighting fixtures. Des. 73,823; Nov. 15.
- Berger, Ollie J., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Hinge. 1,623,572; Apr. 5.
- Berger, Samuel I., Newark, N. J. Statuette. Des. 71,774; Jan. 4.
- Berger, Samuel I., Newark, N. J. Target toy. Des. 72,664; May 17.
- Berger, Samuel I., Newark, N. J. Automobile toy. Des. 72,694; May 24.
- Berger, Samuel I., Newark, N. J. Statuette. Des. 73,223; Aug. 9.
- Berger, Samuel I., Newark, N. J. Statuette. Des. 73,277; Aug. 23.
- Berger, Samuel I., Newark, N. J. Mechanical toy. 1,619,694; Mar. 1.
- Bergeson, Ragnarvald. (See Lippert, L. H., and Bergeson.)
- Bergfeld, Carl, Berlin-Wilmersdorf, Germany. Apparatus for transmitting the position of signals. 1,643,800; Sept. 27.
- Berggren Engineering Corporation. (See Hall, Frederick, assignor.)
- Bergh, Sven V., Stockholm, Sweden. Furnace and apparatus for utilizing shale or other bituminous materials. 1,618,566; Feb. 22.
- Berghorn, Fred H., Latimer, Iowa. Tractor hitch. 1,613,783; Jan. 11.
- Bergische Elektrizitäts-Gesellschaft Gebr. Nelzen. (See Nelzen, Artur, assignor.)
- Bergloff, Andrew E., assignor to Wolfe Improved Rotary Rod Weeder, Cheney, Wash. Underground gearing. 1,628,022; May 10.
- Berglund, Herman, Brooklyn, N. Y., assignor to General Electric Company. Paper-break detector switch. 1,641,658; Sept. 6.
- Berglund, Sven O. F. A. son, assignor to Aktiebolaget Filmofoton, Stockholm, Sweden. System for producing records of sounds on sensitized traveling film bands. 1,653,836; Dec. 27.
- Berglund, Victor. (See Shirey, Ulyssis A., assignor.)
- Bergman, Carl, Bergenfield, N. J. Transformer. 1,649,955; June 14.
- Bergman, Knute W., et al. (See Rudberg, Emil, assignor.)
- Bergman, Lars H., assignor, by mesne assignments, to Raymond Bros. Engineering Co., Chicago, Ill. Pulverized-fuel furnace. Re16,828; Dec. 27.
- Bergman, Lars H., assignor to Raymond Bros. Engineering Co., Chicago, Ill. Method of and apparatus for preparing, feeding, and burning pulverized fuel. 1,627,766; May 10.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Alternating-current motor. 1,622,567; Mar. 29.
- Bergman, William G., Point Place, Ohio. Burner for furnaces. 1,634,445; July 5.
- Bergmann, Carl G., Chicago, Ill. Arch support. 1,633,513; June 21.
- Bergmann, Christian N., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa. Receptacle-filling apparatus. 1,635,159; July 5.
- Bergmann, Christian N., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa. Receptacle-filling apparatus. 1,635,160; July 5.
- Bergmann, Christian N., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa. Receptacle-depositing mechanism. 1,636,208; July 19.
- Bergmann, Christian N., Pittsburgh, Pa., E. Z. Taylor, Newark, N. J., and C. Taylor, Hartford, Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa. Measuring device for plastic material. 1,632,165; June 14.
- Bergmann, Christian N., Pittsburgh, Pa., E. Z. Taylor, Newark, N. J., and C. Taylor, Hartford, Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa. Receptacle-handling means for unit-measuring machines. 1,643,367; Sept. 27.
- Bergmann, Conrad, assignor to Columbia Steel Equipment Company, Philadelphia, Pa. Card holder. 1,621,393; Mar. 15.
- Bergmann - Elektrizitäts-Werke Aktiengesellschaft. (See Pape, Wilhelm, assignor.)
- Bergmann, Jean, Wannsee, near Berlin, Germany. Calculating mechanism. 1,649,379; Nov. 15.
- Bergmann, Max, E. Immdorfer, and H. Loewe, Dresden, Germany. Treatment of animal fibers. 1,615,783; Jan. 25.
- Bergmann Packaging Machine Company. (See Bergmann, Christian N., assignor.)
- Bergmann Packaging Machine Company. (See Bergmann, C. N., and Taylor, assignors.)
- Bergman, Jan Einthoven, Netherlands, assignor, by mesne assignments, to General Electric Company. Coiled filament incandescent lamps. 1,637,034; July 26.
- Berger, John C., Landsdowne, assignor to The Barber Asphalt Company, Philadelphia, Pa. Device for fastening shingles. 1,613,156; Jan. 4.
- Bergonzoni, Joseph E., Newton, assignor of one-half to W. D. Dunn, Belmont, Mass. Window lock. 1,654,207; Dec. 27.
- Bergquist, Arthur, Lindstrom, Minn. Apparatus for extracting honey from the comb. 1,615,158; Jan. 18.
- Bergquist, Arthur E., Lindstrom, Minn. Snap hook. 1,613,641; Jan. 11.
- Bergquist, Arthur E., Lindstrom, Minn. Potato-mashing machine. 1,631,010; June 7.
- Bergquist, Arthur E., Lindstrom, Minn. Protective apparatus for banks. 1,646,344; Oct. 18.
- Bergs, Francis X., Milwaukee, Wis. Safe. 1,649,504; Nov. 15.
- Bergstein, Samuel. (See McDuffie, Benjamin H., assignor.)
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Paper box and the like. 1,616,677; Feb. 8.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Paper box and the like. 1,616,678; Feb. 8.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Device for moistening adhesive tape. 1,628,221; May 10.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Paper box and the like. 1,639,281; Aug. 16.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Box-sealing machine and the like. 1,639,282; Aug. 16.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Box-making machine and the like. 1,639,283; Aug. 16.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Paper box and the like. 1,644,411; Oct. 4.
- Bergstein, Samuel, assignor to Interstate Folding Box Company, Middletown, Ohio. Adhesive-applying mechanism for paper-box making machines. 1,647,072; Oct. 25.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Sealing boxes and the like. 1,647,073; Oct. 25.

- Bergstein, Samuel, and A. C. E. Lindner, assignors to The Interstate Folding Box Company, Middletown, Ohio. Machine and making paper boxes. 1,624,885; Apr. 12.
- Bergstein, Samuel, and A. C. E. Lindner, assignors to The Interstate Folding Box Company, Middletown, Ohio. Making paper boxes and the like. 1,640,638; Aug. 30.
- Bergsten, Frank R., Elk River, Minn. Cultivator blade. 1,634,531; July 5.
- Bergsten, John, Redondo, Calif., assignor, by mesne assignments, to Standard Machine Company. Elevator. Re16,672; July 12.
- Bergsten, John, Redondo, Calif., assignor, by mesne assignments, to Standard Machine Company. Hook. 1,636,209; July 19.
- Bergstrom, Nathan H., Neenah, Wis. Cylinder for paper-pulp machines. 1,619,052; Mar. 1.
- Bergstrom, Ralph W., Rockford, Ill. Lubricating-oil heater. 1,640,176; Aug. 23.
- Bergström, Yngve E., West Hartford, Conn. Assignor to The Vulcan Radiator Company, Hartford, Conn. Producing radiators. 1,646,384; Oct. 25.
- Berger, Elmar. (See Freese, J., and Beryge.)
- Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Windshield-cleaner installation. 1,616,648; Feb. 8.
- Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Binding strip for running-board treads. 1,617,367; Feb. 15.
- Bergerich, Nathan Merdner, assignor to the Firm Rheinische Metallwaren und Maschinenfabrik, Düsseldorf-Derendorf, Germany. Calculating machine. 1,641,615; Sept. 6.
- Berkander, George F. (See Battle, William T., assignor.)
- Berkdoll, Charles E., assignor, by mesne assignments, to De-Kem Corporation, Dayton, Ohio. Timer-distributor mechanism for internal-combustion engines. 1,641,370; Sept. 6.
- Berkebile, Adam G., Somerset, Pa. Track gauge. 1,649,560; Nov. 15.
- Berkins, Clarence A., Minneapolis, Minn. Hydrocarbon burner. 1,639,920; Aug. 23.
- Berkshaw, Robert J., Niagara Falls, N. Y. Dental cotton holder. 1,630,729; May 31.
- Berkley, Richard H., Plainville, Mass., assignor to Whiting & Davis Company. Manufacture of colored mesh fabric. 1,613,375; Jan. 4.
- Berkley, Richard H., Plainville, Mass., assignor to Whiting & Davis Company. Machine for making link mesh. 1,613,376; Jan. 4.
- Berkowitz, Aaron, New York, N. Y. Hat box. 1,623,715; Apr. 5.
- Berkowitz, Aaron, Newark, N. J. Attachment for parasol and umbrella handles. 1,637,434; Aug. 2.
- Berkowitz, Eugene B., assignor to Baltimore Paper Company, Kansas City, Mo. Feeding device. 1,646,230; Oct. 15.
- Berks Engineering Co. Inc. (See Rahm, Robert C., assignor.)
- Berlin, David W., Rasunda, Sweden. Self-locking nut. 1,639,681; Aug. 23.
- Berlin, David W., Rosunda, near Stockholm. Assignor to Aktiebolaget Ferrolegeringar, Stockholm, Sweden. Producing rustless iron and steel. 1,631,512; June 7.
- Berlin, Samuel, et al. (See Friedman, Moshe, assignor.)
- Berliner, Emil, Washington, D. C. Wall. 1,628,351; May 10.
- Berliner, Robert B., Stein, and W. Trautner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Glyoxal-dianthraquinone compound. 1,646,782; Oct. 25.
- Berlowitz, Max E. (See Ayers, J. G., Chapman, and Berlowitz.)
- Berman, Harry L., Baltimore, Md. Artificial tree. 1,636,981; July 26.
- Berman, Joseph. (See Hilton, Roland C., assignor.)
- Berman, Louis C. (See Santino, Salvatore, assignor.)
- Bernard, Harry, Allentown, Pa., assignor to International Motor Company, New York, N. Y. Weatherproof joint for windshields and the like. 1,646,743; Oct. 25.
- Bernard, Henry R., New York, N. Y. Method of and device for preventing freezing of motor-cooling systems. 1,634,394; July 5.
- Bernard, Pete, Philadelphia, Pa. Table accessory. 1,646,523; Oct. 25.
- Bernard, Thomas T., St. Louis, Mo. Rack. 1,630,105; May 24.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand tool. 1,627,307; May 3.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand tool. 1,636,088; July 19.
- Bernardin Bottle Cap Company. (See Spahn, August C., assignor.)
- Bernardini, John, Cincinnati, Ohio. String-tuning device. 1,629,585; May 24.
- Bernarducci, Louis, Bronx, N. Y. Hair-cutting machine. 1,633,063; June 21.
- Bernat, Raoul, Bordeaux, France. Injector for refrigerating machines. 1,651,112; Nov. 29.
- Berndt, Walter, Brooklyn, N. Y. Doll. Des. 72,749; May 31.
- Bernert, George, Milwaukee, Wis. Pneumatic material conveyor. 1,641,149; Sept. 6.
- Bernet, Martin S., New York, N. Y. Doll. Des. 73,737; Nov. 1.
- Bernhard, Frederick S., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Regulator. 1,645,850; Oct. 18.
- Bernhard, Harry I. (See Schrader, Gustave C. C., assignor.)
- Bernhard, Johan, New York, N. Y. Mechanical window cleaner. 1,653,692; Dec. 27.
- Bernhard, John B., Warren, assignor to Ironton Bernhard Boiler Company, Ironton, Ohio. Sectional heating boiler. 1,619,235; Mar. 1.
- Bernhard, Louis, Boston, Mass. Fire box. 1,614,181; Jan. 11.
- Bernhard, Morris, New York, N. Y. Hanger. 1,615,866; Feb. 1.
- Bernhard, Richard, assignor to Traylor Engineering & Manufacturing Company, Allentown, Pa. Supporting frame for bearings. 1,642,482; Sept. 13.
- Bernhard, Richard, assignor to Traylor Engineering & Manufacturing Company, Allentown, Pa. Oiling device. 1,651,864; Dec. 6.
- Bernhardt, Max E. (See Anderson, Thomas H., assignor.)
- Bernhardt, Max E. (See Greene, David W., assignor.)
- Bernheim, Daniel P., Southbridge, Mass., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting and method. 1,636,336; July 19.
- Bernheim, Lynn B., assignor of one-half to S. Bernheim, Los Angeles, Calif. Ceramic and making the same. 1,654,401; Dec. 27.
- Bernheim, Lynn B. (See Bernheim, Lynn B., assignor.)
- Bernier, Anselme, Biddeford, Me. Threading device for shuttles. 1,627,303; May 3.
- Bernier, Joseph, Lac Frontiere, Quebec, Canada. Rut filler for logging roads. 1,615,867; Feb. 1.
- Berninghaus, Eugene, Cincinnati, Ohio. Vertically-adjustable chair. 1,651,506; Dec. 6.
- Bernini, John, Allentown, Pa. Warp let-off mechanism for looms. 1,622,757; Mar. 29.
- Bernitz Furnace Appliance Company. (See Nygaard, Oscar, assignor.)
- Bernitz Furnace Appliance Company. (See Snow, Benjamin H., assignor.)
- Bernon, Maurice L., London, assignor of one-half to R. J. Vanner, Leicester, England. Perambulator. 1,644,706; Oct. 11.
- Bernotow, Dominik M., assignor to Bunte Brothers, Chicago, Ill. Multicellular mold. 1,619,914; Mar. 8.
- Bernoulli, Walter. (See Hoz, H., Bernoulli, and Link.)
- Bernstein, Alexander, assignor to W. S. Gluck, New York, N. Y. Display apparatus. 1,622,409; Mar. 29.
- Bernstein, Frank, New York, N. Y. Clasp. 1,651,435; Dec. 6.
- Bernstein, Jesse S., and L. Hulbert, said Hulbert assignor to Automatic Ticket Limited, London, England. Machine for issuing paper and printed matter in booklet, card, ticket, or other form. 1,635,171; July 12.
- Berton, Harry S. (See Csonka, F. A., Berton, and Jones.)
- Berntsen, Bernt M., Brooklyn, N. Y. Rotary engine. 1,636,799; July 26.
- Berndt, Clarence P., Chicago Heights, Ill. Bobbin for braiding machines. 1,634,607; July 5.
- Berrenberg, Reinhold A. (See McCann, C. F., and Berrenberg.)
- Berridge, Harold, South Kensington, London, England. Contractible and expandable supporting means suitable for use in the construction of pipes, tunnels, bridges, and other bodies or structures. 1,624,712; Apr. 12.
- Berrisford, William H., Stoke-on-Trent, England. Apparatus for separating coal from dirt and like foreign substances. 1,638,718; Nov. 8.
- Berry, Althea T., Wolfeboro, N. H. Union undergarment. 1,633,972; June 28.
- Berry, Bert C., Calgary, Alberta, Canada, assignor to Berry Shocker Incorporated, Wilmington, Del. Shocker. 1,625,386; Apr. 19.
- Berry, Charles A., McMinnville, Oreg. Drill attachment for plows. 1,652,925; Dec. 13.
- Berry, Charles F., Boston, Mass. Combined door and table. 1,632,268; June 14.
- Berry, Charles H., Detroit, Mich. Terminal-difference gauge. 1,629,068; May 17.
- Berry, Christopher H., Newark, N. J. Automatic grease cup. 1,632,872; June 21.
- Berry, Clarence C., Valley Park, Mo. Electrical connection. 1,631,575; June 7.
- Berry, Earl E., Beloit, Wis., assignor to Beloit Iron Works. Apparatus and method for applying wires to removable Foundrines. 1,613,264; Jan. 4.
- Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Paper-making machine. 1,625,157; Apr. 5.
- Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Paper-making machine. 1,627,882; May 10.
- Berry, Earl E., Beloit, Wis., assignor to Beloit Iron Works, Suction box. 1,644,867; Oct. 11.
- Berry, Edgar, Hyde, Manchester, England. Machine for taping or sealing boxes, bottles, and like containers. 1,645,734; Oct. 18.

- Berry, Edward R., Malden, Mass., assignor to General Electric Company. Quartz working. 1,620,511; Mar. 8.
- Berry, Edward R., Malden, and P. K. Devers, Lynn, Mass., assignors to General Electric Company. Method and apparatus for working quartz. 1,645,086; Oct. 11.
- Berry, Fred F., Los Angeles, Calif. Fox kennel. 1,618,044; Feb. 22.
- Berry, Fred F., Concord, N. H. Extension leg attachment for ladders. 1,631,513; June 7.
- Berry, George W., Wolfboro, N. H. Tire-rim tool. 1,647,122; Nov. 1.
- Berry, Herbert H., and J. W. Reid, London, England. Heating element for electric fires, radiators, and the like. 1,620,627; Mar. 15.
- Berry, Hiram N., Greenville, Miss. Cotton picker. 1,635,161; July 5.
- Berry, Hiram N., assignor of one-third to H. A. Gamble, Greenville, Miss. Vehicle leveling device. 1,636,620; July 19.
- Berry, J. H. (See Davis, Miriam L., assignor.)
- Berry, James. (See Pickup, W., and Berry.)
- Berry, John L., and W. Holden, Andover, Mass. Apparatus for removing and inserting electric bulbs. 1,619,559; Mar. 1.
- Berry, John S., Plainfield, N. J. Window structure. 1,644,507; Oct. 4.
- Berry, Leslie G., Charlotte, N. C. Constructing fire-proofing buildings. 1,627,009; May 3.
- Berry, Lucien G., et al. (See O'Leary, William C., assignor.)
- Berry, Rogers W., and G. W. Bird, Great Falls, Mont. Light mechanism for vehicles. 1,621,920; Mar. 22.
- Berry Shocker Incorporated. (See Berry, Bert C., assignor.)
- Berry Shocker Incorporated. (See Dickinson, H. S., assignor.)
- Berry Shocker Incorporated. (See Esping, Conrad and R., assignors.)
- Berry Shocker Incorporated. (See Yancey, S. H., and Dickinson, assignors.)
- Berry, William A., assignor to The Hooven & Allison Company, Xenia, Ohio. Nipper. 1,630,518; May 31.
- Berscheck, John J., Champaign, Ill., and G. Garst, Urbana, Ill. Corner-bed erector. 1,630,601; May 31.
- Berscheck-Foster-Dixfield Company. (See Stanley, George P., assignor.)
- Bersted, Alfred and M., Chicago, Ill. Griddle or similar article. Des. 73,773; Nov. 8.
- Bersted, Alfred and M., assignors to Bersted Manufacturing Company, Chicago, Ill. Electric heating device. 1,622,485; Mar. 29.
- Bersted Manufacturing Company. (See Bersted, Alfred and M., assignors.)
- Bersted, Martin. (See Bersted, Alfred and M.)
- Bersted, Martin C., San Diego, Calif. Flatiron. 1,620,185; Mar. 8.
- Bersted, Martin C., San Diego, Calif. Automatic electric connection plug for electric heating apparatus. 1,620,184; Mar. 8.
- Bersted, Martin C., San Diego, Calif. Automatic electric connection plug. 1,620,185; Mar. 8.
- Bersted, Martin C., Chicago, Ill. Grease gun. 1,621,308; Mar. 15.
- Bertels, Arnold S., Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing device. 1,632,053; June 14.
- Berth, Arthur, Sheboygan, Wis. Automatic switch for electric light. 1,628,222; May 10.
- Berthelsen, Carl F., Frederiksberg, near Copenhagen, Denmark. Light projector. 1,625,763; Apr. 19.
- Berthiez, Charles, Paris, France. Reciprocating bed motion. 1,613,554; Jan. 4.
- Berthold, Gustave W., Chicago, Ill. Metering panel board. 1,613,174; Feb. 1.
- Berthon, Marcel G., Pratt City, Ala. Milling jig. 1,646,988; Oct. 25.
- Berthon, Paul, assignor to Société de Stearinerie et Savonnerie de Lyon, Lyon, France. Preparation from starch of esters of the higher fatty acids, soluble in hydrocarbons of the aromatic series. 1,651,366; Dec. 6.
- Berthon, Paul, assignor to Société de Stearinerie et Savonnerie de Lyon, Lyon, France. Manufacturing cellulose esters. 1,651,990; Dec. 6.
- Berthon, Paul, assignor to Société de Stearinerie et Savonnerie de Lyon, Lyon, France. Making soluble mixed low and high fatty-acid esters of cellulose. 1,651,991; Dec. 6.
- Bertin, Charles F. J. M., Mustapha, Alger, Algeria. Mechanical integrating device and applications of the same, chiefly to a navigation course recorder. 1,621,394; Mar. 15.
- Berton, Victor, New York, N. Y. Orchestra apparatus. 1,613,978; Jan. 11.
- Bertone, Eugene, Stevenson, Md. Tube cleaner. 1,641,312; Sept. 6.
- Bertram, Frank, Roslindale, assignor to The S. M. Howes Company, Boston, Mass. Metal screen for fireplaces. 1,635,573; July 12.
- Bertram, Louis H. (See Grover, A. D., and Bertram.)
- Bertrand, Claude F. B. G. (See Cogery, H. E. D., and Bertrand.)
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on lasts. 1,624,916; Apr. 19.
- Bertrand, Jean J. M., and L. J. H. Solanet, Paris, France. Internal-combustion engine with cylinders arranged in two opposite lines. 1,634,866; July 5.
- Bertrand, Paul, La Croix, France. Ladder. 1,651,914; Dec. 6.
- Bertschy, Adolph J. P., Plattsmouth, assignor to D. O. Barnell, Omaha, Nebr. Auxiliary charge-forming means for internal-combustion engines. 1,627,139; May 3.
- Bertuccioli, Tomaso B., London, England. Drawing and suspending curtains. 1,652,656; Dec. 13.
- Berwick, Frederick W. (See Quick, W., Thomas, and Berwick.)
- Berwick, John W. (See Shaw, J., and Berwick.)
- Besag, Ernst, Baden-Baden, Germany. Thermal time-lag relay. 1,652,230; Dec. 13.
- Besanco, George, Wilkes-Barre, Pa. Cotter-pin-extracting pliers. 1,621,576; Mar. 22.
- Beskin, Irving, Jersey City, N. J. Automatic toasting and buttering machine. 1,633,391; June 21.
- Beskow, Bernhard M., Miami, Fla. Bracelet holder. 1,614,864; Jan. 18.
- Beskow, Bernhard M., Clearwater, Fla. Hair waver or crimper. 1,637,893; Aug. 2.
- Besler, Charles, Company. (See Schwannhauser, Walter E., assignor.)
- Besley, Charles H., and Company. (See Miller, John, jr., assignor.)
- Besse, Carl H., Tulsa, Okla. Swing lever for sand reels. 1,621,053; Mar. 15.
- Bessee, Frank E. (See McDonald, W. H., and Bessee.)
- Bessemmer Gas Engine Company. (See Murray, Donald G., assignor.)
- Bessemmer, Gottlieb, Chicago, Ill. Smoker's article. 1,637,984; Aug. 2.
- Besser, William, Wauwatosa, Wis. Manifold electric heater. 1,625,448; Apr. 19.
- Bessette, Elzer H., Leominster, Mass. Vehicle signal-lamp casing. 1,625,348; Apr. 5.
- Bessette, George O., assignor of one-half to E. Messere, Mariaville, R. I. Egg opener. 1,618,979; Nov. 15.
- Bessiers, Marie, (See Carley, William J., assignor.)
- Bessler, August, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Locking device for the drive of machines with printing or feeding mechanisms. 1,642,009; Sept. 13.
- Bessler, Frank B., Akron, Ohio. Movable stairway latch. 1,636,279; July 19.
- Bessler, Frank B., Akron, Ohio. Movable stairway. 1,636,280; July 19.
- Bessler, Frank B., Akron, Ohio. Movable stairway. 1,636,281; July 19.
- Bessolo, William L., Clearwater, Calif. Tongs. 1,630,822; Sept. 31.
- Bessolo, William L., Clearwater, Calif. Pipe wrench. 1,651,575; Dec. 6.
- Bessolo, William L., Clearwater, Calif. Wrench. 1,651,576; Dec. 6.
- Bessolo, William L., Clearwater, Calif. Tool. 1,651,577; Dec. 6.
- Bessonett, Leland S., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Fitting for draining lubricants from vehicle motor cases. 1,613,738; Jan. 11.
- Bessonett, Leland S., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Drainage fitting for oil reservoirs. 1,613,739; Jan. 11.
- Best, Charlotte S., executrix. (See Best, Harry S., assignor.)
- Best, Clarence L., assignor, by mesne assignments, to Caterpillar Tractor Co., San Leandro, Calif. Track-laying tractor. 1,638,140; Aug. 9.
- Best, Frank A., Ford, Ontario, Canada, assignor to American Auto Trimming Company, Detroit, Mich. Convertible vehicle body. 1,619,182; Mar. 1.
- Best, Frank E., Inc. (See Mero, R. M., and Mullin, assignors.)
- Best, Frank E., Seattle, Wash. Multiple-station automatic machine. 1,628,103; May 10.
- Best, Frank E., Seattle, Wash. Governor mechanism. 1,644,167; Oct. 4.
- Best, Frank E., Inc. (See Loehr, L. K., and Kind, assignors.)
- Best, George S., San Diego, Calif. Doorbell structure. 1,647,555; Nov. 1.
- Best, Harry S., assignor to John H. Best & Sons, Galva, Ill. Display rack. 1,626,501; Apr. 26.
- Best, Harry S., assignor to John H. Best & Sons, Galva, Ill. Arm. 1,626,502; Apr. 26.
- Best, Harry S., deceased, assignor to C. S. Best, executrix; said C. S. Best assignor to John H. Best & Sons, Galva, Ill. Display rack. 1,638,236; Aug. 9.
- Best, Howard G. (See O'Brien, Frank, assignor.)
- Best, John H., and Sons. (See Best, Harry S., assignor.)
- Best, Wilbur E., Smiths Falls, Ontario, Canada. Tire cracker. 1,652,296; Dec. 13.
- Beswick, David, Brooklyn, N. Y. Portable sewing machine. 1,622,901; Mar. 29.
- Beszczak, John M., Woburn, Mass. Monkey wrench. 1,643,002; Sept. 20.
- Beth, Ehron C., Los Angeles, Calif. Telephone lock. 1,620,628; Mar. 10.

- Betha, Peter H., Washington, D. C. Battery switch. 1,615,106; Jan. 18.
- Bethel, Claude, Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Railway-motor mounting. 1,619,397; Mar. 1.
- Bethel, Claude, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Truck-motor-frame suspension. 1,626,662; May 3.
- Bethel, Claude, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing. 1,630,369; May 31.
- Bethel, Claude, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing. 1,630,370; May 31.
- Bethend, Joseph, Paris, France. Radiotelegraphic station. 1,628,648; May 17.
- Bethend, Joseph, and E. Girardeau, Paris, France. High-frequency alternator. 1,645,517; Oct. 13.
- Bethke, John P., assignor to Magnetic Manufacturing Co., Milwaukee, Wis. Electromagnetic apron feeder. Re1,673; July 12.
- Bethlem Shipbuilding Corporation. (See Warriner, Robert, assignor.)
- Bethlem Steel Company. (See Barker, John S., assignor.)
- Bethlem Steel Company. (See Coffey, John J., assignor.)
- Bethlem Steel Company. (See Faunce, B. F., and Dorris, assignors.)
- Bethlem Steel Company. (See Greenwell, Nevil, assignor.)
- Bethlem Steel Company. (See Howells, F. E., and Leach, assignors.)
- Bethlem Steel Company. (See Kinney, James A., assignor.)
- Bethlem Steel Company. (See McCarty, Richard J., Jr., assignor.)
- Bethlem Steel Company. (See Morgan, Rees C., assignor.)
- Bethlem Steel Company. (See Schenck, Charles, assignor.)
- Bethlem Steel Company. (See Seavey, Elmer S., assignor.)
- Bethlem Steel Company. (See Shimer, William R., assignor.)
- Bethune, John, and J. G. Van Roo, deceased; E. F. Van Roo, executrix, Rochester, assignors to Twin High Transmission Company, Syracuse, N. Y. Variable-speed gear for motor vehicles. 1,634,091; June 28.
- Betke, Herman, Denver, Colo. Steam board. 1,620,753; Mar. 15.
- Betcher, Carl W., assignor to The Eastern Machine Screw Corporation, New Haven, Conn. Die head. 1,615,676; Jan. 25.
- Bettcher Stamping & Manufacturing Company, The. (See Bump, Spencer M., assignor.)
- Betteley, Edward S. C., Surbiton, England. Electrically-operated indicating device. 1,644,102; Oct. 4.
- Bettendorf Company, The. (See Reck, Peter W., assignor.)
- Bettendorf, Joseph W., Bettendorf, Iowa. Brake hanger. 1,640,590; Aug. 30.
- Bettendorf, Joseph W., Bettendorf, Iowa. Journal-box lid. 1,648,253; Nov. 8.
- Bettendorf, Joseph W., Bettendorf, Iowa. Journal-box lid. 1,648,254; Nov. 8.
- Bettendorf, Joseph W., Bettendorf, Iowa. Journal-box lid. 1,648,255; Nov. 8.
- Bettnga, Creno P., assignor to Marshalltown Sheet Metal Works, Marshalltown, Iowa. Feeder for liquid foods. 1,640,139; Aug. 23.
- Bettenhausen, Charles C., Princeton, Nebr. Automatic fire alarm. 1,618,322; Feb. 22.
- Betts, Anson G., Kinderhook, N. Y. Making a metallic reinforced refractory article. 1,624,386; Apr. 12.
- Betts, Clyde G., assignor of one-half to L. J. Betts, Warren, Pa. Anchor block. 1,637,210; July 26.
- Betts, John H. (See Curtis, Henry E., assignor.)
- Betts, John L., Woodbury, Ga. Fruit pail. 1,620,059; Mar. 8.
- Betts, Louis J. (See Betts, Clyde G., assignor.)
- Betts, Orlin R. and San Pedro, Calif. Combined towel rack and clothesline. 1,620,590; Mar. 8.
- Betts, Walter L. (See Kuhn, J. J., and Betts.)
- Bettum, Oscar A., Washington, D. C. Watchmaker's hand vise. 1,653,335; Dec. 20.
- Betz, Arthur B. (See Barker, Percy E., assignor.)
- Betz, Charles, St. Louis, Mo. Material-fastening device. 1,639,072; Aug. 16.
- Betz, Harry D., Kansas City, Mo. Adding machine. 1,644,559; Oct. 4.
- Betz, William G., assignor to Straube Piano Company, Hammond, Ind. Mandolin attachment for pianos. 1,614,946; Jan. 18.
- Betzinger, August, Chicago, Ill. Skid chains. 1,613,922; Jan. 11.
- Betzler, Charles E., St. Louis, Mo. Advertising device. 1,639,482; Apr. 16.
- Beucus, Abraham J., Waupun, Wis., assignor to Paramount Textile Machinery Co., Chicago, Ill. Knitting hosiery. 1,622,857; Mar. 29.
- Beucus, Abraham J., Waupun, Wis., assignor to Paramount Textile Machinery Co., Chicago, Ill. Hosiery. 1,623,024; Mar. 29.
- Begler, Edwin F., assignor to E. & B. Holmes Machinery Co., Buffalo, N. Y. Barrel-reversing mechanism. 1,632,130; June 14.
- Bekke, Gordon W. and P. C. Wego, St. Paul, Minn., assignors to Standard Conveyor Company. Roller for gravity conveyors. 1,622,758; Mar. 29.
- Beusa, Felice. (See Penneck, Walther, assignor.)
- Bevan, Albert E. (See McDonald, C. R., and Bevan.)
- Bevan, Clarence L., and J. R. Cullen, Platteville, Wis. Universal motor control. 1,625,707; May 17.
- Bever, Loyd. (See Maze, H. T., and Bever.)
- Beveridge, Ernest G., Brooklyn, assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Wrinkle remover for web rolls. 1,638,560; Aug. 9.
- Beveridge, James, Richmond, Va. Lining material for alkali-recovery furnaces. 1,619,785; Mar. 1.
- Beveridge, James B., Richmond, Va. Manufacture of paper pulp. 1,631,789; June 7.
- Beveridge, James B., Richmond, Va. Producing sulphite pulp. 1,649,942; Nov. 22.
- Beveridge Paper Company. (See Ross, Harry M., assignor.)
- Bevier, Hutchinson L., Duluth, Minn. Muscle beater. 1,625,977; Apr. 26.
- Beyler, Philip H., Brooklyn, N. Y., assignor to National Fire Proofing Company, Pittsburgh, Pa. Composite floor structure. 1,646,183; Oct. 18.
- Bevilacqua, Gullio, Clifton, N. J. Safety gas-stove lock. 1,632,111; June 14.
- Bewsick, William W., Shelby, assignor to The Cleveland Trust Company, Cleveland, Ohio. Round fabric belt and method and apparatus for forming the same. 1,625,348; Apr. 19.
- Bey Wilhelm, Altona-on-the-Elbe, Germany. Steam generator. 1,642,098; Sept. 13.
- Beyer, Albert, Berlin, Germany. Driving wheel. 1,630,886; May 31.
- Beyer, Alfred H., Cleveland, Ohio. Box. 1,639,793; Aug. 23.
- Beyer, Otto S., assignor, by mesne assignments, to E. W. Bliss Company, Brooklyn, N. Y. Composite radiator and radiation-raising device. 1,635,656; July 12.
- Beyer, Otto S., assignor, by mesne assignments, to E. W. Bliss Company, Brooklyn, N. Y. Radiator. 1,640,874; Aug. 30.
- Beyer, Robert, Meran, Italy. Transmission mechanism. 1,642,763; Sept. 20.
- Beygrauf, Paul T., Berkeley, Calif. Wall board. 1,635,922; July 12.
- Beylard, Adolph S., Dayton, Ohio. Miter box. 1,653,386; Dec. 20.
- Beylard, Sidney A., and E. P. Reynolds, assignors to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Method and apparatus for braiding reinforced cords. 1,617,983; Feb. 15.
- Beyley, Albert, assignor to Rheinische Gummi- und Cellulose-Fabrik, Mannheim-Neckarau, Germany. Manufacture of dolls and parts thereof from cellulose derivatives. 1,645,275; Oct. 11.
- Beynon, Daniel J., Chicago, Ill. Toothbrush. 1,616,464; Feb. 8.
- Beytes, Leon H., North Plymouth, Mass. Head motion for looms. 1,615,736; Jan. 25.
- Bezark, Joseph, assignor to Marshall Field & Company, Chicago, Ill. Playground slide. Des. 73,473; Sept. 20.
- Bezant, Reginald. (See Bezant, Sydney, and B.)
- Bezant, Sydney, Bristol, and E. Bezant, London, England. Adjustable and attachable box cover. 1,622,128; Mar. 22.
- Bezenberger, Fred K., Cleveland Heights, and W. R. Zimmerman, assignors to The Bishop and Babcock Company, Cleveland, Ohio. Thermostat for heating systems. 1,615,825; Feb. 1.
- Blanca, Joseph C., Jr., Scranton, Pa. Mortising machine. 1,637,464; Aug. 2.
- Biasizzo, Vergilio. (See Müller, Jakob, assignor.)
- Bibard, René A., Bellevue, France. Flying apparatus. 1,629,198; May 17.
- Bibb, Carlisle H. (See Zimmerli, W. F., and Bibb.)
- Biber, Engelbert, Providence, R. I. Tobacco burner for pipes. 1,641,856; Sept. 13.
- Biberfeld, Arthur, Berlin, Germany. Ability game. 1,636,893; July 26.
- Biberman, Eva G., Philadelphia, Pa. Lady's and children's bloomers. 1,645,369; Oct. 11.
- Bible, Howard W., Atlantic City, N. J. Building or composing designs of flags or other emblems. 1,652,152; Dec. 6.
- Bichel, Ernest A., et al. (See Smith, Charles F., assignor.)
- Bicheroux, Max, Herzogenrath, near Aix-La-Chapelle, Germany. Transport table for rolled sheet glass. 1,621,054; Mar. 15.
- Bickel, Ackert, Kansas City, Mo. Concrete mixer. 1,650,592; Nov. 29.
- Bickel, Frederick L., Philadelphia, Pa. Washing machine. 1,647,261; Nov. 29.
- Bickel, Henry F., Plainfield, N. J., assignor to The New York Air Brake Company. Light and load freight brake. 1,635,737; July 12.
- Bickel, Henry F., Plainfield, N. J., assignor to The New York Air Brake Company. Angle cock. 1,642,215; Nov. 8.

- Bickel, Henry F., Plainfield, N. J., assignor to The New York Air Brake Company. Push-rod latch for air brakes. 1,649,801; Nov. 22.
- Bickell, William G., assignor of one-half to G. A. Belding, Pittsburgh, Pa. Roofing clip. 1,626,780; May 3.
- Bickford, Harold D., Waterville, Me. Molder's disk. 1,622,928; Mar. 29.
- Bicknell, George M., St. Louis, Mo. Carburetor. 1,630,887; May 13.
- Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Composition of gum chicle dispersed in an aqueous colloid. 1,624,088; Apr. 12.
- Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Insect lime and making the same. 1,624,089; Apr. 12.
- Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Galvanoplasty. 1,624,675; Apr. 12.
- Bieh, Frank, Jersey City Heights, N. J. Screw driver. 1,616,900; Feb. 1.
- Bidwell, Robert W. (See Jarnagin, Harry S., assignor.)
- Biebel, Herman M., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Indicating fluid-circuit interrupter. 1,624,463; Apr. 12.
- Biebel, Herman M., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric resistance furnace. 1,638,822; Aug. 16.
- Bieber, Rudolf J., Hamburg, Germany. Manufacturing receptacles. 1,642,717; Sept. 20.
- Biedermann, Carl, Lucerne, Switzerland. Envelope. 1,630,465; May 31.
- Bieh, Bernard, sr. (See Sommer, J. L., and Biehl.)
- Bielefeldt, Herman, Berlin, Germany. Device for producing offset prints. 1,643,571; Sept. 27.
- Biemer, Heinrich, Berlin, Germany. Padlock. 1,621,847; Mar. 15.
- Bienenstein, Andreas, assignor to The Conklin Pen Manufacturing Company, Toledo, O. Mounting erasers within holder members. 1,648,256; Nov. 8.
- Bienert, Hermann, Beuthen, Germany. Electric safety lock. 1,614,058; Jan. 11.
- Bienz, Charles, St. Jean, Switzerland. Cylinder for internal-combustion engines. 1,617,008; Feb. 8.
- Bierce, Fred N., Cincinnati, Ohio. Burner. 1,617,744; Feb. 15.
- Bierce, Fred N., Cincinnati, Ohio. Guard for guys and the like. 1,627,423; May 3.
- Bierce, Fred N., Cincinnati, Ohio. Guy anchor. 1,644,103; Oct. 4.
- Bierman, Edwin W., assignor to Standard Four Tire Co., Keokuk, Iowa. Tubular molding apparatus. 1,637,465; Aug. 2.
- Bierman, Edwin W., assignor to Standard Four Tire Co., Keokuk, Iowa. Tube-splicing method. 1,637,466; Aug. 2.
- Bierman, Edwin W., assignor to Standard Four Tire Co., Keokuk, Iowa. Cuffing device for inner tubes. 1,637,467; Aug. 2.
- Bierman, Harry C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded gear. 1,637,331; Aug. 2.
- Bierman, Harry C., New Rochelle, and G. W. Speirs, Glendale, N. Y., assignors to American Cyanamid Company, New York, N. Y. Ammonia cylinder cap. 1,627,371; May 3.
- Biermanns, Josef, Karlshorst, Germany, assignor to General Electric Company. Protection of electric systems. 1,650,593; Nov. 29.
- Biernat, Carl, Glasford, Ill. Railway tie and rail fastener. 1,628,449; May 10.
- Bifex Products Company. (See Pancoast, William G., assignor.)
- Bifex Products Company. (See Thompson, George W., assignor.)
- Bigelow Arch Company. (See Bigelow, Frank B., assignor.)
- Bigelow, Charles A. (See Shapleigh, J. H., and Bigelow.)
- Bigelow, Edmund S., Kansas City, Mo. Window-shade support. 1,635,700; July 12.
- Bigelow, Frank B., assignor to Bigelow Arch Company, Detroit, Mich. Cooled furnace wall. 1,636,894; July 26.
- Bigelow Hartford Carpet Company. (See Sniffen, George W., assignor.)
- Bigelow Hartford Carpet Company. (See Vetter, Ignatius J., assignor.)
- Bigelow, Milton E., Warren, Ariz. Motive-fluid generator. 1,624,464; Apr. 12.
- Biggs, Andrew F. (See Rost, Robert W., assignor.)
- Biggers, D. C., et al. (See Presa, Gilberto N., assignor.)
- Biggert, Florence C., Jr., Crafton, and L. Johnson, Ingram, Pa. Method and apparatus for rolling sheetlike material. 1,654,235; Dec. 27.
- Biggio, John, Little Falls, N. J. Roller skate. 1,617,984; Feb. 15.
- Bigs, Charles H., London, England. Making horns for sound-reproducing apparatus. 1,654,208; Dec. 27.
- Bigsby, George A., assignor to The James Leffel and Company, Springfield, Ohio. Runners for turbines. 1,613,816; Jan. 11.
- Bizler, Edward A., Auburn, Ill. Automatic latch mechanism for gates. 1,642,534; Sept. 13.
- Bignell, Edward, Lincoln, assignor to Concrete Piling Co., Seward, Nebr. Pile. 1,619,053; Mar. 1.
- Bignell, Edward, Lincoln, assignor to Concrete Piling Co., Seward, Nebr. Pile. 1,621,232; Mar. 15.
- Bignell, Edward, Lincoln, assignor to Concrete Piling Co., Seward, Nebr. Method and apparatus for river control. 1,622,568; Mar. 29.
- Bignell, Edward, Lincoln, Nebr. Apparatus for river control. 1,643,691; Sept. 27.
- Bignell, Edward, Lincoln, Nebr. Apparatus for removing piles. 1,644,560; Oct. 4.
- Bigney, S. O., and Company. (See Bigney, Sidney O., assignor.)
- Bigney, Sidney O., assignor to S. O. Bigney & Company, Attleboro, Mass. Bracelet hook. 1,619,014; Mar. 1.
- Bigoney, Thomas W., Philadelphia, Pa. Toothbrush cover. 1,653,540; Dec. 20.
- Bigsby, Walter L. (See Williams, R. A., and Bigsby.)
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Automobile chassis lubrication. 1,618,122; Feb. 15.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubricating installation. 1,632,771; June 14.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Flow-control fitting. 1,632,772; June 14.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Supply installation for central chassis lubrication. 1,632,773; June 14.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Element of lubricant supply installations. 1,632,774; June 14.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubricating installation. 1,632,775; June 14.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Supply installation for central chassis lubrication. 1,632,776; June 14.
- Bilbo, Sedgie, Tylertown, Miss. Fan support. 1,633,514; June 21.
- Bilbrey, George L., Hermitage Springs, assignor of one-half to J. B. Freeman, Lafayette, and of one-fourth to J. R. Vaughn, Red Boiling Springs, Tenn. Fertilizer distributor. 1,620,320; Mar. 8.
- Bilz, Jakob, Vienna, Austria. Packing prismatic articles. 1,635,528; July 12.
- Bilderback, Charles. (See Jackson, Clarence W., assignor.)
- Bilderback, Henry S., Elk City, Okla. Snap hook. 1,644,168; Oct. 4.
- Bilderback, Henry S., Elk City, Okla., and C. A. Franke, Little Rock, Ark. Method of and machine for molding rolls. 1,630,163; May 24.
- Bildstein, Paul, and E. Seidel, Elberfeld, Germany. Device for stopping railway trains independently of the driver. 1,627,724; May 10.
- Biles, Andrew W., Glasgow, Scotland. Tipping apparatus for wagons and the like. 1,615,737; Jan. 25.
- Biles, Reginald W., Balcombe, and J. Plover, Welwyn Heath, near Welwyn, assignors to A. Reyrolle & Company, Limited, Hebburn-on-Tyne, England. Protective arrangement for duplicate-feeder electric systems. 1,652,086; Dec. 6.
- Biles, William A., Chicago, Ill. Shade-supporting structure. 1,613,074; Jan. 4.
- Bilgatz, Ed, and F. P. Bartlett, Chicago, Ill. Battery connector. 1,641,837; Sept. 6.
- Bill, Earl M., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. 1,633,804; June 28.
- Billé, Léon, Nogent-sur-Marne, France. Pipes, tubes, and the like and method of and apparatus for making the same. Re16,523; Jan. 4.
- Bilherbeck, Henry B., Philadelphia, Pa. Stair-controlled electric-light switch. 1,613,075; Jan. 4.
- Billerman, John A., Battersea, London, England. Building construction. 1,651,323; Nov. 29.
- Billet, Barney, and S. Hellweil, New York, N. Y.; said Hellweil assignor to said Billet. Skull-shaping means. 1,651,456; Dec. 6.
- Billettoud, Chester A. (See Winkler, John, assignor.)
- Billettoud, Chester A. (See Rundgren, J., and Billettoud.)
- Billhimer, Frank M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,615,677; Jan. 25.
- Billings, Clarence E., New Haven, Conn. Closure member for receptacles of the like. 1,642,138; Sept. 13.
- Billings, Frank. (See Greenleaf, Robert P., assignor.)
- Billings, Fred P., Belmont, N. H. Sinkers for knitting machines. 1,653,886; Dec. 27.
- Billings, Frederic C., assignor to The Billings & Spencer Company, Hartford, Conn. Drop hammer. 1,649,380; Nov. 15.
- Billings, Frederick C., Miami, Fla. Drying pad for films. 1,651,004; Nov. 22.
- Billings, Richard B., and J. E. O'Toole, Utica, N. Y. Cable puller. 1,653,893; Dec. 27.
- Billings & Spencer Company, The. (See Billings, Frederic C., assignor.)
- Billings & Spencer Company, The. (See Talcott, Morton C., assignor.)

- Billingsley, Ora. (See Raines, B. D., and Billingsley.)
 Billingsley, Ora, New York, N. Y. Lock. 1,645,579; Oct. 18.
- Billingsley, William H., Florence, Ala. Ornament for automobile radiator caps. Des. 71,775; Jan. 4.
- Billingsley, William H., Florence, Ala. Radiator cap. 1,626,177; Apr. 26.
- Billon, Francois, Paris, France. Purification of vaccines. 1,649,351; Nov. 15.
- Billon, Francois, assignor to Les Etablissements Pouleuc Freres, Paris, France. Salts composed of alkaloids and acetylaminohydroxyphenylarsenic acid and preparing the same. 1,643,692; Sept. 27.
- Billon, Frederic, and J. Bohli, assignors to Scintilla Aktiengesellschaft, Solothurn, Switzerland. Ignition machine. 1,620,060; Mar. 8.
- Billwiler, John, Seelhausen, Germany. Loosening vegetable fibers. 1,649,281; Nov. 15.
- Blitzen, George. (See Jensen, A. C., Moloney, and Blitzen.)
- Bliz, Anton, Berlin, Germany. Pile arrangement in sheet-feeding apparatus. 1,614,059; Jan. 11.
- Bindemann, George H., Wauseon, Ohio. Poultry fountain. 1,627,140; May 3.
- Binder, Adolph E., Spokane, Wash. Grate bar and support. 1,645,735; Oct. 15.
- Binder, Adolph E., Spokane, Wash. Curtain and shade roller mounting. 1,653,145; Dec. 20.
- Binder, Christian, Pittsburgh, Pa. Brick-ice-cream container. 1,627,424; May 3.
- Binder, Karl, Stuttgart, Germany. Developer for photographic plates, films, papers, and the like. 1,617,434; Feb. 15.
- Bindon, James, Newport, R. I. Vase. 1,615,611; Jan. 25.
- Bindon, James, Newport, R. I. Automobile accessory. 1,651,943; Dec. 6.
- Binford, James R., Dallas, Tex. Window-shade guide. 1,631,460; June 7.
- Bing, Julius, assignor to the Firm Magnet-Werk G. m. b. H. Eisenach, Spezialfabrik für Elektromagnet-Apparate, Eisenach, Thuringia, Germany. Electromagnetic friction clutch. 1,622,939; Mar. 29.
- Bing, Julius, assignor to Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Friction body for multiple-disk clutches and the like. 1,625,933; Apr. 26.
- Bing, Julius, assignor to the Firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Electromagnetically-operated friction clutch. 1,635,068; July 5.
- Bing, Julius, assignor to Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Thuringia, Germany. Electromagnetic chuck. 1,647,951; Nov. 1.
- Bing, Julius, assignor to Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Variable-speed gear. 1,650,594; Nov. 29.
- Bing Werke. (See Reischl, Ludwig, assignor.)
- Bing-Werke, vorm. Gebr. Bing A-G. (See Reischl, Ludwig, assignor.)
- Bing-Werke, vorm. Gebr. Bing Aktiengesellschaft. (See Schliederer, Emil, assignor.)
- Bingham, John R., West Reading, Pa. Lock valve for gasoline motor supply. 1,621,486; Mar. 22.
- Bingham, John R., West Reading, Pa. Fluid brake mechanism for motor shafts. 1,621,653; Mar. 22.
- Bingham, John R., and W. R. Nagle, Reading, Pa. Logging. 1,613,784; Jan. 11.
- Binazy, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer cooler. 1,641,247; Sept. 6.
- Binazy, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer tank. 1,641,248; Sept. 6.
- Bingham, Harold E., assignor to himself and C. D. Thorburn, Montreal, Quebec, Canada. Relief valve. 1,652,231; Dec. 13.
- Bingham, Jeremiah, assignor to The Bingham Stamping & Tool Company, Toledo, Ohio. Wheel-hub construction. 1,632,214; June 14.
- Bingham-Lorimer Manufacturing Company. (See Lorimer, G. W., and McVicker, assignors.)
- Bingham Stamping & Tool Company, The. (See Bingham, Jeremiah, assignor.)
- Bingle, Herman C., Tigard, Oreg. Handle. 1,644,630; Oct. 4.
- Binkley, Roy S., L. E. Stutsman, and T. E. Grove, Dayton, Ohio. Antrum burr. 1,630,239; May 24.
- Binks, Harry D. (See Sausen, B. R. and Binks, assignors.)
- Binks, Harry D., Oak Park, assignor to Binks Spray Equipment Co., Chicago, Ill. Spray gun. 1,650,686; Nov. 29.
- Binks Spray Equipment Co. (See Binks, Harry D., assignor.)
- Binks Spray Equipment Co. (See Sausen, B. R., and Binks, assignors.)
- Binns, George F., Temiskaming, Quebec, Canada. Mechanical loader. 1,654,402; Dec. 27.
- Binns, George W., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Roll-grinding machine. 1,654,236; Dec. 27.
- Biondi, Saverio, Los Angeles, Calif. Powder puff. 1,629,772; May 24.
- Blondo, Philip M., Brooklyn, N. Y. Graphic instrument. 1,614,341; Jan. 11.
- Bir, Herman M., Lima, Ohio. Diffusing and coloring rays of light. 1,625,407; Apr. 19.
- Birch, Arthur, Arlington, Mass. Packing device for steam joints of drier cylinders and the like. 1,634,821; July 5.
- Birch, Charles H., Joliet, Ill. Apparatus for comminuting materials. 1,646,184; Oct. 18.
- Birch, Gustaf B. (See Cameron, J. A., and Birch.)
- Birch, Herbert E., assignor to R. H. Beaumont Co., Philadelphia, Pa. Fastening hoisting rope to skip buckets and counterweights. 1,632,755; June 14.
- Birch, Robert W., Livingston, Mont. Collapsible basket. 1,639,921; Aug. 23.
- Birch, William T., Chicago, Ill. Foot pad. 1,625,187; Apr. 19.
- Birchard, Ford G., Lewisburg, Pa. Airship and making the same buoyant. 1,624,917; Apr. 19.
- Birch-Field, Charles A., Larchmont, N. Y. Inductance unit. 1,645,511; Oct. 18.
- Birchfield Engineering Company Limited, The. (See Chisholm, Douglas W., assignor.)
- Bird, Edward S., and F. B. Cockburn, assignors to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Lathe. 1,628,598; May 10.
- Bird, Elmer E., assignor of fifty-one one-hundredths to J. W. Trietschman, Little Rock, Ark. Method and apparatus for the manufacture of carbon black or lamp-black. 1,616,409; Feb. 1.
- Bird, Frank P., Childs, Md. Combination box. 1,616,436; Feb. 8.
- Bird, George W. (See Berry, R. W., and Bird.)
- Bird, Leif, Oceanpark, Calif. Hitch for earth scrapers. 1,616,212; Feb. 1.
- Bird Machine Company. (See Clarke, Ralph S., assignor.)
- Bird & Son, Inc. (See Hale, William E., assignor.)
- Bird & Son, Incorporated. (See Wyman, George R., assignor.)
- Bird, Walter J., Flushing, N. Y. Menu holder. 1,632,783; Jan. 29.
- Bird, William, Belmont, Calif. Check valve. 1,613,076; Jan. 4.
- Birdsall, Charles G., Elmhurst, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,641,524; Sept. 6.
- Birdsey, Charles R., Hinsdale, Ill. Plaster wall board. 1,631,930; Nov. 29.
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Apparatus for making plastic building members. 1,615,815; Jan. 25.
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Method and apparatus for constructing plaster board. 1,643,801; Sept. 27.
- Birdsey, Clarence, assignor to General Seafoods Corporation, Gloucester, Mass. Method in preparing foods and the product obtained thereby. Re16,740; Sept. 20.
- Birely, Jesse C., New Oxford, assignor of one-half to A. R. Brodbeck, Hanover, Pa. Windshield cleaner. 1,630,921; May 31.
- Birkenmeier, August G., et al. (See Aichele, Ernest, assignor.)
- Birker, Hermann, Dusseldorf, Germany. Perspective chart. 1,618,164; Feb. 22.
- Birkhead, Claude V. (See Covey, Charles A., assignor.)
- Birkholz, Edward P., Colonia, N. J. Circuit closer. 1,625,017; Apr. 19.
- Birkholz, Joseph A., Orange, N. J. Building unit. 1,634,283; July 5.
- Birkigt, Marc, Bois Colombes, France. Valve-gear-operating device. 1,639,583; Aug. 16.
- Birkigt, Marc, Bois Colombes, France. Gear-wheel transmission. 1,647,032; Oct. 25.
- Birkin, Charles W., and E. T. Sands, assignors to Birkin and Company, Broadway, Nottingham, England. Lace mat. Des. 73,959; July 19.
- Birkin, Charles W., and E. T. Sands, assignors to Birkin and Company, Broadway, Nottingham, England. Lace mat. Des. 73,060; July 19.
- Birkin, Charles W., Radcliffe-on-Trent, H. L. Birkin, and A. Coxon, assignors to Birkin and Company, Nottingham, England. Machine-made lace and manufacturing same. 1,618,738; Feb. 22.
- Birkin, Charles W., Lamcote, Radcliffe-on-Trent, H. L. Birkin and A. Coxon, assignors to Birkin and Company, Nottingham, England. Manufacture of lace. 1,622,021; Mar. 22.
- Birkin and Company. (See Birkin, C. W., and Sands, assignors.)
- Birkin and Company. (See Birkin, C. W. and H. L., and Coxon, assignors.)
- Birkin, Harry L. (See Birkin, C. W. and H. L., and Coxon.)
- Birrmann, Rudolph, assignor to The De Laval Steam Turbine Company, Trenton, N. J. Controlling the flow of elastic fluid in turbines. 1,613,868; Jan. 11.
- Birruingham Small Arms Company Limited, The. (See Newman, George, assignor.)
- Birmingham, Thomas H., Jamaica, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Company, Inc., Garden City, N. Y. Aerofoil. 1,613,602; Jan. 11.
- Birnie Paper Company. (See Collins, George E. P., assignor.)

- Biro, Carl, Marblehead, Ohio. Meat cutter. 1,643,829; Sept. 27.
- Biron, Wilfred. (See Gervais, M., and Biron.)
- Birrell, William, Chehalis, Wash. Self-righting toy. 1,614,227; Jan. 11.
- Birch, Fred W., La Porte, Ind., assignor to Eastman-Morley Company. Heating liquids. 1,622,569; Mar. 29.
- Birch, Fred W., assignor to Birch Laboratories Inc., Buffalo, N. Y. Liquid heater. 1,633,768; June 28.
- Birch Laboratories Inc. (See Birch, Fred W., assignor.)
- Bisbee, Walter G., and B. P. Hoffman, Bristow, Okla. Agitator for oil wells. 1,616,023; Feb. 1.
- Bisbee, Walter G., and B. P. Hoffman, Bristow, Okla. Tubing elevator for oil wells. 1,643,283; Sept. 20.
- Bischof, Bernhard, Geneva, Switzerland. Engine with rotating cylinders arranged radially. 1,646,185; Oct. 18.
- Bischof, Ulrich, Horgen, Switzerland, assignor, by mesne assignments, to Smyth Manufacturing Company, Hartford, Conn. Apparatus for sheet-fastening machines for applying adhesive to the sheets. 1,646,783; Oct. 25.
- Bischoff, Hans, Corono, N. Y. Illuminating pencil. 1,649,656; Nov. 15.
- Bishop and Babcock Company, The. (See Bezenberger, F. K., and Zimmermann, assignors.)
- Bishop & Babcock Company, The. (See Müller, F. W., and Weatherhead, assignors.)
- Bishop & Babcock Company, The. (See Patton, Hal T., assignor.)
- Bishop & Babcock Manufacturing Company, The. (See Levy, Edward J., assignor.)
- Bishop, Benjamin S. T. (See Gifford, A. J., and Bishop.)
- Bishop, Benjamin S. T., Shrewsbury, and P. E. Dow, Leicester, assignors to Leland-Gifford Company, Worcester, Mass. Electric reversing device for tapping machines. 1,640,177; Aug. 23.
- Bishop, Benjamin S. T., Shrewsbury, assignor to Leland-Gifford Company, Worcester, Mass. Belt shipper. 1,653,250; Dec. 20.
- Bisshop, Charles L., Cedar Falls, Iowa. Glass-cutting holder. 1,649,282; Nov. 15.
- Bishop, Garrie R., Russell, Iowa. Wind motor. 1,633,842; June 28.
- Bishop, George E., Cleveland, Ohio. Automobile inclosure. 1,620,003; Mar. 8.
- Bishop, George E., Cleveland, Ohio. Automobile inclosure. 1,646,722; Oct. 25.
- Bishop, Joseph E. (See Turner, G., and Bishop.)
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Pin-setting machine. 1,615,064; Jan. 18.
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Machine for setting tempins. 1,626,446; Apr. 26.
- Bishop, Joseph W., Muskegon, Mich., assignor to Brunswick-Balke-Collender Company, Wilmington, Del. Combined phonograph and radio receiving apparatus. 1,636,210; July 19.
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Phonograph record. 1,637,544; Aug. 2.
- Bishop, Lucius L., Chicago, Ill. Luggage carrier. 1,654,033; Dec. 27.
- Bishop, Minnie, Arcadia, Fla. Locking device. 1,617,985; Feb. 15.
- Bishop, Oakley M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chloro-derivatives of N-dihydro-1,2,1',2'-anthraquinone-azine and making same. 1,637,851; Aug. 2.
- Bishop, Orlean E., Clifton, S. C., assignor to E. E. Child Company, Spartanburg, S. C. Shaft box. 1,645,982; Oct. 18.
- Bishop, Stanley H., and N. F. McNaught, Chicago, assignor to Cross Manufacturing Company, Woodstock, Ill. Spring for shock absorbers. 1,642,058; Sept. 13.
- Bishop, Wayne R. (See Clift, James A., assignor.)
- Bishop, William T., Henderson, Tenn. Portable stove. 1,622,176; Mar. 22.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Latch for boxes. 1,615,784; Jan. 25.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Plug receptacle. 1,651,747; Dec. 6.
- Bissell Carpet Sweeper Company. (See Owen, Ira J., assignor.)
- Bissell Carpet Sweeper Company. (See Owen, I. J., and Bouwmeester, assignors.)
- Bissell Carpet Sweeper Company. (See Sollday, Foster K., assignor.)
- Bissell, Richard E., Cleveland Heights, assignor to Thompson Products Inc., Cleveland, Ohio. Poppet valve. 1,615,211; Jan. 25.
- Bittney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Collapsible rack. 1,612,903; Jan. 4.
- Bittney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Structural unit. 1,636,163; July 19.
- Bitterman, Clifford. (See Cloud, H. D., and Bitterman.)
- Bittick, Halton A., Taylor, Tex. Manually-carried transporting device for electrical conductors. 1,623,823; Apr. 5.
- Bittlinger, Charles, Duxbury, Mass. Production and utilization of dichroic lines. 1,629,250; May 17.
- Bittner, Andrew F., New York, N. Y. Pipe. 1,628,649; May 17.
- Bittner, Christian, Elwood, assignor of forty-nine one- and two-cylinder H. Endres, Park Place, Ore. Differential for automobiles. 1,643,753; Nov. 8.
- Bittner, William, New York, N. Y. Sheet-Metal-Bending Machine. 1,613,307; Jan. 4.
- Bittner, William H. (See Winkler, C., and Bittner.)
- Bitzel, Andrew, assignor to The Thermo Instrument Company, Akron, Ohio. Temperature, pressure, or flow regulating device. 1,629,064; May 17.
- Bitzer, Louis C., Cheswick, Pa., assignor to The Red Raven Corporation. Container. 1,649,211; Nov. 15.
- Biva, Lucien, Brooklyn, N. Y., assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or similar article. Des. 72,505; Mar. 29.
- Biva, Lucien, Brooklyn, N. Y., assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or similar article. Des. 72,306; Mar. 29.
- Biva, Lucien, Brooklyn, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric. Des. 72,750; May 31.
- Biva, Lucien, Brooklyn, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric. Des. 72,751; May 31.
- Biva, Lucien, Brooklyn, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric. Des. 72,752; May 31.
- Biva, Lucien, Brooklyn, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric. 72,753; May 31.
- Bixby, Alvan H., Hyde Park, Mass., assignor to Peabody Lignum Company, New York, N. Y. Air register. 1,651,348; Nov. 29.
- Bixby, Milo P., assignor of one-third to M. Engmark, Chicago, Ill. Loading machine. 1,613,923; Jan. 11.
- Bixby, Walter. (See Hathaway, E. F., and Bixby.)
- Bixby, Walter. (See Mason, H., Bixby, and Bogdan.)
- Bixby, Walter, assignor to Eastmut Engineering Company, Boston, Mass. Tube frame. 1,621,458; Mar. 15.
- Bixler, L. B. Henry, and W. L. Bixler, Fresno, Calif. Garment conveyor. 1,645,315; Oct. 11.
- Bixler, William L. (See Bixler, L. B. Henry, and W. L.)
- Bjerke, Peter O., Cliffsides, N. J., assignor of one-half to W. Mitchell, Lynbrook, Long Island, N. Y. Motor-vehicle heater. 1,650,977; Nov. 29.
- Bjerregaard, August P., Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y. Extracting hydrocarbons from gas. 1,624,206; Apr. 12.
- Bjork, Carl, Wilmington, Calif. Rowlock. 1,650,418; Nov. 22.
- Bjork, Victor T., St. Paul, Minn. Shaker bar for locomotive grates. 1,629,674; May 24.
- Bjorklund, John E., Milwaukee, Wis., and G. Blyberg, Minneapolis, Minn. Blower nozzle. 1,653,980; Dec. 27.
- Bjorkholtz, Gustav A., Chicago, Ill. Liquid-dispensing device. 1,629,905; May 24.
- Bjorklund, Felix, Fairport Harbor, Ohio. Power operated hand saw. 1,626,503; Apr. 26.
- Bjorklund, Orval, St. Paul, Minn. Hot-water heater. 1,644,228; Oct. 11.
- Björkman, George E., Paris, France. Apparatus for permanent undulation. 1,642,867; Sept. 20.
- Bjorkman, John G., Chicago, Ill. Billiard table. 1,615,899; Feb. 1.
- Bibon, Geo. W., Co., The. (See Cartwright, Frank, assignor.)
- Bibon, George W., Company, The. (See Tamberlin, John, assignor.)
- Blacher, Joseph, et al. (See Burgess, Pearl M., assignor.)
- Black, Archibald, Garden City, N. Y. Freight-airplane body. 1,625,700; Apr. 19.
- Black, Archibald, Garden City, N. Y. Airplane and other aircraft body. 1,625,701; Apr. 19.
- Black, Archibald, Garden City, N. Y. Flotation device. 1,643,049; Sept. 20.
- Black & Decker Manufacturing Company, The. (See Decker, Alonzo G., assignor.)
- Black & Decker Manufacturing Company, The. (See Stumpf, Walter, assignor.)
- Black, Edgar T., Winston-Salem, N. C. Mechanical movement. 1,641,691; Sept. 12.
- Black, Edward F., Tulsa, Okla., assignor to Black, Sivalis & Bryson Mfg. Co., Kansas City, Mo. Leak-tight sectional tank. 1,627,309; May 3.
- Black, Eugene, New York, N. Y. Cigar and cigarette dispensing device. 1,650,181; Nov. 22.
- Black, Frank J., Cranford, N. J. Ring gear and making the same. 1,632,818; June 21.
- Black, Harold S., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier wave signaling system. 1,620,629; Mar. 15.
- Black, Harold S., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency translating circuits. 1,653,887; Dec. 27.
- Black, Harold S., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulated-carrier-wave signaling system. 1,653,887; Dec. 27.
- Black, John C., Drestrehan, La. Process and apparatus for fractionating hydrocarbon oils. 1,652,886; Dec. 13.

- Black, John C., Destrehan, La., and W. D. Rial and R. T. Howes, Los Angeles County, assignors to Pan American Petroleum Company, Los Angeles, Calif. Treatment of petroleum products. Reissued, 1,619,719; July 12.
- Black, John E., Mendota, Ill. Machine for edge-uniting veneers. 1,643,194; Sept. 20.
- Black, Lee J., Beaumont, Tex. Pump jack. 1,620,795; Mar. 15.
- Black, Lee J., Beaumont, Tex. Gate valve. 1,624,465; Apr. 12.
- Black, Lee J., and E. E. Swope, Beaumont, Tex. Screw pump. 1,624,466; Apr. 12.
- Black, Lester C., Los Angeles, Calif. Rotary drill bit. 1,621,921; Mar. 22.
- Black, Lester C., Los Angeles, Calif. Multistage pump plunger. 1,646,134; Oct. 18.
- Black, Mills S., Huntington Park, Calif. Casing cutter. 1,643,572; Sept. 27.
- Black, Percy S. (See Negly, L. A. and Black.)
- Black, Raymond P., Rockton, Ill. Lubricant retainer. 1,616,105; Feb. 1.
- Black, Robert L., Roanoke, Va. Lubricator. 1,635,602; July 12.
- Black, Robert L., Roanoke, Va. Lubricator. 1,635,603; July 12.
- Black Rock Manufacturing Company, The. (See Nicholas, William, assignor.)
- Black, Sivalis & Bryson Mfg. Co. (See Black, Edward F., assignor.)
- Black, Sivalis & Bryson Mfg. Co. (See Raymond, Gwynne, assignor.)
- Black, Thomas C., Portland, Ore. Detachable link. 1,648,135; Oct. 18.
- Black, Walter G., Whittier, assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Crown-block bearing for oil wells. 1,651,663; Dec. 6.
- Black, William F., Dausba, Minn. Hairpin. 1,651,802; Dec. 6.
- Blackader, Thomas, Great Neck, N. Y. Treating leather. 1,645,642; Oct. 18.
- Blackburn, Albert T., Jersey City, N. J. Electric cluster lamp fixture. Des. 73,365; Aug. 30.
- Blackburn, Clifton A., Little Rock, Ark. Alarm. 1,643,870; Sept. 27.
- Blackburn, Edward H. (See Beck, K. H. and Blackburn.)
- Blackburn, Elbert F., Little River, Fla. Spring lubricator. 1,615,065; Jan. 18.
- Blackburn, Jasper, Webster Groves, Mo. Preselecting and shifting mechanism for sliding-gear transmissions. 1,625,188; Apr. 19.
- Blackburn, Jasper, Webster Groves, Mo. Tamping bar for expanding earth anchors. 1,639,836; Aug. 23.
- Blackburn, Joseph T. (See Van Ausdal, J. H., and Blackburn.)
- Blackburn, Robert, Chorley, assignor to Parent Caterpillar Company, Limited, London, England. Round-about and like amusement apparatus. 1,632,692; June 14.
- Blackden, Perry D., assignor of one-half to Ora A. Morse, Sacramento, Calif. Grain cleaning and grading machinery. 1,620,865; Mar. 15.
- Blacker, Earl, Everett, Wash. Bag-delivering machine. 1,628,391; May 10.
- Blackford, Gilbert V., assignor of one-half to W. R. Hobbs, Independence, Kans. Awning for automobile doors. 1,625,785; Apr. 26.
- Blackham, Ninian A., Long Branch, and G. N. Robillard, Toronto, Ontario, Canada; said Blackham assignor to said Robillard. Elevator. 1,619,966; Mar. 8.
- Blackhawk Manufacturing Co. (See Pfauter, Edward M., assignor.)
- Blackley, William R., Hamlet, N. C., and R. M. Meredith, Savannah, Ga. Driving-box mounting. 1,628,223; May 10.
- Blacklock, Thomas. (See Guy, H. L. and Blacklock.)
- Blackman, Albert E., Mount Vernon, N. Y. Radiator cover. 1,636,089; July 19.
- Blackman, Horace L., assignor to The Parker Pen Company, Janesville, Wis. Holder for fountain pens. 1,629,987; May 24.
- Blackmon, Ben C., Dallas, Tex. Matrix-making machine. 1,625,786; Apr. 26.
- Blackmon, Ben C., Dallas, Tex. Support for collapsible container tubes. 1,638,613; Aug. 9.
- Blackmon, John F., Laurens, S. C. Loom dobbie. 1,641,111; Aug. 30.
- Blackmore, Charles C., Dayton, Ohio. Shock absorber. 1,643,050; Sept. 20.
- Blackmore, George W., Edgewood, assignor to Automatic Gas Steam Radiator Company, Pittsburgh, Pa. Gas steam radiator. 1,630,107; May 24.
- Blackmore, Lloyd. (See Flint, R. N., and Blackmore.)
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Vehicle having brakes. 1,638,316; Aug. 9.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Horn button. 1,640,875; Aug. 30.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Drive-axle construction. 1,644,707; Oct. 11.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Motor vehicle. 1,644,708; Oct. 11.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Tractor. 1,651,367; Dec. 6.
- Blackmore, William, Sharon, Pa., and A. J. Bazeley, and D. Robinson, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,647,497; Nov. 1.
- Blackmore, William, Sharon, Pa., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Shock-absorbing mechanism. 1,653,988; Dec. 27.
- Blackmore, William, assignor of one-third to E. Bell, Sharon, Pa., and one-third to W. C. Blackmore, Cleveland, Ohio. Snubber attachment for vehicle springs. 1,628,386; May 10.
- Blackmore, William, Sharon, Pa., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Shock-absorbing mechanism. 1,643,051; Sept. 20.
- Blackmore, William C., et al. (See Blackmore, William, assignor.)
- Blackshire, Lewis D., Charleston, W. Va., and J. L. Drake, Toledo, Ohio, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-bending apparatus. 1,614,098; Jan. 11.
- Blackston, Edward A., assignor to L. R. Gilbert, Raleigh, N. C. Filling replenishing mechanism for looms of more than one shuttle. 1,623,861; Apr. 5.
- Blackston, Edward A., assignor to Lovie R. Gilbert, Raleigh, N. C. Weft-replenishing mechanism for looms of more than one shuttle. 1,627,310; May 3.
- Blackwell, John B., San Antonio, Tex. Cactus burner. 1,625,702; Apr. 19.
- Blackwell, Otto B., Flandome, and J. Herman, New York, N. Y., assignors to American Telephone and Telegraph Company. Method and apparatus for television. 1,624,918; Apr. 19.
- Blackwell, Waldo R. (See Van Derbeck, S. G., and Bortolin, assignors.)
- Blackwell, Wenonah, Seattle, Wash. Toy doll. 1,613,157; Jan. 4.
- Blackwell, William T. (See Robinson, G. P., and Blackwell.)
- Blackwood, Charles A., Kalamazoo, Mich. Canopy for chairs and the like. 1,639,074; Aug. 16.
- Blackwood, William C., Elmhurst, assignor, by mesne assignments, to T. E. Murray, Jr., Brooklyn, N. Y. Distribution unit for electric circuits. 1,640,814; Aug. 30.
- Bladh, Johan A., assignor to Aktiebolaget Knapptfabriken, Askersund, Sweden. Machine for the manufacturing of buttons. 1,632,642; June 14.
- Blakie, Kenneth G. (See Matheson, H. W. and Blakie.)
- Blaine, James G., Compton, and C. B. Patton, Los Angeles, Calif. Stretcher. 1,624,090; Apr. 12.
- Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing press. 1,630,252; May 31.
- Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-control mechanism. 1,636,404; July 19.
- Blair, Augusta, Cincinnati, Ohio. Lid support. 1,614,644; Jan. 18.
- Blair, Bert R. (See Van de Water, J. W., and Blair.)
- Blair, Frank N., Boise, Idaho. Folding table. 1,620,061; Mar. 8.
- Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Shoe. Des. 73,597; Oct. 11.
- Blair, George W., assignor to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind. Shoe. 1,648,932; Nov. 15.
- Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Shoe-sole construction. 1,650,817; Nov. 29.
- Blair, Harry R., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Cop holder or support. 1,652,601; Dec. 13.
- Blair, Henry, London, England. Vest or the like undergarment. 1,647,952; Nov. 1.
- Blair, James C., et al., administrators. (See Owens, Michael J.)
- Blair, James C., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Forming sheet glass. 1,626,382; Apr. 26.
- Blair, James C., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for forming sheet glass. 1,641,948; Sept. 6.
- Blair, John H. (See Hollingsworth, William F., assignor.)
- Blair, Marvin, and C. O. Grove, Electra, Tex. Swivel sockets. 1,617,664; Feb. 15.
- Blair, Robert F., and G. Hind, Detroit, Mich. Driver's compartment for vehicles. 1,631,357; June 7.
- Blair, Robert S., et al. (See Dieterich, Ludwig M., assignor.)
- Blair, Robert S. (See Nickell, T. P., and Rodelf, assignors.)
- Blair, Robert S. (See Wells, Burling D., assignor.)
- Blair, Robert S., Sound Beach, Conn. Humidor. 1,627,883; May 10.
- Blair, Robert S., Sound Beach, Conn. Heat-conducting apparatus. 1,632,784; June 21.
- Blair, Robert S., Sound Beach, Conn. Pocket article and the like. 1,632,785; June 21.

- Blair, Robert S., Sound Beach, and B. D. Wells, Danbury, Conn.; said Wells assignor to said Blair. Apparatus for truing car wheels. 1,627,074; May 3.
- Blair, Robert S., Sound Beach, and B. D. Wells, Danbury, Conn.; said Wells assignor to said Blair. Warning device. 1,650,419; Nov. 22.
- Blair, Robert S., Stamford, and B. D. Wells, Danbury, Conn.; said Wells assignor to said Blair. Shipping container for sound-reproducing records. 1,628,105; May 10.
- Blair, Thomas P., San Diego, Calif. Floor heater. 1,619,593; Mar. 1.
- Blais, Cyrien E., Pawtucket, R. I. Direction indicator. 1,650,595; Nov. 29.
- Blaisdell Filtration Company, The. (See Blaisdell, Hiram W., assignor.)
- Blaisdell, Hiram W., Los Angeles, Calif., assignor to The Blaisdell Filtration Company. Filtration. 1,614,947; Jan. 18.
- Blaisdell, Hiram W., New York, N. Y., assignor to The Blaisdell Filtration Company. Filtration system. 1,630,371; May 31.
- Blaisdell Pencil Company. (See Weis, George G., assignor.)
- Blaisdell, Sidney B., assignor to Rhode Island Braiding Machine Company, Providence, R. I. Braiding-machine carrier. 1,614,099; Jan. 11.
- Blake, C. C., Incorporated. (See Blake, Charles C., assignor.)
- Blake, C. C., Incorporated. (See Fernald, Mark E., assignor.)
- Blake, Charles C., Brookline, Mass. Metallic fastening in seam. 1,628,599; May 10.
- Blake, Charles C., Brookline, assignor to C. C. Blake, Incorporated, Boston, Mass. Seam. 1,619,497; Mar. 1.
- Blake, Charles C., Brookline, assignor to C. C. Blake, Incorporated, Boston, Mass. Making shoes. 1,632,944; June 21.
- Blake, Eli J. (See Bouché, W. F., and Blake.)
- Blake, Eli J., Buffalo, assignor, by mesne assignments, to Gould Car Lighting Corporation, New York, N. Y. Electrical regulating apparatus. 1,630,823; May 31.
- Blake, Eli J., Buffalo, assignor, by mesne assignments, to Gould Car Lighting Corporation, New York, N. Y. Turbine generator set. 1,645,411; Oct. 11.
- Blake, Ernest W., London, England. Surgical bandage. 1,644,508; Oct. 4.
- Blake, Fred M., Fulton, N. Y. Safety appliance for motor vehicles. 1,654,450; Dec. 27.
- Blake, Frederick J., Winchester, England. Preventing the fouling of ships' and like propeller shafts, and propellers. 1,649,657; Nov. 15.
- Blake, Harold D., and W. J. Geiger, Cleveland, Ohio, assignors to General Electric Company. Apparatus for making incandescent lamps and similar articles. 1,651,865; Dec. 6.
- Blake, Harold S., Attleboro, Mass. Gas control for oil burners. 1,629,251; May 17.
- Blake, Harold S., Attleboro, Mass. Flame deflector for oil burners. 1,654,403; Dec. 27.
- Blake, Irva J., and H. H. Hart, Sacramento, Calif. Bottle. 1,635,811; July 12.
- Blake, Robert A., Brooklyn, N. Y. Electromagnet. 1,622,080; Mar. 22.
- Blake, Robert S., Chicago, Ill., assignor to Pierce Fuse Corporation, Buffalo, N. Y. Fuse. 1,649,561; Nov. 15.
- Blake, Walter, Hartford, Conn. Antifriction bearing. 1,617,700; Feb. 15.
- Blakely, W. (See Sternbergh, Harry S., assignor.)
- Blakely, Wilbur A. (See Swickard, Frank, assignor.)
- Blakely, William W. (See Goodspeed, Charles A., assignor.)
- Blakely, William W. (See Lanning, William H., assignor.)
- Blakely, William W., Detroit, Mich. Securing device for vehicles. 1,617,368; Feb. 15.
- Blakely, William W., Detroit, Mich. Holddown device for vehicles. 1,643,802; Sept. 27.
- Blakely, William W., Dexter, Mich. Wheel block. 1,617,369; Feb. 15.
- Blakely, William W., Dexter, Mich. Double-decking device. 1,630,520; May 31.
- Blakely, William W., Detroit, and C. A. Goodspeed, Highland Park, Mich.; said Goodspeed assignor to said Blakely. Brake-rod head. 1,630,519; May 31.
- Blakeney, Edward, Kitchawan, N. Y., assignor to Radio Corporation of America. Siphon recorder. 1,630,324; May 31.
- Blakeslee, G. S., & Co. (See Antiss, George P., assignor.)
- Blakeslee, George R., executor. (See Blakeslee, George S.)
- Blakeslee, George S., deceased, Oak Park, Ill.; G. R. Blakeslee, executor. Dishwashing machine. 1,619,236; Mar. 1.
- Blakeslee, Henry B., Rochester, Minn. Humidifier. 1,649,055; Nov. 15.
- Blakeslee, Jerome, assignor to American Steel Foundries, Chicago, Ill. Reversible brake-beam fulcrum. 1,647,601; Nov. 1.
- Blakeslee, Raymond I. (See Brown, Jasper C., assignor.)
- Blakeslee, Raymond I. (See Lyndon, L., and Blakeslee.)
- Blakesley, George R., Janesville, Wis. Electric heating system. 1,626,221; Apr. 26.
- Blakesley Novelty Company, The. (See Crouch, Walter L., assignor.)
- Blakey, Louis P., Philadelphia, Pa. Protector or automobile wash apron. 1,646,524; Oct. 25.
- Blanc, Adolph I., assignor to P. P. Stone and A. I. Blanc, doing business as S. & B. Specialties Manufacturing Company, Detroit, Mich. Radioantenna. 1,654,108; Dec. 27.
- Blanc, Adolph I., et al. (See Blanc, Adolph I., assignor.)
- Blanch, Sven M., assignor to Fleming Machine Company, Worcester, Mass. Wire brush. 1,648,533; Nov. 8.
- Blanch, Sven M., and G. W. Fleming, assignors to Fleming Machine Company, Worcester, Mass. Metal-cutting tool. 1,645,758; Oct. 15.
- Blanch, Sven M., and F. J. Quist, Worcester, Mass. Carpet cleaner. 1,641,063; Aug. 30.
- Blanchard, Charles M., Mattoon, Ill. Oil engine. 1,617,567; Feb. 15.
- Blanchard, Ernest H., Schenectady, and D. Mott, Glenville, N. Y. Convertible vacuum sweeper and floor polisher. 1,644,169; Oct. 4.
- Blanchard, Frederick C. (See Lea, Charles, assignor.)
- Blanchard, Frederick C., Detroit, Mich. Lubricating device. 1,623,775; Apr. 5.
- Blanchard, Harold L., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Intermittent feeder in transferer. 1,627,826; May 10.
- Blanchard, Harold L., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Transfer mechanism for wet-replenishing looms. 1,651,113; Nov. 29.
- Blanchard, Harold L., Millbury, and W. H. Wakefield, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Wet-detector-withdrawing means for looms. 1,652,602; Dec. 13.
- Blanchard, Joseph L., Montreal, Quebec, Canada. Speedometer and road indicator. 1,618,049; Feb. 15.
- Blanchard Machine Company, The. (See Spencer, Henry K., assignor.)
- Blanchard, Robert L., New York, N. Y. Air indicating and regulating apparatus for furnaces. 1,640,921; Aug. 30.
- Blanchard, Walter J., Cleveland, Ohio. Centrifugal-separator basket. 1,643,441; Sept. 27.
- Blanchard, Walter P., Winthrop, Mass., assignor to General Electric Company. Telemetric apparatus. 1,628,450; May 10.
- Blanchard, William, Houston, Tex. Submerged bridge. 1,620,716; Mar. 15.
- Blanco, Florino E., San Jose, Costa Rica. Reamer. 1,639,602; May 31.
- Bland, John, Chicago, Ill. Screen. 1,622,805; Mar. 29.
- Bland, Leonard N., North Sydney, assignor to Bland Magnetic Valves Limited, Sydney, New South Wales, Australia. Electromechanical valve-operating means for internal-combustion engines. 1,632,531; June 14.
- Bland Magnetic Valves Limited. (See Bland, Leonard N., assignor.)
- Blanford, Thomas, et al. (See Potts, Harold E., assignor.)
- Blanding, Joseph E., New London, assignor of one-half to Patrick B. McNamara, Groton, Conn. Internal-combustion engine. 1,631,615; June 7.
- Blaney, William F., Newark, N. J., assignor to The Turner Tanning Machinery Company, Peabody, Mass. Leather-working machine. 1,621,577; Mar. 22.
- Blank, George W., Philadelphia, Pa. Button. 1,649,765; Nov. 15.
- Blank, Herman C., Chicago, Ill. Building construction. 1,650,485; Nov. 22.
- Blank, Merton H., Indianapolis, Ind. Internal-combustion engine. 1,617,986; Feb. 15.
- Blank, Merton H., Indianapolis, Ind. Internal-combustion engine. 1,625,189; Apr. 19.
- Blankenhorn, George W., San Francisco, Calif.; P. E. Witherby, Guardian, Machine for correcting irregularities in flanges of cans preliminary to sealing the cans. 1,620,796; Mar. 15.
- Blankenship, Stanley L. (See McLarty, E., sr., and Blankenship.)
- Blankinship, William G., et al. (See Ginger, Frank M., assignor.)
- Blasdel, Leo C., Los Angeles, Calif. Brake mechanism. 1,652,221; Dec. 13.
- Blaskewitz, William. (See Groehn, O. J., and Blaskewitz.)
- Blaski, Aloysius R., Chicago, Ill. Operating mechanism for the closure means of ventilating or skylight constructions. 1,647,262; Nov. 1.
- Blaski, Aloysius R., Chicago, Ill. Actuating mechanism for skylight sections and the like. 1,653,336; Dec. 20.
- Blass, John P., New Orleans, La. Safety pin for brake levers and rods. 1,651,318; Nov. 29.
- Blass, Ludwig, Saaz, Czechoslovakia. Preventing the formation of crystals and the deposition of incrustations on metal surfaces. 1,613,430; Jan. 4.
- Blatt, Francis H., (See Wilford, G. W., and Blatt.)
- Blatherwick, Harold, Chicago, Ill. Oil can. 1,623,904; Apr. 5.
- Blatt, Mack, assignor to E. P. Rowman, Detroit, Mich. Vacuum-cleaner nozzle. Des. 73,479; Sept. 20.
- Blatter, Titus & Company. (See Biva, Lucien, assignor.)

- Blattner, David G., Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for the visual interpretation of speech and music. 1,654,068; Dec. 27.
- Blatz, Clarence P. (See Barger, W. R., Hawkins, and Blatz.)
- Blatz, Peter A., Wilmington, Del. Coloring leather. 1,625,842; Apr. 26.
- Blau, Fritz, Berlin, Germany. Painting and production of the same. 1,640,230; Aug. 23.
- Blauhorn, Emanuel, Vienna, Austria. Exhaust-steam injector for locomotives and the like. 1,640,688; Aug. 30.
- Blaustein, Joseph, Brooklyn, N. Y. Cup. 1,622,858; Mar. 29.
- Blauvelt, Fred K., assignor to C. E. Reed, Wichita, Kans. Retaining means for spindles of deep-well rotary cutters. 1,636,869; July 19.
- Blauvelt, William G., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,634,754; July 5.
- Blaw, Jacob B., deceased, Atlantic City, N. J.; S. H. Blaw, executrix. Interior wall. 1,640,065; Aug. 23.
- Blaw, Jacob B., deceased, Atlantic City, N. J.; S. H. Blaw, executrix. Flag holder. 1,633,083; Dec. 20.
- Blaw-Knox Company. (See Brynoidt, Christian, assignor.)
- Blaw-Knox Company. (See Davidson, Harry O., assignor.)
- Blaw-Knox Company. (See Gstalder, Paul A., assignor.)
- Blaw-Knox Company. (See Venable, William M., assignor.)
- Blaw, Sadie H., executrix. (See Blaw, Jacob B.)
- Blaylock, Gifford E., Baltimore, Md. Blow-out patch. 1,644,104; Oct. 4.
- Blazek, Adolph J., Baltimore, Md. Locking device for printing forms. 1,637,069; July 26.
- Blazer, Philip L., Chicago, Ill. Powder box or similar article. Des. 73,686; Oct. 25.
- Bleam, Albert, Clarksville, Mich. Seed-cleaning machine. 1,624,084; Apr. 12.
- Blechlauer, Jakob Johann Distler. (See Keppner, Ernst, assignor.)
- Blecker, Herbert E., New York, N. Y. Fish-catching apparatus. 1,619,560; Mar. 1.
- Blecker, William M., assignor to E. A. Langenbach, Canton, Ohio. Sheet-shearing apparatus. 1,646,989; Oct. 25.
- Bleckley, Frederick W., Orange, N. J. Kitchen tool holder. 1,614,342; Jan. 11.
- Blecksmith, Arthur F. (See Sperti, George, assignor.)
- Bledsoe, Carl P., Chicago, Ill., assignor to Ogle Construction Company. Safety means for hoists and the like. 1,641,957; Sept. 13.
- Blecker, George W., et al., trustees. (See Pendleton, Pym L., assignor.)
- Blecker, Warren E., Boulder, Colo. Producing impervious material. 1,620,940; Mar. 15.
- Blecker, Warren E., Boulder, Colo. Glass composition. 1,629,648; May 24.
- Bleicher, John M. (See Hamilton, Louis W., assignor.)
- Bleik Syndicate. (See Ekman, Andrew, assignor.)
- Bleier, William D., assignor to Doughnut Machine Corporation, New York, N. Y. Device for forming all preparatory products. 1,621,454; Mar. 15.
- Bleloch, William E., Johannesburg, Transvaal, South Africa. Safety razor. 1,613,435; Jan. 4.
- Blendermann, Louis H. (See Blendow, A. W., and Blendermann.)
- Blendow, Alfred W., Maplewood, and L. H. Blendermann, South Orange, assignors to National Gum Company, Inc., Newark, N. J. Pastry cutter. 1,615,198; Jan. 18.
- Bleo, John B., Chicago, Ill. Lock. 1,642,325; Sept. 13.
- Bleo, John B., Chicago, Ill. Lock. 1,642,326; Sept. 13.
- Blessing, John G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Impulse-transmitting device. 1,641,616; Sept. 6.
- Blessing, John G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Impulse-transmitting device. 1,641,617; Sept. 6.
- Bloch, Minot C., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Discharge device for tanks. 1,619,054; Mar. 1.
- Blest, Minot C., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Poke-hole cover. 1,619,055; Mar. 1.
- Bletcher, Ralph E., and E. H. Bucknell, Los Angeles, Calif. Silencer or flow regulator for valves, faucets, and the like. 1,625,589; Apr. 19.
- Blein, Frederick L., Jersey City, N. J., and A. D. Ferguson, Brooklyn, N. Y. Cardboard-box knife. 1,623,158; Apr. 5.
- Blevins, James L., Borderland, W. Va. Electric-cable coupling. 1,622,940; Mar. 29.
- Bley, Benjamin B., Waco, Tex. Tally. 1,637,211; July 26.
- Blick, Ernest L., assignor to The Automatic Scale Company Limited, Atrincham, England. Stay connection for weighing apparatus and the like. 1,631,358; June 7.
- Blickman, S., Inc. (See Leppert, Dorrance W., assignor.)
- Blidsoe, Hugo, New York, N. Y. Tool holder. 1,633,239; June 21.
- Blidsoe, Hugo, New York, N. Y. Pipe and cigar holder for the purpose of eliminating the nicotine. 1,633,240; June 21.
- Blieberger, Charles, assignor of forty-five per cent to A. A. Thomas, New York, N. Y. Sound amplifier. 1,643,284; Sept. 20.
- Blikstad, Martin, Eidsvold, and T. Martin, Heggeli, near Oslo, Norway. Recording taximeter. 1,616,213; Feb. 1.
- Blincow, Joseph E., Wolverhampton, England. Cooking apparatus. 1,622,081; Mar. 22.
- Bliss, Anna M. H., Long Beach, Calif. Apron. 1,632,873; June 21.
- Bliss, Carl E., and F. A. Wegener, assignor to Welsbach Company, Gloucester, N. J. Gas mantle and making the same. 1,639,682; Aug. 23.
- Bliss, Charles A., Bradford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,648,040; Nov. 8.
- Bliss, Clyde H., Portland, Ore. Tamper. 1,644,320; Oct. 4.
- Bliss Containers, Inc. (See Bliss, Herbert R., assignor.)
- Bliss, Donald M., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Electromagnetic switch. 1,640,650; May 31.
- Bliss, E. W., Company. (See Beyer, Otto S., assignor.)
- Bliss, E. W., Company. (See Gabriel, Charles R., assignor.)
- Bliss, E. W., Company. (See Strout, Robert W., assignor.)
- Bliss, Ebenezer M., Riverside, Calif. Flush valve. 1,613,785; Jan. 11.
- Bliss, Elmer J., Boston, assignor to Regal Shoe Company, Whitman, Mass. Awning. 1,622,245; Mar. 22.
- Bliss, Herbert R., assignor to Bliss Containers, Inc., Niagara Falls, N. Y. Assembling fiber shipping cases. 1,627,311; May 3.
- Bliss, Herbert R., assignor to Bliss Containers, Inc., Niagara Falls, N. Y. Shipping case. 1,649,146; Nov. 15.
- Bliss, Isabelle, Ocean Beach, Calif. Appliance for removing facial defects. 1,641,471; Sept. 6.
- Bissitt, William R., Columbus, Ga. Mattress and bed protector. 1,621,149; Mar. 15.
- Blitz, Adolf, and A. S. Kux, Chicago, Ill. Swinging table. 1,634,929; July 5.
- Blitz, Adolf, and A. S. Kux, Chicago, Ill. Swinging table. 1,643,717; Nov. 8.
- Blizant, Charles E., West Haven, assignor to Winchester Repeating Arms Co., New Haven, Conn. Sight for firearms. 1,618,749; Feb. 22.
- Bliziotis, George E., Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company. Wave compensation on telephone lines. 1,617,370; Feb. 15.
- Bloch, Aaron, Brooklyn, N. Y. Ornamental attachment for lighting fixtures or the like. 1,623,030; Mar. 29.
- Bloch, Leon, assignor to Republic Brass Company, Cleveland, Ohio. Shut-off valve within body of fixture. 1,620,186; Mar. 8.
- Bloch, Leon, assignor to The Republic Brass Company, Cleveland, Ohio. Bathroom fixture. 1,647,983; Nov. 8.
- Bloch, Leon, assignor to The Republic Brass Company, Cleveland, Ohio. Bathroom fixture. 1,647,984; Nov. 8.
- Bloch, Abraham, San Francisco, Calif., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Credit-slip-authorizing apparatus. 1,644,229; Oct. 4.
- Bloch, David J., assignor to W. Stein, Chicago, Ill. Flour improver and process of manufacture. 1,626,910; May 8.
- Block, Gregory K., New York, N. Y. Typewriting machine. 1,620,004; Mar. 8.
- Block, Joseph. (See Dam, Henry M. R., assignor.)
- Block, Maurice, assignor to Block Porteller Company, Chicago, Ill. Lighting fixture. Des. 73,555; Oct. 4.
- Block, Maurice, assignor to Block Porteller Company, Chicago, Ill. Lighting fixture. Des. 73,535; Oct. 18.
- Block, Maurice, assignor to Block Porteller Company, Chicago, Ill. Floor lamp. Des. 73,638; Oct. 18.
- Block, Maurice, assignor to Block Porteller Company, Chicago, Ill. Floor lamp. Des. 73,637; Oct. 18.
- Block Porteller Co. (See Block, Maurice, assignor.)
- Block Porteller Company. (See Block, Maurice, assignor.)
- Block, William, Chicago, Ill. Spindle for lighting fixture. Des. 72,079; Mar. 1.
- Block, William, Chicago, Ill. Lamp bracket. Des. 72,080; Mar. 1.
- Block, William, Chicago, Ill. Lamp base. Des. 72,081; Mar. 1.
- Block, William, Chicago, Ill. Lamp base. Des. 72,082; Mar. 1.
- Block, Henry A. and M. L. Mullin, Shreveport, La. Product for use in uniting rubber sheets and in repairing rubber articles. 1,652,926; Dec. 13.
- Blocki, Herbert J., Sheboygan, Wis. Packing pad. 1,627,827; May 10.
- Blodgett, George W., Portland, Ore. Clamp for feathering arrows. 1,638,376; Nov. 8.
- Blohm, George A. (See Corlew, C. M., and Blohm.)
- Blom, Hjalmar T., Chicago, Ill. assignor to Sullivan Machinery Company. Compressor valve. 1,634,247; June 28.

- Blom, Hjalmar T., Chicago, Ill., assignor to Sullivan Machinery Company. Unloading mechanism. 1,644,007; Oct. 4.
- Blomberg, Otto, Chicago, Ill. Valve-spring lifter. 1,641,618; Sept. 6.
- Blomfeldt, Allen A., Newport, Ky. Unit heater for air spaces. 1,638,083; Aug. 9.
- Blomfield, Alfred L., Kingman, Ariz. Ore-treating system. 1,621,474; Mar. 15.
- Blomfield, Alfred L., Colorado Springs, and E. R. Ramsey, Denver, Colo., assignors to The Dorr Company, New York, N. Y. Treatment of pulps. 1,619,807; Mar. 8.
- Blomgren, Henry E., assignor to Rubber Shackles Company, Inc., Brooklyn, N. Y. Antirattler spring shackle. 1,640,636; Aug. 15.
- Blomquist, August E. R., Cleveland Heights, Ohio. Vibrating machine. 1,613,377; Jan. 4.
- Blomquist, Hjalmer F., and G. C. Miller, Cedar Rapids, Iowa. Combined pressure-reducing and gas-flow-regulating valve. 1,651,507; Dec. 6.
- Blomquist, Johan V., and K. F. Wessblad, Stockholm, Sweden. Steam generator having rotary tubular elements. 1,649,382; Nov. 15.
- Blomstrom, Charles, Minneapolis, Minn. Mechanic's soap. 1,618,323; Feb. 22.
- Blondin, Joseph A., Los Angeles, Calif. Propeller. 1,642,803; Sept. 20.
- Blond, George H. (See Lewis, George W., assignor.)
- Blood, Harold L. (See Greenleaf, G. E., Blood, and Rausch.)
- Blood, Howard E., assignor to Detroit Gear and Machine Company, Detroit, Mich. Transmission. 1,636,800; July 26.
- Blood, Laurence E., assignor to S. A. Woods Machine Company, Boston, Mass. Woodworking machine. 1,638,652; Aug. 9.
- Bloom, Edgar J., Tiffin, Ohio, assignor, by mesne assignments, to Auto Research Corporation. Terminal construction for central lubricating installations. 1,632,724; June 14.
- Bloom, Edgar J., Tiffin, Ohio, assignor, by mesne assignments, to Auto Research Corporation. Chassis lubrication. 1,632,767; June 14.
- Bloom, Joseph, Los Angeles, Calif. Badge. Des. 73,687; Oct. 25.
- Bloomenthal, Irvin, Harrisburg, Pa. Pyjama trousers. 1,642,483; Sept. 13.
- Bloomer, Matthew, East Brisbane, Queensland, Australia. Apparatus for manufacturing roller and semiroller chains. 1,644,561; Oct. 4.
- Bloomfield, Grover. (See Woodruff, J. C., and Bloomfield.)
- Bloomfield-Holmes Corporation. (See Holmes, Frank E., assignor.)
- Bloomfield, Morris, assignor to Tonell-Rohitschek Co., Inc., New York, N. Y. Cap. 1,650,258; Nov. 22.
- Bloomington, Hiram C., assignor to Card Display, Inc., New York, N. Y. Sign. 1,653,033; Dec. 20.
- Blose, Clyde E., Springfield, Ohio. Auxiliary bleed-valve actuator for air-brake equipment. 1,638,081; Aug. 9.
- Bloser, Edward G., Jr., Philadelphia, Pa. Rubber heel. 1,637,675; Aug. 2.
- Bloss, Eugene, et al. (See Pecker, Joseph S., assignor.)
- Bloss, Nelson W., East Orange, N. J., assignor to American Car and Foundry Company, New York, N. Y. Car roof. 1,617,041; Feb. 8.
- Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Bearing. 1,628,571; May 10.
- Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Pitman structure. 1,616,948; Oct. 25.
- Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Band-wheel counterbalance. 1,651,944; Dec. 6.
- Bloss, Richard R., H. T. Strout, and H. R. Ansel, assignors to The International Derrick & Equipment Company, Columbus, Ohio. Metal sheeting. 1,635,147; July 5.
- Bloss, William G., Los Angeles, Calif. Wave motor. 1,617,568; Feb. 15.
- Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Lubricating bearing surfaces. 1,632,874; June 21.
- Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier. 1,647,263; Nov. 1.
- Blount, Harry, Oak Park, and J. W. Hernlund, Glen Ellyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing apparatus. 1,621,309; Mar. 15.
- Blouin, Arthur, Montreal, Quebec, Canada. Roof-fashing holder. 1,653,337; Dec. 20.
- Bludworth, William D., Sacramento, Calif. Single horse and cart toy. Des. 72,140; Mar. 8.
- Bludworth, William D., Sacramento, Calif. Goat and darkie toy. Des. 72,470; Apr. 19.
- Blue Diamond Materials Co. (See Tuttle, Albert E., assignor.)
- Blue Island Specialty Co. (See Montag, Christopher F., assignor.)
- Blue, Louis V., Pittsburgh, assignor of one-fourth to W. A. Falson, Chester, Pa. Automatic closer for windows and the like. 1,632,532; June 14.
- Blue Point Tool Company. (See Seidemann, William A., assignor.)
- Blue Pile Wire & Knife Company. (See Pfeiffer, Immanuel, assignor.)
- Blue Valley Creamery Company. (See Cook, Joseph, assignor.)
- Blum, Leo, New York, N. Y. Woven fabric or similar article. Des. 73,022; July 12.
- Blum, Leo, New York, N. Y. Woven fabric or similar article. Des. 73,638; Oct. 18.
- Blum, Leo, New York, N. Y. Woven fabric or similar article. Des. 73,639; Oct. 18.
- Blum, Eugen, Valley Stream, assignor, by mesne assignments, to American Schaeffer & Budenberg Corporation, Brooklyn, N. Y. Tachometer. 1,639,978; Aug. 23.
- Blum, George, Akron, Iowa. Valve lifter. 1,613,015; Jan. 4.
- Blum, Harold P., Cleveland, Ohio. Rail anchor. 1,613,869; Jan. 11.
- Blum, Harold P., assignor to The Cleveland Railway Supply Company, Cleveland, Ohio. Troughless skeleton range-way car. 1,630,325; May 31.
- Blum, Henri, Mulhouse, assignor to Société Alsaciens de Produits Chimiques, Paris, France. Manufacture of borneol esters. 1,640,639; Aug. 30.
- Blum, Hyman, Pittsburgh, Pa. Cellar-door hinge. 1,635,107; July 5.
- Blum, Isaac. (See Ingram, Walter M., assignor.)
- Blum, Sidney J., assignor to Regenstien-Veeder Co., Chicago, Ill. Waxing machine and the like. 1,618,799; Feb. 22.
- Blumann Rare Earths Chemical Company. (See Blumenfeld, Joseph, assignor.)
- Blumberg, Hamilton G. (See Price, W. H., and Blumberg.)
- Blume, Edward E., and C. Anderson, Claremont, Minn. Cultivator shield. 1,630,415; May 31.
- Blume, Henry, and G. B. Streitz, Jordan, Minn. Valve and cage puller. 1,627,477; May 3.
- Blume, Louis F., Pittsfield, Mass., assignor to General Electric Company. Indicating instrument. 1,618,800; Feb. 22.
- Blumenberg, Henry, Jr., Moapa, Nev. Mining insoluble boron compounds. 1,636,455; July 19.
- Blumenberg, Henry, Jr., Moapa, Nev. Mining insoluble boron compounds. 1,636,456; July 19.
- Blumenberg, Henry, Jr., Moapa, Nev. Producing aluminum chloride. 1,649,383; Nov. 15.
- Blumenberg, Henry, Jr., Moapa, Nev. Treating cracked hydrocarbon distillation products. 1,649,384; Nov. 15.
- Blumenberg, Henry, Jr., Moapa, Nev. Mining soluble boron compounds and the like. 1,649,385; Nov. 15.
- Blumenberg, Henry, Jr., Moapa, Nev. Filtering material and making the same. 1,649,386; Nov. 15.
- Blumenberg, Henry, Jr., assignor to Stockholders Syndicate, Los Angeles, Calif. Making metal phosphates. 1,617,098; Feb. 8.
- Blumenberg, Henry, Jr., assignor to Stockholders Syndicate, Los Angeles, Calif. Sulphur burner. 1,634,092; June 28.
- Blumenberg, Henry, Jr., assignor to Stockholders Syndicate, Los Angeles, Calif. Treating phosphate rock. 1,638,677; Aug. 9.
- Blumenberg, Henry, Jr., Moapa, Nev., assignor to Stockholders Syndicate, Los Angeles, Calif. Making sodium sulphites and boric acid. 1,642,535; Sept. 13.
- Blumenberg, Henry, Jr., Moapa, Nev., assignor to Stockholders Syndicate, Los Angeles, Calif. Acid metal phosphate and making same. 1,654,404; Dec. 27.
- Blumenfeld, Joseph, London, England. Filtration of solutions and the like. 1,633,621; June 28.
- Blumenfeld, Joseph, London, England, assignor to Blumann Rare Earths Chemical Company. Preparation of pigments and paints. 1,639,423; Aug. 16.
- Blumenfeld, R. (See Post, L. B., Lyon, and Blumenfeld.)
- Blumental, Benjamin, Youngstown, Ohio. Drawer construction for chairs or similar articles of furniture. 1,641,249; Sept. 6.
- Blumenthal, Maurice, Brooklyn, N. Y. Sinking concrete piles. 1,629,944; May 24.
- Blumenthal, Rudolph L., Flushing, and W. Duschne, New York, N. Y. Smoker's set. 1,633,389; Aug. 9.
- Blumenthal, Sidney, & Co. Inc. (See Gowans, James, assignor.)
- Blumenthal, Sidney E., New Orleans, La. Textile fabric. Des. 74,046; Dec. 13.
- Blumer, Heinrich, Zurich, Switzerland. Drive of three-axled motor vehicles. 1,635,657; July 12.
- Blumie, Frank W., assignor to Automatic Display Company, Seattle, Wash. Advertising display device. 1,622,410; Mar. 29.
- Blumstedt, Ralph W., Lowell, Mass., and R. S. Robertson, Covington, Tenn., assignors of one-third to H. J. Monty, Lowell, Mass. Vibrator for card doffers. 1,645,794; Oct. 18.
- Blunck, Robert A., Grand Mound, Iowa. Funnel screen. 1,650,317; Nov. 22.
- Blunse, Fritz, Hesperinghausen, near Niedermarsberg, Germany. Grain separator. 1,642,331; Sept. 13.
- Blunt, James G., Schenectady, N. Y. Cylinder cock. 1,628,024; May 10.
- Blunt, James G., Schenectady, N. Y. Truck for locomotive engines. 1,652,657; Dec. 13.

- Blunt, Toran, Chicago, Ill. Hot-water bag. 1,625,018; Apr. 19.
- Blust, Christian, St. Albans, V. Va. Automatic safety cut-off for gas valves. 1,627,312; May 3.
- Blust, Christian, St. Albans, V. Va. Steam valve or gauge cock. 1,654,451; Dec. 27.
- Bluthardt, Gustav A., Dorchester, Mass. Merry-go-round. 1,635,108; July 5.
- Bly, Edwin P., assignor to Standard Oil Company of California, San Francisco, Calif. Pipe-brushing machine. 1,647,499; Nov. 1.
- Blyberg, Godfrey. (See Bjorkholm, J. E., and Blyberg.)
- Byldenburgh, Harold L. (See Jandus, H. S., and Blyldenburgh.)
- Blyth, Charles E., Dunchurch, assignor to Alfred Herbert Ltd., Coventry, England. Machine for the production of powdered fuel. 1,649,147; Nov. 15.
- Blyth, Charles E., Stockton, near Rugby, assignor to Alfred Herbert Limited, Butts, Coventry, England. Coal-pulverizing machine. 1,649,148; Nov. 15.
- Blyth, John, Chicago, Ill., assignor to Eastman Kodak Company, Rochester, N. Y. Easel folder for photographs. 1,651,748; Dec. 6.
- Blyth, John F., Newark, and C. Ellis, Montclair, N. J. Arsenical product and making same. 1,649,562; Nov. 15.
- Boal, Harry J. (See Jonasson, C. V., and Boal.)
- Boals, Polk, deceased; R. L. Hall, administrator, assignor of one-half to A. G. Cameron, New York, N. Y. Vending machine. 1,649,655; Nov. 15.
- Boano, Peter, San Francisco, Calif. Chafing shield. 1,641,568; Sept. 6.
- Board of Trustees of the University of Illinois. (See Brown, Hugh A., assignor.)
- Boardman, Charles H., Columbus, Ohio. Top support for Boardman, Charles H., Buffalo, N. Y. Reinforcing bar for concrete. 1,635,658; July 12.
- Boardman, Charles S., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Joist hanger. 1,639,484; Aug. 16.
- Boardman, Charles S., Pittsburgh, and J. W. Free, Woodlawn borough, assignors to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Joist hanger. 1,639,483; Aug. 16.
- Boardman, Frank E., assignor of one-half to P. P. Williams, Memphis, Tenn. Apparatus for controlling elevators. 1,625,073; Apr. 19.
- Boardman, John. (See Bell, G., and Boardman.)
- Bobbin & Shuttle Company. (See Buntington, Edwin C., assignor.)
- Bobbit, Conrad E., assignor of one-half to L. S. Adams and J. D. Senter, Humboldt, Tenn. Battery case. 1,624,131; Apr. 12.
- Boberg, Teofron. (See Söderlund, O., Boberg, and Tesstrup.)
- Bobo, Edward H., Ranger, Tex. Rheostat. 1,625,703; Apr. 19.
- Bobo, Edward H., Ranger, Tex. Connector. 1,648,605; Nov. 8.
- Bobst, Henri, assignor to J. Bobst & Fils, Societe Anonyme, Lausanne, Switzerland. Apparatus for working paper, carton, and like materials. 1,619,848; Mar. 8.
- Bobst, J., & Fils, Societe Anonyme. (See Bobst, Henri, assignor.)
- Boby, Robert, Limited. (See Allingham, Sidney, assignor.)
- Bocchino, Ernest, Newark, N. J. Safety device for fire escapes. 1,641,798; Sept. 6.
- Bocchino, Ernest, Newark, N. J. Musical toy telephone. 1,651,508; Dec. 6.
- Bocchino, Ernest, assignor of one-third to S. Tollo, Newark, N. J. Clown and animal toy. Des. 72,083; Mar. 1.
- Bochonok, Stefan, Pittsburgh, Pa. Cuff link. 1,651,437; Dec. 6.
- Bock, Charles S., Chicago, Ill., assignor of four one-hundredths to W. J. O'Brien, thirty-two one-hundredths to J. W. Seward, and thirty-two one-hundredths to F. Colombo. Hinge. 1,647,074; Oct. 25.
- Bock, Edward S., Croydton, Pa. Apparatus for making laminated glass. 1,645,580; Oct. 18.
- Bock, Richard W., River Forest, Ill. Illuminated ornamental device. 1,623,086; Apr. 5.
- Bock, William E., Eagle Point Colony, assignor to The Erie Glass Company, Toledo, Ohio. Method and apparatus for manufacturing glassware. 1,645,684; Oct. 18.
- Bockhoff, William F. (See Galloway, R. M., Bockhoff, and Meloy.)
- Bockholt, Hermann, Cologne-Deutz, Germany. Plunger pump. 1,616,883; Feb. 8.
- Bockius, Walter A., Park Ridge, Ill. Electrical condenser. 1,633,566; Jan. 28.
- Bodde, Theodore, Niagara Falls, N. Y. Method of and apparatus for electrically producing sound. 1,640,140; Aug. 23.
- Bodde, Theodore, Niagara Falls, N. Y. Method of and apparatus for electrically producing sound. 1,640,141; Aug. 23.
- Bodde, Theodore, Shanghai, China, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,650,596; Nov. 29.
- Boddeker, Albert, Chicago, Ill. Oil burner. 1,627,267; May 3.
- Bodden, Blucher B., Philadelphia, Pa. Stand for supporting shoes. 1,618,264; Feb. 22.
- Boddie, Clarence A., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,624,387; Apr. 12.
- Boddiger, John P., Polo, Ill. Checkrow planter attachment. 1,637,212; July 26.
- Boden, Clarence S., Los Angeles, Calif. Circulating plunger pump. 1,614,865; Jan. 18.
- Boden, George, assignor to Scovill Manufacturing Company, Waterbury, Conn. Double-pointed pin fastener. 1,649,760; Nov. 15.
- Boden, Oliver, Birmingham, assignor to Vickers Limited, Westminster, England. Time fuse for projectiles. 1,642,837; Sept. 20.
- Bodensiek, Jennie M., New York, N. Y. Hose-supporter clasp. 1,640,689; Aug. 30.
- Bodensiek, Jennie M., New York, N. Y. Abdominal support. 1,652,160; Dec. 13.
- Bodenstein, Fred and J. G. Jr., Staatsburg, N. Y. Road-resurfacing machine. 1,651,247; Nov. 29.
- Bodenstein, John G., Jr. (See Bodenstein, Fred and J. G. Jr.)
- Bodholdt, Aksel K., et al. (See Speer, Alexander S., assignor.)
- Bodholdt, Aksel K., et al., trustees. (See Speer, Alexander S., assignor.)
- Bodin, George, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,652,990; Aug. 23.
- Bodin, Joel O., et al. (See Ankario, Victor E., assignor.)
- Bodine, Alfred V., assignor to Dictaphone Corporation, Bridgeport, Conn. Sound modifier. 1,645,087; Oct. 11.
- Bodine Electric Company. (See Stechbart, Bruno, assignor.)
- Bodie Electric Company. (See Williams, Ralph T., assignor.)
- Bodie, Virgil H., and W. E. Jaquith, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for assembling sheet material. 1,649,802; Nov. 22.
- Bodmer, Christian, and H. J. Cook, assignors to The Swiss Works, New Britain, Conn. Hand drill. 1,642,986; Sept. 20.
- Bodwell, Paul D., and H. W. Bellows, assignors to Deca-Disc Phonograph Company, Waynesboro, Pa. Record holder for talking machines. 1,653,541; Dec. 20.
- Boe, Charles J., Pittsburgh, Pa. Ash receiver. 1,635,395; July 12.
- Boehms, M., Minneapolis, Minn. Oil-dispensing bottle. Des. 73,824; Nov. 15.
- Boe, Hans M., Minneapolis, Minn. Pump construction. 1,637,727; Aug. 2.
- Boe, Hans M., Minneapolis, Minn. Bottle. 1,654,507; Dec. 27.
- Boe, Helmer J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Serving mechanism. 1,614,594; Jan. 18.
- Boe, Helmer J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reel-supporting apparatus. 1,614,595; Jan. 18.
- Boeck, Harry, Berlin, Germany. Sun blind. 1,649,943; Nov. 22.
- Boeck, John C., Toronto, Ontario, Canada. Golf-ball cleaner. 1,614,914; Jan. 18.
- Boedecker, Friedrich, Berlin-Dahlem, Germany. Sedative and hypnotic ureides. 1,633,392; June 21.
- Boedecker, Friedrich, Berlin-Dahlem, assignor to the Firm I. D. Riedel A. G., Berlin-Britz, Germany. Barbituric acid and making same. 1,622,129; Mar. 22.
- Boedeker, Henry J., Waverly, Iowa. Animal trap. 1,648,160; Nov. 8.
- Boedighimer, Leo F. (See Fontaine, Philiza H., assignor.)
- Boedker, Harry, Plymouth, N. C., assignor of twenty-seven and one-half one-hundredths to W. H. Lowe, Kilmarnock, and twenty-seven and one-half one-hundredths to R. W. Lowe, Chestern, Va. Thread tier. 1,621,868; Aug. 22.
- Boedtker, Franz A., Bergenfield, N. J. Operating mechanism for shaft doors. 1,620,480; Mar. 8.
- Boedtker, Franz A., Bergenfield, N. J. Illuminated signal for elevator installations. 1,626,383; Apr. 26.
- Boedtker, Franz A., Bergenfield, N. J. Electric switch. 1,636,895; July 26.
- Boege, Otto C., and H. A. A. Belz, New York, N. Y. Loud speaker. 1,641,569; Sept. 6.
- Boegehold, Alfred L. (See Williams, H. M., and Boegehold.)
- Boegehold, Alfred L., assignor to General Motors Research Corporation, Dayton, Ohio. Internal-combustion-engine cylinder and making same. 1,640,876; Aug. 30.
- Boegen Gauge Company. (See Boegen, John E., assignor.)
- Boegen, John E., assignor to Boegen Gauge Company, Inc., Los Angeles, Calif. Liquid-measuring attachment for tanks. 1,634,608; July 5.
- Boehlke, Paul E., assignor of one-half to H. E. Olsson, Dubuque, Iowa. Arch support. 1,648,633; Nov. 8.
- Boehm, August. (See Funk, C. C., and Boehm.)
- Boehm, Frank J., et al. (See Weiss, Max M., assignor.)
- Boehm, Max E. (See Sherbondy, F. G., and Boehm.)
- Boehm Surgical Instrument Corporation. (See Schulz, Raymond L., assignor.)
- Bohm, Wenzel H., Swissvale, and H. S. Corey, Pittsburgh, Pa. Liquid-fuel burner. 1,652,193; Dec. 13.

- Boehmer, Norris, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Chlorinated rubber varnish. 1,635,812; July 12.
- Boehner, Jacob P., Aurora, Ill. Stamping machine. 1,630,824; May 31.
- Boehringer, C. F., & Soehne G. m. b. H. (See Rothmann, A., and Stehl, assignors.)
- Boehringer, C. H., & Sohn, Chemische Fabrik. (See Häussler, Alfred, assignor.)
- Boehringer, C. H., Sohn, Chemische Fabrik. (See Schneider, H. and Rahn, assignors.)
- Boehringer, C. H., Sohn Chemische Fabrik. (See Wieland, Heinrich, assignor.)
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Arm for a chandelier. Des. 72,754; May 31.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Spreader for a lighting fixture. Des. 72,755; May 31.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Chandelier. Des. 72,756; May 31.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Bridge-lamp arm or similar article. Des. 72,757; May 31.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Pendant for lighting fixtures. Des. 72,758; May 31.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Canopy for electric-lighting fixtures. Des. 72,788; June 7.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Ceiling plate for lighting fixtures. Des. 72,813; June 14.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Loop for lighting fixtures. Des. 72,814; June 14.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Loop for lighting fixtures. Des. 72,815; June 14.
- Boehringer, John A., Springfield, N. Y., assignor to Star Chandler Co., Inc., New York, N. Y. Chandelier. Des. 72,927; June 28.
- Boehringer, John A., Springfield, N. Y., assignor to Star Chandler Co., Inc., New York, N. Y. Electric-socket cover. Des. 72,928; June 28.
- Boehringer, John A., Springfield, N. Y., assignor to Star Chandler Co., Inc., New York, N. Y. Arm for a chandelier body. Des. 72,929; June 28.
- Boehringer, John A., Springfield, N. Y., assignor to Star Chandler Co., Inc., New York, N. Y. Electric wall-bracket plate. Des. 72,930; June 28.
- Boehringer, John A., Springfield, N. Y., assignor to Star Chandler Co., Inc., New York, N. Y. Electric candle cup. Des. 72,931; June 28.
- Boehringer, John A., Springfield, N. Y., assignor to Star Chandler Co., Inc., New York, N. Y. Electric wall-bracket plate. Des. 72,932; June 28.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Finial for lighting fixtures. Des. 72,976; July 5.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Finial for lighting fixtures. Des. 72,977; July 5.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Canopy for electric-lighting fixtures or similar articles. Des. 72,978; July 5.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Body frame for lighting fixtures or similar articles. Des. 72,979; July 5.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Strap for lighting fixtures or similar articles. Des. 72,980; July 5.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Bridge lamp arm or a similar article. Des. 73,121; July 26.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Shield for lighting fixtures or similar articles. Des. 73,158; Aug. 2.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Shield for lighting fixtures or similar articles. Des. 73,159; Aug. 2.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Shield for lighting fixtures or similar articles. Des. 73,160; Aug. 2.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Strap for lighting fixtures or similar articles. Des. 73,480; Sept. 20.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Chandelier. Des. 73,481; Sept. 20.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Lamp base or similar article. Des. 73,897; Dec. 6.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Lamp base or similar article. Des. 73,938; Dec. 6.
- Boehringer, John A., Springfield, assignor to Star Chandler Co., Inc., New York, N. Y. Bridge lamp arm or similar article. Des. 73,939; Dec. 6.
- Boekennoogen, Isaac E., and B. R. Ames, Atkin, Minn. Towing device. 1,657,575; Mar. 22.
- Boelcke, Eugen R. C., Charlottenburg, Germany. Manufacturing electric insulators. 1,636,582; July 19.
- Boelkov, Frederic E., Wauwatosa, and F. W. O. Listing, North Milwaukee, assignors to Durable Floor Corporation, Milwaukee, Wis. Elastic composition floor. 1,635,982; July 19.
- Boelter, Hugo. (See Koegle, John G., assignor.)
- Boerger, Otto, Wittenberg, Wis. Heading device. 1,643,066; July 18.
- Boerman, Jacob, Grand Rapids, Mich. Inspection light. 1,615,067; Jan. 18.
- Boerner, Anton, Thompson, Nebr. Snare trap. 1,643,602; Sept. 27.
- Boerner, Otto, Hamburg, Germany. Automatic train-brake mechanism. 1,653,615; Dec. 27.
- Boerth, Henry J., et al. (See Halpin, Michael K., assignor.)
- Boesch, Gustav S., Danbury, Conn. Hat-sizing machine. 1,645,581; Oct. 18.
- Boesch, Jacob J., assignor to The Meyer Furnace Company, Peoria, Ill. Furnace. 1,645,223; Oct. 11.
- Boese, Albert T. and P. H., Hutchinson, Kans. Gauge. 1,619,695; Mar. 1.
- Boese, Peter H. (See Boese, Albert T. and P. H.)
- Boesger, George A., assignor to The W. W. Sly Manufacturing Company, Cleveland, Ohio. Dust arrester. 1,621,824; Mar. 1.
- Boesch, Ernst, Gesellschaft mit beschränkter Haftung. (See Lieberknecht, Paul, assignor.)
- Boessow, Walter, Berlin-Lankwitz, Germany. Hockey game. 1,641,525; Sept. 6.
- Boettcher, Jacob H. L., assignor to Devices Corporation of New Jersey, Orange, N. J. Machine for stacking biscuits and the like. 1,649,563; Nov. 15.
- Boettcher, Jacob H. L., assignor to Devices Corporation of New Jersey, Orange, N. J. Mixing machine. 1,649,564; Nov. 15.
- Boettger, William F., Redlands, Calif. Labeling machine. 1,652,697; Dec. 13.
- Boettger, William F., Redlands, Calif. Stacking device. 1,652,698; Dec. 13.
- Boettler, Ervin L., Sapulpa, Okla. Fishing tool. 1,651,803; Dec. 6.
- Bogan, Edgar P., Detroit, Mich. Control device for heating apparatus. 1,637,369; Aug. 2.
- Bogan, Edgar P., Detroit, Mich. Electrical lighter for gas stoves. 1,644,230; Oct. 4.
- Bogan, Hans, Springfield, Ill. Egg preserver. 1,627,141; May 3.
- Bogan, Hugh L., Jr. (See Mason, H., Bixby, and Bogan.)
- Bogan, Orley E., Centralia, Ill. License-plate fastener. 1,640,106; Aug. 23.
- Bogardus, Arthur G., Chicago, Ill., assignor to The Griscom-Russell Company, New York, N. Y. Device for protecting condensers. 1,643,803; Sept. 27.
- Bogardus, Charles C., Los Angeles, Calif. Upper-cylinder oiler. 1,634,134; June 28.
- Bogart, Frank S. V. (See Spengler, George H., assignor.)
- Bogdonoff, Glenn, New York, N. Y., assignor of one-half to R. K. M. Mfg. Co., Newark, and one-half to Alberts Mfg. Co., Inc., Hackensack, N. J. Tap, reversing and feeding attachment for sewing machines. 1,638,823; Aug. 16.
- Boge, Adolf, Solingen, Germany. Latch lock. 1,626,384; Apr. 26.
- Bøgdal, Charles J. (See Jensen, Jens J., assignor.)
- Boggio, Gustavo, Royalton, Ill. Figure toy. 1,638,910; Aug. 16.
- Boggs, Charles R., Waban, assignor to Simplex Wire and Cable Company, Boston, Mass. Flexible cable. 1,654,508; Dec. 27.
- Bogin, Charles. (See Brown, B. K., and Bogin.)
- Bozin, Charles, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Nitrocellulose lacquer composition. 1,651,575; Dec. 6.
- Bogler, Charles. (See Hamilton, Elmer W., assignor.)
- Bogle, John C., Oak Park, assignor to Cook Electric Company, Chicago, Ill. Hinged construction. 1,647,602; Nov. 1.
- Bognar, Bela, New York, N. Y. Permanent-hair-waving device. 1,644,321; Oct. 4.
- Bogosowsky, Boris. (See Shmyroff, A., Bogosowsky, and Dslik.)
- Bogosowsky, Boris, assignor to Lion Match Co., Inc., New York, N. Y. Machine for making match cards. 1,616,175; Feb. 1.
- Bogue, Robert J., Goodnight, Tex. Fluid-pressure valve. 1,647,429; Nov. 1.
- Bohacek, Bruno, assignor to Maschinenfabrik Moenus Aktiengesellschaft, Frankfurt-on-the-Main, Germany, Pegging machine. 1,633,307; June 21.
- Bohan, Patrick J. (See Browning, G., and Bohan.)
- Bohenek, Stephen. (See Alfano, M. A., and Bohenek.)
- Bohl, Hugo, Westfield, N. J., assignor to Radiant Lighting Fixture Co., New York, N. Y. Lighting-fixture bracket. Des. 73,770; Jan. 9.
- Bohl, Hugo, Westfield, N. J., assignor to Radiant Lighting Fixture Co., New York, N. Y. Lighting-fixture bracket. Des. 72,057; Feb. 22.
- Bohl, Hugo, Westfield, N. J., assignor to Radiant Lighting Fixture Co., New York, N. Y. Lighting-fixture bracket. Des. 72,054; Mar. 1.
- Bohli, Jakob. (See Bilton, F., and Bohli.)
- Bohlig, Martin F., et al. (See Smith, Swan, assignor.)

- Böhling, Rudolf H., Hamburg-Stelnwarder, assignor to Rohrbogenwerk Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Machine for producing tubular bends and coils and for expanding tubes. 1,648,161; Nov. 8.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Rheostat. 1,618,801; Feb. 22.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Lighting and ignition switch. 1,618,802; Feb. 22.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Terminal. 1,639,161; Aug. 16.
- Böhmisch Mährische Malzfabrik and Export Gesellschaft Klatscher and Lorenz. (See Ladewig, Emil, assignor.)
- Bohmack, Harry C., assignor of one-half to H. W. Passer, Fort Atkinson, Wis. Oil filter. 1,624,526; Apr. 12.
- Bohn Aluminum and Brass Corporation. (See Eggenweiler, C. W., and Fiegel, assignors.)
- Bohn Aluminum & Brass Corporation. (See Fiegel, William J., assignor.)
- Bohn Aluminum and Brass Company. (See Fiegel, W., and Enders, assignors.)
- Bohn, Gubhard C. St. Paul, Minn. Refrigerator. 1,644,910; Oct. 11.
- Bohn, Harry E., and R. H. Faugler, Chicago, Ill., assignors to Western Electric Company, Incorporated. New York, N. Y. Molding phenol plastic or like compounds. 1,625,449; Apr. 19.
- Bohn & Herlich Maschinenfabrik und Eisengieserei. (See Flinkaus, Oskar, assignor.)
- Bohn, William J., assignor to Alvey Manufacturing Company, St. Louis, Mo. Loading device. 1,619,015; Mar. 1.
- Bolarsky, Jennie, Charleston, W. Va. Pastry cutter. 1,649,803; Nov. 22.
- Boice, Harry. (See Haon, H. J., and Boice.)
- Boies, Harry B., Harvey, Ill. Combination tire pump and gauge. 1,645,788; Oct. 18.
- Bois, James H. C. San Francisco, Calif. Blade holder. 1,645,685; Oct. 18.
- Bolleau, Joseph. (See Johnson, A. J., Bolleau, and Findell.)
- Bolliot, Henry F., Marshall, Mo. Advertising sign. 1,641,914; Sept. 6.
- Bolissnault, Frank L., Berkeley, Calif., assignor to Westinghouse Electric & Manufacturing Company. Elevator. 1,649,014; Nov. 15.
- Bokan, Frank, St. Louis, Mo. Knockdown bench and table structure. 1,618,803; Feb. 22.
- Boker, H., & Co. Inc. (See Redman, Charles H., assignor.)
- Boker, Vitus A., Minneapolis, Minn. Heating element and making the same. 1,642,223; Sept. 13.
- Boker, Vitus A., assignor to R. E. Holland, Minneapolis, Minn. Low-metal alarm. 1,650,005; Nov. 22.
- Boland, Edward J., assignor of one-third to M. L. Conley, Freeport, Ill. Rail anticreeping and tie-plate device. 1,635,738; July 12.
- Boland, John L., Wilmore, Pa. Hydraulic ram. 1,641,878; Sept. 6.
- Boland, William P. (See Dougherty, John J., assignor.)
- Bonder, Louis P., San Francisco, Calif. Counterbalanced dapple. 1,613,979; Jan. 11.
- Bold, Frederick W., Chelsea, assignor to C. H. Pearson, Brookline, Mass. Aerial-bomb fuse. 1,639,075; Aug. 16.
- Bolen, Emerson A. (See Weaver, H. H., and Bolen.)
- Bolens, Harry W., et al. (See Strite, George T., assignor.)
- Bolens, Harry W., et al. (See Travers, Charles J., assignor.)
- Bolens, Harry W., Port Washington, Wis. Power lawn mower. 1,651,579; Dec. 6.
- Bolens, Harry W. (See Murakami, Rin N., assignor.)
- Bolgiano, John, New York, N. Y., assignor to World-Wide Patent Enterprises, Inc. Aircraft. 1,652,554; Dec. 13.
- Bolick, Jerome, Conover, N. C. Wheel. 1,630,651; May 31.
- Bolin, Charles D., St. Louis, Mo. Incubator thermometer. 1,618,050; Feb. 15.
- Bolin, Sven G., Kansas City, Mo. Furniture brace. 1,630,521; May 31.
- Bolinders, J. & C. G., Mek. Verkstadts Aktiebolag. (See Rudqvist, Carl A., assignor.)
- Bolinger, George N., Shelbyville, Ill. Golf tee. 1,630,288; May 31.
- Boller, Albert, Wetzikon, Switzerland. Yarn. 1,621,348; Mar. 15.
- Boller, Philipp, Chicago, Ill. Anchor support for boats. 1,618,634; Feb. 22.
- Bolles, Robert E., West Islip, N. Y. Glove. 1,654,279; Dec. 27.
- Bolles, William B., Milwaukee, Wis. Antipanic actuator and door fastener. 1,646,990; Oct. 25.
- Bolzheimer, Rhinehard, and E. T. Wilkens, Fort Laramie, Ohio. Tractor attachment. 1,634,446; July 5.
- Bolling, John E., assignor to Drying Systems, Inc., Chicago, Ill. Air-filter drive. 1,638,141; Aug. 9.
- Bolling, John E., assignor to Drying Systems, Inc., Chicago, Ill. Atmospherically-controlled switch. 1,642,718; Sept. 20.
- Bolling, John E., assignor to Drying Systems, Inc., Chicago, Ill. Liquid-feeding apparatus. 1,651,945; Dec. 6.
- Bollinger, Charles, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Furnace. 1,625,450; Apr. 19.
- Bollinger, Harry U., Portola, assignor of two-thirds to S. T. Artzell, Sacramento, Calif. Food-forming machine. 1,647,683; Nov. 1.
- Bollman, George O., Nokomis, and O. J. Zimmermann, Ohlman, Ill. Vehicle light. 1,642,917; Sept. 20.
- Bollman, John E., Rockford, Ill. Advertising sign. 1,634,568; July 5.
- Bollman, Herrman, Hamburg, Germany, assignor, by mesne assignments, to M. F. Foster, trustee, Washington, D. C. Preparatory treatment of cottonseed and product thereof. 1,653,201; Dec. 20.
- Bolognini, Giovanni. (See Parenti, A., and Bolognini.)
- Bolonski, Felix, Pinckneyville, Ill. Ribber-machine attachment. 1,628,572; May 10.
- Bolzky, Samuel, West New York, N. J., and S. Pearl, Brooklyn, N. Y. Fan installation. 1,636,033; July 19.
- Bolt, William M., White Sulphur Springs, W. Va. Spring. 1,642,638; Sept. 13.
- Bolton, Archer L., North Andover, Mass. Spiral bar. 1,633,308; June 21.
- Bolton, Archer L., North Andover, assignor to John W. Bolton and Sons, Inc., Lawrence, Mass. Removable lining shell for Ford engines. 1,642,327; Sept. 13.
- Bolton, Archer L., North Andover, assignor to John W. Bolton and Sons, Inc., Lawrence, Mass. Self-supporting lining for Jordan engine shells. 1,643,363; Sept. 27.
- Bolton, Earl, and F. D. Bolton, Tulsa, Okla. Stone-cleaning machine. 1,627,142; May 3.
- Bolton, Edith M., Gerrards Cross, England. Case for stamps in roll form. 1,617,791; Feb. 15.
- Bolton, Edith M., Gerrards Cross, England. Frying pan and saucapan and such like vessel. 1,628,641; May 17.
- Bolton, Floyd D. (See Bolton, Earl and F. D.)
- Bolton, Harold L., Brookline, assignor to Beacon Oil Company, Boston, Mass. Guide for excavating devices. 1,632,555; Dec. 18.
- Bolton, James A., Sayville, N. Y. Doll. 1,630,240; May 24.
- Bolton, John W., and Sons. (See Bolton, Archer L., assignor.)
- Bolton, John W., and Sons, Inc. (See Bolton, Archer L., assignor.)
- Bolton, Ray C., Birmingham, Ala. Dimmer switch. 1,612,852; Jan. 4.
- Bolton, Sidney B. (See Bridgeford, A. G., and Bolton.)
- Boltshauser, Heinrich, Zurich, Switzerland. Stuffing box for shafts. 1,613,924; Jan. 11.
- Boltz, Fred S. (See Perry, E. J., and Boltz.)
- Boltz, Fred S., Mansfield, Mass. Clothes container. 1,618,695; Feb. 22.
- Bolz, Julius A., Everett, Mass. Trunk. 1,619,561; Mar. 1.
- Bolzonetti, Decio, Pittsburgh, Pa. Combined letter box and milk-bottle holder. 1,632,020; June 14.
- Bommer, Emil, Brooklyn, N. Y. Pivot spring hinge. 1,624,919; Apr. 19.
- Bommer, Emil, Brooklyn, N. Y. Pivot hinge. 1,653,448; Dec. 20.
- Bona, Stephen, Bridgeport, Conn. Rope clamp. 1,623,615; Apr. 5.
- Bonaccorse, Giuseppe, Lawrence, Mass. Antiskid device. 1,629,432; May 17.
- Bonanno, Joseph, Grantwood, N. J. Broom bridle. 1,651,915; Dec. 6.
- Bonaparte, Swan G., St. Paul, Minn. Bake oven. 1,641,313; Sept. 6.
- Bonat, Harry. (See Bonat, Samuel and H.)
- Bonat, Samuel and H., New York, N. Y. Permanent waving of hair. 1,640,345; Aug. 30.
- Bonaventure, Barney S., New York, N. Y. Arch support. 1,620,000; Mar. 25.
- Bonaventure, Barney S., New York, N. Y. Cover for ballet slippers. 1,621,455; Mar. 15.
- Bonawitz, Henry, Brooklyn, N. Y. Resilient tire. 1,630,776; May 31.
- Bonazzi, Ettore, Montpelier, Vt. Stone-dressing tool. 1,628,352; May 10.
- Bonchini, Frank, Cairnbrook, Pa. Mouse or rat trap. 1,618,636; Feb. 22.
- Bonchina, Frank, Cairnbrook, Pa. Planting machine. 1,627,143; May 8.
- Bond, Paul, Pocatello, Idaho. Carburetor device. 1,644,322; Oct. 4.
- Bonclia Laboratories, Inc. (See Price, John M., as assignor.)
- Bond, Benjamin M., Greenwood, W. Va. Animal trap. 1,617,987; Feb. 15.
- Bond, David G., Quitsna, N. C. Traffic signal. 1,619,562; Mar. 1.
- Bond, Edward. (See Cover, H. T., and Bond.)
- Bond, Edward, and F. W. H. Bond, Vancouver, Wash. Vacuum pump and power plant. 1,626,070; Apr. 26.
- Bond, Fred, et al. (See Bond, Fred, assignor.)
- Bond, Fred, assignor to F. Bond and J. Bond, Montreal Quebec, Canada. Nonskid chain for automobiles. 1,636,846; July 26.
- Bond, Frederick W. H. (See Bond, Edward, and F. W. H.)

- Bond, John S., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Crusher and constructing the same. 1,641,726; Sept. 6.
- Bond, Joseph, et al. (See Bond, Fred, assignor.)
- Bond, Milton E. (See Munsell, A. E. O., and Bond.)
- Bond, Oscar, Sapulpa, Okla. Torpedo hook. 1,638,678; Aug. 9.
- Bond, William G., Wilmington, Del. Extruder. 1,650,687; Nov. 29.
- Bondersky, Paul M., assignor of one-half to J. Herda, Chicago, Ill. Automobile bumper and brake device. 1,654,405; Dec. 27.
- Bondeson, John A., and A. F. Hunt, San Francisco, Calif. Combined punch and file. 1,623,824; Apr. 5.
- Bonds, Frances L., Iva, S. C. Bedpan. 1,661,324; Nov. 29.
- Bondzulis, Charles A., Waterbury, Conn. Automatic stop for double-pile-fabric looms. 1,635,396; July 12.
- Bone, William A., St. Albans, England. Production of activated nitrogen and of oxides of nitrogen therefrom. 1,639,584; Aug. 16.
- Bonell, Lawrence, Chicago, Ill. Dice box. 1,629,142; May 17.
- Boner, Halbert E., Los Angeles, Calif. Contacting means. 1,637,468; Aug. 2.
- Bonestel, Willard E., Troy, N. Y. Milk-bottle-crate attachment. 1,641,526; Sept. 6.
- Bonetto, Domenico, St. Louis, Mo. Fluid motor. 1,646,723; Oct. 25.
- Bongers, Arnold H., London, England, assignor to E. Pausser, Philadelphia, Pa., and R. Zabel, Detroit, Mich. Appliance for permanent hair waving. Re16,558; Feb. 22.
- Bonhajo, David, Newport, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Holding means for detachable straps. 1,653,535; Dec. 20.
- Bonhôte, Gérard. (See de Montmollin, G., and Bonhôte.)
- Bonhôte, Carlo, Milan, Italy. Cut-film magazine. 1,613,378; Jan. 4.
- Boniforti, Carlo, Milan, Italy. Cut-film pack. 1,613,379; Jan. 4.
- Bonilla, Benjamin M., New Orleans, La. Life-saving means for sunken ships. 1,625,704; Apr. 19.
- Bonine, Charles E., Melrose Park, Cheltenham Township, Pa. Variable-resistance device. 1,614,774; Jan. 18.
- Bonn, Carl R. H., Hillhead, Glasgow, Scotland. Flow meter. 1,637,927; Aug. 2.
- Bonnar, Henry O., New York, assignor, by mesne assignments, to Gilman Panfold Company, Limited, Niagara Falls, N. Y. Printed form. 1,639,683; Aug. 23.
- Bonnard, Alfred H. (See Bonnard, Leonard H., assignor.)
- Bonnard, Leonard H., assignor of one-half to A. H. Bonnard, London, England. Manufacture of vegetable carbon. 1,619,649; Mar. 1.
- Bonnemaison, Paul, Paris, France. Ship's hull. 1,637,677; Aug. 2.
- Bonner-Charter Corporation. (See Bonner, Clarence E., assignor.)
- Bonner-Charter Motor Company. (See Bonner, Clarence E., assignor.)
- Bonner, Clarence E., New York, N. Y., assignor to Bonner-Charter Corporation. Engine lubrication. 1,634,768; July 5.
- Bonner, Clarence E., New York, N. Y., assignor, by mesne assignments, to Bonner-Charter Motor Corporation, Dover, Del. Lubricating device. 1,648,440; Nov. 8.
- Bönnér, Johann J., Post Sudern, assignor to J. Schüttler, Sundern, Westphalia, Germany. Knapsacklike carrying frame and campstool. 1,615,159; Jan. 18.
- Bonner, Leicester A., Vancouver, British Columbia, Canada. Hydraulic elevator. 1,654,406; Dec. 27.
- Bonner, William T., and J. W. Thropp, Trenton, N. J. Paving block and tiles. 1,629,433; May 17.
- Bonette, Howard E. (See Born, S., Bonnette, and Walker.)
- Bonnetti, Harry M. (See Sarr, Elmer E., assignor.)
- Bonney-Floyd Company, The. (See Edmunds, Glenn E., assignor.)
- Bonney, Lynn F., assignor to Oil Well Core Drilling Company, Los Angeles, Calif. Core drill. 1,636,896; July 26.
- Bonnie Blaze Company. (See Relyea, Jesse F., assignor.)
- Bonnot Company, The. (See Hartman, William H., assignor.)
- Bono, Andrew, Brooklyn, N. Y. Shoe heel. 1,619,458; Mar. 1.
- Bonomi, Felix A. (See Beaumont, W. M., and Bonomi.)
- Bonomini, Domenico, Alameda, Calif. Mucilaginous composition and making the same. 1,614,645; Jan. 18.
- Bonrath, Wilhelm. (See Lieske, R., and Bonrath.)
- Bonrath, Wilhelm. (See Lieske, R., Schulemann, and Bonrath.)
- Bonrath, Wilhelm. (See Lieske, R., Thaus, and Bonrath.)
- Bonsall, Charles D., New Kensington, Pa. Carline reinforcement and load-lifting attachment. 1,638,145; Aug. 9.
- Bonsall, Charles D., New Kensington, Pa. Carline reinforcement and load-lifting arrangement. 1,645,217; Oct. 11.
- Bonsall, Charles D., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,624,207; Apr. 12.
- Bonsall, Charles D., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,627,372; May 3.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,627,373; May 3.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,635,306; July 12.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,635,305; July 12.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,635,306; July 12.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,635,307; July 12.
- Bonsall, Charles D., New Kensington, Pa., assignor to Union Metal Products Company, Chicago, Ill. Device for operating car couplers. 1,636,164; July 19.
- Bonsall, Charles D., assignor to Union Metal Products Company, Chicago, Ill. Device for operating car couplers. 1,636,165; July 19.
- Bonsall, Charles D., New Kensington, Pa., assignor to Union Metal Products Company, Chicago, Ill. End wall for railway cars. 1,636,166; July 19.
- Bonsall, Charles D., assignor to Union Metal Products Company, Chicago, Ill. Paneling for hopper doors for railway cars. 1,638,142; Aug. 9.
- Bonsall, Charles D., assignor to Union Metal Products Company, Chicago, Ill. Panel bracing in hopper doors for railway cars. 1,638,143; Aug. 9.
- Bonsall, Charles D., Parnassus, Pa., assignor to Union Metal Products Company, Chicago, Ill. Car wall structure. 1,638,144; Aug. 9.
- Bonsall, Charles D., Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,645,551; Oct. 18.
- Bonsall, Charles D., Parnassus, Pa., assignor to Union Metal Products Company, Chicago, Ill. Car wall structure. 1,649,505; Nov. 15.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,643,975; Oct. 4.
- Bonsieur, Le, assignor to The General Industries Company, Elyria, Ohio. Retaining device for rods and shafts. 1,622,990; Mar. 29.
- Bonsieur, Le, assignor to The General Phonograph Manufacturing Co., Elyria, Ohio. Commutator and making same. 1,631,461; June 7.
- Bonsvor, Florence, Detroit, Mich. Curtain stretcher. 1,627,765; Mar. 22.
- Bontempi, Augustus. Coytesville, N. J. Sculpturing. 1,618,504; Feb. 22.
- Bontempi, Mario, New York, N. Y. Coffeepot. 1,619,967; Mar. 8.
- Bonus Candy Corporation. (See Lanti, Elmo G., assignor.)
- Bood, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing light-resistant lithophone. 1,617,311; Feb. 8.
- Book Saver Company. (See Sharrard, George M., assignor.)
- Booker, Richard A., Richmond, Ind., assignor to Richmond Piston Rings Co., Richmond, Ind. Making piston rings. 1,621,135; Mar. 22.
- Bookman, Sidney M., New York, N. Y. Repeating device for phonographic records. 1,643,369; Sept. 27.
- Bookout, Charles H., Denver, Colo. Coin-controlled vending apparatus. 1,618,251; Feb. 1.
- Boosch, George W., Grosse Tete, La. Expansion piston. 1,629,985; May 24.
- Boomer, George A., assignor to The Plume & Atwood Mfg. Co., Waterbury, Conn. Electric-lighting fixture. 1,633,309; June 21.
- Boone, Doctor C., and J. T. Burkett, assignors of one-fourth to said Burkett, one-half to R. Q. Taylor, and one-fourth to W. C. Mitchell and J. C. Hurt, Welch, W. Va. Railway switch. 1,638,911; Aug. 16.
- Boone, Edgar H., and J. W. Cook, Santa Rita, N. Mex. Sash latch. 1,627,478; May 3.
- Boone, James P. (See Coghill, Henry H., assignor.)
- Boone, John W. (See Chadwick, C. T., and Boone.)
- Boozs, J., and S. Hartley, London, assignors to British Colonial Inventions Limited, England. Pump or compressor. 1,615,257; Jan. 25.
- Booraem, John F. (See Sutphen, Robert M., assignor.)
- Boorum & Pease Company. (See Von Auw, Alwin, assignor.)
- Boose, Edward W. N., Detroit, Mich. Water-closet bend. 1,624,653; Apr. 12.
- Bootes, John T., Cebu, P. I. Cylinder head for all types of water-cooled internal combustion engines. 1,649,659; Nov. 15.
- Booth, Alva C., assignor of one-fourth to F. M. Coon, Burlington, Vt. Bottle cap. 1,622,220; Mar. 22.
- Booth, Anna W., and G. W. Baltimore, Md. Closure for bottles or jars. 1,645,316; Oct. 11.
- Booth, Beryl C., Akron, Ohio. Punch bowl. 1,621,055; Mar. 15.
- Booth David, Baltimore, Md. Bolt for doors, gates, etc. 1,646,136; Oct. 18.
- Booth, George A., assignor of one-half to E. J. Johnson, Holyoke, Mass. Curtain rod. 1,639,551; Aug. 16.
- Booth, George W. (See Booth, Anna W. and G. W.)
- Booth, George W., New Toronto, Ontario, Canada. Brick-scoring apparatus. 1,636,547; July 19.

- Booth, Herbert L., Beverly Hills, Calif. Wave motor. 1,625,519; Apr. 19.
- Booth, James S., Detroit, Mich. Motor vehicle. Re16,579; Mar. 29.
- Booth, James S., Detroit, Mich. Hood for automobile body fronts. Des. 73,890; Nov. 22.
- Booth, James W., Barnsdale, Okla. Still cleaner. 1,616,777; Feb. 8.
- Booth, James W., Barnsdale, Okla. Liquid-fuel-burner valve. 1,616,778; Feb. 8.
- Booth, Joseph L., Virginia, Minn. Garbage container. 1,613,690; Jan. 11.
- Booth, William G., West Somerville, assignor to Forbes Lithograph Manufacturing Company, Boston, Mass. Box or carton. 1,626,324; Apr. 26.
- Booth, William H., Kincardine, Ontario, Canada. Game. 1,620,866; Mar. 15.
- Booth, William N., Detroit, Mich. Vehicle wheel. 1,625,879; Apr. 26.
- Booth, William N., Detroit, Mich. Nut. 1,632,571; June 21.
- Booth, William N., Detroit, Mich. Machine for assembling spoked wheels. 1,647,603; Nov. 1.
- Booth, William N., Detroit, Mich. Demountable rim. 1,649,944; Nov. 22.
- Booth, William N., Detroit, Mich. Driving device for demountable rims. 1,649,945; Nov. 22.
- Booth, William N., Detroit, Mich. Demountable-rim tool. 1,652,161; Dec. 13.
- Booth, Z. A., et al. (See Hodges, B. D., and Owen, assignors.)
- Boothby, Albion M. (See Bennett, R. A., and Boothby.)
- Boothby Fibre Can Company, (See Bennett, R. A., and Boothby, assignors.)
- Boots, William C., assignor to Guyot Brothers, Attleboro, Mass. Expandable-link bracelet. 1,631,946; June 7.
- Booty, Philip C. P., Chicago, assignor, by mesne assignments, to L. W. Fricke, Oak Park, Ill. Polishing implement. 1,615,436; Jan. 25.
- Booty, Philip C. P., assignor to W. M. Bantley, Chicago, Ill. Regulating device for controlling the operation of valves or the like. 1,623,618; Apr. 5.
- Booty, Philip C. P., assignor of one-half to M. T. Daley, Chicago, Ill. Box for face powder and the like. 1,628,106; May 10.
- Booty, Philip C. P., assignor of one-half to M. T. Daley, Chicago, Ill. Container. 1,642,868; Sept. 20.
- Booze, MacDonald C., assignor to Norton Company, Worcester, Mass. Article of sillimanite-bonded granular material and making the same. 1,616,525; Feb. 8.
- Borack, Louis. (See Nadworney, Charles, assignor.)
- Borbeck, Robert E., and G. C. Truman, Los Angeles, Calif. Oil-level regulator. 1,632,215; June 14.
- Borchard, Robert W., Milwaukee, Wis. Sink attachment. 1,649,212; Nov. 15.
- Borchardt, Arthur. (See Heil, J. P., and Borchardt.)
- Borden, Pasquale, New York, N. Y. Shoe last. 1,626,071; Apr. 26.
- Borden, Bradford, Cleveland, Ohio. Pipe-threading machine. 1,616,649; Feb. 8.
- Borden, Bradford, Cleveland, Ohio. Thread-cutting tool. 1,616,650; Feb. 8.
- Borden, Bradford, Cleveland, Ohio. Pipe-threading machine. 1,622,411; Mar. 29.
- Borden Company, The. (See Bresett, George A., assignor.)
- Borden Company, The. (See McClatchie, John M., assignor.)
- Borden Company, The. (See Nonneman, Ira W., assignor.)
- Borden Company, The. (See Taylor, Burt E., assignor.)
- Borden, Edmund G., Queens, assignor to Doherty Research Company, New York, N. Y. Calorimeter. 1,623,299; Apr. 5.
- Borden, John P., Berkeley, assignor to Oliver Continuous Filter Company, San Francisco, Calif. Treating cane-juice settlings. 1,653,491; Dec. 20.
- Borden, Moro M. (See Ledoux, J. W., and Borden.)
- Borden, Percy, et al. (See Dickie, James, assignor.)
- Borden, Perry A., Toronto, Ontario, Canada. Remote metering system. 1,633,973; June 28.
- Borer, Josef, Breitenbach, near Basel, Switzerland. Apparatus for transferring mica onto a fibrous web. 1,633,622; June 28.
- Borer, Josef, Breitenbach, near Basel, Switzerland. Apparatus for the manufacture of mica plates. 1,644,631; Oct. 4.
- Borer, William J., Genoa, Nebr. Fountain comb. 1,645,038; Oct. 11.
- Borffuss, Maurice, Brooklyn, assignor to Morganstern & Brosseau, Inc., New York, N. Y. Ladies' hand-bags. 1,622,306; Mar. 29.
- Borg & Beck Company, The. (See Gamble, David E., assignor.)
- Borg & Beck Company, The. (See Reed, Harold V., assignor.)
- Borg, Carl W., Aberdeen, Wash. Animal trap. 1,629,649; May 24.
- Borgadt, John B., Cleveland, Ohio. Electromagnetic current control for welding machines. 1,651,438; Dec. 6.
- Borgers, William H., Marion, S. Dak. Corn-planter wire. 1,614,453; Jan. 18.
- Börgeren, John G., Lyngby, Denmark. Bottle closure. 1,630,466; May 31.
- Borglum, Miller, Bakersfield, Calif. Vehicle signal. 1,623,905; Apr. 5.
- Borglum, Torvald M., Portland, Oreg. Milk-can-top lock. 1,618,145; Feb. 15.
- Borgmann, Henry, Washington, D. C. Foot rest. 1,642,238; Sept. 13.
- Borgwardt, Erich. (See Feldt, A., Schoeller, and Borgwardt.)
- Bork, Otto J., Sun Prairie, Wis., assignor to Universal Milking Machine Company, Milking-machine washing device. Re16,839; Dec. 27.
- Borkes, Francis W., Cleveland, Ohio, assignor, by mesne assignments, to Motor Terminals Company, New York, N. Y. Hoist. 1,644,770; Oct. 11.
- Borkhuis, Louis J., Jr., Vayland, S. Dak. Guard finger and ledger plate. 1,650,861; Nov. 29.
- Borland, Deloss, assignor of seven-eighths to A. and M. Isenberg, Charleston, Miss. Churn. 1,636,039; July 19.
- Borletti, Romualdo, Milan, Italy. Pump. 1,634,867; July 1.
- Born, Alfred, Magdeburg, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Extrusions press. 1,654,109; Dec. 27.
- Born, Ernest R., Hensel, N. Dak. Potato cutter. 1,617,194; Feb. 8.
- Born, Ernst R., Hensel, N. Dak. Shocking tongs. 1,642,639; Sept. 13.
- Born, Otto C., and A. B. Dausen, Baltimore, Md. Track clearer; 1,652,603; Dec. 13.
- Born, Sidney, and H. E. Bonnette, Bartlesville, Okla., and J. C. Walker, Eldorado, Kans., assignors to Empire Gasoline Company, Dover, Del. Dehydrating jars. 1,639,325; Aug. 16.
- Bornarth, Charles A., Chicago, Ill. Electric-battery-jar closure. 1,649,213; Nov. 15.
- Borne, Scrymser Company. (See Smith, R. B., and Lovern, assignors.)
- Borneman, Herman A. F., Columbus, Ohio, assignor of one-half to Westco-Chippewa Pump Company, Davenport, Iowa, and one-half to Decatur Pump Company, Decatur, Ill. Centrifugal pump. 1,640,591; Aug. 30.
- Borner, Olga, Zurich, Switzerland. Recording apparatus. 1,615,160; Jan. 18.
- Bornhauser, Otto E., and J. E. Herman, assignors to The Her-Born Engineering and Manufacturing Company, Sandusky, Ohio. Liquid-feeding means for apparatus for preparing a moist cementitious mixture or mass. 1,621,316; Mar. 15.
- Bornhauser, Otto E., and J. E. Herman, Sandusky, Ohio. Apparatus for effecting a continuous preparation and delivery of a cementitious mixture. 1,645,518; Oct. 18.
- Bornheim, Henry, Boston, Mass. Fuel mixer. 1,630,161; May 24.
- Bornkessel, Max, New York, N. Y. Heating-unit adapter. 1,645,525; Oct. 25.
- Borok, Benjamin, Carl, assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Photographic shutter. 1,630,049; May 24.
- Bornmann, Carl, assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Focusing indicator for cameras. 1,637,213; July 26.
- Bornmann, Carl, assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Safety catch for shutters. 1,637,513; Aug. 2.
- Bornmann, Carl A. (See Lessler, L. W., and Bornmann.)
- Bornstein, Joseph, Dorchester, Boston, Mass. Windshield wiper. 1,643,919; Sept. 27.
- Borofsky, Samuel H. (See Krafft, Bert H., assignor.)
- Borough, Willard L. (See McLaine, W. L., and Borough.)
- Borovsky, Samuel, and W. L. Perry, Lowell, assignors to Saco-Lowell Shops, Boston, Mass. Trap motion for textile machines. 1,638,237; Aug. 9.
- Borresen, Helge A., assignor of one-half to E. R. Hills, Chicago, Ill. Watch barrel. 1,643,403; Sept. 27.
- Borresen, Helge A., assignor to The C. H. Hanson Company, Chicago, Ill. Plate mounting. 1,643,652; Sept. 27.
- Borroughs, Joseph N., Oakland, Calif. Laundering towels. 1,635,542; Dec. 20.
- Borrow, Will H., Seattle, Wash. Ship-ventilator closing and opening mechanism. 1,615,437; Jan. 25.
- Borrowmire Company of America, The. (See Ault, Forest P., assignor.)
- Borschel, Alfred F. (See Mulholland, J. B., and Borschel.)
- Borsig, A. G. m. b. H. (See Marscheider, Karl, assignor.)
- Borski, John L., Anderson, Tex. Locomotive driving mechanism. 1,635,813; July 12.
- Borsky, Harry. (See Freedman, H., and Borsky.)
- Borsody, Frank, East Chicago, Ind. Compound lock. 1,644,323; Oct. 4.
- Bortolin, Joseph. (See Van Derbeck, S. G., and Bortolin.)
- Borton, George W., Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Screen bar for crushing machinery. 1,624,586; Apr. 12.
- Borton, George W., New Lisbon, and W. A. Battey, Haverford, Pa., assignors to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. 1,649,565; Nov. 15.
- Borzych, Frank A., Minatare, Nebr. Spiral plate condenser. 1,650,862; Nov. 29.

- Boscarella, Giovanni, Piacenza, Italy. Rolling-mill appliance. 1,618,954; Feb. 22.
- Boscarella, Giovanni, London, England. Rolling thin or middle sheets from sheet bars. 1,622,177; Mar. 22.
- Bosch, Carl, Ludwigshafen-on-the-Rhine, assignor, by mesne assignments, to I. G. Farbenindustrie Aktien-gesellschaft, Frankfurt-on-the-Main, Germany. Manu-facture of fertilizers. 1,639,585; Aug. 16.
- Bosch, Carl F., Pforzheim, Germany. Clock. 1,651,804; Dec. 6.
- Bosch, José, Barcelona, Spain, assignor to Scott and Williams, Inc., New York, N. Y. Stripping attachment for knitting machines. 1,615,807; Jan. 25.
- Bosch, Robert, Aktiengesellschaft. (See Friedrich, Ernst, assignor.)
- Bosch, Robert, Aktiengesellschaft. (See Schäfer, M., Hühnle, and Walther, assignors.)
- Boschelli, Angelo A., Chicago, Ill. Bath mat. 1,618,165; Feb. 22.
- Boskey, Meyer, et al. (See Pfister, John R., assignor.)
- Boste, Jacob P., Mount Oliver, and A. Telfer, Pittsburgh, Pa., assignors to National Tube Company. Gauge. 1,630,690; May 31.
- Bosley, Marion E., and L. J. Kane, Oklahoma City, Okla. Game device. 1,616,884; Feb. 2.
- Bosley, Maurice E., Chicago, Ill. Weather stripping. 1,625,764; Apr. 19.
- Boss, Frank N., Cranston, R. I. Electric candle. 1,623,716; Apr. 5.
- Boss, Orlando J., Los Angeles, Calif. Bomb-dropping device for aircraft. 1,621,654; Mar. 22.
- Bossard, Gisbert L., Loudonville, N. Y. Flasher. 1,621,621; Mar. 22.
- Bossard, Theodore, Salt Lake City, Utah, assignor to National Products Incorporated. Vacuum tank for motor vehicles. 1,639,254; Aug. 16.
- Bossart, Paul N., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,643,331; Sept. 27.
- Bossmann, Richard, Berlin, Germany. Differential-pressure meter. 1,650,060; Nov. 22.
- Bossemeyer, William J., Detroit, Mich. Window-light frame. 1,638,284; Aug. 9.
- Bosserdet, Alfred E., assignor of one-half to E. Hunter, Detroit, Mich. Plumb bob. 1,626,717; May 3.
- Bossert, William F., assignor to Signal Accessories Cor-poration, Utica, N. Y. Pipe carrier. 1,631,000; May 31.
- Bossert, William F., and J. C. Edwards, assignors to Sig-nal Accessories Corporation, Utica, N. Y. Directional track connector. 1,615,186; Jan. 18.
- Bossert, William F., and J. C. Edwards, assignors to Sig-nal Accessories Corporation, Utica, N. Y. Bond-wire connector and bootleg terminal. 1,615,187; Jan. 18.
- Bosshardt, Edwin, Berlin-Tempelhof, Germany. Open-hearth furnace. 1,627,425; May 3.
- Bosshart, Friedrich, Osnabrock, N. Dak. 1,620,062; Mar. 8.
- Bossi, Enea, New York, N. Y. Diaphragm for liquid pumps. 1,615,299; Jan. 25.
- Bossi, Enea, New York, N. Y. Liquid-fuel-supply mecha-nism for motor vehicles. 1,643,539; Sept. 27.
- Bossiere, Claude G., Paris, and H. Zanichelli, Lardy, France. Separating the components of alloys. 1,642,574; Sept. 13.
- Bosslet, Albert, Munich, Germany. Box of bricks for building rooms inclosed by walls. 1,629,199; May 17.
- Bossung, Ernst F., Hamilton, Ohio. Knob. 1,629,773; May 24.
- Bost, Arthur E., Waelder, Tex. Switch. 1,631,001; May 31.
- Bost, William D., assignor to Orange Crush Company, Chicago, Ill. Food-coloring composition and preparing same. 1,616,739; Feb. 8.
- Bostic, Ralph R., Los Angeles, Calif. Snap-on sucker-rod guide. 1,635,843; June 28.
- Boston Auto Gauge Company, The. (See Gregory, George P., assignor.)
- Boston Dye House, Inc. (See Cibul, Abraham B., as-signor.)
- Boston Electric Heating Corporation. (See Heath, Donald B., assignor.)
- Boston Insulated Wire & Cable Company. (See Burley, Harry B., assignor.)
- Boston, John, Newark, N. J., assignor, by mesne assign-ments, to T. Harden Carter. Automatic stop mecha-nism for sewing machines. 1,629,090; May 17.
- Boston Machine Works Company. (See Osgood, Walter P., assignor.)
- Boston Match Company. (See Clark, George F., as-signor.)
- Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
- Boston Woven Hose & Rubber Co. (See Fellows, John W., assignor.)
- Bostwick, Henry C. (See Hudson, C. B., and Bostwick.)
- Bostwick, John S., assignor to J. S. Creamery Company, Fort Worth, Tex. Jug. Des. 72,141; Mar. 8.
- Bosworth, Arthur H., Wichita, Kans. Container for eyebrow pencils and the like. 1,637,545; Aug. 2.
- Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Yarn or thread feeding mechanism for spring-needle machines. 1,626,781; May 3.
- Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Knitted glove and making the same. 1,641,570; Sept. 6.
- Bosworth, Harry J., Company. (See Bosworth, Harry J., assignor.)
- Bosworth, Harry J., assignor to Harry J. Bosworth Com-pany, Chicago, Ill. Light support. 1,644,231; Oct. 4.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Externally-operated safety switch. 1,623,573; Apr. 5.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Snap switch. 1,634,822; July 5.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Insulating switch shell. 1,648,666; Nov. 8.
- Bothe, Andreas, Oreland, Pa., assignor to Kleen Products Company, Inc., North Wales, Pa. Paper baking plate. 1,637,100; July 26.
- Bothe, Clarence W. (See Cleveland, W. H., and Bothe.)
- Bots, Richard H., Syracuse, N. Y. Manufacturing vanil-lin. 1,643,804; Sept. 27.
- Bots, Richard H., Syracuse, N. Y. Manufacturing vanil-lin. 1,643,805; Sept. 27.
- Botard, Robert C., East Haven, Conn. Trench spade. 1,635,308; July 12.
- Botson, René, Auderghem-Brussels, Belgium. Treatment of hides and skins preliminary to tanning. 1,647,953; Nov. 1.
- Bott, George R., assignor to Norma-Hoffmann Bearings Corporation, Stamford, Conn. Mounting for artifi-cial bearings. 1,639,684; Aug. 23.
- Bott, William T., assignor of one-half to D. W. Knighton and one-fourth to F. C. McClanahan, Homer, La. Store furniture. 1,615,438; Jan. 25.
- Botterbusch, William D., Bluffs, Ill. Chicken feeder. 1,631,462; June 7.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold sales book. 1,636,348; July 19.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold sales book. 1,636,801; July 26.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Holder for manifold books. 1,645,177; Oct. 11.
- Bottom, Edgar M., assignor to Fostoria Glass Co., Moundsville, W. Va. Plate. Des. 72,816; June 14.
- Bottom, Edgar M., assignor to Fostoria Glass Co., Moundsville, W. Va. Goblet. Des. 72,817; June 14.
- Rottonley, William T., Newcastle-upon-Tyne, and E. G. Weeks, Northumberland, assignors to The Firm Merz & McEllan, London, England. Large scale power production from solid fuel. 1,615,003; Jan. 18.
- Boucek, Charles F., assignor to Ruda Manufacturing Company, Chicago, Ill. Window structure. 1,630,522; May 31.
- Boucek, Charles F., assignor to Ruda Manufacturing Com-pany, Chicago, Ill. Latch mechanism. 1,634,013; June 28.
- Boucek, James, and J. Halick, assignors of one-third to J. Trefney, Cleveland, Ohio. Furnace. 1,630,162; May 24.
- Boucek, Elmer, and T. R. Shriver, Worthington, Pa. Ad-justable steering knuckle. 1,642,640; Sept. 13.
- Bouchard, Arsene J., Providence, R. I. Banjo. 1,625,387; Apr. 19.
- Bouché, William F., Lancaster, and E. J. Blake, Buffalo, assignors, by mesne assignments, to Gould Car Lighting Corporation, Rochester, N. Y. Exhaust muffler. 1,632,328; June 14.
- Boucher, Adélaïde, Winchendon, Mass. Door hinge. 1,633,432; June 21.
- Boucher, Edward H., Stillwater, N. Y. Fountain spray brush. 1,639,586; Aug. 16.
- Boucher, George F., G. H. Price, and F. Foster, St. Louis, Mo. Illuminated level. 1,617,937; Feb. 15.
- Boucher, Horace E., New York, N. Y. Miniature yacht. 1,616,948; Feb. 8.
- Bouchérot, Paul M., J., Paris, France. High-frequency signaling. 1,624,208; Apr. 12.
- Bouchery, August, Brooklyn, N. Y. Douche means. 1,652,389; Dec. 13.
- Bouda, John, Akely, Minn. Automobile attachment. 1,655,814; July 12.
- Bouda, Bohumil. (See Spaulding, J. D., and Bouda.)
- Boudette, Clayton M., Revere, Mass. Sound-reproducing apparatus. Re16,748; Sept. 27.
- Boudette, Clayton M., Revere, Mass. Radio loud speaker body. Des. 72,695; May 24.
- Boudet, Louis, St. Gobain, assignor to Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Process and apparatus for making sheet glass. 1,628,353; May 10.
- Bouffart, Maurice, Herstal, near Liege, Belgium. Appa-ratus for measuring and distributing liquids. 1,630,289; May 31.
- Boughner, Roy, Ottawa, Ontario, Canada. Box construc-tion. 1,650,318; Nov. 22.
- Boughton, Solon J., assignor to Industrial Research Cor-poration, Toledo, Ohio. Washing and drying machine. 1,629,856; May 24.

- Boulin, Charles, Boston, Mass. Cinematographic picture with stereoscopic qualities. 1,642,918; Sept. 20.
- Boulin, Charles, Boston, Mass. Rival photograph. 1,651,248; Nov. 29.
- Boulogne, Baltus, Paserocean, Java. Automatic weighing apparatus with tare weighing. 1,633,623; June 28.
- Boulogne, Baltus, Pasturan, Java, Dutch East Indies. Automatic weighing apparatus with weighing carrier. 1,654,407; Dec. 27.
- Bound, George, Rochester, N. Y. Attachment for sewing machines. 1,627,228; May 3.
- Bouma, Benjamin T., Lynville, Iowa. Poultry roost. 1,627,268; May 3.
- Bound, Arthur F. (See Hudd, A. E., and Bound.)
- Bound Brook Oil-Less Bearing Company. (See Claus, Carl, assignor.)
- Bound Brook Oil-Less Bearing Company. (See Shoemaker, George A., assignor.)
- Bourcier, Charles D., Grafton, Mass. Ignition-testing device for internal-combustion engines. 1,632,166; June 14.
- Bourdeau, Leon N., Rock Island, Ill. Curtain stretcher. 1,638,824; Aug. 16.
- Bourdes, Augustus A. (See Deliglanes, T. N., and Bourdes.)
- Bourdon, Victor, Seattle, Wash. Adjustable mirror bracket. 1,622,486; Mar. 29.
- Bourdon, Victor, Seattle, Wash. Adjustable mirror bracket. 1,630,777; May 31.
- Bourgeois, Constant, Ronen, France. Shuttle provided with a hand or automatic threading device. 1,621,101; Feb. 15.
- Bourgon, Joseph H. (See Hoffer, J. G., Sullivan, and Bourgon.)
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Body hardware. 1,613,077; Jan. 4.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Vehicle closure. 1,615,828; Feb. 19.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Latch. 1,616,106; Feb. 19.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Window regulator. 1,617,195; Feb. 8.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, Ventilator. 1,620,512; Mar. 8.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Vehicle closure. 1,623,934; Apr. 5.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Ventilator. 1,624,907; Apr. 19.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Top construction. 1,635,358; July 12.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Top construction. 1,640,592; Aug. 30.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Body construction. 1,640,640; Aug. 30.
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Top construction. 1,645,582; Oct. 18.
- Bourgord, Edward, and A. Leitz, Park Falls, Wis. Operating apparatus for safety guards on roll winders of paper machines. 1,628,488; May 10.
- Bourke, Edmund, Footscray, near Melbourne, Victoria, Australia. Riddle. 1,637,728; Aug. 2.
- Bourke, Lester L., Lewbeach, N. Y. Golf club. 1,623,523; Apr. 5.
- Bourn, Stephen W., Providence, R. I. Tubular-armoring cable machine. 1,615,502; Jan. 25.
- Bourne, Cedric A. (See Bourne, Frank and C. A.)
- Bourne, Frank and C. A., London, England. Connecting device. 1,638,978; Aug. 16.
- Bourne, Phillips P., Winchester, Mass., assignor to Worthington Pump & Machinery Corporation, New York, N. Y. Oil-engine-driven centrifugal and similar pump. 1,622,699; Mar. 29.
- Bourne, Phillips P., Winchester, and O. Nonnenbruch, Boston, Mass., assignors to Worthington Pump & Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,642,293; Sept. 13.
- Bourne, Stephen. (See Ryplinski, M. C., Staunton, and Bourne.)
- Bournonville, Eugene M., Jersey City, N. J. Internal-combustion-engine rotary valve member. 1,624,388; Apr. 12.
- Bournonville, Eugene M., Jersey City, N. J. Rotary valve. 1,646,949; Oct. 25.
- Bournonville Rotary Valve Motor Company. (See Smith, Carlisle F., assignor.)
- Bourque, David, Amesbury, assignor to G. W. J. Murphy Company, Amesbury, Mass. Separable fastener and construction equipped therewith. 1,650,486; Nov. 22.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Buffer. 1,622,759; Mar. 29.
- Bourrieux, Albert, Chicago, Ill. Spark plug. 1,622,760; Mar. 29.
- Bousfield, Alfred, assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Weighing machine. 1,652,810; Dec. 13.
- Bouslough, Joseph A., and G. M. Eaton, Wilkesburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Timing mechanism. 1,648,093; Nov. 15.
- Boustead, John R. (See Christian, C. L., and Boustead.)
- Boutin, Stanley, assignor to W. E. Gilbert, H. E. Empsall, and H. Duckworth, trustees, Springfield, Mass., doing business as Duckworth Chain & Manufacturing Company. Machine for detecting and sorting articles. 1,652,390; Dec. 13.
- Bouton, Edgar M., East Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,619,398; Mar. 1.
- Bouton, Edgar M., East Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,640,559; Aug. 30.
- Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Serving a material. 1,614,590; Jan. 18.
- Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Controlling mechanism. 1,614,597; Jan. 18.
- Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding mechanism. 1,615,101; Jan. 18.
- Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for determining the pliability of strands. 1,617,938; Feb. 15.
- Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-handling apparatus. 1,632,875; June 21.
- Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-tensioning device. 1,632,876; June 21.
- Bouwers, Albert. (See Holst, G., and Bouwers.)
- Bouwers, Albert, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. X-ray tube and installation for operating the said tube. 1,641,410; Sept. 16.
- Bouwmeester, Bernard J. (See Owen, I. J., and Bouwmeester.)
- Bouza, Vicente, Highland Park, Mich. Synchronizing mechanism for talking and motion-picture machines. 1,629,252; May 17.
- Bouzo, Manuel, Habana, Cuba. Plow. 1,616,107; Sept. 16.
- Bovald & Seyfang Manufacturing Company. (See Austin, Raymond L., assignor.)
- Bovald & Seyfang Manufacturing Company. (See Leonard, Peter, G., assignor.)
- Bovard, Fritz, Bern, assignor to the Firm: Sport S. A. Bienne, Canton of Bern, Switzerland. Lighting magnet for vehicles. 1,624,775; Apr. 12.
- Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Apparatus used in bonding rails and its application. 1,623,654; Apr. 5.
- Bove, Anthony C., Brooklyn, N. Y. Radiodesk. 1,647,264; Nov. 1.
- Bove, Joseph E., Kearny, N. J. Double-tread pneumatic tire. 1,643,195; Sept. 20.
- Bovey, Sidney J. (See Bovey, Thomas and S. J. V.)
- Bovey, Thomas, Chicago, Ill. Control device for automobile heaters. 1,615,068; Jan. 18.
- Bovey, Thomas, Chicago, Ill. Casing for automobile heaters. 1,635,701; July 12.
- Bovey, Thomas and S. J. V., Chicago, Ill., said S. J. V. Bovey assignor to said Thomas Bovey. Control for automobile heaters. 1,617,099; Feb. 8.
- Bovey, Thomas and S. J. V., Chicago, Ill., said Sidney J. V. Bovey assignor to said Thomas Bovey. Clamping device. 1,621,490; Mar. 22.
- Boving, Henrick, assignor to Western Electric Company, Incorporated, New York, N. Y. Metallic composition. 1,636,763; July 26.
- Boving, Jens O., London, England. Hydraulic air-composition. 1,623,225; May 10.
- Boving, Jens O., Westminster, London, England. Hydraulic air-inspiring plant. 1,628,026; May 10.
- Boving, Jens O., Westminster, London, England. Refrigerating apparatus. 1,646,007; Oct. 25.
- Boving, Jens O., Westminster, London, England. Indicator apparatus for compressing gases. 1,651,749; Dec. 6.
- Bowditch, James H., Brookline, Mass. Hat. 1,635,456; July 12.
- Bowe, Denis E., Waseca, Minn. Clamp. 1,634,532; July 5.
- Bowe, Fred A., Southbridge, Mass. House slipper and making it. 1,618,637; Feb. 22.
- Bowen, David R., assignor to G. S. Half to W. D. Harris, Philadelphia, Pa. Boiler-cleaning device. 1,628,385; Apr. 26.
- Bowe, Thomas A., Milwaukee, Wis. Safety clutch-releasing device. 1,627,313; May 3.
- Bowell, George B., Hertfordshire, assignor of one-fourth to R. G. Dinwiddie, Blockheath, London, and five-eighths to G. R. Redgrave, Sydenham, England. Projection of cinematograph films. 1,642,599; Sept. 13.
- Bowen, David R., Ansonia, and C. F. Schnack, New Haven, assignors to Farrel Foundry & Machine Company, Ansonia, Conn. Machine for mixing or masticating rubber and like material. 1,623,159; Apr. 5.
- Bowen-Dumars Power Corporation. (See Dumars, H., and Bowen, assignors.)

- Bowen, Ernest W., Chiswick, London, England. Mechanism for converting rotary motion into combined reciprocating and oscillating motion and vice versa. 1,619,696; Mar. 1.
- Bowen, Frederick D., Monett, Mo. Handle attachment. 1,638,890; Aug. 9.
- Bowen, George W., assignor to Illinois Watch Case Company, Elgin, Ill. Watchcase. 1,634,447; July 5.
- Bowen, Leslie G., assignor to Bowen & Phelps Co., Bedford, Iowa. Battery binding post. 1,642,224; Sept. 19.
- Bowen & Phelps Co. (See Bowen, Leslie G., assignor.)
- Bowen, Philip A., assignor to L. A. Little, Lynn, Mass. Grade-crossing-protecting system. 1,645,512; Oct. 18.
- Bowen, Richard, Columbus, Ohio, assignor to Super Coal Process Company, Augusta, Me. Apparatus for fabricating agglomerated masses. 1,646,385; Oct. 25.
- Bowen, Richard, Columbus, Ohio, assignor to Super Coal Process Company, Augusta, Me. Mixing device. 1,646,386; Oct. 25.
- Bowen, Richard, Columbus, Ohio, assignor to Super Coal Process Company, Augusta, Me. Fabricating agglomerated masses. 1,647,075; Oct. 25.
- Bowen, William S. (See Dunars, H., and Bowen.)
- Bowen, William S., Westfield, N. J. Governor for rotating mechanisms. 1,645,088; Oct. 11.
- Bowen, William S., Westfield, N. J. Feed-regulating apparatus for liquids. 1,651,992; Dec. 6.
- Bower, Abram L., Souderport, Pa. Control for a microphone. 1,652,342; Dec. 13.
- Bower, Elmer E., Rochester, Minn. Automobile signal. 1,624,468; Apr. 12.
- Bower, Ferdinand A., Flint, assignor to General Motors Corporation, Detroit, Mich. Vehicle brake. 1,651,368; Dec. 6.
- Bower, John A. (See Welscher, Samuel I., assignor.)
- Bower, Frank S., Alledo, Ill. End-gate-locking device. 1,642,059; Sept. 13.
- Bower, Roland. (See Sapp, James E., assignor.)
- Bower, William M., C. S. Burdon, and C. L. Stern, assignors to Linotype and Machinery Limited, London, England. Method and mold for casting type bars. 1,628,573; May 30.
- Bowers, Charlie M., Bloomington, Ind. Automobile heater. 1,638,317; Aug. 9.
- Bowers, Claude E., Los Angeles, Calif. Corner studding for plaster-board walls. 1,615,972; Feb. 1.
- Bowers, Claude E., Los Angeles, Calif. Combined switch-supply and latch holder. 1,620,065; Mar. 8.
- Bowers, Claude E., Los Angeles, Calif. Stucco nail. 1,631,397; June 7.
- Bowers, Claude E., Los Angeles, Calif. Device for connecting the abutting ends of concrete slabs. 1,631,576; June 7.
- Bowers, Claude E., Los Angeles, Calif. Wire package-holding device. 1,651,664; Dec. 6.
- Bowers, Edward C., et al., receivers. (See Arnold, Lester R., assignor.)
- Bowers, Frank, assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,624,576; Apr. 12.
- Bowers, Frank, assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler-cleaning device. 1,629,675; May 24.
- Bowers, Frank, assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Soot blower. 1,637,546; Aug. 2.
- Bowers, Frank E., Indianapolis, Ind. Power washing machine. 1,639,255; Aug. 16.
- Bowers, Frederick M., Chester, Pa. Helmet and mask. Re16,515; Jan. 4.
- Bowers, Frederick M., Chester, Pa. Hand shield for electric welding. 1,652,973; Dec. 13.
- Bowers, George H., Buffalo, N. Y. Apparatus for dispensing viscous materials. 1,651,866; Dec. 6.
- Bowers, Hiestor A., Reading, Pa. Calculating machine. 1,634,985; July 6.
- Bowers, Lewis, San Francisco, Calif. Fireplace screen. 1,647,899; Nov. 1.
- Bowers, Thomas G., New Haven, Conn. Corset. 1,643,109; Sept. 20.
- Bowers, Walter G., and C. A. Smith, Akron, Ohio. Brake lock. 1,628,382; Apr. 5.
- Bowes, Thomas D., Cynwyd, assignor of one-third to H. C. Yerho, and one-third to L. C. Cope, Philadelphia, Pa. Cylinder for double-acting engines. 1,625,843; Apr. 26.
- Bowie, Augustus J., San Francisco, Calif. Electric fuse and fuse holder. 1,614,646; Jan. 18.
- Bowie, Derwin W., Woodridge, assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,617,475; Feb. 15.
- Bowles, Benjamin A., Washington, D. C. Window guard. 1,638,724; Aug. 9.
- Bowles, W. H., and Sons. (See Bowles, William H., assignor.)
- Bowles, William H., assignor of one-third to W. H. Bowles and Sons, Meadow Creek, W. Va. Rail joint. 1,643,830; Sept. 27.
- Bowlin, John E. (See Carmichael, T., and Bowlin.)
- Bowling, Clarence B., and H. Bulman, Detroit, Mich. Floss holder. 1,623,231; Apr. 5.
- Bowman, Albert B., Grand Rapids, Mich. Transmission. 1,620,064; Mar. 8.
- Bowman, Chatham E., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Child's apron. Des. 72,665; May 17.
- Bowman, Clifford, Spencer, Iowa. Map construction. 1,643,831; Sept. 27.
- Bowman, Edgar P. (See Blatt, Mack, assignor.)
- Bowman, Edward J., Anaconda, and J. S. Myhre, Butte, Mont., assignors to Hawkesworth Drill Company, Butte, Mont. Drill-assembling unit. 1,630,825; May 31.
- Bowman, Francis H. (See Price, D. R., and Bowman.)
- Bowman, Fred, and E. Ellis, Cushing, Okla. Furniture. 1,631,002; May 31.
- Bowman, George H., Company, The. (See Becker, Alfred A., assignor.)
- Bowman, George J., Glenburn, Calif. Hay loader. 1,626,178; Apr. 26.
- Bowman, George J., Glenburn, Calif. Tightener and holder for tire chains. 1,628,179; Apr. 26.
- Bowman, Henry V. (See Woolsey, C. A., and Bowman.)
- Bowman, Herbert H., Toronto, Ontario, Canada. Gas-valve safety attachment. 1,615,004; Jan. 18.
- Bowman, John G., assignor of one-half to W. C. Haseltine, Kansas City, Mo. Lining for brake bands and shoes. 1,624,095; Apr. 12.
- Bowman, John W., Warrensburg, Mo. Mill. 1,651,319; Nov. 29.
- Bowman, Lewis N., assignor of one-eighth to H. H. Harrison and one-eighth to A. R. White, Chicago, Ill. Liquid fuel. 1,625,236; Apr. 19.
- Bowman, Lewis N., assignor of one-eighth to H. H. Harrison and one-eighth to A. R. White, Chicago, Ill. Liquid fuel. 1,625,237; Apr. 19.
- Bowman, Newton K., Bowditch, Ohio. Mining-machine chain link and bit. 1,615,738; Jan. 25.
- Bowman, Oliver S., Colorado Springs, Colo. Vertical fire-tube boiler. 1,624,908; Apr. 19.
- Bowman, Oliver S., Colorado Springs, Colo. Ash-handling equipment. 1,624,909; Apr. 19.
- Bowman, Oscar F., et al. (See Savage, Basil H., assignor.)
- Bowman, William J., Smith Center, Kans. Inner tube. 1,628,642; May 17.
- Bowman, William W., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,652,087; Dec. 6.
- Bown, Ralph, East Orange, N. J., assignor to American Telephone and Telegraph Company. Signaling system. 1,637,404; Aug. 2.
- Bown, R. F., and Company. (See Fries, Jalmar W. G., assignor.)
- Bowyer, John A., Chicago, Ill. Combined cigarette and ash holder. 1,651,177; Nov. 29.
- Boxboard Products Company. (See Kondolf, Mathias R., assignor.)
- Boyd, Alf M., Minneapolis, Minn. Ensilage harvester. 1,630,603; May 31.
- Boyce, Harrison H., Jericho, N. Y. Motor heat indicator. Des. 72,981; July 5.
- Boyce, Harrison H., Jericho, N. Y. Motor heat indicator. Des. 72,982; July 5.
- Boyce, Harrison H., Jericho, N. Y. Motor heat indicator. Des. 72,983; July 5.
- Boyce, Harrison H., Jericho, N. Y. Motor heat indicator. Des. 72,984; July 5.
- Boyce, Harrison H., Jericho, N. Y. Heat indicator. Des. 73,023; July 12.
- Boyce, Harrison H., Forest Hills, N. Y. Temperature-indicating instrument for motor vehicles. 1,647,171; Nov. 1.
- Boyce, James. (See Anderson, Harry F., assignor.)
- Boyce, Reginald D., Hendon, London, England. Mercantile unit of patching material for pneumatic tires. 1,650,420; Nov. 22.
- Boyce Thompson Institute for Plant Research, Inc. (See Denny, Frank E., assignor.)
- Boyce & Veeder Company. (See Iserman, S., Vernet, and Moscs, assignors.)
- Boyce and Veeder Co. Inc. (See Louder, Earl A., assignor.)
- Boyce, Wirt B., Chicago, Ill. Pulley. 1,648,903; Nov. 15.
- Boyd, Alexander G., Toronto, Ontario, Canada. Furnace. 1,623,087; Apr. 5.
- Boyd, Allen, Sioux City, Iowa. Bleeder. 1,642,536; Sept. 13.
- Boyd, Charles, Dennison, Ohio. Washing machine. 1,622,139; Mar. 22.
- Boyd, Charles H., Marcus, Wash. Guide for die plates. 1,613,980; Jan. 11.
- Boyd, David M. (See Russell, P. S., and Boyd.)
- Boyd, David M., and W. C. Capen, assignors, by mesne assignments, to Electrol, Inc. of Missouri, St. Louis, Mo. Oil burner. 1,620,754; Mar. 15.
- Boyd, Edwin A. (See Wall, S. A., and Boyd.)
- Boyd, Ellis J., Oak Park, Ill. Combination card and scroll saw. 1,628,526; May 10.
- Boyd, Ernest L., Garner, Tex. Cover for automobile tire-valve stems. 1,640,804; Nov. 22.
- Boyd, Frederic R. C., Boston, Mass., assignor to The De Laval Separator Company, New York, N. Y. Lubricating-oil purifying and reclaiming system. 1,622,278; Mar. 29.
- Boyd, Harold A. (See Boyd, Thomas A. and H. A.)
- Boyd, Harold A. (See Boyd, Thomas A., H. A., and J.)
- Boyd, Homer W., Parkersburg, W. Va. Dirigible headlight. 1,614,866; Jan. 18.

- Boyd, James W. (See Boyd, Thomas A. H. A., and J.).
Boyd, James W., East Liverpool, Ohio. Internal-combustion engine. 1,617,792; Feb. 15.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,948; Feb. 8.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,949; Feb. 8.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,950; Feb. 8.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,951; Feb. 8.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,952; Feb. 8.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,957; Feb. 8.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,958; Feb. 8.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,995; Feb. 15.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,996; Feb. 15.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 71,997; Feb. 15.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 72,058; Feb. 22.
Boyd, John S., assignor to John S. Boyd Co., Inc., Wilmamstown, Mass. Textile fabric. Des. 72,059; Feb. 22.
Boyd, John S., Co. (See Boyd, John S., assignor).
Boyd, Lemuel S., Shreveport, La. Drilling apparatus. 1,613,505; Jan. 12.
Boyd, Louis, Connelville, Pa. Leaf turner. 1,630,290; May 31.
Boyd, Rutherford, Leona, N. J., F. W. Nitardy, Brooklyn, and J. C. Lewis, Forest Hills, assignors to E. R. Squibb & Sons, New York, N. Y. Bottle. Des. 71,954; Feb. 8.
Boyd, Thomas A. and H. A., Glasgow, Scotland. Spindle for spinning, twisting, and like frames. 1,624,713; Apr. 12.
Boyd, Thomas A., H. A., and J. Glasgow, Scotland. Spinning, twisting, and like frame. 1,639,794; Aug. 23.
Boyden, Davis S., et al. (See Adair, Thomas D., jr., assignor).
Boyden, Dwight F., Boston, Mass. Shaft for golf clubs of like. 1,642,294; Sept. 13.
Boyden, Dwight F., Boston, Mass. Golf shaft or the like. 1,643,573; Sept. 27.
Boyden Steel Corporation. (See Charles, Carl L., assignor).
Boyden, Thomas L., Victoria, British Columbia, assignor of one-half to J. Hart, Vancouver, and H. C. Hall, Victoria, Canada. Reflecting signal device. 1,652,138; Dec. 18.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain and portiere rod. Des. 73,891; Nov. 22.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain and portiere rod. Des. 73,892; Nov. 22.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain and portiere rod. Des. 73,893; Nov. 22.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain and portiere rod. Des. 73,894; Nov. 22.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-rod bracket. 1,622,700; Mar. 29.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain fixture. 1,630,778; May 31.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Bracket and rod coupling for curtain fixtures. 1,644,107; Oct. 11.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Commodity cabinet. 1,645,218; Oct. 11.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain rod. 1,646,049; Oct. 18.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Bracket and rod coupling for curtain fixtures. 1,649,214; Nov. 15.
Boye, James H., Manufacturing Company. (See Boye, James H., assignor).
Boye Needle Company, The. (See Boye, James H., assignor).
Boyer, Albert L., Marion, Ind. Loose-leaf binder. 1,623,524; Apr. 5.
Boyer, Clifford W., Webster Groves, Mo. Refrigerator. 1,631,577; June 7.
Boyer, Edwin W., Thornton, Ind. Feeder. 1,617,988; Feb. 15.
Boyer, Fernand, Paris, France. Thread-feeding device for tufted-fabric looms. 1,628,387; May 10.
Boyer Fire Apparatus Company. (See Allen, J. B., and Schwepker, assignors).
Boyer, Henry, Jersey City, N. J., and M. Kleivins, Brooklyn, N. Y. Fountain pen. 1,633,433; June 21.
Boyer, Joseph, Detroit, Mich., assignor to Burroughs Adding Machine Company. Carrying mechanism for accounting machines. 1,634,068; June 28.
Boyer, Willet. (See Updegrave, C. A., and Shollenberger, assignors).
Boyer, William J., Wilmington, Del. Antiskid cross chain. 1,651,439; Dec. 6.
Boyet, Jesse B., Tampa, Fla. Plant-spraying apparatus. 1,638,758; Aug. 9.

- Brackelsberg, Casper D., Madelia, Minn. Tilting apparatus for barrows. 1,646,273; Oct. 18.
- Brackett, Edward M. and F. M. Topeka, Kans. Wiper for strip-applying machines. 1,629,473; May 24.
- Brackett, Edward M., et al. (See Mulroney, John E., assignor.)
- Brackett, Fred, et al. (See Mulroney, John E., assignor.)
- Brackett, Fred M. (See Brackett, Edward M. and F. M.)
- Brackett, John C., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Coal cutter. 1,614,182; Jan. 11.
- Brackett, John C., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Coal-cutting machine. 1,639,255; Aug. 16.
- Brackett Stripping Machine Company, The. (See Mulroney, John E., assignor.)
- Braden, Albert R. (See Hays, J. J., and Braden.)
- Braden, Albert R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making machine. 1,624,920; Apr. 19.
- Braden, Joseph F. (See Juliard, John, assignor.)
- Braden, Richard W. (See Feeley, M. R., Stern, and Braden.)
- Braden, Richard W. (See Stern, C., and Braden.)
- Braden Steel & Winch Company. (See Schuetz, Thomas assignor.)
- Bradford Corporation, The. (See Rodman, Thomas E., assignor.)
- Bradford, Early T., Three Notch, Ala. Sawmill carriage. 1,633,920; June 28.
- Bradford, James R., San Francisco, Calif. Motion-picture machine. 1,641,727; Sept. 6.
- Bradford Machine Company. (See Johnson, Carl O., assignor.)
- Bradford Patents Corporation, The. (See Stuebing, Albert F., assignor.)
- Bradford, Richard H., J. S. La Barr, and P. H. Thompson, Paulsboro, N. J. Carboy. 1,630,163; May 24.
- Bradford, Zerbe C., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Engine-starting apparatus. 1,618,858; Feb. 22.
- Bradford, Zerbe C., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,632,167; June 14.
- Bradley, Arthur J., assignor to S. T. Johnson Co., Oakland, Calif. Fuel-oil feed system for crude-oil burners. 1,616,443; Feb. 1.
- Bradley, Catherine and L. M., Bathurst, New Brunswick, Canada. Waxed milk-bottle stopper made of pasteboard. 1,625,706; Apr. 19.
- Bradley, Cecil P., Napoleon, Ohio. Switch mechanism. 1,641,219; Sept. 6.
- Bradley, Charles E., Montclair, N. J., and W. A. Gibbons, New York, N. Y., assignors to The Naugatuck Chemical Company. Combining halogen-containing materials with rubber or similar substances and products resulting therefrom. 1,627,725; May 10.
- Bradley, Edward E., assignor to The Atwood Machine Company, Stonington, Conn. Spinning and twisting machine. 1,616,949; Feb. 8.
- Bradley, Edward E., Stonington, Conn., and I. R. Row, Westerly, R. I., assignors to The Atwood Machine Company, Stonington, Conn. Reeling machine. 1,652,658; Dec. 13.
- Bradley, Harry J., Johnstown, Pa. Overalls. 1,654,452; Dec. 27.
- Bradley, Harry L., Milwaukee, Wis. Variable condenser. 1,641,314; Sept. 6.
- Bradley, Harry T., and F. Jacobl, Newark, N. J. Collapsible hamper. 1,632,269; June 14.
- Bradley, Harry T., and F. Jacobl, Newark, N. J. Adjustable bottom for hampers. 1,632,270; June 14.
- Bradley, John J., West Springfield, Mass. Sash fastener. 1,625,238; Apr. 19.
- Bradley, Lillian M. (See Bradley, Catherine and L. M.)
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, New York, N. Y., Production of caustic alkali, etc. 1,637,514; Aug. 2.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, New York, N. Y., assignors to Bradley-McKeefe Corporation. Treatment of residual liquors. 1,637,515; Aug. 2.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, New York, N. Y., Manufacture of pulp and paper. 1,631,662; Dec. 6.
- Bradley-McKeefe Corporation. (See Bradley, L., and McKeefe, assignors.)
- Bradley Motor Products Company, The. (See Munger, Howard, assignor.)
- Bradley, Ovie E. (See McCarty, E. E., Dicus, and Langbein, assignors.)
- Bradley, Ovie E., Elmo, Mo. Veterinary medicine. 1,618,051; Feb. 15.
- Bradley Pulverizer Company. (See Burke, James G., assignor.)
- Bradley, Thomas H. (See Leech, L., and Bradley.)
- Bradshaw, William, Thru-Ten, Traveling valve for oil-well pumps. 1,632,216; June 14.
- Bradner, Donald R., and N. E. Oglesby, Edgewood, Md. Producing smoke clouds from moving aircraft. 1,619,183; Mar. 1.
- Bradner, Donald R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Impregnated wood and effecting the impregnation. 1,652,811; Dec. 13.
- Bradshaw, Dennis F., Indianapolis, Ind. Spotlight for mail cars. 1,631,003; May 31.
- Bradshaw, Frank H., Reno, Nev. Wrench. 1,646,608; Oct. 25.
- Bradshaw, Granville, London, England. Bowling-game apparatus. 1,629,085; May 17.
- Bradshaw, Harry, Kansas City, Mo. Paper feeding. 1,628,224; May 10.
- Bradshaw, Harry, Topeka, Kans. Paper feeding. 1,628,225; May 10.
- Bradshaw, Richard, Montreal, Quebec, Canada, assignor to Simmons Company, Kenosha, Wis. Bed-bottom fabric. 1,631,852; June 7.
- Bradshaw, William M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,615,678; Jan. 25.
- Bradshaw, William M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,621,056; Mar. 15.
- Bradshaw, William M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator system. 1,640,560; Aug. 30.
- Bradshaw, William M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic regulator. 1,647,338; Nov. 1.
- Bradshaw, William M., and J. H. Ashbaugh, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,638,825; Aug. 16.
- Bradshaw, William M., and W. G. Mylius, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Regulator system for pulp grinders. 1,622,624; Mar. 29.
- Bradshaw, William M., and J. H. Ashbaugh, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed regulator. 1,647,337; Nov. 1.
- Bradstreet, Hobart J., Steubenville, Ohio. Hand support for use in horizontal exercises. 1,630,467; May 31.
- Bradstreet, Ross, St. Charles, Ill. Gauge. 1,643,404; Sept. 27.
- Brady, Edward L., assignor to F. C. Armbruster, Shreveport, La. Material-handling apparatus. 1,613,308; Jan. 4.
- Bradwell, Harry, assignor to John Mackintosh and Sons, Limited, Halifax, England. Wrapping machine for wrapping or parceling toffee, chocolate, or the like. 1,654,299; June 28.
- Brady, Charles L., Detroit, Mich. Desk lamp. Des. 72,142; Mar. 8.
- Brady, Edward J., assignor to The W. G. I. Contracting Company, Philadelphia, Pa. Purifying illuminating gas. 1,626,664; May 3.
- Brady, Ellen, Bloomfield, N. J., assignor to Henry Brady, Inc. Package-wrapping device. 1,623,300; Apr. 5.
- Brady, Francis E., Jr., Muncie, Ind., assignor of one-third to R. A. Oppenheim and one-third to D. Oppenheim, Detroit, Mich. Pump. 1,652,659; Dec. 13.
- Brady, Gertrude, New York, N. Y. Clothespin. 1,645,220; Oct. 11.
- Brady, Gordon G., Arkansas City, Kans. Pipe saddle. 1,641,879; Sept. 6.
- Brady, Henry, Inc. (See Brady, Ellen, assignor.)
- Brady, Henry, Inc. (See Hilsinger, Adin W., assignor.)
- Brady, Hugh T., and D. A. Benway, Bay City, W. E. Van Ness, Detroit, Mich. Camera. 1,616,801; Feb. 1.
- Brady, John D., assignor to Brady Process Company, El Dorado, Ark. Apparatus for the treatment of impure petroleum oils. 1,628,574; May 10.
- Brady, John D., Bartlesville, Okla., assignor to Brady Process Company, El Dorado, Ark. Fluid-feed apparatus. 1,646,686; Oct. 18.
- Brady, John F., and R. B. Ott, Ritzville, Wash. Balloon-tire patch. 1,629,335; May 17.
- Brady, John F. (See Enzenauer, Stephen C., assignor.)
- Brady Process Company. (See Brady, John D., assignor.)
- Brady, Sanford C., Bartlesville, Okla. Pump. 1,626,072; Apr. 26.
- Brady, Sanford C., Bartlesville, Okla. Pressure-control device. 1,626,073; Apr. 26.
- Brady, Thomas, East Orange, N. J., assignor, by mesne assignments, to Otis Elevator Company, New York, N. Y. Door closer. 1,624,910; Apr. 19.
- Brady, Thomas, East Orange, N. J., assignor, by mesne assignments, to Otis Elevator Company, New York, N. Y. Door closure. 1,624,911; Apr. 19.
- Brady, William. (See Hachenberg, Louis, assignor.)
- Braecklein, Ferdinand, H., Baltimore, Md. Milk-bottle receptacle. 1,628,575; May 10.
- Braen, Martin, Hawthorne, N. J. Vehicle transmission. 1,612,797; Jan. 4.
- Braun, Samuel L., New York, N. Y. Motor-vehicle signal. 1,634,014; June 28.
- Braxton, Charles R., assignor to The Ault & Wilborg Company, Cincinnati, Ohio. Adhesive lacquer or varnish composition. 1,639,395; Aug. 16.
- Braxton, Herbert J., Chicago, Ill. Seal for vessels and the like. 1,635,829; July 12.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Fort Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Power actuator. 1,620,513; Mar. 8.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Fort Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Valve-control mechanism for power actuators. 1,630,326; May 31.

- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, N. Y., assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Valve-control mechanism for power actuators. 1,630,327; May 31.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island, N. Y. Throttle-control apparatus for brake-applying mechanism. 1,633,360; June 21.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Steering mechanism for automotive vehicles. 1,639,284; Aug. 16.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Power actuator. 1,639,285; Aug. 16.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Providing suction for operating power actuators. 1,639,979; Aug. 23.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Power actuator. 1,640,526; Aug. 30.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,645,291; Nov. 8.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,650,487; Nov. 22.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,650,488; Nov. 22.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Klierath, Port Washington, assignors to Bragg-Klierath Corporation, Long Island City, N. Y. Power actuator. 1,653,146; Dec. 20.
- Bragg, George, Cincinnati, Ohio. Internal-combustion rotary motor. 1,619,237; Mar. 1.
- Bragg, Gilbert A., East Orange, N. J., assignor to Metals Recovery Company, New York, N. Y. Concentration of slimes by flotation. 1,619,790; Mar. 1.
- Bragg-Klierath Corporation. (See Bragg, C. S., and Klierath, assignors.)
- Bragg, Thomas A., assignor to The Owens Bottle Company, Toledo, Ohio. Cooling molds. 1,632,992; June 21.
- Braggiotti, Isidore. (See Serchi, Enrico, assignor.)
- Brahm, Albert, Dusseldorf-Rath, Germany. Connecting nipple for cast-iron heating-boller elements. 1,631,911; June 7.
- Brabs, George, Paterson, N. J. Shuttle tension. 1,631,305; June 7.
- Braidwood, Chester A. (See Shirley, Daniel A.)
- Brainard, Charles E., Chicago, Ill. Pulverizer. 1,642,139; Sept. 13.
- Brainard, Ernest D., Davenport, Iowa. Superstructure for vehicles. 1,614,598; Jan. 18.
- Brainard, Everett E., Arlington, Mass. Gasket seal for liquid containers. 1,622,625; Mar. 29.
- Brainard, Ford C., Brocton, N. Y. Basket handle. 1,620,941; Mar. 15.
- Brainard, George C., assignor to The General Fireproofing Company, Youngstown, Ohio. Metal desk construction. 1,649,805; Nov. 22.
- Brainard, Lewis J. (See Arey, Fred C., assignor.)
- Brainin, Clement S., Glen Ridge, N. J., assignor to Baker & Company, Inc. Alloy. 1,624,857; Apr. 12.
- Braly, Norman B., Paso Robles, Calif. Scrubber. 1,620,591; Mar. 8.
- Bramhall, Fay E. (See Parker, L. F., and Bramhall.)
- Bramin, Edwin F., Balboa Heights, Canal Zone, Panama. Concrete-block molding and setting machine and method of molding. 1,626,447; Apr. 26.
- Brammar, Louis C. (See Allyn, John F., assignor.)
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Connector member. 1,632,112; June 14.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Electric lamp for radios. 1,636,211; July 19.
- Bramwell, Robert, Belfast, Ireland. Filtering apparatus. 1,620,431; Mar. 8.
- Bramwell, Francis H., Hartford, England, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Catalytic apparatus. 1,618,265; Feb. 22.
- Brance, Jacobin M. C., Somerset, assignor of one-half to J. K. Lanning, Fall River, Mass. Machine for braiding fabric. 1,631,023; May 31.
- Brand, Albert, Munich, Germany. Machine for printing ampulle. 1,626,912; May 8.
- Brand, Edward D., assignor to The McClary Manufacturing Company, London, Ontario. Electric stove. 1,653,797; Dec. 27.
- Brand, Frederick F., Pittsfield, Mass., assignor to General Electric Company. Auto transformer. 1,641,659; Sept. 6.
- Brand, Hermann, Berlin, Germany. Water heater. 1,634,704; July 5.
- Brand, James C. (See Chase, L. W., and Brand.)
- Brand, Jesse D., Hartsville, S. C. Baby walker. 1,613,433; Jan. 4.
- Brand & Oppenheimer, Incorporated. (See Zollne, Orrin B., assignor.)
- Brand, Samuel, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,648,980; Nov. 15.
- Brandenberger, Heinrich, Vienna, Austria. Shaping or planing machine for worm or screw shaped bevel wheel operating according to the development method. 1,616,120; July 19.
- Brandenburg, Joseph F., et al. (See Otterson, George W., assignor.)
- Brandenburg, Wilson C., Weston, W. Va., assignor to General Electric Company. Recording instrument. 1,637,852; Aug. 2.
- Brundes Laboratories, Inc. (See Brigham, Cyril A., assignor.)
- Brundes Laboratories, Inc. (See Brigham, C. A., and Gerns, assignors.)
- Brundes Laboratories, Inc. (See Dietrich, F., and Gerns, assignors.)
- Brundes Laboratories, Inc. (See Gerns, William H., assignor.)
- Brundes Laboratories, Inc. (See Moss, David H., assignor.)
- Brundes Laboratories, Inc. (See Respess, William R., assignor.)
- Brundes Laboratories, Inc. (See Rowe, C. R., and Gerns, assignors.)
- Brundes Laboratories, Inc. (See Rypinski, Maurice C., assignor.)
- Brundes Laboratories, Inc. (See Rypinski, M. C., Staunton and Bourne, assignors.)
- Brundes Laboratories, Inc. (See Stacy, Ray H., assignor.)
- Brundes Laboratories, Inc. (See Staunton, Le Roy W., assignor.)
- Brundes Laboratories, Inc. (See Stevenson, Harry, assignor.)
- Brundes Laboratories, Inc. (See White, Charles D., assignor.)
- Brundes, Paul H., and J. W. Adams, assignors to The Springfield Mfg. Co., Bridgeport, Conn. Sectional grinding wheel. 1,641,799; Sept. 6.
- Brandish, Michael. (See Kaplan, M. L., and Brandish.)
- Brinlich, Oscar, Philadelphia, Pa. Washing machine. 1,635,245; July 12.
- Brandoine, Paul, Port Richmond, N. Y. Combined mail box and bottle holders. 1,622,412; Mar. 29.
- Brandon, Adele U. G., New York, N. Y. Vapor lamp. Des. 71,998; Feb. 15.
- Brandon, David C., et al. (See Fénelon, Juan, assignor.)
- Brandt Automatic Cashier Co. (See Brandt, Edward J., assignor.)
- Brandt, David G., Westfield, N. J., assignor to Doherty Research Company, New York, N. Y. Process and apparatus for the condensation of vapors. 1,613,016; Jan. 4.
- Brandt, Edgar W., Paris, France. Projectile for smooth-bore guns. 1,628,527; May 10.
- Brandt, Edward J., assignor to Brandt Automatic Cashier Co., Watertown, Wis. Casing for a coin-delivery machine. Des. 73,556; Oct. 4.
- Brandt, Edward J., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Coin-delivery machine. 1,616,679; Feb. 8.
- Brandt, Edward J., assignor to Brandt Automatic Cashier Co., Watertown, Wis. Coin-handling machine. 1,643,941; Oct. 4.
- Brandt, Emanuel A. (See Toth, G., and Brandt.)
- Brandt, Frederick, Mount Vernon, N. Y. Composition wall covering. 1,646,809; Oct. 25.
- Brandt, Louis, New York, N. Y. Braid-spreading machine. 1,615,162; Jan. 18.
- Brandt, Martin F., Berlin-Charlottenburg, Germany, assignor to The Tabulating Machine Company, New York, N. Y. Apparatus for mechanically copying entries from cards or sheets or the like on a collective sheet. 1,636,405; July 19.
- Brandt, Walter. (See Strauss, S., and Brandt.)
- Brandtjen and Kluge, Inc. (See Kluge, Abel and E., assignors.)
- Brandwein, Henry G., Chicago, Ill. Mattress-filling mechanism. 1,618,506; Feb. 22.
- Brandwood, Joseph, Waban, Mass. Collapsible holder for yarn packages. 1,646,472; Oct. 25.
- Branham, Luther G., Tulsa, Okla. Bottle. Des. 74,000; Dec. 6.
- Branham, Walter R., Fort Valley, Ga. Pusher. 1,630,604; May 31.
- Branicik, John, Simpson, Pa. Tool-locking device. 1,652,233; Dec. 13.
- Brannen, Thomas L., assignor to Brown Company, Berlin, N. H. Plug cock. 1,643,370; Sept. 27.
- Brannigan, Edward J., Buffalo, N. Y., assignor to West-Inchouse Electric & Manufacturing Company. Removable furnace heating unit. 1,638,826; Aug. 16.
- Brannon, Nem W., Greer, S. C., assignor to Draper Corporation, Hopedale, Mass. Intermittent thread-cutting temple. 1,615,188; Jan. 18.
- Brannon, Nem W., Greer, S. C., assignor to Draper Corporation, Hopedale, Mass. Loom-picker check. 1,629,446; May 17.
- Bransky, Oscar E. (See Rogers, F. M., and Bransky.)

- Branson, David E., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Apparatus and method for measuring transmitted light. 1,653,694; Dec. 27.
- Branston, Bernard, Brooklyn, N. Y. Beverage urn or similar article. Des. 72,696; May 24.
- Branston, Bernard, Brooklyn, N. Y. Beverage urn or similar article. Des. 72,697; May 24.
- Brant, Arthur P., and C. M. Leiby, Little Valley, N. Y. Speed-indicating device. 1,647,500; Nov. 1.
- Brant, Jessie H., Youngstown, Ohio. Track-scale trig loop. 1,621,150; Mar. 15.
- Brant, Joseph S., Somerset, assignor to W. L. Morrison, Somerset, Pa. Motor-vehicle heater. 1,642,296; Sept. 13.
- Braunford Oven & Rack Co. Limited, The. (See Aird, Clarence W., assignor.)
- Braunford Oven & Rack Co. Limited, The. (See Riches, C. H., and Aird, assignors.)
- Braren, Lorenz K., assignor to the Firm Friedrich Deckel Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Engraving machine. 1,617,312; Feb. 8.
- Braren, Lorenz K., assignor to the firm Friedrich Deckel, Fabrik für Präzisionsmechanik und Maschinenbau, Munich, Germany. Lubrication for screw making and turning lathes. 1,629,451; May 17.
- Braren, Lorenz K., Munich, Germany, assignor to the Firm: Friedrich Deckel, Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Internal-combustion engine. 1,638,541; June 21.
- Braren, Lorenz K., assignor to the Firm Friedrich Deckel Fabrik für Präzisionsmechanik und Maschinenbau, Munich, Germany. 1,636,406; July 19.
- Brarou, Lorenz K., assignor to the Firm Friedrich Deckel Fabrik für Präzisionsmechanik und Maschinenbau, Munich, Germany. Screw making and turning machine. 1,643,635; Sept. 27.
- Brasa, Italo, Milan, Italy. Typewriter. 1,620,942; Mar. 15.
- Brasack, William, Oak Park, Ill. Car retarder. 1,620,943; Mar. 15.
- Braselton, Chester H., assignor to The Tillotson Manufacturing Co., Toledo, Ohio. Carburetor. 1,625,787; Apr. 26.
- Braselton, Chester H., New York, N. Y., and C. P. Brockway, Toledo, Ohio, said Brockway assignor to said Braselton. Pumping mechanism. 1,620,065; Mar. 8.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, N. Y., said MacLaren, assignor to said Braselton. Vibration-operated pump. 1,625,788; Apr. 26.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, N. Y., said MacLaren, assignor to said Braselton. Liquid-pumping apparatus. 1,625,789; Apr. 26.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, N. Y., said MacLaren assignor to said Braselton. Pumping mechanism. 1,629,857; May 24.
- Brass, Edward E., Petersburg, Ill., assignor to Indiana Canning Machinery Company, Indianapolis, Ind. Pumping-winding machine. 1,647,368; Nov. 1.
- Brassier, Herman A., Chicago, W. H. Waggaman, and H. W. Easterwood, Chicago Heights, assignors to Victor Chemical Works, Chicago, Ill. Production of phosphoric acid. 1,622,082; Mar. 22.
- Braswell, Fred E., and S. T. Ray, Gadsden, Ariz. Trench-dredging machine. 1,633,511; June 21.
- Brater, August W., New York, N. Y. Bedclothes holder. 1,638,912; Aug. 16.
- Bratton, John N., and W. N. Bryant, Chase City, Va. Shook-sorting machine. 1,624,389; Apr. 12.
- Bratvold, Oscar N., Wayzata, Minn. Hydraulic drive. 1,616,252; Feb. 1.
- Brauchler, Charles A., Canton, Ohio. Forging gear blanks. 1,632,533; June 14.
- Brauer Bros. Mfg. Co. (See Brauer, Edward J., assignor.)
- Brauer, Edward J., University City, assignor to Brauer Bros. Mfg. Co., St. Louis, Mo. Golf bag. 1,648,162; Nov. 8.
- Brauer, Herman, and L. H. Cron, Graver, Okla. Rock bit breaker. 1,643,442; Sept. 27.
- Brauer, Walter, Seminole, Okla. Swivel circulating head. 1,629,650; May 24.
- Braugher, Floyd, Butler, Pa. Chair. Des. 73,249; Aug. 16.
- Braun, Aquila R., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Garment-pressing machine. 1,640,142; Aug. 23.
- Braun, Aquila R., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Electric clothes iron. 1,644,911; Oct. 10.
- Braun-Bruning & Co. (See Schröder, Edmund, assignor.)
- Braun, Carl, Canastota, N. Y. Recteptic sterilizer. 1,632,588; June 14.
- Braun, Carl F., Pasadena, Calif. Condenser, cooler, and absorber. 1,623,617; Apr. 5.
- Braun, Carl F., Pasadena, Calif. Absorption plant. 1,640,747; Aug. 30.
- Braun, Carl F., Pasadena, Calif. Progressive condenser. 1,640,748; Aug. 30.
- Braun, Carl F., San Francisco, Calif. Heat exchanger. 1,640,746; Aug. 30.
- Braun, Galus, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Air-cooling garment press. 1,647,769; Nov. 1.
- Braum, Georg, Gesellschaft mit beschränkter Haftung et al. (See Beil, A., and Meyer, assignors.)
- Braun, Hans, Zurich, Switzerland. Clamp. 1,649,015; Nov. 15.
- Braun, Philip N., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pressing-machine control. 1,637,729; Aug. 2.
- Braun, Philip N., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Pressing machine (sliding head). 1,647,501; Nov. 1.
- Braunger, Charles A. (See Larson, E. L., and Braunger.)
- Brauning, Karl A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Rim lock. 1,613,556; Jan. 4.
- Brauns, William, and W. J. Walker, Newark, N. J., assignors to Rogenband Mfg. Co., Inc. Loop or ring fastener for bags and the like. 1,636,121; July 19.
- Braunsdorf, Otto. (See Nawiasky, P., Braunsdorf, and Holzapfel.)
- Braunstein, Julius, Bronx, N. Y., assignor to Premier Cold Saving Device Corporation. Water-cooled grate. 1,617,197; Feb. 8.
- Braunstein, Simon, Brooklyn, N. Y. Knitted blouse. Des. 72,591; May 10.
- Braus, Leon, New York, N. Y. Sofa. Des. 73,825; Nov. 15.
- Brautigam, Harold S., Brackenridge, Pa., assignor to Allegheny Steel Company. Journal-box lid. 1,650,688; Nov. 29.
- Brautigam, John M., and M. C. Bright, Indianapolis, Ind. Sealsal Ring minnow trap. 1,658,238; Aug. 9.
- Brawner Piston Ring Manufacturing Company. (See Brawner, George H., assignor.)
- Brawner, George H., assignor to Brawner Piston Ring Manufacturing Company, Dallas, Tex. Piston. 1,618,805; Feb. 22.
- Bray, Albert, Los Angeles, Calif. Reversible ice-cream can and the like. 1,634,569; July 5.
- Bray, Fred C., Moncton, New Brunswick, Canada. Composition for cleaning brushes and the like. 1,635,202; July 12.
- Bray, Glessie, guardian. (See Bray, Mark.)
- Bray-Hurd Process Company. (See Hurd, Earl, assignor.)
- Bray, Mark G., guardian of said Mark Bray, mental incompetent, assignor of one-half to J. C. Howard, Nevada, Mo. Steering gear. 1,638,318; Aug. 9.
- Bray, Norman C., Portland, Oreg. Coupling sleeve for dredging pipe. 1,628,302; May 10.
- Bray, Norris E., Kimball, S. Dak. Grain door for freight cars. 1,634,015; June 28.
- Bray, Norris E., Argyle, Wis. Anchoring stake. 1,635,923; July 12.
- Bray, Patrick H., (See Green, Henry M., assignor.)
- Brazell, Fred W., and O. W. Kansas City, Mo. Weather strip and guide. 1,619,915; Mar. 8.
- Brazell, Otis W., (See Brazell, Fred W. and O. W.)
- Brazzola, Victorio, Buenos Aires, Argentina. Locomotive using crude fuel oil. 1,653,798; Dec. 27.
- Breccinski, Karl, Mauston, Wis. Clevis. 1,632,877; June 21.
- Breaker, Harry O., Winthrop, Mass. Electric furnace. 1,636,041; July 19.
- Breaux, Aline O., New Iberia, La. Bedpan. 1,632,021; June 14.
- Brecher, Emil, and R. Fugmann, Guben, Germany. Blowing machine for the manufacture of felts. 1,649,335; Nov. 15.
- Brecht, Gus V., Butchers' Supply Company. (See Deacon, Edward F., assignor.)
- Brechtbill, Guy H., assignor to Central Foundry Company, Marshalltown, Iowa. Stock fountain. 1,650,489; Nov. 22.
- Breck Engineering Company. (See Childs, Gustav G., assignor.)
- Brecknell, Munro & Rogers Limited. (See Dolman, Henry J., assignor.)
- Brecknell, William H., Weston-super-Mare, England. Locking device for cycle and similar lamp brackets. 1,642,907; Sept. 13.
- Breckon, William A., Lee Township, Allegan County, Mich. Packing device. 1,631,004; May 31.
- Breckon, William A., Lee Township, Allegan County, Mich. Fruit packing basket. 1,631,005; May 31.
- Bredar, Joseph L., Rock Island, Ill. Shim. 1,644,412; Oct. 4.
- Bredemeier, Henry E., Kenmore, assignor to Schreiber Products Corporation, Buffalo, N. Y. Labeling containers. 1,648,442; Nov. 15.
- Bredig, Georg, and E. Elld, Karlsruhe, assignors to the Firm of Rudolph Koepf & Co., Oestrich-on-the-Rhine, Germany. Production of hydrocyanic acid. 1,627,144; May 3.
- Bredig, Georg, and Egon Elld, Karlsruhe, Baden, Germany. Production of hydrocyanic acid. 1,634,735; July 5.
- Bredow, Robert A., Los Angeles, Calif. Hat block. 1,644,976; Oct. 11.
- Bredt, Charles E., Mahanoy City, Pa. Clinical thermometer. 1,637,760; Aug. 2.
- Bredit, Otto P. C., Allentown, Pa., assignor to Trojan Refining Company, New York, N. Y. Treatment of formates of metals of the alkali-earth group. 1,622,991; Mar. 29.

- Bree, Heller O., Auckland, New Zealand. Switching and starter apparatus of electric motors. 1,632,534; June 14.
- Bree, Heller O., Auckland, New Zealand. Starting induction motors and apparatus therefor. 1,637,292; July 26.
- Bree, Keith, Los Angeles, Calif. Floating compass. 1,614,228; Jan. 11.
- Breed, Ralph S., Lynn, Mass. Golf-tee holder. 1,627,145; May 3.
- Breeden, Alfred J., Grinnell, Iowa. Lawn sweeper. 1,615,928; Feb. 1.
- Breeden, Carl L. (See Ireland, Harold W. F., assignor.)
- Breeden, Paul L. (See Breeden, Sam G. and P. L.)
- Breeden, Sam G. and P. L., Memphis, Tenn. Battery and connector. 1,632,535; June 14.
- Breene, Harry H., Tulsa, Okla. Well-sealing device. 1,632,271; June 14.
- Breer, Carl, Detroit, Mich. Internal-combustion-engine manifold. 1,641,619; Sept. 6.
- Brees, Dudley C., Broughton, Kans. Wiper. 1,615,612; Jan. 25.
- Breese, James L., jr., Chicago, Ill. Oil pilot light. 1,641,250; Sept. 6.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Furnace. 1,627,591; May 10.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Removing soil. 1,629,643; May 17.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Automatic draft regulator. 1,628,644; May 17.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Controlling the combustion of hydrocarbons. 1,629,253; May 17.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Heating device. 1,633,065; June 21.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Oil-burning furnace and thermostatic control therefor. 1,633,066; June 21.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Oil-burning furnace and ignition means therefor. 1,633,567; June 28.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Thermostatic control for domestic and hot-water heaters. 1,633,759; June 28.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Isothermal combustion control for oil-burning heaters. 1,634,448; July 5.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Combustion. 1,634,533; July 5.
- Brégeat Corporation of America. (See Brégeat, Jean H., assignor.)
- Brégeat Corporation of America, The. (See Runge, Walter, assignor.)
- Brégeat, Jean H., Paris, France, assignor to Brégeat Corporation of America, Wilmington, Del. Recovery of camphor and naphthalene contained in gaseous mixtures. 1,613,218; Jan. 4.
- Brégeat, Jean H., Paris, France, assignor to Brégeat Corporation of America, Wilmington, Del. Recovery of volatile organic solids. 1,613,219; Jan. 4.
- Bregman, Harry, Lorain, Ohio, assignor to The Steel Stamping Company. Toy pistol. 1,619,184; Mar. 1.
- Bréguet, Louis G. and P. A., Geneva, Switzerland. Wire-drawing bench. 1,646,896; Oct. 25.
- Bréguet, Paul A. (See Bréguet, Louis G. and P. A.)
- Breider, William, Manville, N. J. Scraper frame for rubber refiners. 1,641,959; Sept. 13.
- Breil, Wilhelm, Essen-Bredney, Germany. Shaft lining. 1,618,166; Feb. 22.
- Brell, Wilhelm, Essen-Bredney, Germany. Tubbing. 1,618,973; Mar. 1.
- Breisch, Edgar W., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical connector. 1,633,974; June 28.
- Breisch, Edgar W., Edgewood Park, and L. R. Golladay, East Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Variable condenser. 1,640,561; Aug. 30.
- Breisch, Edgar W., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer connection for hot cathode rectifiers. 1,632,557; Dec. 13.
- Breitenstein, Albert F., assignor to The Geometric Tool Company, New Haven, Conn. Self-opening die head. 1,639,719; Aug. 23.
- Breitenstein, Albert F., and E. A. Bartelt, assignors to The Geometric Tool Co., New Haven, Conn. Nonrotary self-opening die head. 1,643,832; Sept. 27.
- Breiting, Ernst, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Cash register. 1,649,443; Nov. 15.
- Breland, Eugene F. J., Paris, France. Controlling device for marine engines. 1,625,978; Apr. 26.
- Breland, Eugene F. J., Paris, France. Automatic governor for marine engines. 1,643,574; Sept. 27.
- Bremer, Eric M., Glenville, Minn. Attachment for gas-engine-cooling systems. 1,626,448; Apr. 26.
- Bremer, Francis D. H., assignor to The English Electric Company Limited, London, England. Blow-out arrangement for electric switches. 1,642,227; Sept. 13.
- Bremer, Frederick G., assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,646,473; Oct. 25.
- Bremer, Harry A., Chicago, Ill. Vibration absorber for radio tubes. 1,616,176; Feb. 1.
- Bremer, Harry A., Chicago, Ill. Radio condenser coupling. 1,632,878; June 21.
- Bremner, Maurice D. K., Chicago, Ill. Protective envelope for garments. 1,652,269; Dec. 13.
- Bren, Ernest T., New Rochelle, assignor to Herring-Hall-Martin Safe Company, New York, N. Y. Chute. 1,632,536; June 14.
- Brenco Corporation. (See Davis, Rex E., assignor.)
- Brendel, Fred G. (See Olinger, T., and Brendel.)
- Breneman, Chas. W., Company, The. (See Stratman, Joseph W., assignor.)
- Brenk, Ernest T., Chicago, Ill. Socket. 1,649,609; Oct. 25.
- Brenkert, Joseph W., San Diego, Calif. Vehicle direction and stop signaling means. 1,649,887; Nov. 22.
- Brenkert, Joseph W. and K. Highland Park, Mich. Burner or carbon holder. 1,613,078; Jan. 4.
- Brenkert, Karl. (See Brenkert, Joseph W. and K.)
- Brennan, Charles M., New Haven, Conn. Bottle decapper. 1,650,597; Nov. 28.
- Brennan, John P., Cleveland, Ohio. Doorcheck. 1,612,904; Jan. 4.
- Brennan, Joseph L., New York, N. Y. Snow removing and loading plow. 1,646,638; Oct. 25.
- Brenne, Arild M., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,620,630; Mar. 15.
- Brenne, Arild M., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,637,070; July 26.
- Brenne, Arild M., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,640,066; Aug. 23.
- Brenne, Louis, assignor to Brenneis Manufacturing Company, Oxnard, Calif. Disk harrow. 1,620,066; Mar. 8.
- Brenneis, Louis, assignor to Brenneis Manufacturing Company, Oxnard, Calif. Disk harrow. 1,621,622; Mar. 22.
- Brenneis, Louis, Oxnard, Calif., assignor to Brenneis Manufacturing Company. Disk harrow. 1,649,336; Nov. 15.
- Brenneis Manufacturing Company. (See Brenneis, Louis, assignor.)
- Brennen, Charles H., Landsdowne, Pa. Adjustable window-frame stile. 1,622,022; Mar. 22.
- Brenner, Ernest, et al. (See Pfister, John R., assignor.)
- Brenner, Frank A., assignor to The Studebaker Corporation, South Bend, Ind. Vehicle closure. 1,617,208; Feb. 8.
- Brenner, Ralph F., assignor to H. C. Fry Glass Company, Rochester, Pa. Heat-resisting glass. 1,623,301; Apr. 5.
- Brent, James A., Kalispell, Mont. Automobile body. Des. 72,813; June 14.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Seaming machine. 1,639,552; Aug. 16.
- Brenzinger, Julius, Fairfield, and P. H. Lange, assignors to The Max Ams Machine Company, Bridgeport, Conn. Heading machine and body-conveying means. 1,625,639; Apr. 19.
- Bresch, George V., Middletown, assignor to The Borden Company, New York, N. Y. Web feeding and cutting mechanism. 1,618,167; Feb. 22.
- Breslau, Joseph, assignor to Compagnie de l'Azote et des Fertilisants S. A., Geneva, Switzerland. Manufacture of alkali-nitrogen fertilizers having urea as their base. 1,618,266; Feb. 22.
- Breslau, Joseph, assignor to Compagnie de l'Azote et des Fertilisants S. A., Geneva, Switzerland. Removing the dust from calcium cyanamide and deodorizing the same. 1,619,185; Mar. 1.
- Breslau, Joseph, and C. Goudet, assignors to Société d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland. Manufacture of urea from cyanamide. 1,630,050; Mar. 24.
- Breslau, Joseph, and C. Goudet, assignors to Société d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland. Manufacture from cyanamide of manures containing soluble organic nitrogen. 1,652,753; Dec. 13.
- Breslin, Margaret, Watertown, N. Y. Baby harness. 1,639,424; Aug. 16.
- Bresnold V., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching heels to shoes. 1,615,258; Jan. 25.
- Bressi, Vincent. (See George, Abram N., and Bressi.)
- Bressler, Robert E., assignor to Western Wheeled Scraper Company, Aurora, Ill. Grader car. 1,622,761; Mar. 29.
- Bressler, Robert E., assignor to Western Wheeled Scraper Company, Aurora, Ill. Machine for treating earthy material. 1,622,762; Mar. 29.
- Bretaud, Joseph V. (See Ahlgren, J. M., and Bretaud.)
- Breton, Amedée, St. Louis de Nedelec, Quebec, Canada. Metal cutter. 1,622,487; Mar. 29.
- Bretos y Claveria, Manuel, Santiago de Cuba, Cuba. Awning. 1,635,608; July 12.
- Bretschneider, Max, assignor to Vogtländische Maschinenfabrik (vormals J. C. & H. Dietrich) Aktiengesellschaft, Plauen, Germany. Embroidery machine. 1,652,843; Dec. 13.
- Brett, William P., Decatur, Ill. Pumping mechanism. 1,624,527; Apr. 12.
- Brett, William P., Decatur, Ill. Deep-well pumping mechanism. 1,624,577; Apr. 12.

- Bretz, Robert B. (See Schroeder, Arthur C., assignor.)
- Breuer, Vladimir, and P. Leschnik, New York, N. Y. Automobile bumper. 1,615,565; Jan. 25.
- Breuls, Stanley A., Sutton West, Ontario, Canada. Storage battery. 1,639,922; Aug. 23.
- Breusch, Adolf, Pforzheim, Germany. Hand-operated roller stamp. 1,648,534; Nov. 8.
- Brewer, Alca, Wentworth, Mo. Spring tire. 1,618,168; Feb. 22.
- Brewer, Alden R., Spokane, Wash. Machine tool. 1,634,534; July 5.
- Brewer, Charles A., Noroton Heights, Conn. Sprinkler. 1,612,964; Jan. 4.
- Brewer, Charles A., Noroton Heights, Conn. Soil-vibrating apparatus. 1,614,273; Jan. 11.
- Brewer, Charles A., Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Generating and impregnating steam with a chemical constituent. 1,633,568; June 28.
- Brewer, Charles A., Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Mangle. 1,649,337; Nov. 15.
- Brewer, Charles A., Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Electric iron. 1,649,506; Nov. 15.
- Brewer, Charles A., Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Sadiron. 1,649,507; Nov. 15.
- Brewer, Chas. A., & Sons. (See Brewer, Kenneth E., assignor.)
- Brewer, Charles B., College Park, Md. Protecting financial securities. 1,615,566; Jan. 25.
- Brewer, Clarence T. (See Traue, R., and Brewer.)
- Brewer, Francis A., Eastwood, N. Y. Mixing device for internal-combustion engine. 1,622,701; Mar. 29.
- Brewer, Frederick C., Los Angeles, Calif. Bath mat and the like. 1,613,158; Jan. 4.
- Brewer, G. M., Sylva, Kans. Clamping gear pulley. 1,648,106; Nov. 8.
- Brewer, Harold D., Oklahoma City, Okla. Golf game. 1,621,057; Mar. 15.
- Brewer, John R., Taylor, Tex. Door or window screen. 1,615,739; Jan. 25.
- Brewer, Joseph, New York, N. Y. Key holder. 1,616,302; Feb. 1.
- Brewer, Kenneth E., assignor to Chas. A. Brewer & Sons, Chicago, Ill. Game counter. 1,613,575; Jan. 4.
- Brewer, Robert W. A., Philadelphia, Pa. Fuel manifold. 1,641,527; Sept. 6.
- Brewer, Robert W. A., Philadelphia, assignor to H. F. Piteain, Bryn Athyn, Pa. Construction and mounting of a valve-sealing mechanism for internal-combustion engines. 1,637,799; Aug. 2.
- Brewer-Titchener Corporation, The. (See Miller, Harold G., assignor.)
- Brewlin, Thomas, Fife, Scotland. Sound-reproducing instrument. 1,633,760; June 28.
- Brewster, Ellis W., assignor to Plymouth Cordage Company, Plymouth, Mass. Marking device for rope. 1,635,739; July 12.
- Brewster, Frank G., White River Junction, Vt. Electromagnetic indicator. 1,638,614; Aug. 9.
- Brewster, Morris B., Chicago, Ill. Quickly-detachable electric coupling. 1,641,443; Sept. 6.
- Brewster, Oswald C. (See Paulus, M. G., and Brewster.)
- Brewster, Oswald C., Casper, Wyo., assignor to The Sharples Specialty Company. Refining lubricating oils. 1,649,095; Nov. 15.
- Brewster, Oswald C., Casper, Wyo., assignor to The Sharples Specialty Company. Centrifugal bowl separator. 1,649,096; Nov. 15.
- Brewster, Percy D., East Orange, N. J., assignor to Wyko Projector Corporation. Film projector. 1,624,156; Apr. 12.
- Brewster, Ruby T., New York, N. Y. Flacon. Des. 72,698; May 24.
- Brewster, Ruby T., New York, N. Y. Box or similar container. Des. 72,769; May 31.
- Brewster, Ruby T., New York, N. Y. Atomizer. Des. 72,887; June 21.
- Brewster, Ruby T., New York, N. Y. Atomizer. Des. 72,888; June 21.
- Brewster, Ruby T., New York, N. Y. Bottle or similar container. Des. 72,889; June 21.
- Brewster, Ruby T., New York, N. Y. Vanity case. Des. 73,024; July 12.
- Brewster, Ruby T., New York, N. Y. Vanity case. Des. 73,025; July 12.
- Brewster, Ruby T., New York, N. Y. Flacon. Des. 73,250; Aug. 16.
- Brewster, Ruby T., New York, N. Y. Bottle or similar perfume container. Des. 73,278; Aug. 23.
- Brewster, William, New York, N. Y. Retainer for automobile cushions. 1,619,916; Mar. 8.
- Brewster, William, New York, N. Y. Glass partition for closed automobile bodies. 1,626,074; Apr. 26.
- Brewster, William D., Syracuse, assignor to National Brake Company, Inc., Buffalo, N. Y. Car-brake-operating mechanism. 1,614,419; Jan. 11.
- Bry, Charles J., Park Falls, Wis. Apparatus for felling trees and the like. 1,642,668; Sept. 20.
- Bry, Clarence F., Philadelphia, Pa. Piano construction. 1,642,356; Sept. 13.
- Breyer, Frank G., Palmerton, and C. W. Farber, Rowmantown, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Compounded rubber. 1,649,782; Nov. 15.
- Breyer, Robert, assignor to Phoenix Hosley Company, Milwaukee, Wis. Stocking. Des. 72,143; Mar. 8.
- Breyer, Theodore V., New Philadelphia, Ohio. Telephone no. rack and pencil holder. 1,631,717; June 7.
- Breyler, Rupert, Painesville, Ohio. Car bumper. 1,621,708; Mar. 22.
- Breyler, Rupert, Painesville, Ohio. Stop for rolling stock. 1,648,012; Nov. 8.
- Bricca, Tobias J., and J. C. Favilla, San Francisco, Calif. Combination automobile trunk and table. 1,619,186; May 1.
- Brice, Henry E., New York, N. Y. Coupling. 1,629,375; May 17.
- Brice, Norman E., Brooklyn, and H. G. Snyder, New York, assignor to The Permutit Company, New York, N. Y. Water softener. 1,620,717; Mar. 15.
- Brick, Perry A., assignor to The National Grave Vault Co., Galion, Ohio. Self-dumping truck. 1,633,515; June 21.
- Brick, Perry A., assignor to The National Grave Vault Co., Galion, Ohio. Power-elevated dumping truck. 1,636,621; July 19.
- Bridenbaugh, Elmer H. (See Flintham, W. C., and Bridenbaugh.)
- Brides, Thomas J. (See Raiche, P. A., Dowling, and Brides.)
- Bridge, Adam E. (See Shartle, C. W., and Bridge.)
- Bridge, Herbert H., Detroit, Mich. Priming device. 1,636,897; July 25.
- Bridge, Walter G., Newton, assignor to C. E. Parkhurst, Somerville, Mass. Articulator. 1,644,106; Oct. 4.
- Bridge, Walter G., Newton, and W. A. Pervier, Watertown, assignors to Dr. C. E. Parkhurst, Somerville, Mass. Muffle furnace. 1,644,107; Oct. 4.
- Bridgeport Brass Company. (See Brown, G. A., and Denning, assignors.)
- Bridgeport Brass Company. (See Clark, Francis M., assignor.)
- Bridgeport Brass Company. (See Oakley, Erastus G., assignor.)
- Bridgeport Brass Company. (See Robinson, Thomas T., assignor.)
- Bridgeport Hardware Manufacturing Corporation, The. (See Hobbs, Willis F., assignor.)
- Bridgeport Hardware Manufacturing Corporation, The. (See Hobbs, W. F., and Anderson, assignors.)
- Bridgewater Machine Company, The. (See Mason, Freeman D., assignor.)
- Bridges, S. A. E. (See Nesmith, Samuel D., assignor.)
- Bridges, Frank, Harrow, H. Firman, Harrow Weald, H. W. Tisdale, North Wembley, and B. D. W. Hoskins, Wealdstone, assignors to W. R. Codling, London, England. Printing machine. 1,644,232; Oct. 4.
- Bridges, Hazel M., assignor to Silex Company, Malden, Mass. Drainer. 1,634,705; July 5.
- Bridges, Walter J., Two Rivers, Wis. Air-cleansing humidifier. 1,640,641; Aug. 30.
- Bridgford, Archie G., and S. B. Bolton, Aledo, Ill.; said S. B. Bolton assignor to said A. G. Bridgford. Manifold heater for internal-combustion engines. 1,641,728; Sept. 12.
- Bridgman, Harry, New York, N. Y., assignor to Stokes & Smith Company, Philadelphia, Pa. Box-ty-applying machine. 1,651,249; Nov. 29.
- Bridgman & Rubin, Inc. (See Smith, Harry B., assignor.)
- Bridgwater, Ernest R., Wilmington, Del., and D. H. Powers, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Age-resisting rubber compound and making same. 1,628,528; May 10.
- Bridgewater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,647,859; Nov. 1.
- Bried, Julien A. (See Zinn, A. O., and Bried.)
- Bried, Julien A., Oakland, Calif. Foot-propelled juvenile automobile. 1,618,507; Feb. 22.
- Bried, Julien A., Oakland, Calif. Child's foot-power automobile. 1,634,486; July 5.
- Bried, Julien A., Oakland, Calif., assignor to H. C. White Company, North Bennington, Vt. Velocipede brake. 1,635,109; July 5.
- Briegleb, William, Lindenhurst, N. Y., assignor, by mesne assignments, to Seal and Control Corporation. Compressor. 1,614,274; Jan. 11.
- Bricloff, Joseph, Brooklyn, assignor to Sun-Ray Lighting Products, Inc., New York, N. Y. Desk lamp. Des. 74,093; Dec. 20.
- Briere, Joseph A., Lake Linden, Mich. Reverse-signal-circuit closer for motor vehicles. 1,644,008; Oct. 4.
- Briden, Arthur, Tuscaloosa, Ala. Cultivator. 1,622,488; Mar. 29.
- Bricel, Charles E., Cincinnati, Ohio. Price tag and tag holder. 1,632,537; June 14.
- Briegle, Daniel, Bloomdale, Ohio. Loading device. 1,621,151; Mar. 15.
- Briegs, Arle R., Denver, Colo. Vacuum preserver. 1,635,815; July 12.
- Bright, Arthur J., Syracuse, assignor, by mesne assignments, to American Cable Company, Inc., New York, N. Y. Attachment for wire rope and producing the same. 1,643,110; Sept. 20.

- Briggs, Arthur J., Syracuse, N. Y., assignor to National Carbon Company, Inc. Seal for galvanic cells. 1,650,319; Nov. 22.
- Briggs, Arthur M., Andrade, Calif. Toy horse or novelty. 1,627,426; May 3.
- Briggs, C. A., et al. (See McCulloch, Stewart B., assignor.)
- Briggs, Clyde A., Millwood, Oreg. Saw tooth gauge. 1,626,029; Apr. 26.
- Briggs, Frank C., trustee. (See Randall, Purdy M., assignor.)
- Briggs, George W., Nanuet, N. Y. Pliers. 1,619,400; Mar. 1.
- Briggs, Guy O., Cleveland, Ohio. Sash fastener. 1,634,350; July 5.
- Briggs, Luther R., Hersman, Ill. Eyeglasses. 1,647,124; Nov. 1.
- Briggs Manufacturing Company. (See Lehman, Walter J., assignor.)
- Briggs Manufacturing Company. (See Lundberg, Everett E., assignor.)
- Briggs Manufacturing Company. (See Maise, Herman C., assignor.)
- Briggs Manufacturing Company. (See Marshall, William, assignor.)
- Briggs Manufacturing Company. (See Marshall, W., and Kiehn, assignors.)
- Briggs Manufacturing Company. (See Westrope, Fred J., assignor.)
- Briggs Manufacturing Company. (See Williams, Clifford J., assignor.)
- Briggs, Orum T., Indiana, Pa. Package card. 1,629,435; May 17.
- Briggs, Southwick W., Glenmont, Md. Tractor scoop. 1,620,083; Mar. 22.
- Briggs, Southwick W., Glenmont, Md. Dump-wagon-gate closer. 1,622,084; Mar. 22.
- Briggs, Southwick W., Glenmont, Md. Hydraulic scoop. 1,622,085; Mar. 22.
- Briggs, Southwick W., Glenmont, Md. Oil-diluent separator. 1,635,319; Aug. 9.
- Briggs, Southwick W., Glenmont, Md. Diluent separator. 1,646,724; Oct. 25.
- Briggs, Stephen F., and E. N. Jacobi, assignors, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Oil gauge. 1,623,333; Apr. 5.
- Briggs & Stratton Corporation. (See Briggs, S. F., and Jacobi, assignors.)
- Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
- Briggs & Stratton Corporation. (See Mack, Perry E., assignor.)
- Briggs & Stratton Corporation. (See Zygmunt, Conrad, assignor.)
- Briggs, William N., Pittsfield, Mass., assignor to General Electric Company. Making molded articles. 1,631,668; June 7.
- Brigham, Cyril A., East Orange, N. J., assignor to Brandes Laboratories, Inc., Newark, N. J. Electro-magnetic sound reproducer. 1,620,631; Mar. 15.
- Brigham, Cyril A., East Orange, N. J., assignor to Brandes Laboratories, Inc., Newark, N. J. Sound-reproducing apparatus. 1,625,844; Apr. 26.
- Brigham, Cyril A., East Orange, assignor to Brandes Laboratories, Inc., Newark, N. J. Sound-reproducing apparatus. 1,638,320; Aug. 9.
- Brigham, Cyril A., and W. H. Gerns, East Orange, assignors to Brandes Laboratories, Inc., Newark, N. J. Electromagnetic driver. 1,645,553; Oct. 13.
- Brinck, Vernon T., Des Moines, Iowa. Control for sub-vacuum condition of periodically-fired boilers. 1,620,005; Mar. 8.
- Brighthouse, Thomas. (See Scanes, A. E. L., and Brighthouse.)
- Bright, C. Laco, et al. (See Jones, Leslie W., assignor.)
- Bright, George B., Co. (See Bright, G. B., and Cole, assignors.)
- Bright, George B., and R. E. Cole, assignors to George L. Bright, Co., Detroit, Mich. Ice-can carrier. 1,626,222; Apr. 26.
- Bright, John W., Grand Junction, Colo. Beet harvester and topping machine. 1,646,680; Oct. 25.
- Bright, Martin C. (See Brautigam, J. M., and Bright.)
- Bright, Martin C., Indianapolis, Ind. Reversible concealed locking apparatus. 1,653,034; Dec. 20.
- Bright, Martin C., Indianapolis, Ind., assignor to B. B. Carlin, Chicago, Ill. Venturi-vacuum fuel-control system. 1,628,529; May 10.
- Bright, Martin C., Indianapolis, Ind., assignor to B. B. Carlin, Chicago, Ill. Vacuum-controlled fuel-supply system. 1,636,496; July 19.
- Bright Star Battery Company. (See Keller, Frederick A., assignor.)
- Bright Star Battery Company. (See Sokolow, Samuel, assignor.)
- Brightman, William A., Sullivan, Ky. Extractor for automobiles. 1,644,509; Oct. 4.
- Brigman, William H., Orangeburg, S. C. Weight-changing device for top-roll-saddle mechanism. 1,613,557; Jan. 4.
- Brinker, Edward J. (See Gross, E., and Brinker.)
- Brill, J. G., Company, The. (See Adams, Walter S., assignor.)
- Brill, J. G., Company, The. (See Brooks, James A., assignor.)
- Brill, J. G., Company, The. (See Leonhauser, Henry A., assignor.)
- Brill, J. G., Company, The. (See Senter, Ralph T., assignor.)
- Brilliant Glass Products, Inc. (See Frothing, Stanley, assignor.)
- Brilliant, Morris R., Roxbury, Mass. Muffler. 1,637,516; Aug. 2.
- Brillion Iron Works. (See Ohlsen, Mark P., assignor.)
- Brillo Manufacturing Company. (See Field, Crosby, assignor.)
- Brionin, Léon N., and E. M. F. Fromy, Paris, France. Transmission by electric oscillations. 1,627,767; May 10.
- Brims, James A., Taringa, near Brisbane, Queensland, Australia. Combination dry and steam heating apparatus. 1,651,509; Dec. 6.
- Brinkerhoff, Francis M., Suffern, N. Y., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Safety coupling for articulated cars. 1,635,246; July 12.
- Brinkerhoff, Francis M., Suffern, N. Y., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Safety device for articulated cars. 1,635,247; July 12.
- Brinkerhoff, Francis M., Suffern, N. Y., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Articulated car. 1,642,869; Sept. 20.
- Brinkerhoff, Francis M., Suffern, N. Y., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Safety device for articulated cars. 1,645,983; Oct. 18.
- Brinkerhoff, Francis M., Suffern, N. Y., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Side bearing for articulated cars. 1,651,580; Dec. 6.
- Brindley, Scott J., Chicago, Ill. Carburetor. 1,644,233; Jan. 4.
- Bringman, John M., Butte, Mont. Spark plug. 1,616,779; Feb. 8.
- Brink, Carl A. (See Parks, E. F., Brink, and Taylor.)
- Brink, Dick, Platte, S. Dak. Cultivator. 1,613,079; Jan. 4.
- Brink, William, Henryetta, Okla. Method and apparatus for cracking oils. 1,652,344; Dec. 13.
- Brinker, Jesse E., assignor to Standard Oil Company, Whiting, Ind. Ornamented candle, and making same. 1,641,729; Sept. 6.
- Brinkerhoff, David D., Mancos, Colo. Portable fence. 1,613,340; Jan. 4.
- Brinkerhoff, Frederic H., Riverdale, N. J. Coin magazine. 1,625,979; Apr. 26.
- Brinkman, Fritz A., Humboldt, Kans. Clutch-release coupling. 1,652,345; Dec. 13.
- Brinkman, Louis G., Dayton, Ohio. Game apparatus. 1,625,980; Apr. 26.
- Brinkman, Louis H., Glen Ridge, N. J. Golf stick. 1,653,428; Dec. 20.
- Brinkmann, Otto, Astoria, N. Y. Floating advertising device. 1,648,934; Nov. 15.
- Brinkneider, Henry, Los Angeles, Calif. Hair curler and waver. 1,636,457; July 19.
- Brinser, Elizabeth E., Elizabethtown, Pa. Automatic pattern stab. 1,646,744; Oct. 25.
- Brintnall Manufacturing Company, The. (See Brintnall, Thomas M., assignor.)
- Brintnall, Thomas M., Oakland, Calif., assignor to The Brintnall Manufacturing Company. Lowering floor. 1,651,178; Nov. 23.
- Brinton, William C., Jr., Larkspur, assignor to The Greasometer Corporation, San Francisco, Calif. Grease cup. 1,644,234; Oct. 4.
- Brisbols, Odilon, Chicago, Ill. Engine starter. 1,621,102; Mar. 15.
- Brisbols, Odilon, Chicago, Ill. Engine starter. 1,653,338; Dec. 20.
- Brisbols, Odilon, Chicago, Ill. Engine starter. 1,653,616; Dec. 27.
- Brisbols, Odilon, Chicago, Ill. Magnetic starter. 1,653,617; Dec. 27.
- Brisbols, Odilon, Chicago, Ill. Magnetic engine starter. 1,653,618; Dec. 27.
- Briscose, Benjamin, et al., trustees. (See Ramage, Alexander, assignors.)
- Briscose, G. C. (See Byrns, Emmet L., assignor.)
- Briscose, Walter F., Trenton, N. J. Flexible coupling. 1,620,592; Mar. 8.
- Brislin, John, Brooklyn, N. Y. Fishing reel. 1,630,779; May 31.
- Brislin, John, Brooklyn, N. Y. Fishing reel. 1,631,790; May 31.
- Bristol Aeroplane Company Limited, The. (See Fedden, A. H. R., and Butler, assignors.)
- Bristol Company, The. (See Thompson, L., and Marshall, assignors.)
- Bristol, Cyrus J., assignor to Globe Machinery & Supply Company, Des Moines, Iowa. Water-heating attachment for hot-air furnaces. 1,649,660; Nov. 15.
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring and controlling instrument. 1,624,887; Apr. 12.
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Controlling instrument. 1,641,944; Sept. 6.
- British & Colonial Inventions Limited. (See Boonzaier, G. J., and Hartley, assignors.)
- British Dyestuffs Corporation Limited. (See Baddiley, J., Chorley, and Butler, assignors.)

- British Dyestuffs Corporation Limited. (See Baddley, J. Shepherson, Swann, Hill, and Lawrie, assignors.)
- British Dyestuffs Corporation Limited. (See Bunbury, Hugh M., assignor.)
- British Dyestuffs Corporation Limited. (See Crowshaw, C. J. T., and Naunton, assignors.)
- British Dyestuffs Corporation Limited. (See Fairbrother, T. H., and Renshaw, assignors.)
- British Dyestuffs Corporation Limited. (See Perkin, W. H., Eyle, and Mendoza, assignors.)
- British Dyestuffs Corporation Limited. (See Smith, Leo, assignor.)
- British Glues and Chemicals Limited. (See Ellenberger, Justus, assignor.)
- Eristol, Howard S., Newport, R. I. Top roll and covering same. 1,616,108; Feb. 1.
- Eristol, John S., Danbury, Conn. Driving belt. 1,632,589; June 14.
- Eristol, Raymond W. (See Weigle, Edmund, assignor.)
- Eristol, William H., Highland, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Molding fruit-juice extractors. 1,627,884; May 10.
- Bristow, Bruce A., Toronto, Ontario, Canada. Hydraulic power apparatus. 1,635,457; July 12.
- Bristow, Bruce A., assignor to one-third to W. A. Chamberlain and one-third to D. Z. Bristow, Toronto, Ontario, Canada. Game apparatus. 1,637,517; Aug. 2.
- Bristow, Charles, Christchurch, New Zealand. Paper-securing clip. 1,615,827; Feb. 1.
- Bristow, Dudley A., et al. (See Bristow, Bruce A., assignor.)
- Bristow, Francis G. (See Wright, H. C., and Bristow.)
- Bristow, John J. R., Tampa Shores, assignor to J. W. Beach, Tampa, Fla. Paint. 1,635,110; July 5.
- Britan, Harlan M., Ojus, Fla. Stove. 1,641,064; Aug. 30.
- Britt, Max, assignor to Swift & Company, Chicago, Ill. Smoking meat. 1,631,463; June 7.
- Brittain, George E., Lynn, Mass., assignor to L. H. Hariman, trustee. Shoe counter. 1,636,982; July 26.
- Brittain, Richard J., jr., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Gauge. 1,624,654; Apr. 12.
- Brightman, Ferdinand D., Brighton, Colo. Arithmetical game. 1,619,849; Mar. 8.
- Britton, Claude G., et al. (See Hale, William H., assignor.)
- Britton, George W., assignor to J. P. Steedman, Hamilton, Ontario, Canada. Scale-beam mechanism. 1,629,474; May 24.
- Brixey, Austin D., New York, N. Y., assignor to The Replitura Corporation. Framing device. 1,634,769; July 5.
- Brizendine, Olie, Attica, Kans. Lamp. 1,646,442; Oct. 25.
- Broad, William, Beaver Falls, assignor of three-fourths to H. E. McClain, Pittsburgh, Pa. Testing instrument. 1,619,699; Mar. 1.
- Broadfield, Ward H., assignor to The H. H. Miller Industries Company, Canton, Ohio. Engine. 1,625,880; Apr. 26.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding apparatus. 1,617,893; Feb. 15.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Company, Harrisburg, Pa. Paper-feeding apparatus. 1,624,912; Apr. 19.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Feeding mechanism for ruling machines and the like. 1,625,239; Apr. 19.
- Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Counting and indicating mechanism. 1,631,616; June 7.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Sheet-retarding means for sheet-feeding apparatus. 1,631,617; June 7.
- Broadmeyer, Albert, assignor to W. O. Hickok Mfg. Company, Harrisburg, Pa. Underlift. 1,631,618; June 7.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Sheet-feeding apparatus. 1,632,945; June 21.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Sheet-feed-control apparatus. 1,635,604; July 12.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-stop mechanism for ruling machines and the like. 1,636,983; July 26.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding apparatus. 1,637,019; July 26.
- Broadmeyer, Albert, assignor, to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Changing the direction of movement of sheets. 1,640,105; Aug. 23.
- Broadwood, Hilda, Mobile, Ala. Hearth broom. Des. 72,933; June 28.
- Broady, Harry W., New York, N. Y., and G. G. H. Rydberg, Appelvikens, assignors to Svenska Aktiebolaget Logge, Stockholm, Sweden. Pitot tube. 1,644,815; Oct. 11.
- Broberg, Ester, et al., administrators. (See Broberg, I., Eriksson, and Sjölin.)
- Broberg, Isidor. (See Ljungström, F., and Broberg.)
- Broberg, Isidor. (See Ljungström, F., Eriksson, and Broberg.)
- Broberg, Isidor, Lidington, assignor to Aktiebolaget Ljungströms Ångturbin, Lidings-Brevik, Sweden. Locomotive having condenser. 1,613,080; Jan. 4.
- Broberg, Isidor, deceased, Lidings-Brevik, by G. L. A. Rams, and E. Broberg, administrators, Stockholm, E. O. Eriksson, Lidings-Brevik, and B. Sjölin, Trellhattan, assignors to Aktiebolaget Ljungströms Ångturbin, Lidings-Brevik, Sweden. Condenser for locomotives. 1,650,259; Nov. 22.
- Brobst, Ulysses S. G., Whittier, Calif. Reflector. 1,617,894; Feb. 15.
- Broch, Albert T., New York, N. Y. Gas heater. 1,618,169; Feb. 22.
- Brochu, Frederick G., Newark, N. J. Lifting device for vehicles. 1,650,182; Nov. 22.
- Brock, John J., Brockton, Mass. Securing device for automobile license plates. 1,616,437; Feb. 8.
- Brock, Nicholas V. D., Santa Ana, Calif. Drawer pull. Des. 71,901; Jan. 25.
- Brock, Norman H., assignor to Brock & Weymouth, Incorporated, Philadelphia, Pa. Conversion of conical projections to orthographic projections. 1,612,800; Jan. 4.
- Brock, Walter A., Jersey City, N. J., assignor to The Engraving Corporation. Engraving machine. 1,617,570; Feb. 15.
- Brock & Weymouth, Incorporated. (See Brock, Norman H., assignor.)
- Brock & Weymouth, Incorporated. (See Holst, Lodewyk D., assignor.)
- Brock, William R., Shelton, assignor to M & P Corset Company, Derby, Conn. Corset. 1,641,195; Sept. 13.
- Brock, William S. (See Reedy, J. H., and Brock.)
- Brockel, Thomas W., and P. F. Ebling, Milwaukee, Wis. Child's shoe. 1,632,430; June 14.
- Brockway, Carl P. (See Braselton, C. H., and Brockway.)
- Brockway, Carl P., Toledo, Ohio. Air-cooled engine. 1,641,960; Sept. 13.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Two-cycle rotary plant. 1,625,790; Apr. 26.
- Brockway, Carl P., Toledo, Ohio, assignor to The Arcutus Radio Co., Toledo, Ohio. Variable condenser. 1,624,930; July 5.
- Brockway, Carl P., Toledo, Ohio, and E. R. Huntley, Milwaukee, Wis., assignors to Industrial Research Corporation, Toledo, Ohio. Liquid-feed feeding and carbureting apparatus. 1,622,413; Mar. 29.
- Brockway, Murillo M., Burbank, Calif. Four-wheel rear-drive chassis. 1,650,006; Nov. 22.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,482; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,483; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,484; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,485; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,486; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,487; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,488; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,489; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,490; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,491; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,492; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,493; Sept. 20.
- Brod, Albert, New York, N. Y. Brooch or similar article. Des. 73,494; Sept. 20.
- Brodebeck, A. R. (See Birely, Jesse C., assignor.)
- Broden, Edwin H., Swissvale, J. A. Felerabend, Wilkinsburg, and H. B. Trott, McKeesport, Pa. Bundling machine. 1,649,050; Nov. 15.
- Broderick, Ernest N., Detroit, Mich. Tire pump. 1,612,853; Jan. 4.
- Broderick, Ernest N., Detroit, Mich. Piston ring. 1,635,530; July 12.
- Broderick, John K., Kirkwood, Mo. Camera. 1,651,369; Dec. 6.
- Broderick, John K., Kirkwood, Mo. Reversible cuff. 1,641,370; Dec. 6.
- Broderick, Joseph F., Springdale, Conn. Support for radiators and the like. 1,620,632; Mar. 15.
- Broderickson-Raymond Co. (See Raymond, Lambert L., assignor.)
- Brodeur, Arthur J. (See Kinsler, George B., assignor.)
- Brodie, George A., Goldendale, Wash. Cow-milking apparatus. 1,644,413; Oct. 4.
- Brodie, Ralph N., Oakland, and A. J. Granberg, Berkeley, Calif. Liquid meter. 1,644,868; Oct. 11.
- Brodin, Arvid, Los Angeles, Calif. Hat-crown shaper. 1,649,338; Nov. 15.
- Brody, Benn D., Sioux City, Iowa. Safety device for clutches. 1,615,005; Jan. 18.
- Brodrick, Leo H., New York, N. Y. Container. 1,652,754; Dec. 13.

- Brodrick, Leo H., New York, N. Y. Container. 1,652,755; Dec. 13.
- Brody, Maurice D., Chicago, Ill. Felling machine. 1,622,414; Mar. 29.
- Broe, Edgar P. (See Bailey, R. S., and Broe.)
- Brogan, Charles J. (See Cain, L. H., and Brogan.)
- Brogan, John H. (See Cain, L. H., and Brogan.)
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe. 1,613,681; Jan. 11.
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for separating lasts and shoes. 1,634,487; July 5.
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoe soles. 1,639,720; Aug. 23.
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,639,721; Aug. 23.
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-beveling machine. 1,642,719; Sept. 20.
- Brogan, M., Santa Monica, Calif., assignor to Brogdex Company, Winter Haven, Fla. Composition for treating fruit and the like. 1,628,945; May 17.
- Brogden, Ernest M., assignor to Brogdex Company, Winter Haven, Fla. Method and apparatus for treating fresh fruit. 1,641,112; Aug. 30.
- Brogden, Joah, Melrose Park, Pa. Vise. 1,632,538; June 14.
- Brogden, Joah, Melrose Park, assignor to David Lupton's Sons Company, Philadelphia, Pa. Metallic window. 1,631,949; June 7.
- Brogden, Joah, Melrose Park, assignor to David Lupton's Sons Company, Philadelphia, Pa. Metallic window. 1,640,006; Oct. 18.
- Brogdex Company. (See Brogden, Ernest M., assignor.)
- Brogdex Company. (See Jamieson, Charles M., assignor.)
- Brogdon, Kenneth M., and C. L. Hower, Smackover, Ark. Deep-well emergency valve. 1,648,107; Nov. 8.
- Broger, Johann, assignor to Aktiengesellschaft Brown, Boveri & Company, Baden, Switzerland. Apparatus for cooling metal vapor rectifiers. 1,653,597; Dec. 20.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Feed-water-temperature regulator. 1,612,654; Jan. 4.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Superheater baffle. 1,633,975; June 28.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Apparatus for superheating steam. 1,648,634; Nov. 8.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Boiler with superheaters. 1,650,184; Nov. 22.
- Broido, Benjamin N., assignor to The Superheater Company, New York, N. Y. Boiler construction. 1,640,178; Aug. 23.
- Brokaw, Andrew I. (See Noelting, W. H., and Brokaw.)
- Broking, Ada L., West New York, N. Y. Clothespin. 1,638,979; Aug. 16.
- Broman, Charles E., Grand Rapids, Mich., assignor, by mesne assignments, to Add-index Corporation, California. Calculating machine. 1,639,923; Aug. 23.
- Bromberg, Harry. (See Halikman, Eli, assignor.)
- Bromberg, Samuel, assignor of twenty-five per cent to M. M. Kahn, Brooklyn, N. Y. Cut-out and fuse box. 1,613,437; Jan. 4.
- Bromley, Josiah H., Leicester, England. Apparatus for use in attaching soles to the lasted uppers of boots and shoes. 1,654,408; Dec. 27; Aug. 23.
- Brommer, John, Richmond Hill, N. Y. Cartridge for grease guns. 1,636,407; July 19.
- Bronander, Wilhelm B., Montclair, N. J. Two-stroke-cycle opposed-piston internal-combustion engine. 1,614,867; Jan. 18.
- Bronander, Wilhelm B., Montclair, N. J. Internal-combustion engine. 1,649,806; Nov. 22.
- Bronander, Wilhelm B., Montclair, N. J., assignor to American Machine & Foundry Company. Paper-feeding roll. 1,626,386; Apr. 26.
- Bronander, Wilhelm B., Montclair, N. J., assignor to International Cigar Machinery Company. Device for feeding scrap tobacco. 1,637,800; Aug. 2.
- Bronander, Wilhelm B., Montclair, N. J., assignor to Standard Tobacco Stemmer Company. Tobacco-stemming mechanism. 1,637,801; Aug. 2.
- Bronander, Wilhelm B., Montclair, N. J., assignor to American Machine & Foundry Company. Cigarette-machine cut-off. 1,637,803; Aug. 2.
- Bronander, Wilhelm B., Montclair, N. J., assignor to American Machine & Foundry Company. Feeding device for cigarette-packaging machines. 1,647,265; Nov. 1.
- Bronander, Wilhelm B., Montclair, and J. W. Leary, Fairfield, N. J., assignors to American Machine & Foundry Company. Package and making the same. 1,637,802; Aug. 2.
- Bronco Buster Pipe Company, The. (See Homan, Walter A., assignor.)
- Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Dust-cap construction. 1,627,374; May 3.
- Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Quick detachable cap. 1,637,332; Aug. 2.
- Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Nut. 1,652,235; Dec. 13.
- Bronson, Adelbert E., and E. F. Tobold, assignors to The Dill Manufacturing Company, Cleveland, Ohio. Armored steering wheel. 1,652,234; Dec. 13.
- Bronsther, Henry, Brooklyn, N. Y. Beverage set stand. Decs. 71,822; Jan. 11.
- Bronstein, Edward L., St. Paul, Minn. Attachment for bed springs. 1,619,187; Mar. 1.
- Brook, Harold, assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Automobile bumper. 1,646,789; Oct. 18.
- Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Plastic cementitious material. 1,627,952; May 10.
- Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Light-weight gypsum product. 1,633,001; Aug. 2.
- Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Molded structural unit and producing the same. 1,652,162; Dec. 13.
- Brookby, Harry E., Chicago, Ill., and G. D. King, Fort Dodge, Iowa, assignors to United States Gypsum Company, Chicago, Ill. Cellular plaster. 1,620,067; Mar. 8.
- Brooke, Frank W., assignor to William Swindell and Brothers, Pittsburgh, Pa. Furnace and operating the same. 1,626,263; Apr. 26.
- Brooke, Holman L., Bradford, England. Infinitely-variable gear. 1,642,720; Sept. 20.
- Brook, Holman L., Bradford, England. Centrifugal clutch. 1,647,721; Sept. 20.
- Brookert, William H., Bismark, N. Dak. Faucet. 1,654,237; Dec. 27.
- Brookes, Arthur J. C. (See Sears, J. E., jr., and Brookes.)
- Brookes, Arthur J. C., Bridgnorth, England. Adjustable limit gauge. 1,627,146; May 3.
- Brookins Manufacturing Company, The. (See Brookins, Walter R., assignor.)
- Brookins, Walter R., assignor to The Brookins Manufacturing Company, Dayton, Ohio. Price sign. 1,617,100; Feb. 8.
- Brookman, Horace D., East Liverpool, Ohio. Insulator. 1,640,815; Aug. 30.
- Brooks, Aubrey A., Toronto, Ontario, Canada. Leg and ankle support. 1,638,285; Aug. 9.
- Brooks, Benjamin T., Sound Beach, Conn., assignor to The Mathieson Alkali Works, New York, N. Y. Chlorination of water. 1,613,438; Jan. 4.
- Brooks, Bloomfield H., Denver, Colo. Tent support. 1,622,232; Mar. 22.
- Brooks, Charles E., Montreal, Quebec, assignor to Canadian Navys, Montreal, Canada. Articulated car. 1,636,622; July 19.
- Brooks, Desmond B., Haxtun, Colo. Novelty. 1,623,906; Apr. 5.
- Brooks, Edward A., assignor of one-half to F. E. Gunter, Pittsburgh, Pa. Recoler. 1,614,647; Jan. 18.
- Brooks Engineering Corporation. (See Brooks, Stephen H., assignor.)
- Brooks, George C., Jr., Camden, N. J. Radio tuning coil. 1,646,231; Oct. 18.
- Brooks, George B., Toronto, Ontario, Canada. Water-power wheel. 1,622,365; Mar. 29.
- Brooks, George H., Louisville, Ky. Automobile bumper. 1,618,405; Feb. 22.
- Brooks, George W., Topeka, Kans. Locker door. 1,649,807; Nov. 22.
- Brooks, George W., Topeka, Kans. Service door locker. 1,650,598; Nov. 29.
- Brooks, James A., Kirklyn, assignor to The J. G. Brill Company, Philadelphia, Pa. Car seat. 1,644,632; Oct. 4.
- Brooks, John A., Detroit, Mich. Automatic sprinkling system. 1,638,519; Aug. 9.
- Brooks, John A., Detroit, Mich. Spraying device. 1,639,162; Aug. 16.
- Brooks, Leon D., Upper Lake, Calif. Golf club. 1,650,183; Nov. 22.
- Brooks, Lucile A., Seattle, Wash. Cording device. 1,637,804; Aug. 2.
- Brooks, Robert, Ashton-on-Mersey, England, assignor to Westinghouse Electric & Manufacturing Company. Relay. 1,626,665; May 3.
- Brooks, Roscoe A., Chicago, Ill., assignor to E. G. Mumford and H. B. Kruse. Automatically-controlled, electrically-heated vulcanizing apparatus. 1,628,766; Mar. 7.
- Brooks Rupture Appliance Company. (See Welch, George W., assignor.)
- Brooks, Stanley G., assignor to The D. L. Auld Company, Columbus, Ohio. Name plate. 1,616,438; Feb. 8.
- Brooks, Stephen H., assignor to The Oil Conservation Engineering Company, Cleveland, Ohio. Swing-pipe mechanism. 1,626,732; May 3.
- Brooks, Stephen H., assignor to Brooks Engineering Corporation, Los Angeles, Calif. Gas-tight cable support for tanks. 1,630,826; May 31.
- Brooks, Thomas J., Nashville, Tenn. Illuminated writing implement. 1,615,740; Jan. 25.
- Brooks, William H., San Francisco, Calif. Display and storage cabinet. 1,643,738; Sept. 27.

- Brooks, Winfred M., West Orange, N. J. Sealing means. 1,631,464; June 7.
- Brookshire, Charles T., et al. (See Ward, Andrew W., assignor.)
- Brookshire Cheese Company. (See Wheeler, J. H. and Broome, Ernest L., Tarrytown, N. Y. Sealing device for hydraulic gates. 1,648,585; Nov. 8. Scott, assignors.)
- Broome, Lewis H., Jersey City, N. J. Tee. 1,614,343; Jan. 11.
- Broome, William J., Los Angeles, Calif., assignor to Funkel Stamping & Manufacturing Co. Folding bed. 1,624,307; Apr. 12.
- Broomhall, Edward H., Harrisburg, Pa. Cardcase. 1,613,380; Jan. 4.
- Brophy, Gerald R., Schenectady, N. Y., assignor to General Electric Company. Heat-resisting alloy. 1,633,803; June 28.
- Brophy, James M., Hattiesburg, Miss. Sawmill-dog-actuating mechanism. 1,625,240; Apr. 19.
- Brophy, John J., and W. E. Broughton, assignors to Tye Turner Tanning Machinery Company, Peabody, Mass. Machine for treating hides, skins, and leather. 1,625,981; Apr. 26.
- Brophy, John J., Salem, and G. E. McLaughlin, Brookline, Mass., assignors to The Turner Tanning Machinery Company, Portland, Me. Machine for measuring sheet material. 1,638,913; Aug. 16.
- Brophy, John P., Cleveland, Ohio. Traffic signal. 1,616,003; Feb. 8.
- Brophy, Oscar, Philadelphia, Pa. Pyrometer thermocouple. 1,651,750; Dec. 6.
- Brophy, Rosanna M., Jersey City, N. J. Cleaver for nursing-bottle nipples. 1,622,178; Mar. 22.
- Bropsen, James, Cleveland, Ohio. Closet connection. 1,613,926; Jan. 11.
- Brosi, Frederick T., San Francisco, Calif., assignor to A. W. Higgins, trustee. Baby-shoe keepsake. 1,638,431; Aug. 9.
- Brosi, Henry W. E., Oakland, Calif. Utensil handle. 1,649,387; Nov. 15.
- Brosius, Edgar E., Pittsburgh, Pa. Material-handling apparatus. 1,622,902; Mar. 29.
- Brosius, Edgar E., Pittsburgh, Pa. Mud gun. 1,637,405; Aug. 2.
- Brosnick, Andrew, New Derry, Pa. Flower box. 1,635,203; July 12.
- Brostedt, Carl W., Springfield, Mass., assignor to The George F. Clark Company, Windsor Locks, Conn. Swivel caster. 1,649,946; Nov. 22.
- Brothers, Edwin S., Brooklyn, N. Y. Dental apparatus. 1,620,990; Mar. 15.
- Brotherton, Minerva A. (See Agnew, Francis E., assignor.)
- Brotz, Anton F., assignor to Kohler Company, Kohler, Wis. Air-cooled engine. 1,639,022; Aug. 16.
- Brotz, Anton F., assignor to The Kohler Company, Kohler, Wis. Voltage regulator. 1,647,266; Nov. 1.
- Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Dishwasher. 1,651,083; Nov. 29.
- Brough, John, Philadelphia, Pa. Double-hung window sash. 1,643,920; Sept. 27.
- Brougham, Herbert B., White Plains, assignor of one-half to W. Clark, New York, N. Y. Soap-faking device. 1,613,558; Jan. 4.
- Broughton, Arthur E., Minneapolis, Minn. Apparatus for removing air from steam condensing systems. 1,628,890; June 21.
- Broughton, Winn E. (See Brophy, J. J., and Broughton.)
- Broughton, Winn E., assignor to The Turner Tanning Machinery Company, Peabody, Mass. Leather-working machine. 1,624,921; Apr. 19.
- Broughton, Winn E., assignor to The Turner Tanning Machinery Company, Peabody, Mass. Clutch mechanism. 1,649,283; Nov. 15.
- Brousseau, Fernand L., assignor to P. J. Lebourcier, Paris, France. Automatic clutch. 1,623,862; Apr. 5.
- Brower, Benjamin W., Auburn, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Yielding hobbins support for multicolor loom magazines. 1,652,604; Dec. 13.
- Brower, Elbert O., Huntington, N. Y. Machine element. 1,648,441; Nov. 8.
- Brower, William M., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Multiple variable condenser. 1,633,516; June 21.
- Brown, A. G., Boveri & Cie. (See Frey, Karl, assignor.)
- Brown, A. G., Boveri & Cie. (See Holzel, Johannes, assignor.)
- Brown, Albert. (See Peck, R. G., and Brown.)
- Brown, Albert, and R. G. Peck, assignors to The Arldor Company, Chicago, Ill. Display receptacle. 1,628,108; May 10.
- Brown, Albert C., Chicago, Ill. Faucet. 1,640,527; Aug. 30.
- Brown, Albert J., Sandusky, Ohio. Tappet-adjusting tool. 1,654,319; Dec. 27.
- Brown, Alfred B., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for drying and storing material. 1,625,451; Apr. 19.
- Brown, Allan V. (See Thompson, Theodore, assignor.)
- Brown, Allen W. (See Finley, T. M., and Brown.)
- Brown, Amos E., Damascus, Ark. Train-controlled railway-crossing gate. 1,633,517; June 21.
- Brown, Archibald M., Akron, Ohio. Nursing-bottle nipple. 1,634,170; June 28.
- Brown, Archie E., El Paso, Tex. Cotton picker. 1,624,308; Apr. 12.
- Brown, Archie E., El Paso, Tex. Dental articulator. 1,634,453; Dec. 27.
- Brown, Arthur C., Newark, N. J. Jewelry clasp. Des. 72,890; June 21.
- Brown, Arthur E. (See Galsman, L., and Brown.)
- Brown, Arthur L., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Phenolic condensation product. 1,632,113; June 14.
- Brown, Arthur L., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible composite article and forming the same. 1,633,976; June 28.
- Brown, Arthur L., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condensation-product varnish. 1,640,562; Aug. 30.
- Brown & Bailey Company. (See Keppeler, Albert E., assignor.)
- Brown & Bailey Company. (See Shrum, William R., assignor.)
- Brown & Bigelow. (See Harris, Blaine H., assignor.)
- Brown & Bigelow. (See Swift, George L., assignor.)
- Brown and Brown, Inc. (See Brown, Chalmers S., assignor.)
- Brown & Caine, Inc. (See Ringwald, Clarence, assignor.)
- Brown & Pengilly, Inc. (See Pengilly, Joseph H., assignor.)
- Brown and Sharpe Manufacturing Company. (See Graves, Benjamin P., assignor.)
- Brown, Bruce K., Terre Haute, Ind., assignor to C. F. Burgess Laboratories, Inc., Dover, Del. Electrochemical production of solid oxides of carbon. 1,639,980; Aug. 23.
- Brown, Bruce K., Terre Haute, Ind., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Galvanic cell. 1,639,983; Aug. 23.
- Brown, Bruce K., Terre Haute, Ind., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Dry cell. 1,639,984; Aug. 23.
- Brown, Bruce K., Terre Haute, Ind., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Dry-cell depolarizer. 1,639,985; Aug. 23.
- Brown, Bruce K., and C. Bogin, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Pyroxylin lacquer composition. 1,641,529; Sept. 6.
- Brown, C. L. (See Martin, Earl L., assignor.)
- Brown, Campbell, Belfast, Ireland. Baker's oven. 1,640,333; Aug. 23.
- Brown, Carl A., East Cleveland, and F. B. Van Sickle, Wickliffe, Ohio, assignor to General Electric Company. Bulb-feeding apparatus. 1,623,825; Apr. 5.
- Brown, Charles G., Schenectady, N. Y., assignor to General Electric Company. Shut. 1,617,145; Feb. 8.
- Brown, Chalmers S., assignor to Brown and Brown, Inc., Lima, Ohio. Manhole step. 1,639,210; Aug. 16.
- Brown, Charles A., Lorain, Ohio. Electrical switch. 1,653,941; Dec. 27.
- Brown, Charles A., Salem, and G. J. Esselen, Jr., Swampscott, assignors to Manufacturing Improvement Corporation, Boston, Mass. Degreasing skins. 1,640,478; Aug. 30.
- Brown, Charles H., Flushing, N. Y. Metal shoe shank. 1,638,520; Aug. 9.
- Brown, Charles H., Flushing, N. Y. Shoe last. 1,642,764; Sept. 20.
- Brown, Charles S., Dayton, Ohio. Fitting cooperating bodies. 1,631,359; June 7.
- Brown, Charles S., Syracuse, N. Y. Mowing machine. 1,644,563; Oct. 4.
- Brown, Charles S., Syracuse, N. Y. Tractor and implement construction. 1,645,224; Oct. 11.
- Brown, Charles V., Mount Vernon, Wash. Electrical time switch. 1,615,163; Jan. 18.
- Brown, Charles W., et al. (See Molony, S. B., and Nikaido, assignors.)
- Brown, Claude D., assignor of one-half to J. W. Eadie, Fort Smith, Ark. Auto tray holder. 1,618,567; Feb. 22.
- Brown, Collin, assignor to The E. C. Brown Company, Rochester, N. Y. Pump handle for fire extinguishers or similar articles. Des. 72,546; May 3.
- Brown Company. (See Brannen, Thomas L., assignor.)
- Brown Company. (See Brown, O. B., and Parker, assignors.)
- Brown Company. (See Ek, Arvid, assignor.)
- Brown Company. (See Moore, Hugh K., assignor.)
- Brown Company. (See Parker, Howard, assignor.)
- Brown Company. (See Richter, George A., assignor.)
- Brown Company. (See Richter, G. A., and Schur, assignors.)
- Brown Company. (See Schur, Milton O., assignor.)
- Brown, Crenier F., Cleveland, Ohio, assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamping device for bumper bars and the like. 1,649,149; Nov. 15.
- Brown, Daniel B., Dover, N. H. Rake. 1,647,077; Oct. 25.
- Brown, David. (See Tannenbaum, H. J., and Brown.)
- Brown, David, & Sons (Huddersfield) Limited. (See Welby, Silas, assignor.)

- Brown, David W., Akron, N. Y. Building construction. 1,614,776; Jan. 18.
- Brown, Donald, Newcastle-upon-Tyne, England. Spring suspension for vehicles. 1,641,472; Sept. 6.
- Brown, Donald F., and F. J. Rayner, London, England, assignor, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa. Controlling apparatus for colleries. 1,613,786; Jan. 11.
- Brown, Door Check Co., Inc., The. (See Brown, Max, assignor.)
- Brown, Dudley, and A. H. Irving, Chewelah, Wash. Saw-mill carriage. 1,613,159; Jan. 4.
- Brown, R. Washington, D. C. Piston ring. 1,640,109; Aug. 28.
- Brown, E. C., Company, The. (See Brown, Collin, assignor.)
- Brown, Earl J. (See D'Evlyn, Elizabeth, assignor.)
- Brown, Earl J., Chicago, Ill. Eye-testing device. 1,633,658; June 28.
- Brown, Edgar D., Pottsville, Pa. Brake mechanism for automobiles. 1,645,124; Oct. 11.
- Brown, Edgar D., Pottsville, Pa. Brake mechanism for vehicles. 1,645,125; Oct. 11.
- Brown, Edgar F., Salisbury, Md. Speed-governing device. 1,623,655; Apr. 5.
- Brown, Edith M., Pittsburgh, Pa. Window fastener. 1,630,352; July 19.
- Brown, Edwin O., West Croydon, England. Apparatus for playing a table game of hockey. 1,634,016; June 28.
- Brown, Elmer B., assignor to The Fleischmann Company, New York, N. Y. Improvement of flavor of yeast. 1,642,537; Sept. 13.
- Brown, Elmer E. Kansas City, Mo., and M. C. Dixon, Kansas City, Kans. Septic tank. 1,641,800; Sept. 6.
- Brown, Emma, et al. (See Brown, George W., assignor.)
- Brown Engineering Corporation. (See Brown, James W., assignor.)
- Brown, Ernest A., Springfield, Ohio. Tire construction. 1,652,088; Dec. 6.
- Brown, Eugene M. (See Towle, Owen C., assignor.)
- Brown, Eugene S., Oak Station, Pa. Fireplace log. Des. 1,639,920; Feb. 15.
- Brown, Everett, Hardy, Ky. Grease-gun filler. 1,616,780; Feb. 8.
- Brown, Everett, Hardy, Ky. Valve-operating mechanism. 1,623,043; Apr. 5.
- Brown, Florence B., administratrix. (See Brown, Thomas D.)
- Brown, Frost, Nashville, Tenn. Automatic flushing device. 1,645,103; Nov. 8.
- Brown, Frank. (See Snowdon, C., and Brown.)
- Brown, Frank A., Chicago, Ill. Cap for receptacles. 1,615,533; Jan. 25.
- Brown, Fred A., Los Angeles, Calif. Signal. 1,626,913; May 3.
- Brown, Fred A., Los Angeles, Calif. Device for handling wire connectors. 1,648,635; Nov. 8.
- Brown, Fred E. (See Johnson, William M., assignor.)
- Brown, Frederick K., assignor to Draper Corporation, Hopedale, Mass. Loom for weaving openwork fabrics. 1,651,338; Nov. 29.
- Brown, Frederick L., West Palm Beach, Fla. Safety tray rail. 1,642,329; Sept. 13.
- Brown, Frederick M., Los Angeles, Calif. Automatic door or garage doors. 1,614,868; Jan. 18.
- Brown, Frederick W., York, England. Wheel for vehicles. 1,623,656; Apr. 5.
- Brown, George. (See Wilson, James O., assignor.)
- Brown, George A., and F. G. Dennison, assignors to Bridgeport Brass Company, Bridgeport, Conn. Pump. 1,624,209; Apr. 12.
- Brown, George B., Los Angeles, Calif. Game board. 1,624,469; Apr. 12.
- Brown, George R., Bridgeport, Conn., assignor to General Electric Company. Electric fuse. 1,621,349; Mar. 15.
- Brown, George R., Bridgeport, Conn., assignor to General Electric Company. Electric fuse. 1,631,669; June 7.
- Brown, George W., Selma, Ala. Fireplace stove. 1,615,741; Jan. 25.
- Brown, George W., Marietta, Ohio. Cuff button. 1,631,912; June 7.
- Brown, George W., Cape Elizabeth, assignor of one-half to S. J. Dodge, Damariscotta, and one-half to E. Brown, Cape Elizabeth, Me. Pencil sharpener. 1,647,078; Oct. 25.
- Brown, Georges H., Paris, France. Time indicating device. 1,628,946; May 17.
- Brown, Harold, Kansas City, Kans. Safety device for automobiles. 1,619,697; Mar. 1.
- Brown, Harold, Kansas City, and G. R. Uhl, Tongonoxie, Kans. Air valve. 1,628,819; May 17.
- Brown, Harold, Kansas City, Kans. Packless ball valve. 1,645,790; Oct. 18.
- Brown, Harold, Kansas City, Kans. Ball valve. 1,653,619; Dec. 27.
- Brown, Harold W., Schenectady, N. Y., assignor to General Electric Company. Controlling device and system employing the same. 1,634,973; July 5.
- Brown, Harold W., Minneapolis, Minn. Insulating material. 1,637,547; Aug. 2.
- Brown, Haydn, London, England. Measuring respired air in testing the lungs. 1,633,393; June 21.
- Brown, Henry M., North Plainfield, N. J., assignor to Standard Oil Development Company. Apparatus for piston assembly. 1,654,110; Dec. 27.
- Brown Hoisting Machinery Company, The. (See Hunter, Pierre R., assignor.)
- Brown Hoisting Machinery Company, The. (See Lipps, Louis F., assignor.)
- Brown, Horace F., Oakland, Calif. Apparatus for printing and assembling manifolding books, pads, etc. 1,621,189; Mar. 15.
- Brown, Horace P., Oakland, Calif., assignor to Pacific Burt Company, Limited, Toronto, Ontario, Canada. Continuous interfold packet. 1,641,620; Sept. 6.
- Brown, Horatio W. (See Bemis, A. F., and Brown.)
- Brown, Howard M., Philadelphia, Pa. Recorder and indicator. 1,646,474; Oct. 28.
- Brown, Hugh A., assignor to board of trustees of the University of Illinois, Urbana, Ill. Electron tube. 1,653,544; Dec. 20.
- Brown Instrument Company, The. (See Brown, Richard F., assignor.)
- Brown Instrument Company, The. (See Cornman, G. W. W., and Brown, assignors.)
- Brown Instrument Company, The. (See Fairchild, C. O., and Bash, assignors.)
- Brown Instrument Company, The. (See Grisdale, George W., assignor.)
- Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
- Brown Instrument Company, The. (See Poole, Foster M., assignor.)
- Brown, Isaac, New York, N. Y. Hood apron. 1,636,122; July 19.
- Brown, J. Alvin, et al. (See Hobson, John H., assignor.)
- Brown, Jackson W., assignor of forty-five per cent to F. E. Farris, De Quincy, La. Railway crossing. 1,632,725; June 14.
- Brown, James A., Bristol, Tenn. Spraying device. 1,644,520; Jan. 15.
- Brown, James C., Newark, N. J., assignor to E. Fredericks, Inc., New York, N. Y. Hair-treating method and composition. 1,637,469; Aug. 2.
- Brown, James F., assignor of one-half to J. E. Belcher, Lookout, Ky. Railway tie and rail fastener. 1,626,075; Apr. 26.
- Brown, James M., Philadelphia, Pa. Treating pasteboard. 1,614,869; Jan. 18.
- Brown, James M., Seymour, Tex. Towing device. 1,650,599; Nov. 29.
- Brown, James S., Miami, Okla. Concrete tie. 1,635,816; July 12.
- Brown, James W. (See Turner, W. M., and Brown.)
- Brown, James W., Tulsa, Okla. Derrick or tower. 1,622,086; Mar. 22.
- Brown, James W., assignor to Brown Engineering Corporation, Minneapolis, Minn. Gas-control appliance. 1,624,132; Apr. 12.
- Brown, Jasper C., assignor of one-half to R. I. Blakeslee, Los Angeles, Calif. Picking up objects and articles. 1,644,360; Oct. 4.
- Brown, Jefferson F., assignor to U. S. Bedding Company, Memphis, Tenn. Spring bottom. 1,642,225; Sept. 13.
- Brown, Jesse W., et al. (See Replogle, Ulysses G., assignor.)
- Brown, John B., and J. P. Kane, Portland, Oreg. Locomotive-type boiler. 1,644,463; Oct. 4.
- Brown, John B., Portland, Oreg. Engine valve gear. 1,632,772; July 12.
- Brown, John E., Elyria, Ohio. Trolling lure. 1,617,318; Feb. 15.
- Brown, John F., West Warwick, R. I. Hat buckle. Des. 73,774; Nov. 8.
- Brown, John H., Jersey City, N. J. Warehouse-truck brake. 1,632,217; June 14.
- Brown, John L., Long Beach, Calif. Vacuum tube. 1,616,214; Feb. 1.
- Brown, John L., Vernon, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cap for bearings. 1,621,709; Mar. 22.
- Brown, John L., assignor to The Pooley Company, Philadelphia, Pa. Amplifier. 1,646,050; Oct. 15.
- Brown, John M., Hamilton, Ontario, Canada. Machine for folding stovepipe blanks. 1,636,803; July 26.
- Brown, John P. (See Trompeter, H. F., and Brown.)
- Brown, John T. L., New Brighton, assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation generator. 1,632,054; June 14.
- Brown, John W., Company, The. (See Donley, Harold B., assignor.)
- Brown, John W., Manufacturing Company, The. (See Donley, Harold B., assignor.)
- Brown, John W., Manufacturing Company, The. (See Thomas, William C., assignor.)
- Brown, John W., Jr., Philadelphia, Pa. Press. 1,619,912; Feb. 22.
- Brown, Joseph R. (See Donovan, D. S., and Brown.)
- Brown, Joseph S., Philadelphia, Pa. Car ventilator. 1,615,164; Jan. 18.
- Brown, Julian S., Syracuse, N. Y. Power-transmitting device for motor vehicles. 1,615,613; Jan. 25.
- Brown, Kenneth C., Evanston, and R. E. White, assignors to Winslow Safety High Pressure Boiler Company, Chicago, Ill. Burner. 1,648,573; Nov. 8.
- Brown, Ladura A., Uniontown, Pa. Automatic safety breaker. 1,627,828; May 10.

- Brown, Ladura A., Uniontown, Pa. Multiple-break electric switch. 1,636,984; July 26.
- Brown, Ladura A., Uniontown, Pa. Attachment plug. 1,650,421; Nov. 22.
- Brown, Ladura A., Uniontown, Pa. Automatic cut-over and safety switch. 1,652,194; Dec. 13.
- Brown, Larkin H., Los Angeles, Calif., and G. E. Repass, Knoxville, Tenn., assignors to Draper Corporation, Hopedale, Mass. Filling wound bobbins. 1,614,420; Jan. 11.
- Brown, Laurence E., Rio de Janeiro, Brazil. Separator. 1,648,607; Nov. 8.
- Brown, Lawrence L., Chicago, Ill. Display stand. 1,615,823; Jan. 25.
- Brown, Leland F., assignor of one-half to K. W. Dennis, Knoxville, Tenn., assignor to Parker Corporation, Meriden, Conn. Hollow handle for metal vessels. 1,637,853; Aug. 2.
- Brown, Linwood M., Pittsburgh, Pa. Steel alloy. 1,643,054; Sept. 20.
- Brown-Lipe Gear Company. (See Carhart, George C., assignor.)
- Brown-Lipe Gear Company. (See Spase, Charles B., assignor.)
- Brown-Lipe Gear Company. (See Sponable, George W., assignor.)
- Brown, Lloyd J., Evanston, Ill. Pin-locking means. 1,630,523; May 31.
- Brown, Lucius H., Clay Center, Nebr. Cloth-holding frame. 1,613,081; Jan. 4.
- Brown, Luther E., assignor of one-half to S. Caprito, Breckenridge, Tex. Apparatus for eliminating dents in tubes or pipes. 1,623,657; Apr. 5.
- Brown, Marvin A., Artesia, N. Mex. Crate. 1,636,804; July 26.
- Brown, Maurice E., Marinette, Wis. Method and apparatus for pressing posts. 1,627,829; May 10.
- Brown, Maurice H., North Baltimore, Ohio. Cap for horse collars. 1,646,051; Oct. 18.
- Brown, Max, Chicago, Ill. Reverse control for motors. 1,629,989; May 24.
- Brown, Max, Brooklyn, N. Y., assignor to Royal Metal Lighting Fixture Co., Inc. Lighting-fixture strap. Des. 72,471; Apr. 19.
- Brown, Max, New York, N. Y., assignor to The Brown Door Check Co. Inc. Doorcheck. 1,636,549; July 19.
- Brown, Millard D., assignor to Continental Mills, Inc., Philadelphia, Pa. Knitted fabric. Des. 73,366; Aug. 30.
- Brown, Norman F., and C. M. Reppert, Pittsburgh, Pa. Concrete railway tie. 1,618,508; Feb. 22.
- Brown, Orton B., and H. H. Parker, assignors to Brown Company, Berlin, N. H. Machine for making fiber tubes. 1,635,458; July 12.
- Brown, Oscar, assignor of one-half to Morton Machine Works, Columbus, Ga. Automatic knock-off for cotton pickers. 1,645,412; Oct. 11.
- Brown, Oscar H., Salem, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Work support for leather-working machines. 1,624,309; Apr. 12.
- Brown, Paul. (See Pecker, Joseph S., assignor.)
- Brown & Pengilly, Inc. (See Pengilly, Joseph H., assignor.)
- Brown, Perry O., assignor of one-half to G. V. Backstrom, St. Vincent, Minn. Railway switch. 1,625,241; Apr. 19.
- Brown, Perry O., assignor of one-half to G. V. Backstrom, St. Vincent, Minn. Automatic circuit regulator. 1,650,320; Nov. 22.
- Brown, Peter, assignor to O Cedar Corp'n, Chicago, Ill. Mop head. 1,653,981; Dec. 27.
- Brown, Phelps, Springfield, Mass. Ignition apparatus. 1,634,135; June 28.
- Brown, Phelps, Springfield, Mass. Magneto-actuating mechanism. 1,643,636; Sept. 27.
- Brown, Ralph J., Godfrey, Ill. Band for tying vegetables into bundles. 1,630,888; May 31.
- Brown, Ralph L., Pittsburgh, Pa. Recovering styrene. 1,640,975; Aug. 30.
- Brown, Ray W., assignor to The Mechanical Appliances Co., Los Angeles, Calif. Precision contra-angle piece. 1,621,190; Mar. 15.
- Brown, Raymond E., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Safety device for traveling structures. 1,642,988; Sept. 20.
- Brown, Richard P. (See Corman, G. W. W., and Brown.)
- Brown, Richard P., assignor to Brown Instrument Company, Philadelphia, Pa. Combustion-testing apparatus. 1,615,503; Jan. 25.
- Brown, Richard P., assignor to The Brown Instrument Company, Philadelphia, Pa. Recording instrument. 1,631,578; June 7.
- Brown, Richard P., assignor to The Brown Instrument Company, Philadelphia, Pa. Compensating means for temperature-measuring instruments. 1,639,365; Aug. 16.
- Brown, Richard P., assignor to The Brown Instrument Company, Philadelphia, Pa. Ventilated thermocouple. 1,640,816; Aug. 30.
- Brown, Robert M., Chicago, Ill., assignor of forty-five one-hundredths to A. Pow, Glencoe, Ill. Wall panel. 1,632,431; June 14.
- Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Chuck mechanism. 1,646,850; Oct. 25.
- Brown, Robert S., and W. J. Victory, assignors to The New Britain Machine Company, New Britain, Conn. Wrench-set-carrying device. 1,612,905; Jan. 4.
- Brown, Roy W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Vulcanizer. 1,643,196; Sept. 20.
- Brown, Roy W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Heat or vulcanizing device. 1,647,339; Nov. 1.
- Brown, Rynceer E., assignor of one-half to A. S. Bailey, Hildenville, Okla. Valve-spring lifter. 1,636,950; July 20.
- Brown, Samuel R., New Glasgow, Nova Scotia, Canada. Paper fastener. 1,653,543; Dec. 20.
- Brown & Sharpe Mfg. Co. (See Parker, John W., assignor.)
- Brown, Sidney G., North Acton, England. Production or reproduction of sound or like vibrations. 1,624,823; Apr. 12.
- Brown, Sidney G., North Acton, England. Telephone receiving apparatus. 1,635,309; July 12.
- Brown, Sidney G., North Acton, London, England. Apparatus for transmitting or reproducing sound. 1,639,588; Aug. 16.
- Brown, Sidney G., North Acton, London, England. Device for transmitting or reproducing sound. 1,639,924; Aug. 23.
- Brown, Stewart, et al. (See Wood, Joseph E., assignor.)
- Brown, Stewart, et al., assignor of one-half to H. K. Delandanty, Chicago, Ill. Toy pistol. 1,631,006; May 31.
- Brown, Theodore P., assignor, by mesne assignments, to Simplex Player Action Co., Worcester, Mass. Pneumatic player mechanism for musical instruments. 1,624,171; June 28.
- Brown, Theophilus. (See Strandlund, C. G., and Brown.)
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Plow. 1,613,603; Jan. 11.
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Tractor hitch. 1,640,642; Aug. 30.
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Plow construction. 1,647,391; Nov. 1.
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Draft device for plows. 1,653,695; Dec. 27.
- Brown, Thomas E., deceased, New York, N. Y.; F. B. Brown, administratrix. Drawbridge. 1,618,287; Feb. 22.
- Brown, Thomas E., jr., Yonkers, W. G. Williams, New York, and S. H. Redesty, Bronx, N. Y. Operating mechanism for movable bridges and the like. 1,648,574; Nov. 8.
- Brown, Thomas G., St. Laurent de Montreal, Quebec, assignor to Gurney Foundry Company, Limited, Toronto, Canada. Electric oven. 1,637,435; Aug. 2.
- Brown, Thomas N., assignor to Utensils Company, Fort Wayne, Ind. Ironing machine. 1,641,315; Sept. 6.
- Brown, Thomas R., assignor to Burrows Magnetic Equipment Corporation, Jersey City, N. J. Machine for testing car wheels and the like. 1,628,767; May 17.
- Brown, Thomas W. (See Stamos, Harry N. and A. N., and Brown.)
- Brown, Walter E., assignor to United Iron Works, Inc., Kansas City, Mo. Distilling apparatus. 1,620,593; Mar. 8.
- Brown, Walter E., assignor to United Iron Works, Inc., Kansas City, Mo. Storage tank for volatile liquids. 1,655,387; Dec. 20.
- Brown, Walter F., assignor of one-half to A. A. Laurent, Minneapolis, Minn. Siphon device. 1,636,123; July 19.
- Brown, Walter S., Urbana, Ill. Diving board. 1,635,204; July 12.
- Brown, Wilbur F., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Laminated glass. 1,651,581; Dec. 6.
- Brown, William, Cincinnati, Ohio. Fuel vaporizer. 1,614,543; Jan. 18.
- Brown, William A., Philadelphia, Pa. Emergency heater. 1,620,432; Mar. 8.
- Brown, William A., Philadelphia, Pa. Combination blower and heater. 1,672,229; Mar. 3.
- Brown, William E., Coalinga, Calif. Pull-red guide. 1,618,409; Feb. 22.
- Brown, William E., Sacramento, Calif. Cuspidor cover. 1,624,824; Apr. 12.
- Brown, William E., Los Angeles, Calif. Folding cot. 1,632,114; Jan. 14.
- Brown, William F., Tottenville, N. Y. Vehicle fender. 1,637,632; Aug. 2.
- Brown, William H., Philadelphia, Pa. Ignition timer. 1,640,231; Aug. 23.
- Brown, William H., Cleveland, Ohio, assignor to Dryden Rubber Company, Machine for placing washers on upstanding pins. 1,626,914; May 3.
- Brown, William J., et al. (See Hobson, John H., assignor.)
- Brown, William J., Dunley, Pa. Lamp clip for miners' caps. 1,615,900; Feb. 1.
- Brown, William, Jr., and S. Morano, Morgantown, assignor of one-sixth to J. Maone, one-sixth to J. Ferrie, one-sixth to S. Sellaro and one-sixth to J. Nuoto, Morgantown, W. Va. Combined clothes and dish washing machine. 1,622,221; Mar. 22.

- Brown, William K., Christmas Lake, assignor to Twin City Scenic Company, Minneapolis, Minn. Curtain supporting and operating apparatus. 1,649,215; Nov. 15.
- Brown, William L., 4th, Philadelphia, Pa. Trolley for kites. 1,620,991; Mar. 15.
- Brown, William M., Council, Idaho. Bath-brush holder. 1,639,368; Mar. 8.
- Brown, William M., Johnstown, Pa. Tool head. 1,650,422; Nov. 22.
- Brown, William R., Winchendon, Mass. Shipping container. 1,619,917; Mar. 8.
- Brown, William S. (See Platt, C. B., and Brown.)
- Brown, William T., assignor to The Watson Company, Foxboro, Mass. Spoon or similar article. Des. 73,279; Aug. 23.
- Brown, William T. S., East Point, Ga. Fastener for containers. 1,624,825; Apr. 12.
- Brown, William W., Arkansas City, Kans. Combined folding bed and couch. 1,622,702; Mar. 29.
- Brown, William W., Schenectady, N. Y., assignor to General Electric Company. Automatic antenna regulation. 1,626,449; Apr. 26.
- Brown, William W., and J. E. Love, Schenectady, N. Y., assignors to General Electric Company. Sectional-type inductance coil. 1,621,456; Mar. 15.
- Brown, Willis C., and L. K. Spink, Tulsa, Okla., assignors to The Foxboro Company, Foxboro, Mass. Planimeter. 1,650,900; Nov. 22.
- Brown, Winfield S., Washington, D. C. Automobile inhaler. 1,613,220; Jan. 4.
- Brown, Winifred A., Minneapolis, Minn. Brooms. 1,631,465; June 7.
- Brownback, Henry L., Norristown, Pa. Internal-combustion engine. 1,643,603; Sept. 27.
- Brownback, Henry L., Norristown, Pa. Internal-combustion engine. 1,651,250; Nov. 29.
- Browne, Frank A., Wayne, assignor to The Barber Asphalt Company, Philadelphia, Pa. Building construction and the like. 1,627,531; May 3.
- Browne, Hugo, Los Angeles, Calif. Marcel hair waver. 1,636,212; July 19.
- Browne, Le Roy, Troy, N. Y. Nonskid cross-chain hook. 1,619,188; Mar. 1.
- Browne, Lyle W., assignor to The Fisher Governor Company, Marshalltown, Iowa. Automatic relief valve. 1,620,321; Mar. 8.
- Browne, Lyle W., assignor to The Fisher Governor Company, Marshalltown, Iowa. Pressure and vacuum control valve. 1,620,322; Mar. 8.
- Browne, Lyle W., assignor to The Fisher Governor Company, Marshalltown, Iowa. Float control device. 1,626,504; Apr. 26.
- Browne, Thomas C., New York, N. Y. Portable shelf and rack device. 1,654,409; Dec. 27.
- Browne, Vere B., Bradenridge, Pa. Making magnetic alloys. 1,627,269; May 8.
- Browne, Vere B., Tarentum, Pa. Preparing low-carbon alloys. 1,645,126; Oct. 11.
- Browne, Virgil, assignor to Oklahoma Coca Cola Bottling Company, Oklahoma City, Okla. Bottle-cap dispenser. 1,650,600; Nov. 29.
- Browne, Walter A., assignor to Warthen Train Control Corporation, Washington, D. C. Automatic train-stopping and speed-controlling apparatus. 1,643,976; Oct. 4.
- Browning, George, assignor of one-half to A. Richards, San Diego, Calif. Spark plug cleaning apparatus. 1,641,731; Sept. 6.
- Browning, George, and P. J. Bohan, San Diego, Calif. Wrench. 1,641,730; Sept. 6.
- Browning, George, Wilmette, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Combination plug and switch for electrical appliances. Des. 73,738; Nov. 1.
- Browning, John, administrator. (See Browning, John M.)
- Browning, John, executor. (See Browning, John M.)
- Browning, John M., Ogden, Utah. Automatic firearm. 1,618,510; Feb. 22.
- Browning, John M., deceased, Ogden, Utah; J. Browning, administrator. Automatic firearm. 1,623,226; May 10.
- Browning, John M., deceased, Ogden, Utah; J. Browning, executor. Firing control for automatic machine guns. 1,628,227; May 10.
- Browning, John M., deceased, Ogden, Utah; J. Browning, executor. Firing mechanism for automatic firearms. 1,629,651; May 24.
- Browning, John M., deceased, Ogden, Utah; J. Browning, administrator. Cartridge-feeding mechanism for automatic firearms. 1,629,652; May 24.
- Browning, Joseph W., assignor to The Wood Shovel and Tool Company, Piquette, Ohio. Method and apparatus for testing shovels. 1,629,858; May 24.
- Browning, Lowell C., Long Beach, Calif. Traffic signal. 1,634,395; July 5.
- Browning, Ray J., Buffalo, N. Y. Safety clasp. 1,644,502; Oct. 4.
- Browning, Samuel H., Atlanta, Ga. Loop-winding machine. 1,631,083; May 31.
- Browning, Samuel H., Atlanta, Ga. Coil-spreading machine. 1,631,084; May 31.
- Brownlee, Henry, Port Hope, Ontario, Canada. Combined lock-nut and nut tightener. 1,625,982; Apr. 26.
- Brownlee, Henry, Port Hope, Ontario, Canada, Rail joint. 1,654,410; Dec. 27.
- Brownlee, Roy H., Pittsburgh, Pa. Dentifrice. 1,645,791; Oct. 18.
- Brownlee, Roy H., Pittsburgh, Pa. Dentifrice. 1,645,792; Oct. 18.
- Brownlee, Roy H., Pittsburgh, Pa. Dentifrice. 1,645,793; Oct. 18.
- Brownlee, Roy H., Pittsburgh, Pa. Dentifrice. 1,645,852; Oct. 18.
- Brownstein, Benjamin, Ellwood City, Pa. Pipe-thread protector. 1,642,330; Sept. 13.
- Broyles, John E., assignor of one-half to H. E. Robertson and T. H. Weiler, Russellville, Mo. Superplane. 1,650,553; Aug. 16.
- Broyles, Kate W., Sacramento, Calif. Christmas-tree ornament. Des. 72,000; Feb. 15.
- Broyles, Leo T., Entiat, Wash. Wrench. 1,624,922; Apr. 19.
- Broz, Jake M., New Effington, S. Dak. Corn planter with one wheel support. 1,626,594; May 3.
- Brack, Theodore M. (See Linaker, F. W., and Bruckack.)
- Brubaker, W. L., & Bros. Company. (See Roderick, Marcy B., assignor.)
- Brubaker, William A., Akron, Ohio. Cushion tire. 1,616,843; Feb. 8.
- Brubaker, William A., Akron, Ohio. Cushion tire. 1,641,150; Sept. 6.
- Bruck, Albert W., New York, N. Y. Locomotive boiler. 1,624,655; Apr. 12.
- Bruce, Alfred W., New York, N. Y. Locomotive rear frame. 1,641,151; Sept. 6.
- Bruce, Alfred W., New York, N. Y. Locomotive frame. 1,645,687; Oct. 18.
- Bruce, Alfred W., New York, N. Y. Locomotive-boiler support. 1,650,423; Nov. 22.
- Bruce, E. L., Company. (See Bruce, Frank E., assignor.)
- Bruce, Frank E., Bartlett, assignor to E. L. Bruce Company, Memphis, Tenn. Feed roller. 1,652,756; Dec. 13.
- Bruce, James, Oklahoma City, Okla. Switch throwing and locking device. 1,614,183; Jan. 11.
- Bruce, Malvern L. (See Nelson, Charles S., assignor.)
- Bruce, William E., Miranda City, Tex. Straw or fertilizer distributor and loader. 1,614,870; Jan. 18.
- Bruce, William E., Miranda City, Tex. Fertilizer distributor. 1,624,210; Apr. 12.
- Bruce, William E., Randado, Tex. Fertilizer or straw spreader. 1,628,871; May 17.
- Bruce, William M., jr., Springfield, Ohio. Alternating-current telegraph system. 1,630,827; May 31.
- Bruce, William M., jr., Springfield, Ohio. Electric translating device. 1,640,749; Aug. 30.
- Bruck, Walther, Breslau, Germany. Dentifrice compound. 1,643,618; Sept. 27.
- Bruckel, Waldemar, Berlin, Germany, assignor to General Electric Company. Protective system. 1,652,974; May 13.
- Bruckel, Waldemar, Treptow, Berlin, Germany, assignor to General Electric Company. Electric regulating system. 1,641,732; Sept. 6.
- Bruckmann, Ludwig, Pforzheim, Germany. Chuck. 1,649,567; Nov. 15.
- Bruder, Albert A., Holly, Mich. Furnace. 1,647,392; Nov. 1.
- Bruder, August J., Holly, Mich. Toilet seat. 1,630,524; May 31.
- Brueckner, Julius R., Bay City, Mich. assignor to Glibb Instrument Company. Alternating-current welding system. 1,640,877; Aug. 30.
- Bruelle, Marthe, Bois Colombes, France. Perfume vaporizer. Des. 71,861; Jan. 18.
- Brueshaber, Martin W., Chicago, Ill., assignor to Goss Printing Press Company, Chicago, Ill. Printing press. 1,633,691; June 28.
- Brueshaber, Martin W., Chicago, Ill., assignor to Goss Printing Press Company. Printing press. 1,640,976; Aug. 30.
- Brueshaber, Martin W., Chicago, Ill., assignor to Goss Printing Press Company. Printing press. 1,640,977; Aug. 30.
- Brügger, Xaver, Horgen, Switzerland. Yarn reel. 1,626,325; Apr. 26.
- Brugmann, Herman H., Spencer, Iowa. Storm-sash fastener. 1,651,320; Nov. 29.
- Brugmann, William F., Evanston, Ill. Printing-plate holder and damp. 1,616,650; Mar. 1.
- Brühl, Paul, Düsseldorf, Germany. Grinding machine. 1,638,082; Aug. 9.
- Bruh, Bruno, Bethlehem, Pa., assignor to G. Polysius, Dessau, Germany. Regulating discharge from containers. 1,640,528; Aug. 30.
- Bruh, Daniel, Hobart, Ind. Steel interior for houses. 1,644,869; Oct. 11.
- Bruh, John H., assignor of one-half to J. G. Chalmers, Dubuque, Iowa. Fire and burglar alarm system. 1,614,275; Jan. 11.
- Bruh, John H., and J. F. Becker, Dubuque, Iowa. Door and the like holder. 1,615,357; Jan. 25.
- Brutjnes, Johannes. (See Holst, G., Oosterhuis, and Brutjnes.)
- Brumbaugh, Alvin L., Reading, assignor to Textile Machine Works, Wyomissing, Pa. Slotting-machine attachment. 1,630,328; May 31.
- Brumbaugh, Andrew K., assignor to The Autocar Company, Ardmore, Pa. Electric vehicle. 1,648,536; Nov. 8.

- Brumberg, Zeltan D., Ironton, Ohio. Display device. Des. 73,899; Sept. 6.
- Brumberg, Zeltan D., Ironton, Ohio. Display device. 1,620,944; Mar. 15.
- Brunner, William C., Milwaukee, Wis. Golf goggles. 1,637,406; Aug. 2.
- Brunell, Henry P., assignor to Ajax Electric Hammer Corporation, New York, N. Y. Power-driven hammer or riveter. 1,621,103; Mar. 15.
- Brun, Vally P., San Francisco, Calif. Game apparatus. 1,652,270; Dec. 13.
- Bruna, Charles, New York, N. Y. Automatic train control. 1,647,954; Nov. 1.
- Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Bias-cutting machine. 1,621,152; Mar. 15.
- Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Bias cutting machine. 1,635,531; July 12.
- Brundage, Mary L., administratrix. (See Cooley, Edward W.)
- Brunder, William C., Milwaukee, Wis. Putting apparatus. 1,637,407; Aug. 2.
- Brundidge, Robert M., Cleburne, Tex. Vulcanizer for pneumatic tubes. 1,618,406; Feb. 22.
- Brune, Anna D., St. Louis, Mo. Draining and dumping container. 1,644,977; Oct. 11.
- Brune, Edward H., St. Louis, Mo. Magnetic separator. 1,624,528; Apr. 12.
- Brune, Herbert M., et al., trustees. (See Charles, Carl L., assignor.)
- Bruneau, Hodge, Woonsocket, R. I. Can opener. 1,641,961; Sept. 13.
- Brunell, Homer A. (See Burnett, E. R., and Brunell.)
- Brunelle, Eugene A. (See Deschenes, Adelard G., assignor.)
- Brunner, Henry M., et al., trustees. (See Enell, Otto E., assignor.)
- Brunner, Martin R., Buckland, Ohio. Tractor plow. 1,633,205; June 21.
- Bruer, Simon. (See Lehr, Louis, assignor.)
- Brunhoff Manufacturing Company, The. (See Karst, Clarence E., assignor.)
- Brunhübner, Georg. (See Wenz, J., Alvera, and Brunhübner.)
- Brünig, Victor, Berlin-Grunewald, Germany. Production of canals. 1,632,946; June 21.
- Brüning, Ernst, Badingen, Germany. Agricultural machine. 1,615,679; Jan. 25.
- Brüninga, John H., trustee. (See Deemar, Henry V., assignor.)
- Brunk, Mary V., and D. D. Harrison, Kansas City, Mo. 1,637,518; Aug. 2.
- Brunner, Harold E., Mamaronck, N. Y., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Antifriction-bearing lubrication. 1,638,521; Aug. 9.
- Brunner, John P. (See Luley, J., and Brunner.)
- Brunner, Theodore P., Los Angeles, Calif. Escape trick device. 1,625,522; Apr. 19.
- Bruno, C. & Son, Inc. (See Stark, Theodore H., assignor.)
- Bruno, Joseph. (See Torchia, Alberto, assignor.)
- Bruns, William G., Sioux Falls, S. Dak. Brooder. 1,629,066; May 17.
- Bruszkog, Victor H. M., and J. A. Nordin, assignors to Aktiebolaget Stille Werners, Stockholm, Sweden. Grinding apparatus for meat-slicing machines and the like. 1,619,056; Mar. 1.
- Bruswick - Balke - Collender Company. (See Barker, Charles P., assignor.)
- Bruswick-Balke-Collender Company. (See Berg, Hans, assignor.)
- Bruswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
- Bruswick-Balke-Collender Company, The. (See Griffith, James, assignor.)
- Bruswick-Balke-Collender Company, The. (See Heden-skoog, Ernest, assignor.)
- Bruswick-Balke-Collender Company, The. (See Miller, John O., assignor.)
- Bruswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)
- Bruswick-Balke-Collender Company, The. (See Thompson, Aksel R., assignor.)
- Bruswick-Balke-Collender Company, The. (See Whelan, Michael J., assignor.)
- Bruswick, Raymond, assignor to M. Rice Co., Philadelphia, Pa. Flower holder. Des. 73,775; Nov. 8.
- Brunt, Percy, Meval, Pindigbeh, India. Drilling tool. 1,641,113; Aug. 30.
- Brunt, Samuel, assignor to The Sebring Manufacturing Corporation, Sebring, Ohio. Casserole. Des. 73,061; July 19.
- Brunt, Samuel, assignor to The Sebring Manufacturing Corporation, Sebring, Ohio. Sugar bowl. Des. 73,062; July 19.
- Brush, Abbott P. (See Brush, Dorothy S. and A. P.)
- Brush, Abbott P., Greenwich, Conn. Direction and distance measuring instrument. 1,638,914; Aug. 16.
- Brush, Alanson P., Detroit, Mich. Steering-wheel brake. Re16,538; Jan. 18.
- Brush, Alanson P., Detroit, Mich. Vehicle spring. 1,632,993; June 21.
- Brush, Alanson P., Detroit, Mich. Manifold for multi-cylinder internal-combustion engines. 1,634,823; July 5.
- Brush, Alanson P., Detroit, Mich. Brake mechanism. 1,652,757; Dec. 13.
- Brush, Dorothy S. and A. P., Greenwich, Conn. Cigarette lighter. 1,631,514; June 7.
- Brush, George S., Zanesville, Ohio. Casing for radio sets. Des. 71,823; Jan. 11.
- Brush, George S., Zanesville, Ohio. Clock casing. Des. 72,066; May 17.
- Brush, George S., Zanesville, Ohio. Pitcher. Des. 74,136; Dec. 27.
- Brush, Mittle T., Dublin, N. H. Aircraft. 1,619,100; Dec. 27.
- Brusnicki, Thaddeus J. (See Cook, J. T., jr., Murphy, Brusnicki, and Goldsmith.)
- Bruson, Herman A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Treating rubber. 1,631,947; June 7.
- Brusson, Joseph, Liege, Belgium. Bottle-washing machine. 1,640,643; Aug. 30.
- Brust, Charles A., jr., El Dorado, Ark. Fishing hook. 1,616,024; Feb. 1.
- Brust, Charles A., Memphis, Tenn. Cotton and hull separator. 1,628,451; May 10.
- Brutnell, Brightie E., et al. (See Keating, Robert M., assignor.)
- Brutofski, Stephen J., and J. Armstrong, Scranton, Pa. Baseball-game apparatus. 1,640,878; Aug. 30.
- Bruun, Otto, Frederiksberg near Copenhagen, Denmark. Milking cup. 1,641,316; Sept. 6.
- Bruyere Banzet & Co., Societe Dauphinoise de Matériel Textile. (See Banzet, Paul J., assignor.)
- Bruynes, Johannes, Eindhoven, Netherlands, assignor to General Electric Company. Switching device. 1,650,601; Nov. 29.
- Bryan, Benjamin B., jr., New York, N. Y. Utilizing the surplus energy exerted in operating revolving doors, turnstiles, and the like. 1,624,656; Apr. 12.
- Bryan, George A., Peru, Ind., assignor to Bryan Harvester Company, Inc. Steam generator. 1,634,351; July 5.
- Bryan, George A., Peru, Ind., assignor to Bryan Harvester Company. Fire box for steam generators. 1,640,346; Aug. 30.
- Bryan Harvester Company. (See Bryan, George A., assignor.)
- Bryan Screw Machine Products Company, The. (See Fisher, Frank C., assignor.)
- Bryan, William J., Jersey City, N. J. Chain link. 1,633,434; June 21.
- Bryan, William A., Denver, Colo. Fountain syringe. 1,647,210; Nov. 15.
- Bryant, Charles L., Cleveland, Ohio. Heating. 1,649,097; Nov. 15.
- Bryant, Charles L., Cleveland, Ohio. Valve. 1,649,566; Nov. 15.
- Bryant Electric Company, The. (See Anderson, Carl E., assignor.)
- Bryant Electric Company, The. (See Catlin, H., and Thomas, assignors.)
- Bryant Electric Company, The. (See Engstrom, Henry O., assignor.)
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Bryant Electric Company, The. (See Kinney, Aldon M., assignor.)
- Bryant Electric Company, The. (See Peterson, M., and Danielson, assignors.)
- Bryant Electric Company, The. (See Thomas, George B., assignor.)
- Bryant Electric Company, The. (See Stacey, William A., assignor.)
- Bryant, Ellsworth S., Detroit, Mich. Condenser. 1,641,660; Sept. 6.
- Bryant, Elmer, Lexington, Ky. Mechanical movement. 1,630,164; May 24.
- Bryant, Eugene, Bardstown, Ky. Haystacker. 1,647,955; Nov. 1.
- Bryant, Frank L., Joliet, Ill. Granulating dry materials. 1,621,869; Mar. 22.
- Bryant, George F., assignor to Electrograph Advertising Service, Inc., Chicago, Ill. Printing press. 1,628,109; May 10.
- Bryant, Harvey L., Roselle, N. J., assignor to American Can Company, New York, N. Y. Automatic die hanger. 1,649,284; Nov. 15.
- Bryant Heater Manufacturing Company, The. (See Fox, Otto, assignor.)
- Bryant Heater and Manufacturing Company, The. (See Fox, O., and Stark, assignors.)
- Bryant, Henry E., Providence, assignor to Tubular Woven Fabric Company, Pawtucket, R. I. Spool or reel. 1,626,264; Apr. 26.
- Bryant, Henry E., Providence, assignor to Tubular Woven Fabric Company, Pawtucket, R. I. Linear-measuring machine. 1,626,265; Apr. 26.
- Bryant and May Proprietary Limited. (See Ney, Andrew F., assignor.)
- Bryant, Niles, Battle Creek, Mich. Cord-actuated burglar alarm. 1,633,361; June 21.
- Bryant, Roland G., Cartersville, Mo. Combination table and luggage carrier. 1,621,922; Mar. 22.
- Bryant, Walter N. (See Bratton, J. N., and Bryant.)

- Bryant, William L., Springfield, Vt. Micrometer gauge. 1,623,574; Apr. 9.
- Bryant, William L., Springfield, Vt. Multispindle internal-grinding machine. 1,624,211; Apr. 12.
- Bryant, William O., Los Angeles, Calif., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,614,599; Jan. 18.
- Bryce, James W., Binghamton, N. Y., assignor, by means assignments to Dayton Scale Company, Dayton, Ohio. Scale. 1,614,710; Jan. 18.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Multiplying machine. 1,622,279; Mar. 29.
- Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Tabulating card-printer device. 1,620,048; Mar. 8.
- Bryce, James W., Bloomfield, N. J., assignor to Dayton Scale Company, Dayton, Ohio. Scale. 1,628,110; May 10.
- Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Record-keeping machine for sorting and the like. 1,651,179; Nov. 29.
- Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Sorting machine. 1,651,180; Nov. 29.
- Brydges, Samuel M., London, England. Portable cigarette-making machine. 1,654,111; Dec. 27.
- Brydie, Benton R., Jamaica, N. Y. Shingle. 1,614,871; Apr. 18.
- Brye, Walter C., Knoxville, Tenn. Cot for automobiles. 1,620,433; Mar. 8.
- Bryer, Edward R., Portland, Oreg., assignor to J. C. Bayer Furnace Company, Inc. Domestic sawdust burner. 1,613,265; Jan. 4.
- Bryndolt, Christian, Pittsburgh, Pa., assignor to Blaw-Knox Company. Method of and apparatus for building concrete structures in water. 1,615,069; Jan. 18.
- Bryndolt, Christian, Pittsburgh, Pa., assignor to Blaw-Knox Company. Molding concrete or cementitious structures. 1,620,514; Mar. 8.
- Brysilka, Limited. (See Schubert, Friedrich W., assignor.)
- Buch, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Company. Safety guard for centrifugal machines. 1,628,303; May 10.
- Bryson, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Works. Safety guard for centrifugal machines. 1,649,947; Nov. 22.
- Bryson, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Works. Driving mechanism and method. 1,638,239; Aug. 9.
- Bryson, Tandy A., and F. I. Williams, Troy, N. Y., assignors to Tolhurst Machine Works. Centrifugal extractor. 1,640,978; Aug. 30.
- Brzykyk, Antoni, Minneapolis, Minn. Animal trap. 1,645,225; Oct. 11.
- Buc, Raymond. (See Meeg-Larsen, R. and Bu.)
- Bubar, George A., assignor to Bell Lumber Company, Minneapolis, Minn. Treating wood poles. 1,618,407; Feb. 22.
- Bubelis, Peter, Portsmouth, N. H. Locomotive-fire-box arch. 1,653,084; Dec. 20.
- Bubla, Karl, Pilsen, Czechoslovakia. Piston slide valve. 1,653,202; Dec. 20.
- Buc, Hym, E., Roselle, N. J., assignor to Standard Development Company. Making esters. 1,651,666; Dec. 6.
- Bucci, Mauro, Philadelphia, Pa. Facial composition. 1,634,974; July 5.
- Buchanan, Guy H. (See Landis, W. S. and Buchanan.)
- Buchanan, Guy H., Westfield, and P. W. Griffith, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y. Making a nitrogenous fertilizer material. 1,614,521; Jan. 18.
- Buchanan, Guy H., Westfield, and J. L. Osborne, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y. Converting a cyanide compound into ammonia. 1,638,522; Aug. 9.
- Buchanan, James L., Waco, Tex. Spreader tool. 1,628,650; May 17.
- Buchanan, Jerome R., and R. H. Abbott, Los Angeles, Calif. Electric-light bracket. Des. 72,085; Mar. 1.
- Buchanan, Jerome R., and R. H. Abbott, Los Angeles, Calif. Bobecbe for electric-light fixtures. Des. 72,086; Mar. 1.
- Buchanan, John, North Braddock, Pa. Crystal detector and clip. 1,652,927; Dec. 13.
- Buchanan, Luther H., Los Angeles, Calif. Detachable stencil for ball lights. 1,638,679; Aug. 9.
- Buchanan, Stephen N. (See Davis, A. P., and Buchanan.)
- Buchenberg, Alvin E., assignor to Industrial Research Corporation, Toledo, Ohio. Engine and generator cooling system. 1,638,146; Aug. 9.
- Bucher, Reinhard, Lake Wales, Fla. Packing container. 1,647,604; Nov. 1.
- Bucherer, August, Amriswil, Switzerland. Frame or body of jointed dolls and other articulated or jointed toys. 1,620,069; Mar. 8.
- Buchholtz, Henry F., Milwaukee, Wis. Shade-roller support. 1,620,515; Mar. 8.
- Buchholtz, Ferdinand, Jim Falls, Wis. Adjustable chimney cleaner. 1,629,990; May 24.
- Buchholz, Max, Cassel, Germany. Protective system for electric apparatus. 1,640,309; Aug. 23.
- Buchholz, Max, Cassel, Germany. Protecting electric apparatus. 1,640,310; Aug. 23.
- Buchholz, Max, Cassel, Germany. Protecting liquid-insulated electric apparatus. 1,642,397; Sept. 13.
- Buchholz, Max, Cassel, Germany. Controlling electric apparatus. 1,642,398; Sept. 13.
- Buchholz, Max, Cassel, Germany. Controlling liquid-insulated electric apparatus. 1,642,399; Sept. 13.
- Buchholz, Max, Cassel, Germany. Control of electric apparatus. 1,642,400; Sept. 13.
- Buchholz, Max, Cassel, Germany. Control of liquid-insulated electric apparatus. 1,642,401; Sept. 13.
- Buchholz, Max, Cassel, Germany. Protection of electric apparatus. 1,642,402; Sept. 13.
- Buchholz, Max, Cassel, Germany. Protection of liquid-insulated electric apparatus. 1,642,403; Sept. 13.
- Buchholz, Max, Cassel, Germany. Protective system for liquid-insulated electric apparatus. 1,642,404; Sept. 13.
- Buchholz, Max, Cassel, Germany. Electric protective system. 1,642,405; Sept. 13.
- Buchholz, Max, Cassel, Germany. System of protection of electric apparatus. 1,642,406; Sept. 13.
- Buchholz, Max, Cassel, Germany. System of protection of liquid-insulated electric apparatus. 1,642,407; Sept. 13.
- Buchholz, Max, Cassel, Germany. Protecting liquid-insulated electric apparatus. 1,642,408; Sept. 13.
- Buchholz, Theodor, Berlin-Zehlendorf-West, Germany. Rail fastening. 1,640,750; Aug. 30.
- Büchi, Albert, Klosters, Switzerland. Hand printing apparatus. 1,647,967; Nov. 1.
- Buehl, Alexander J., New York, N. Y. Electric hair curler. 1,631,189; June 7.
- Buehler, Moric, Budapest, Hungary. Valve gear. 1,642,583; Sept. 13.
- Buehli, Jacob, Winterthur, Switzerland. Valve gear for power engines. 1,634,736; July 5.
- Buehli, Jacob, Winterthur, Switzerland. High-pressure steam boiler. 1,636,985; July 26.
- Bucher, Winfield S., et al. (See Thurston, Charles B., assignor.)
- Buchsbaum, Herbert. (See Buchsbaum, Samuel and H.)
- Buchsbaum, Samuel, Chicago, Ill. Antifriction device for shoe heels. 1,640,593; Aug. 30.
- Buchsbaum, Samuel and H., Chicago, Ill. Vanity box. 1,623,994; Apr. 12.
- Buck, Arthur. (See Sears, F. W., and Buck.)
- Buck, Cephas C., Sandpoint, Idaho. Fox feed trough. 1,639,554; Aug. 16.
- Buck, Charles P., Topeka, Kans., assignor to Gustin-Bacon Manufacturing Company, Kansas City, Mo. Automatic vapor-take-off valve for oil tanks. 1,620,718; Mar. 15.
- Buck, Charles P., Topeka, Kans., assignor to Gustin-Bacon Manufacturing Company, Kansas City, Mo. Relief valve for excessive-pressure vapor tanks and lines. 1,620,719; Mar. 15.
- Buck, Charles P., Topeka, Kans., assignor to Gustin-Bacon Manufacturing Company, Kansas City, Mo. Combination vacuum and pressure relief valve. 1,620,720; Mar. 15.
- Buck, Frank E., Baltimore, Md. Device for stopping shoe squeaking. 1,642,099; Sept. 13.
- Buck, Howard T., Cedar Knolls, N. J. Attaching means for multigraph signature plates. 1,629,376; May 17.
- Buck, John W., Birmingham, Ala. Combined shade and curtain holder. 1,615,868; Feb. 1.
- Buck, Nelson E., D. W. Roper, and A. P. Thoms, Chicago, Ill. Cable joint. 1,613,749; Jan. 11.
- Buck, Ralph M., Richmond, Va., assignor to Atlas Plywood Corporation, Boston, Mass. Packaging articles of furniture and the like and pack or shell incasement therefor. 1,637,137; July 26.
- Buck, Sterling P. (See Suarez, Joseph M., assignor.)
- Buck, Sterling P., Baltimore, Md. Articulate car joint. 1,653,942; Dec. 27.
- Buckberg, Frank E., Chicago, Ill. Figure toy. 1,636,042; July 19.
- Buckeye Aluminum Company, The. (See Fabens, Andrew L., assignor.)
- Buckeye Blower Company, The. (See Harnett, Lewis D., assignor.)
- Buckeye Incubator Company, The. (See Linhart, Lena E., assignor.)
- Buckeye Iron and Brass Works. (See Rike, Frederick F., assignor.)
- Buckeye Steel Castings Company. (See Akitt, Norman E., assignor.)
- Buckeye Steel Castings Company, The. (See Bush, Samuel P., assignor.)
- Buckeye Steel Castings Company, The. (See Johnson, G. T., and Stertzbach, assignors.)
- Buckeye Steel Castings Company, The. (See Stertzbach, Harry W., assignor.)
- Buckeye Steel Castings Company, The. (See Stertzbach, H. W., and Hansen, assignors.)
- Buckeye Steel Castings Company, The. (See Whitridge, John C., assignor.)
- Buckham, George T. (See Dawson, A. T., and Buckham.)
- Buckingham, Edward J., Camberwell, London, England. Sparking plug. 1,644,635; Oct. 4.

- Buckius, Albert O., jr., assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Journal box. 1,615,614; Jan. 25.
- Buckle, Horrie L. T., Yiewsley, England, assignor to Victor Talking Machine Company. Sound-reproducing machine. 1,624,578; Apr. 12.
- Buckler, Charles H., Camden, N. J. Spring suspension. 1,620,070; Mar. 8.
- Buckles, Edgar C., J. Heurl, and R. Clow, assignors to Midland Manufacturing Company, Kansas City, Mo. Roof flashing. 1,615,929; Feb. 4.
- Buckley, Charles E., New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom dobby. 1,643,443; Sept. 27.
- Buckley, James J., Jamaica, assignor to S. W. Farber, Inc., New York, N. Y. Combination serving and smoking tray. Des. 74,001; Dec. 6.
- Buckley, Joseph L., Trenton, N. J., assignor, by mesne assignments, to Proctor & Swartz, Incorporated, Philadelphia, Pa. Drying apparatus. 1,618,913; Feb. 22.
- Buckley, Joseph W., Springfield, Mass. Valve construction for automatic hotwater heaters. 1,627,830; May 10.
- Buckley, Oliver B., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Translating device. 1,618,927; Jan. 11.
- Buckley, Oliver B., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling conductor system and method of operation. 1,624,470; Apr. 12.
- Buckley, Oliver B., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Loaded-submarine-cable telegraph system. 1,647,267; Nov. 1.
- Buckley, Oliver E., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control apparatus for electric discharge devices. 1,649,016; Nov. 15.
- Buckley, Roy B., Wichita, Kans. Shingle. 1,653,085; Dec. 20.
- Buckley, Thomas A., Brooklyn, N. Y. Gum massaging and cleansing device. 1,631,791; June 7.
- Buckley, Thomas A., Yonkers, N. Y. Massage device. 1,635,924; July 12.
- Buckman, Harold W., and H. Prentice, assignors to Vance Engineering Company, Pittsburgh, Pa. Control valve for fluid-pressure devices. 1,632,168; June 14.
- Buckman, Henry H., Jacksonville, Fla. Control system for heat-transfer apparatus. 1,648,672; Nov. 8.
- Buckmiller, Maximilian, New Haven, Conn. Assembling machine. 1,617,371; Feb. 15.
- Buckminster, Frank S., Pasadena, Calif. Exercising device. 1,629,676; May 24.
- Bucknam, Ezra J., Toronto, Ontario, Canada. Protecting banks and the like. 1,642,641; Sept. 13.
- Bucknam, Frank C., New Orleans, La. Shrimp-shelling machine. 1,627,479; May 8.
- Bucknam, James H., Jersey City, N. J., assignor of one-half to The Linde Air Products Company and one-half to The Harris Calorific Company, Cleveland, Ohio. Blowpipe tip. 1,631,007; May 31.
- Bucknam, Worthy C., Jersey City, N. J., assignor to The Linde Air Products Company. Welding and cutting apparatus. 1,645,893; Oct. 18.
- Bucknell, Ernest H., (See Bletcher, R. E., and Bucknell.)
- Buckner, Frank L., Hanford, Calif. Hinge for automobile seats. 1,642,226; Sept. 13.
- Buckner, William A., Fresno, Calif. Sprinkler. 1,651,582; Dec. 6.
- Buckner, William T., assignor of one-half to A. F. Guthrie, Shelbyville, Ky. Abdominal supporter. 1,629,067; May 17.
- Buckowitz, John, St. Louis, Mo. Surgical or orthopedic appliance. 1,630,108; May 24.
- Buckthorpe, Frederick T., and A. Barter, London, England. Box, cigarette, and like case. 1,624,858; Apr. 12.
- Buckwalter, Jacob S., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Feed regulator for grinding mills. 1,629,377; May 17.
- Buckwalter, Jacob S., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Release clutch for grinding mills. 1,633,844; June 28.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller bearing and assembling the same. 1,617,319; Feb. 15.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car truck. 1,640,179; Aug. 23.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car truck. 1,640,180; Aug. 23.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Mounting roller-bearing cups. 1,643,977; Oct. 4.
- Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Bearing. 1,649,285; Nov. 15.
- Buecyrs Company. (See Bager, S. R. W. M., Kaefer, and Lehman, assignors.)
- Buecyrs Company. (See Ferris, W., and Keese, assignors.)
- Buecyrs Company. (See Wilkinson, R. E., and Lehman, assignors.)
- Bud Wheel Company. (See Fine, Lewis, assignor.)
- Buda Company, The. (See Gormley, Frank L., assignor.)
- Budd, Clinton S., Clarion, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Glass-blowing machine. 1,629,653; May 24.
- Budd, Edward G., and J. H. Hunt, assignors to Budd Wheel Company, Philadelphia, Pa. Roll for making tapered wheel disks. 1,647,853; Nov. 1.
- Budd, Edward G., Manufacturing Company. (See Kelley, George L., assignor.)
- Budd, Edward G., Manufacturing Company. (See Kelley, G. L., and Eksbergian, assignors.)
- Budd, Edward G., Manufacturing Company. (See Kelley, G. L., and Winlock, assignors.)
- Budd, Edward G., Manufacturing Co. (See Ledwinka, Joseph, assignor.)
- Budd, Edward G., Manufacturing Company. (See Meadowcroft, Joseph W., assignor.)
- Budd, Edward G., Manufacturing Co. (See Tarbox, John P., assignor.)
- Budd, Edward G., Manufacturing Company. (See Trout, Walter M., assignor.)
- Budd, Thomas D., and W. R. Sinks, Chicago, Ill. Bin-floor dust-collecting system for grain elevators and the like. 1,629,991; May 24.
- Budd, Thomas D., and W. R. Sinks, Chicago, Ill. Dust-collecting system for grain-elevator garners. 1,630,780; May 24.
- Budd Wheel Company. (See Budd, E. G., and Hunt, assignors.)
- Budd Wheel Company. (See Clement, Samuel M., assignor.)
- Budd Wheel Company. (See Hunt, J. Harold, assignor.)
- Budd Wheel Company. (See Ingham, Edward S., assignor.)
- Budd Wheel Company. (See Ludwick, Herbert V., assignor.)
- Budd Wheel Company. (See Nelson, Emil A., assignor.)
- Budd Wheel Company. (See Ragsdale, Earl J. W., assignor.)
- Budd Wheel Company. (See Schoenwerk, Otto C., assignor.)
- Budd Wheel Company. (See Smith, John W., assignor.)
- Budd Wheel Company. (See Tarbox, John P., assignor.)
- Budd Wheel Company. (See Trout, W. M., and Des Jardins, assignors.)
- Budden, Charles H., St. Louis, Mo. Aquatic toy. 1,622,570; Mar. 29.
- Buddenberg, Gerhard, Beverungen, Germany. Veneer-jointing machine. 1,615,107; Jan. 18.
- Buddendorf, Frederick, Philadelphia, Pa. Electric-cord reel. 1,636,537; July 19.
- Buechele, Edward E., West View, and S. A. Martin, Bradfordwoods, Pa. Earth anchor for structural towers. 1,619,651; Mar. 1.
- Buechler, Emil, Chicago, Ill. Weigh-scale platform. 1,619,594; Mar. 1.
- Buedingen, William L., Milwaukee, Wis. Game. 1,653,545; Dec. 20.
- Buehler, Leon, jr. (See Small, N. M., and Buehler.)
- Buehler, Leon, jr., and N. M. Small, assignors to Frick Company, Waynesboro, Pa. Combined thawing tank and dumping apparatus. 1,628,947; May 17.
- Buehler, Randolph J., South Bend, Ind. Valve-controlling mechanism. 1,621,870; Mar. 22.
- Buehrer, Emil, assignor to The Geo. Kress Co., Green Bay, Wis. Humidifier for heating units. 1,648,537; Nov. 8.
- Buehrer, Emil, assignor to The Geo. Kress Co., Green Bay, Wis. Humidifier. 1,654,209; Dec. 27.
- Buel, Hamden, Fairview, N. J., assignor to International Patents Development Company, Wilmington, Del. Extraction method and apparatus. 1,638,550; July 19.
- Buel, Hillhouse, Seattle, Wash., assignor of one-half to W. P. Hammond, Scarsdale, N. Y. Machine for forming products from pulpy mass. 1,618,146; Feb. 15.
- Buel, Hillhouse, Seattle, Wash., assignor of one-half to W. P. Hammond, Scarsdale, N. Y. Forming articles from fibrous material. 1,624,471; Apr. 12.
- Buell, Oliver D., and H. J. Miller, Kansas City, Mo. Fire-extinguisher mounting. 1,645,584; Oct. 18.
- Buell, Oren C., assignor to The Federal Glass Company, Columbus, Ohio. Tumbler or article of similar nature. Des. 72,783; May 31.
- Buell, Oren C., assignor to The Federal Glass Company, Columbus, Ohio. Tumbler or article of similar nature. Des. 72,784; May 31.
- Buell, William J., Ecorse, Mich. Cable-threading apparatus. 1,616,410; Feb. 1.
- Buelna, Guadalupe, Santa Barbara, Calif. Sprinkler. 1,640,461; Aug. 30.
- Bueno, Emile, Hericourt, France. Electrically-controlled reproducing scribe. 1,622,366; Mar. 29.
- Bueno, Emile, Hericourt, France. Color or chromatic printing machine. 1,650,110; Nov. 22.
- Buerger, Charles B., assignor to Gulf Refining Company, Pittsburgh, Pa. Apparatus for condensing oils. 1,622,641; Mar. 29.
- Buerger, Charles B., assignor to Gulf Refining Company, Pittsburgh, Pa. Converting higher-boiling petroleum hydrocarbons into lower-boiling petroleum hydrocarbons. 1,623,025; Mar. 29.
- Buerger, Charles B., assignor to Gulf Oil Burner Company, Pittsburgh, Pa. Safety valve for oil burners and the like. 1,623,160; Apr. 6.

- Buerger, Charles B., assignor to Gulf Oil Burner Company, Pittsburgh, Pa. Safety valve for oil burners and the like. 1,628,161; Apr. 5.
- Buescher, Ferdinand A., Elkhart, Ind. Slide trombone. 1,624,810; Apr. 12.
- Buescher, Ferdinand A., Elkhart, Ind. Slide trombone. 1,647,079; Oct. 25.
- Buetner, Christ, et al. (See Jones, James M., assignor.)
- Buetner, T., & Co. (See Drummond, Katherine L., assignor.)
- Buff, Frank L., Wichita, Kans. Safety control valve. 1,644,170; Oct. 4.
- Buff, Louis F. (See Sebell, Harry, assignor.)
- Buffalo Bolt Company. (See Molinow, Edward A., assignor.)
- Buffalo Bolt Company. (See Topping, Charles P., assignor.)
- Buffalo Brake Beam Company. (See Campo, James A., assignor.)
- Buffalo Co-Operative Stove Co. (See Kener, Edward, jr., assignor.)
- Buffalo Forge Company. (See Dyer, Orville K., assignor.)
- Buffalo Forge Company. (See Yates, Arthur T., assignor.)
- Buffalo Steel Company, et al. (See Klinger, A. E., and Burkhardt, assignors.)
- Buffalo Wire Works Co. (See Scheeler, Charles A., assignor.)
- Buffard, Pasquale, Irvington, assignor to E. W. Zeb, Newark, N. J. Adjustable eccentric. 1,631,466; June 7.
- Buffington, Edwin C., assignor to U. S. Bobbin & Shuttle Company, Manchester, N. H. Bobbin ferrule and making the same. 1,614,648; Jan. 18.
- Buffington, Edwin C., assignor to U. S. Bobbin & Shuttle Company, Manchester, N. H. Apparatus for making rings. 1,626,915; May 3.
- Buffington, George L., and E. H. Hopson, assignors to Excel-O Tool & Manufacturing Co., Detroit, Mich. Rotary motor. 1,624,529; Apr. 12.
- Buffington, Harry C. (See Weaver, G. E., and Buffington.)
- Buffington, Harry C., assignor to Weaver Manufacturing Company, Springfield, Ill. Truck jack. 1,647,268; Feb. 12.
- Buffington, Harry C., and G. E. Weaver, Springfield, Ill., assignors to Weaver Manufacturing Company. Press bolster adjustment. 1,650,818; Nov. 29.
- Buffington, Joseph, Pittsburgh, assignor of one-half to Charles J. Kirk, New Castle, Pa. Catch. 1,623,302; Apr. 5.
- Buffington, Leonard C., Golden City, Mo. Combined end gate and ramp. 1,639,879; Aug. 23.
- Bugatti, Ettore, Moirheim, France. Elastic axle for motor vehicles. 1,620,323; Mar. 8.
- Bugatti, Ettore, Moirheim, France. Tool holder for cutting off pieces of work. 1,636,898; July 26.
- Bugbee, Lucian W., jr. (See Bugbee, Lucian W. and W. J., assignors.)
- Bugbee, Lucian W., Indianapolis, Ind., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Machine for grinding lenses. 1,630,253; May 31.
- Bugbee, Lucian W., jr., Indianapolis, Ind., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Curvature-measuring device. 1,637,408; Aug. 2.
- Bugbee, Lucian W., Indianapolis, Ind., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Marking a toric-lens. 1,642,575; Sept. 13.
- Bugbee, Lucian W., jr., Indianapolis, Ind., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Lens block. 1,643,978; Oct. 4.
- Bugbee, Lucian W. and L. W., jr., Indianapolis, Ind., assignors, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Tool for treating ophthalmic lenses and making the same. 1,651,181; Nov. 29.
- Bugbee, Lucian W., Indianapolis, Ind., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Lens-grinding machine. 1,651,182; Nov. 29.
- Bugbee & Niles Company. (See King, Rufus, assignor.)
- Bugenhagen, August E., Waco, Nebr. Chicken coop. 1,616,781; Feb. 8.
- Bugenhagen, George H., Minot, N. D. Combined tile and concrete floor construction. 1,628,708; May 17.
- Bugenhagen, George H., Minot, N. Dak. Snubber for automobiles. 1,645,519; Oct. 18.
- Bugzie, Horace H., assignor to The Dura Company, Toledo, Ohio. Sliding window for vehicle bodies. 1,634,449; July 5.
- Buhrke, Arthur Y. (See Stern, C. L., and Bugler.)
- Buhl, Lawrence D., Detroit, Mich. Metallic container construction. 1,648,718; Nov. 8.
- Buhl Stamping Company. (See Comp, Charles A., assignor.)
- Buhrke, Alfred E., River Forest, Ill. Golf club. 1,644,510; Oct. 4.
- Buhrke, R. H., Co. (See Schank, John E., assignor.)
- Buhse, Maximilian E., Minneapolis, Minn., assignor to Maryland Baking Co., Baltimore, Md. Ice-cream cone. 1,615,680; Jan. 25.
- Buhse Maximilian E. and W. W., Minneapolis, Minn., assignors to Maryland Baking Co., Baltimore, Md. Ice-cream cone. 1,615,681; Jan. 25.
- Buhse, Walter W. (See Buhse, Maximilian E. and W. W.)
- Buhtz, Ernst, Berlin, Germany. Method of and apparatus for carrying out chemical reactions or physical processes. 1,629,200; May 17.
- Builders Iron Company, The. (See Lyons, George W., assignor.)
- Builders Needs, Incorporated. (See Weissinger, Emil C., assignor.)
- Buit, Ralph, assignor to The Alaska Refrigerator Company, Muskegon, Mich. Brine-tank hanger. 1,646,186; Oct. 18.
- Bukoit, Roman B., Stevens Point, Wis. Scooter. 1,614,822; Jan. 18.
- Bukoit, Roman B., Stevens Point, Wis. Roller bearing. 1,614,823; Jan. 18.
- Bukoit, Roman B., Stevens Point, Wis. Hand-propelled child's vehicle. 1,614,824; Jan. 18.
- Bulgin, William J., Worcester, assignor to Heenan & Froude Limited, Manchester and Worcester, England. Top-feed door for refuse destructors and other furnaces. 1,642,100; Sept. 13.
- Bulk, Francis S., San Francisco, Calif. Nursing-bottle holder. 1,636,847; July 26.
- Bull, Arthur A., assignor to Handy Governor Corporation, Detroit, Mich. Manifold accessory or supercharger. 1,644,870; Oct. 11.
- Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Roller-cutter mounting. 1,634,318; July 12.
- Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,647,269; Nov. 1.
- Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,652,297; Dec. 13.
- Bull, Cornelius, Sagesund, near Tvedestrand, Norway. Blotter. 1,622,367; Mar. 29.
- Bullock, Frank W., Oshawa, Ontario, Canada. Shock absorber. 1,620,945; Mar. 15.
- Bull, George L., Oakland, Calif. Combustion engine. 1,629,677; May 24.
- Bull, William C., Brooklyn, N. Y. Shock-resisting glass. 1,632,363; June 14.
- Bull, William R., Springfield, Mass. Bipod. 1,618,966; Feb. 12.
- Bull, William R., Springfield, Mass. Method of and apparatus for cooling gun barrels. 1,631,190; June 7.
- Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Tool-slide mechanism. 1,631,579; June 7.
- Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Cutting compound distribution system. 1,635,702; July 12.
- Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Multiple-spindle drilling machine. 1,635,703; July 12.
- Bullard, Herbert A., assignor to Multi Vane Construction Company, Inc., New York, N. Y. Internal-combustion engine. 1,618,806; Feb. 22.
- Bullard Machine Tool Company, The. (See Bullard, Edward P., jr., assignor.)
- Bullard Machine Tool Company, The. (See Petersen, Carl M., assignor.)
- Bullard, Maurice L., Rutherford, N. J., assignor to P. S. Thibault & Co., Inc., Brooklyn, N. Y. Heat insulator. 1,646,388; Oct. 25.
- Bulle, Adolf G., Habana, Cuba. Sprayer. 1,635,069; July 5.
- Bulley, George W., assignor to The Miller Rubber Company, Akron, Ohio. Sound-amplifying horn. 1,617,513; Feb. 15.
- Bulley, George W., assignor to The Miller Rubber Company, Akron, Ohio. System of making treads. 1,624,826; Apr. 12.
- Bullington, Frank A., assignor to Bullington Motors, Kansas City, Mo. Sealing means for rotary engines. 1,644,564; Oct. 4.
- Bullington Motors. (See Bullington, Frank A., assignor.)
- Bullman, James L., near San Jose, Calif. Stereoscopic photography. 1,620,992; Mar. 15.
- Bullivant, Francis J., assignor to Valley Electric Company, St. Louis, Mo. Short-circuiting device for electric motors. 1,643,111; Sept. 20.
- Bullock, Calvin, Denver, Colo. Trunk. 1,624,714; Apr. 12.
- Bullock, Charles A. H., London, England. Typesetting apparatus. 1,631,515; June 7.
- Bullock, Charles F., Schenectady, N. Y., assignor to General Electric Company. Integrating and registering mechanism for flow meters and the like. 1,618,807; Feb. 22.
- Bullock, David M., Champaign, Ill. Football pants. 1,647,735; Sept. 6.
- Bullock, Edward W., assignor to Gleason Works, Rochester, N. Y. Machine for producing gears. 1,647,430; Nov. 1.
- Bullock, Jay, Marquette, Mich., assignor to A. S. Reed, Portland, Oreg. Check. 1,621,457; Mar. 15.
- Bullock's. (See Ebell, Helen, assignor.)
- Bullum, Steve, Los Angeles, Calif. Burner. 1,613,928; Jan. 11.
- Bullum, Steve, Los Angeles, Calif. Burner. 1,636,353; July 19.

- Bullum, Steve, Fellows, Calif. Drilling tool. 1,640,644; Aug. 30.
- Bulman, Hubert. (See Bowling, C. B., and Bulman.)
- Bulman, William V., Philadelphia, Pa. Combined floor drain and back pressure water trap. 1,629,457; May 17.
- Bulmer, J. H., et al. (See Nesmith, Samuel D., assignor.)
- Bulmer, James R., Fort Collins, Colo. Air cooler and humidifier. 1,632,766; Mar. 22.
- Bulova, Adolph, New York, N. Y. Strap-watch display device. 1,615,324; Jan. 25.
- Bulova, Joseph, New York, N. Y. Watch. 1,614,276; Jan. 11.
- Bumbarger, Clarence R., assignor to George W. Johnson Manufacturing Company, Kansas City, Mo. Fastening device. 1,648,673; Nov. 8.
- Bump, Spencer M., assignor to The Betcher Stamping & Manufacturing Company, Cleveland, Ohio. Chair hub. 1,643,694; Sept. 27.
- Bunbury, Hugh M., assignor to British Dyestuffs Corporation Limited, 8, Manchester, Mass. Preparation of amino-dianthrindes. 1,616,109; Feb. 1.
- Burce, Robert M., Portland, Oreg., assignor to Hancock Bros., San Francisco, Calif. Baggage-check holder. 1,645,796; Oct. 18.
- Bundrick, David D., assignor to Moore Dry Kiln Company, Jacksonville, Fla. Fireproof dry-kiln door. 1,647,080; Oct. 25.
- Bundy, Clifton L., assignor to Philadelphia Electrical & Manufacturing Company, Philadelphia, Pa. Lamp hanger. 1,620,516; Mar. 8.
- Bundy, Harry W., Detroit, Mich. Composite tubing. 1,650,321; Nov. 22.
- Bunevac, Frank, South Bend, Ind. Automobile body. 1,619,918; Mar. 8.
- Bunevac, Frank, South Bend, Ind. Convertible automobile body. 1,637,101; July 26.
- Bunevac, Paul, St. Louis, Mo. Parachute suit. 1,640,110; Aug. 23.
- Bungart, Paul J., Oceanside, N. Y. Drafting compass. 1,629,143; May 17.
- Bunge, Julius H. O., London, England, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding molten glass. 1,641,133; Aug. 30.
- Bunger, Edward W., Cedar Rapids, Iowa. Tire chain. 1,620,517; Mar. 8.
- Bunier, Joseph, Oklahoma City, Okla. Frame square and gauge. 1,643,695; Sept. 27.
- Bunis, Julius, Malden, Mass. Bumper and fender. 1,638,615; Aug. 9.
- Bunkenburg, August, Hamburg, Germany. Blade or vane applicable to wind-wheels, propellers, and the like. 1,649,057; Nov. 15.
- Bunker, Carl H., Arlington, assignor to Mellins Food Company of North America, Boston, Mass. Wrapping machine. 1,628,111; May 10.
- Bunker, Darius W., Quincy, and R. W. Cummings, Beverly, Mass. assignors to United Shoe Machinery Corporation, Paterson, N. J. Splitting machine. 1,638,915; Aug. 16.
- Bunker, H. M., & Co. (See Gardner, Percy, assignor.)
- Bunker, Herbert H., Jersey City, N. J. Stair-tread carrier. 1,613,004; Jan. 11.
- Bunker, John W. (See Horton, George W., assignor.)
- Bunker, John W., New York, N. Y. Illuminating device. 1,615,070; Jan. 18.
- Bunker, John W., Belmont, assignor to American Protein Corporation, Boston, Mass. Producing an edible protein product. 1,624,036; Apr. 12.
- Bunker, William H., Lisle, Ontario, Canada. Compressor for gas engines. 1,636,124; July 19.
- Bunn, Rodney T., Danville, Va. Galley-slug adjuster. 1,643,540; Sept. 27.
- Bunzel, Earl C., Stratford, and L. H. Messenger, Jr., Bridgeport, assignors to The C. O. Jelliff Manufacturing Corporation, Southport, Conn. Loom with edge trimmers. 1,636,551; July 19.
- Bunnell, J. H., & Company. (See Hesselbach, Henry, assignor.)
- Bunnenberg, Helene, Hannover, Germany. Gaiter. 1,621,153; Mar. 15.
- Bunz Brothers. (See Barnotow, Dominik M., assignor.)
- Bunting, Elmer N., East Orange, N. J. Granular carbon and making the same. 1,646,389; Oct. 25.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,404; Apr. 12.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,405; Apr. 12.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,406; Apr. 12.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,407; Apr. 12.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,760; May 31.
- Buysan, James, Flushing, N. Y. Clothes drier. 1,645,179; Oct. 11.
- Bunzel, Ernest, Norristown, Pa. Glazing spring. 1,614,277; Jan. 11.
- Buol Machine Company, The. (See Talbot, George J., assignor.)
- Buquet, Edouard, W. Montreux, France. Constructing metal wheels. 1,627,953; May 10.
- Bura, Benjamin H., Kremlin, Okla. Attachment for grain binders. 1,629,610; May 24.
- Burbach, John, Bangor, Wis. Draft coupling. 1,637,854; Dec. 2.
- Burbank, Louis S., Worcester, Mass. Dispensing top. 1,637,548; Aug. 2.
- Burch, Albert, and R. C. Yost, Medford, Oreg. Fruit-picking-pail cover. 1,636,679; July 26.
- Burch, Frederick R., assignor to L. A. Burch, Seattle, Wash. Windmill. 1,644,912; Oct. 11.
- Burch, Lawrence A., Jamestown, N. Y. Wrench. 1,647,340; Nov. 1.
- Burch, Louis A. (See Burch, Frederick R., assignor.)
- Burch, Orson G., Detroit, Mich. Sash-regulating device. 1,621,104; Mar. 16.
- Burch, Flow Works Co., The. (See Kime, Charles G., assignor.)
- Burcham, John, San Diego, Calif. Drill. 1,617,231; Feb. 8.
- Burchard, Albert F. (See Howard, Alonzo, assignor.)
- Burchard, O. A., et al. (See McCulloch, Stewart B., assignor.)
- Burchartz, Heinrich, Gelsenkirchen, Germany. Apparatus for the centrifugal casting of hollow bodies. 1,645,442; Nov. 8.
- Burchman, John, Albuquerque, N. Mex. Automatic flush tank and deodorizer. 1,643,286; Sept. 20.
- Burckhalter, James A., Barwell, S. C. Pliers. 1,613,929; Jan. 11.
- Burckhauser, John J. (See Richter, H. J. F., and Burckhauser.)
- Burd, Grace A., Colfax, Calif. Bedpan. 1,652,467; Dec. 13.
- Burd High Compression Ring Company. (See Dalln, Arvid G., assignor.)
- Burd High Compression Ring Company. (See Higgins, George H., assignor.)
- Burdell, Arthur, Atlanta, Ga., assignor, by mesne assignments, to A. Gilman, Cleveland, Ohio. Duplicating device. 1,622,415; Mar. 29.
- Burden, Everett, East Liverpool, Ohio. Glove. 1,620,434; Mar. 8.
- Burdett, Horace H., assignor to Draper Corporation, Hopedale, Mass. Intermittently-operable take-up mechanism for looms. 1,628,489; May 10.
- Burdett, Horace H., assignor to Draper Corporation, Hopedale, Mass. Builder mechanism for yarn spinning or winding machines. 1,644,643; Oct. 4.
- Burdett, Horace H., assignor to Draper Corporation, Hopedale, Mass. Bobbin-clutching means for rotatable spindles. 1,647,106; Oct. 25.
- Burdette, Richard S., Akron, Ohio. Flexible rule. 1,616,950; Feb. 8.
- Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Air bag. 1,620,435; Mar. 8.
- Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Sectional air bag. 1,625,304; May 10.
- Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Solid vehicle tire. 1,645,089; Oct. 11.
- Burdge, Jefferson S., Huntington Park, Calif., assignor to Warren Brothers Company, Boston, Mass. Road structure and process of making. Re16,799; Nov. 29.
- Burdick, Earl C., Herman, Nebr. Paper file. 1,635,310; July 12.
- Burdick, Charles L., London, England. Coin-wrapping machine. 1,628,576; May 10.
- Burdick, Charles L., London, England. Spraying apparatus. 1,629,144; May 17.
- Burdick, Charles L., Wood Green, London, England. Machine for counting sheets. 1,640,563; Aug. 30.
- Burdick, Charles L., Wood Green, London, England. Air conditioner. 1,640,564; Aug. 30.
- Burdick, Charles L., London, and J. D. Whiteman, Warrington, England. Liquid-forcing apparatus. 1,624,827; Apr. 12.
- Burdick Corporation, The. (See Anderson, Fritz A., assignor.)
- Burdick Corporation, The. (See Chesney, Jacques W. D., assignor.)
- Burdick Corporation, The. (See Maxson, Roland H., assignor.)
- Burdick, Eugene A. (See Burdick, Hiram M., assignor.)
- Burdick, Hiram M., Frankfort, N. Y., assignor to E. A. Burdick. Clothes drier. 1,648,636; Nov. 8.
- Burdine, Pearl G., Chester, Miss. Automobile seat construction. 1,642,610; Oct. 25.
- Burdon, Charles S. (See Bower, W. M., Burdon, and Stern.)
- Burdall, Raymond W., Gloucester Heights, N. J. Signal apparatus. 1,624,923; Apr. 19.
- Burdwise, Aaron, assignor to Musical Manufacturers' Corporation, Baltimore, Md. Fastening connector for strings of musical instruments. 1,619,503; Mar. 1.
- Bureau, Arthur. (See Schleppey, S. L., and Bureau.)
- Burritt, Frank F., Portland, Oreg. Sink fixture. 1,637,320; July 26.
- Burg, Eugen, Essen-on-the-Ruhr, Germany. Apparatus for burning powdered fuel. 1,618,808; Feb. 22.
- Burgamy, John R., administrator. (See Parker, Joseph E., assignor.)
- Burgan Corporation, The. (See Burke, William H., assignor.)

- Burgdorf, Herman, assignor to The Frank A. Rolling Company, Inc., Philadelphia, Pa. Paper-bag machine. 1,445,572; Oct. 25.
- Burge, Alfred, Gary, Ind., assignor to National Tube Company. Tapping-machine chuck. 1,630,254; May 31.
- Burge, Henry O., executor. (See Mitchell, Alfred H.)
- Burger, Frederick W. (See Mogford, E. C., and Burger.)
- Burger, Frederick W. (See Stocketh, B., and Burger.)
- Burger, Oswald, Berlin-Charlottenburg, Germany, assignor to Vestinghouse Electric & Manufacturing Company, New York, N. Y. Electric condenser. 1,621,058; Mar. 15.
- Burger, William A., Berkeley, assignor of one-half to H. P. Henningsen, Oakland, Calif. Folding bed. 1,639,193; Aug. 16.
- Burger, William J., East Cleveland, assignor to The Warner and Swayze Company, Cleveland, Ohio. Cross-slide carriage for turning and facing blanks. 1,620,868; Mar. 15.
- Burgeson, Charles F., Minneapolis, Minn., assignor to General Electric Company. Bushing-terminal connector. 1,645,090; Oct. 11.
- Burgess, Albert F., Moose Highlands, Mass., dedicated by means assignments to the people of the United States. Light motor-truck attachment for high-pressure spraying. 1,620,946; Mar. 15.
- Burgess Battery Company. (See Harris, De Witt C., assignor.)
- Burgess Battery Company. (See Hodge, Howard D., assignor.)
- Burgess Battery Company. (See Ring, Hans A., assignor.)
- Burgess Battery Company. (See Schulte, Walter B., assignor.)
- Burgess and Blacher. (See Burgess, Pearl M.)
- Burgess, C. F., Laboratories, Inc. (See Brown, Bruce K., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Schorger, Arlie W., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Storey, Oliver W., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Storey, O. W., and Collinson, assignors.)
- Burgess, C. F., Laboratories, Inc. (See Weiss, Howard F., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Weiss, H. F., and Burgess, assignors.)
- Burgess, Francis R., assignor to American Flange & Manufacturing Company, Chicago, Ill. Container and sealing means therefor. 1,633,555; June 21.
- Burgess, Francis R., assignor to American Flange & Manufacturing Company, Chicago, Ill. Container and sealing means therefor. 1,633,556; June 21.
- Burgess, Francis R., assignor to American Flange & Manufacturing Company, Chicago, Ill. Container and sealing means therefor. 1,640,594; Aug. 30.
- Burgess, Herbert S., Kellogg, Idaho. Cooling system for automobiles. 1,632,994; Jan. 20.
- Burgess, Joseph E. (See Nelson, A. R., and Burgess.)
- Burgess, Louis, Bayonne, N. J., assignor to Standard Development Company, New York, N. Y. Obtaining products from sludge. 1,642,060; Sept. 13.
- Burgess, Louis, Jersey City, N. J., assignor to Standard Oil Development Company. Production of fire-extinguishing foam. 1,653,147; Dec. 20.
- Burgess, Lysle P., and E. E. Stevenson, assignors to D. & B. Pump and Supply Company, Los Angeles, Calif. Rotor. 1,644,939; Oct. 11.
- Burgess, Martin L., assignor to The Marietta Manufacturing Company, Indianapolis, Ind. Coloring glass-ware. 1,615,973; Feb. 1.
- Burgess, Olney J., Norway, Me. Snowshoe. 1,613,576; Jan. 4.
- Burgess, Pearl M., et al. (See Burgess, Pearl M., assignor.)
- Burgess, Pearl M., Reading, assignor to P. M. Burgess and J. Blacher, dedicated under the firm name of Burgess and Blacher, Boston, Mass. Hospital operating room. 1,645,520; Oct. 18.
- Burgess, Robert, Newton Center, assignor of one-half to J. H. Jones, Winthrop, Mass. Cap spinning frame. 1,625,520; Apr. 19.
- Burgess, Roy H., Glen Ellyn, Ill. Vertical-file folding machine. 1,650,424; Nov. 22.
- Burgess, Roy H., Glen Ellyn, Ill. Die-cutting wheel. 1,650,425; Nov. 22.
- Burgess, Warren B., Boston, Mass. Compensator for radiocompasses. 1,646,443; Oct. 25.
- Burgett, Lynn S., assignor to The Rail Welding & Bonding Company, Cleveland, Ohio. Cable splicing. 1,642,484; Sept. 13.
- Burgett, Orr, Scobey, Mont. Grain-mixing and chemical-treating machine. 1,625,521; Apr. 19.
- Burgett, Paul F., Mexico, Mo. Truck. 1,640,263; Aug. 23.
- Burgewitz, John W., Detroit, Mich. Fountain hair comb. 1,638,523; Aug. 9.
- Burehard, E. G. (See Fourness, Wilfred, assignor.)
- Burehard, Edward G. (See Worth, Clemens S., assignor.)
- Burgin, Robert F., Buena Vista, Ga., assignor to A. B. Farquhar Co. Ltd., York, Pa. Lining for boilers and furnaces. 1,615,785; Jan. 25.
- Burgmann, Firm Feodor. (See Huth, Carl, assignor.)
- Burgoyne, Ernest G. E. (See Ricks, F., and Burgoyne.)
- Burgulieres, Denis P. J., assignor of one-fourth to G. Christ, Louisa, La. Elastic suspension wheel. 1,637,214; July 26.
- Burhan, William G., Kingston, N. Y. Oil filter. 1,632,461; June 14.
- Burian, Jaroslava, Leonia, N. J., assignor to The Sebring Pottery Company, Sebring, Ohio. Sugar bowl. Des. 74,137; Dec. 27.
- Burian, Jaroslava, Leonia, N. J., assignor to The Sebring Pottery Company, Sebring, Ohio. Casserole. Des. 74,138; Dec. 27.
- Burkart, William, Denver, Colo. Stake for trucks, wagons, and other vehicles. 1,631,118; June 7.
- Burke, Alfred W., Pelham Manor, N. Y. Washing machine. 1,613,787; Jan. 11.
- Burke, Arthur S., Sioux Falls, S. Dak. Toy vehicle. 1,621,350; Mar. 15.
- Burke, Charles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of plastics. 1,626,016; May 3.
- Burke, Charles E., assignor, by mesne assignments, to Du Pont Viscoid Company, Wilmington, Del. Fire-proofed product and the production thereof. 1,633,067; June 21.
- Burke, Charles W. (See Balzer, V. W., and Ballou, assignors.)
- Burke, Edwin, Denver, Colo., assignor to The Midwest Cabinet Company. Kitchen cabinet. 1,621,491; Mar. 22.
- Burke Electric Company. (See Stoeltzen, Charles L., assignor.)
- Burke, George W., jr. (See Polk, G. W., and Burke, jr.)
- Burke, George W., jr., Dayton, Ohio. Fire extinguisher. 1,634,975; July 5.
- Burke, George W., jr., Dayton, Ohio. Fire-extinguishing apparatus for aircraft. 1,634,977; July 5.
- Burke, George W., jr., Dayton, Ohio, assignor, by mesne assignments, to Battle-Fyre Company. Fire extinguisher. 1,634,976; July 5.
- Burke, Guillermo, and M. Acosta, Buenos Aires, Argentina. Adjustable regulable knife. 1,651,667; Dec. 6.
- Burke, Guillermo, and M. Acosta, Buenos Aires, Argentina. Knife. 1,653,932; Dec. 27.
- Burke, Harry C., and A. A. Friberg, assignors of one-third to S. D. Murdock, Los Angeles, Calif. Billiard table. 1,640,879; Aug. 30.
- Burke, Henry P. (See Vetterlein, Henry M., assignor.)
- Burke, James G., assignor to Bradley Pulverizer Company, Allentown, Pa. Supporting and driving construction for gyratory grinding mills. 1,616,844; Feb. 8.
- Burke, John C., Middlesboro, Ky. Clock. 1,623,907; Apr. 5.
- Burke, John W., Del Rio, Tex. Barber's comb. 1,628,577; May 10.
- Burke, Lawrence J., assignor to Curtis Leger Co., Chicago, Ill. Display plateau. Des. 73,826; Nov. 15.
- Burke, Lot F., Schenectady, N. Y. Lock holder. 1,629,859; May 24.
- Burke, Michael A., Lima, Ohio. Organized mechanism for dancing tables. 1,647,431; Nov. 1.
- Burke, Richard T., New Orleans, La. Device for automatically printing data on racing programs. 1,647,341; Nov. 1.
- Burke, Robert F. (See Hinman, J. H., and Burke.)
- Burke, Walter S., Cambridge, Mass. Promoting health, growth, and development of plants in greenhouses. 1,648,267; Nov. 8.
- Burke, Wilbur B., and E. G. Weller, East Cleveland, Ohio; said Weller assignor to said Burke. Interlocking electric switch. 1,636,932; July 26.
- Burke, William, Oakland, Calif. Internal-combustion engine. 1,648,719; Nov. 8.
- Burke, William H., Winner, S. Dak., assignor to The Buege Corporation, Chicago, Ill. Cotten-pulver. 1,639,616; Aug. 9.
- Burke, William W., South Bend, Ind., assignor to Wilson Bros., Chicago, Ill. Collaret-reinforcing means. 1,614,278; Jan. 11.
- Burkelman, Charles, New York, N. Y. Drain protector. 1,651,321; Nov. 29.
- Burkett, Byron C., assignor to The Burkett Lightning Rod Company, Fremont, Ohio. Lightning-rod connector. 1,626,180; Apr. 26.
- Burkett, John T. (See Boone, D. C., and Burkett.)
- Burkett Lightning Rod Company, The. (See Burkett, Byron C., assignor.)
- Burkey, Ernest R., Cleveland, Ohio. Paper-hanging device for walls. 1,626,020; Apr. 26.
- Burkhall, John M., Canyon, Tex. Sled lister cultivator. 1,646,007; Oct. 18.
- Burkhalter, William T., Reidsville, Ga. Releasing means for nut locks. 1,652,605; Dec. 13.
- Burkhalter, William T., and J. Stripling, Reidsville, Ga. Rail joint. 1,644,235; Oct. 4.
- Burkhardt, Henry J., Mount Ephraim, N. J., assignor to J. B. Loney Company, Philadelphia, Pa. Pressure gauge. 1,641,838; Sept. 6.
- Burkhardt Company, The. (See Johnson, Stanley G., assignor.)
- Burkhardt, Frederick C. (See Kilger, A. E., and Burkhardt.)

- Burkhart, Paul H., New Haven, Conn., and W. L. Bayne, Henry, Ill. Automobile lighting system and switch mechanism therefor. 1,620,187; Mar. 8.
- Burkholder, George A., Shoal Lake, Manitoba, Canada. Automobile ventilator. 1,623,383; Apr. 5.
- Burkholder, John C., West End, N. C. assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,624,579; Apr. 12.
- Burkholder, John H., assignor to Elite Manufacturing Company, Ashland, Ohio. Vehicle jack. 1,635,397; July 12.
- Burkman, John A., Port Arthur, Ontario, Canada. Hot-water furnace. 1,642,600; Sept. 13.
- Burks, Arthur W., Decatur, Ill. Pump. 1,619,285; Mar. 1.
- Burks, Arthur W., Decatur, Ill. Pump. 1,619,286; Mar. 1.
- Burks, Edwin H., Trent, Tex. Cultivator knife. 1,645,039; Oct. 11.
- Burleas Limited. (See Enock, Arthur G., assignor.)
- Burleigh, James K., assignor to B. & H. Utility Products, Inc., New York, N. Y. Attachment for typewriters. 1,616,855; Feb. 8.
- Burleigh, Rufus B., Tarpon Springs, Fla. Tool for removing jar caps. 1,641,152; Sept. 6.
- Burleson, Joseph F., Scottsdale, Ariz. Poppet valve. 1,623,826; Apr. 5.
- Burlew, Gilderoy O., New York, N. Y. Artificial tooth. 1,633,241; June 21.
- Burley, Harry B., Brookline, Mass., assignor to Boston Insulated Wire & Cable Company. Apparatus for the manufacture of electric wires. 1,630,922; May 31.
- Burley, Thomas, Seattle, Wash. Fireplace. 1,638,286; Aug. 9.
- Burlin, Adolph L., assignor of one-third to Sheldon Leicester and one-third to L. Holman, London, England. Manufacture of dentures and the like. 1,615,212; Jan. 25.
- Burlin, Leslie H., Chicago, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Aquarium. 1,620,006; Mar. 8.
- Burlingame, Fred B., Pawtucket, R. I., assignor to Attleboro Braiding Co., South Attleboro, Mass. Lacing-tip machine. 1,625,522; Apr. 19.
- Burlingham, James H., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Distilling apparatus. 1,626,223; Apr. 26.
- Burmah Oil Company Limited, The. (See Allan, H. L., and Moore, assignors.)
- Burner, Louis, and A. L. Munroe, Omaha, Nebr. Air-heating furnace. 1,651,668; Dec. 6.
- Burnap, James M., Chicago, Ill. Foot-washing slipper. 1,645,688; Oct. 18.
- Burnap, Robert S., East Orange, N. J., assignor to General Electric Company. Electric lamp. 1,650,602; Nov. 29.
- Burnett, Lewis W., Vancouver, British Columbia, Canada. Electric governor. 1,639,786; Nov. 29.
- Burnett, William J., Glenside, assignor to Beaumont Manufacturing Company, Philadelphia, Pa. Gate for gravity discharge hoppers. 1,649,286; Nov. 15.
- Burniel, James H., South Akron, Ohio. Dirigible head-light. 1,649,661; Nov. 15.
- Burnham, Edward C., assignor to Draper Corporation, Hialeah, Mass. Bobbin support for filling replenishing looms. 1,644,644; Oct. 4.
- Burnham, George A., Saugus, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Multiphase, thermally-actuated circuit controller. 1,652,346; Dec. 13.
- Burns, Cloyd E., Jackson Heights, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,647,854; Nov. 1.
- Burns, Cloyd E., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,647,855; Nov. 1.
- Burns, Jabez, & Sons, Inc. (See Kopf, Joseph L., assignor.)
- Burns, James A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Adjustable nut. 1,645,276; Oct. 11.
- Burns, John L., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Counterbalancing device for shafts. 1,646,897; Oct. 25.
- Burns, Katherine E., assignor to Franklin Simon & Co. Inc., New York, N. Y. Dress. Des. 73,827; Nov. 15.
- Burns, Katherine E., assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 73,964; Nov. 29.
- Burns, Katherine E., assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 74,094; Dec. 20.
- Burns, Raymond W., Poughkeepsie, N. Y. Clamp carrier. 1,653,035; Dec. 20.
- Burns, Robert H. (See Higgins, J. J., and Burns.)
- Burns, Wilfred E., Burlingame, assignor to M. J. B. Co., San Francisco, Calif. Key-opening-car structure. 1,650,061; Nov. 22.
- Burrell, D. H., & Co. (See Feldmeier, H., and Wray, assignors.)
- Burrell, William C., Kankakee, Ill. Bar support. 1,651,940; Dec. 6.
- Burrow, George A., Spokane, Wash. Tire boot. 1,653,388; Dec. 20.
- Burrow, James H., assignor to Burrow Manufacturing Company, Spokane, Wash. Repair shield for vehicle tires. 1,646,413; Oct. 11.
- Burrow Manufacturing Company. (See Burrow, James H., assignor.)
- Burrows, Virgil A., Kansas City, Mo. Automatic shut-off. 1,653,983; Dec. 27.
- Burson Knitting Company. (See Hinchliff, Ralph, assignor.)
- Burt, F. N., Company. (See Carle, Harold, assignor.)
- Burt, F. N., Company. (See Darrin, Marc, assignor.)
- Burt, F. N., Company. (See Royal, Joseph N., assignor.)
- Burt, Harold F., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill. Adjusting attachment for coin-control levers. 1,649,017; Nov. 15.
- Burt Machine Company. (See Parker, Delbert D., assignor.)
- Burichaell, Samuel W., Oakland, Calif. Apparatus for cementing soles or heels to shoes. 1,653,449; Dec. 20.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,645,795; Oct. 18.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,645,796; Oct. 18.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,645,797; Oct. 18.
- Burton, Edward, Grand Rapids, Mich., assignor to Keeler Brass Co., Grand Rapids, Mich. Drawer pull. Des. 73,640; Oct. 18.
- Burton, Edward, assignor to Keeler Brass Company, Grand Rapids, Mich. Bass plate for a drawer pull. Des. 74,095; Dec. 20.
- Burton, Everett T., Jackson Heights, assignor to Western Electric Company, Incorporated, New York, N. Y. System for indicating frequency changes. 1,647,270; Nov. 1.
- Burton, Garrett G., Topeka, Kans. Sealing composition for punctures in pneumatic tires and the like. 1,645,585; Oct. 18.
- Burton, Isaac F., deceased, M. E. Burton, executrix, assignor to Visualtone Company of America, Philadelphia, Pa. Governor and governor stop. 1,648,109; Nov. 8.
- Burton, Jesse B., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Gauging machine. 1,652,298; Dec. 13.
- Burton, Manie E., executrix. (See Burton, Isaac F.)
- Burton, Warren D. (See Page, C. B., and Burton.)
- Burton, Warren D., Dayton, Ohio. Tension meter. 1,650,603; Nov. 29.
- Busch, Ben, Detroit, Mich., assignor, by mesne assignments, to E. D. Clark, Morenci, Mich. Anemometer. 1,649,568; Nov. 15.
- Busch, Herman F., Millvale, assignor to Armstrong Cork Company, Pittsburgh, Pa. Cork ribbon and making the same. 1,646,187; Oct. 18.
- Busch-Sulzer Bros.-Diesel Engine Company. (See Hawks, Arthur S., assignor.)
- Busch-Sulzer Bros.-Diesel Engine Co. (See Schaeer, Charles, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Co. (See Schaeeren, Ernst, assignor.)
- Busekist-Scharnweber, Heinrich, Brühlhof-Kirchen-on-the-Sieg, Germany. Autogenous welding and electrode-guiding machine. 1,644,896; Oct. 11.
- Bush, Luther M., Royersford, Pa. Joint fastener. 1,641,325; Nov. 29.
- Bush, Wellington C., Port Byron, N. Y. Animal trap. 1,652,606; Dec. 13.
- Bushek, John, Elmhurst, N. Y. Machine for straightening disk wheels. 1,647,211; Nov. 1.
- Bushnell, Charles S., (See Howe, W. K., and Bushnell.)
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Brake-applying apparatus. 1,649,444; Nov. 15.
- Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Apparatus for elevating and distributing material. 1,645,942; Oct. 18.
- Buss, Hadley N. and W. R., Holland, Mich. Motor-driven pump. 1,651,013; Nov. 29.
- Buss, Wendell R. (See Buss, Hadley N. and W. R.)
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Auxiliary support and guard for brake beams and assembling same. 1,644,871; Oct. 18.
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Car-truck structure. 1,650,931; Nov. 29.
- Buswell, Annie M., et al., executrices. (See Rhoades, Alonzo E.)
- Buwell, Walter, Bridgeport, Conn., assignor to Standard Compositior Aktiengesellschaft, Berlin, Germany. Line-casting machine. 1,651,993; Dec. 6.
- Butchart, William A. (See De Mier, Fred, assignor.)
- Butcher, Alfred, Roselle Park, N. J. Oil burner. 1,647,956; Nov. 1.
- Butcher, Charles A., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,650,932; Nov. 29.
- Burlingham, William, Tenafly, and R. L. Lovell, Cranford, assignors to Adams, Lovell, Burlingham, Inc., Jersey City, N. J. Compressor for refrigerating systems. 1,622,023; Mar. 22.

- Burman, George A., assignor to E. J. Woodison Company, Detroit, Mich. Multiway valve. 1,630,781; May 31.
- Burman, Peter M., Seattle, Wash. Folding stand. 1,618,930; Jan. 11.
- Burmeister, Charles C., Davenport, Iowa. Staggering hook. 1,620,436; Mar. 8.
- Burnelster, Louis, Milwaukee, Wis. Elevator leg. 1,610,522; Aug. 20.
- Burnister, Donald M., New York, N. Y. Separable fastener. 1,638,321; Aug. 9.
- Burner, Thomas E., Carthage, Ill. Cornstalk shredder. 1,630,837; Aug. 23.
- Burner, William L., Koppel, and O. E. Kantenwein, New Castle, assignors to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Dump car. 1,621,871; Mar. 22.
- Burner, William L., Koppel, Pa., and O. E. Kantenwein, Oak Park, Ill., assignors to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Supporting mechanism for dump cars. 1,631,241; June 7.
- Burnett, Charles A., Elkhart, Ind. Cleaning out pipe lines. 1,628,580; May 10.
- Burnett, John P., assignor to Automatic Motion Picture Display Co., Chicago, Ill. Continuous moving-picture machine. 1,624,580; Apr. 12.
- Burnett, John W., Cambridge, Mass. Faucet. 1,639,326; Aug. 16.
- Burnett, Richard W., Chicago, Ill. Railway car. 1,623,303; Apr. 5.
- Burney, Charles D. (See Wallis, B. N., and Burney.)
- Burney, Charles D., assignor to Airship Guarantee Company Limited, Westminster, London, England. Lighter-than-air aircraft. 1,632,169; June 14.
- Burney, Charles D., Westminster, London, assignor to Airship Guarantee Company, Limited, London, England. Mooring mast and mooring gear for lighter-than-air aircraft. 1,636,354; July 19.
- Burnham, Charles, Washington, D. C. Box-making machine. 1,621,655; Mar. 22.
- Burnham, Charles, Washington, D. C. Box-making machine. 1,635,532; July 12.
- Burnham Chemical Company. (See Gauger, A. W., and Storch, assignors.)
- Burnham, Edward C., and H. A. Davis, assignors to Draper Corporation, Hopedale, Mass. Filling-control mechanism for filling replenishing looms. 1,626,505; Apr. 26.
- Burnham, George A., Sausus, assignor, by mesne assignments, to Conduit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,631,913; June 7.
- Burnham, George A., Sausus, assignor, by mesne assignments, to Conduit Electrical Manufacturing Corporation, Boston, Mass. Multipole-electric-switch casing. 1,648,444; Sept. 27.
- Burnham, John A., Marblehead, Mass. Representing cascades in landscapes. 1,627,270; May 3.
- Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,620,437; Mar. 8.
- Burnley, William B., Long Beach, Calif. Massaging device. 1,631,792; June 7.
- Burns, Fred P. (See Turner, A., and Burns.)
- Burns, Bernard, Toronto, Ontario, Canada. Keyboard. 1,616,025; Feb. 1.
- Burns, Charley E., Haynesville, La. Pump. 1,626,181; Apr. 26.
- Burns, Dana B., Asheville, N. C. Valve mechanism for internal-combustion engines. 1,623,525; Apr. 5.
- Burns, David E., deceased; Grand Rapids Trust Company, executor, assignor to C. G. Willett, Grand Rapids, Mich. Road-scraper-adjusting mechanism. 1,625,019; Apr. 19.
- Burns, Dawson J. (See Kneel, Emil, assignor.)
- Burns Dental Casting Machine Company. (See Van Sieten, Henry W., assignor.)
- Burns, Edward L., assignor, by mesne assignments, to S. D. Williams, Los Angeles, Calif. Fire extinguisher. 1,633,312; June 21.
- Burns, Eugene O., Reno, Nev. Device for punching and plugging cans. 1,641,571; Sept. 6.
- Burns, Francis B., North River, N. Y. Gravity separator for garnet ores. 1,635,111; July 5.
- Burns, George J., Youngstown, Ohio. Thermal gasifying motor construction. 1,626,783; May 3.
- Burns, Jabez, & Sons, Inc. (See Kopf, Joseph L., assignor.)
- Burns, John H., Brisbane, Queensland, Australia. Resilient tire. 1,616,026; Feb. 1.
- Burns, Julius G., and H. S. Davis, New York, N. Y., assignors to Purecold Products of America, Inc. Freezing press. 1,620,993; Mar. 15.
- Burns, Julius G., and H. S. Davis, New York, N. Y., assignors to Purecold Products of America, Inc. Refrigerating household unit. 1,622,026; Mar. 29.
- Burns, Leslie E. (See Esterline, A. M., Burns, and Esterline.)
- Burns, Raymond W., Poughkeepsie, N. Y. Clamp machine. 1,628,112; May 10.
- Burns, Raymond W., Poughkeepsie, N. Y. End-clamping device. 1,628,113; May 10.
- Burns, Richard J., Lovellville, Ohio. Expansion steam trap. 1,621,623; Mar. 22.
- Burns, Wilford E. (See Bardet, G. A., and Burns.)
- Burns, Wilfred E., Burlingame, assignor to M. J. B. Co., San Francisco, Calif. Can and method of forming. 1,615,930; Feb. 1.
- Burns, William A., London, assignor, by mesne assignments, to C. Gold, Ravens, England. Sign. 1,619,189; Mar. 1.
- Burwald, William W., assignor of one-half to W. M. Fearon, Los Angeles, Calif. Folding truck. 1,643,268; Sept. 20.
- Burpee Can Sealer Company. (See Burpee, Frank W., assignor.)
- Burpee, Frank W., assignor to Burpee Can Sealer Company, Chicago, Ill. Machine for cutting green corn in the cob. 1,623,088; Apr. 5.
- Burpee, Frank W., assignor to Burpee Can Sealer Company, Chicago, Ill. Green-vegetable cutter. 1,623,089; Apr. 5.
- Burpee, John H., and D. E. Lain, Bellingham, Wash. Engine piston. 1,623,717; Apr. 5.
- Burr, George B., Seattle, Wash. Reinforced concrete paving. 1,623,090; Apr. 5.
- Burr, Harry B., and M. A. Grieve, Los Angeles, Calif. Electric door lock. 1,635,028; July 5.
- Burr, Henry O. (See Young, H. C., and Burr.)
- Burrell, D. H. & Co. (See Feldmeier, Harvey, assignor.)
- Burrell, Edward P., Shaker Heights, and J. J. N. Van Harnersveld, Cleveland Heights, assignors to The Warner and Swasey Company, Cleveland, Ohio. Way guard for machine tools. Re16,534; Jan. 11.
- Burrell, Walter C., assignor to Masonic History Company, Chicago, Ill. Book cover. Des. 71,938; Feb. 1.
- Burress, Herman N., assignor of one-half to L. T. Compton, Matewan, W. Va. Switch-throwing mechanism. 1,620,947; Mar. 15.
- Burrows, John, Arlington, Tex. Yieldable barrier for automatic railway-crossing gates. 1,628,651; May 17.
- Burress, Raymond E., Crockett, Calif. Cigarette extinguisher. 1,637,172; July 26.
- Burrichter, John A., St. Paul, Minn. Greasless-doughnut machine. 1,632,115; June 14.
- Burris, Carl, Clayton, Mo. Maintenance record. 1,633,724; June 28.
- Burritt, William H., St. Louis, Mo. Vehicle wheel. 1,623,162; Apr. 5.
- Burrough, Willard L., et al. (See Tibbetts, Robert M., assignor.)
- Burroughs Adding Machine Company. (See Boyer, Joseph, assignor.)
- Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)
- Burroughs Adding Machine Company. (See Rinsche, Frank C., assignor.)
- Burroughs, John J., Houston, Tex. Weather strip. 1,629,017; May 17.
- Burrow, Edgar A., Brady Tex. Road leveler or planer. 1,629,678; May 24.
- Burrow, Frank V., Glendale, Calif., assignor of one-half to G. H. Winchel, sr., Muskogee, Okla. Amusement apparatus. 1,621,658; Mar. 22.
- Burrowes, E. T., Company, The. (See King, William J., assignor.)
- Burrows, Fred A., York, Pa. Steam trap. 1,627,271; May 3.
- Burrows Magnetic Equipment Corporation. (See Brown, Thomas B., assignor.)
- Burrows Magnetic Equipment Corporation. (See Stoughton, Bradley, assignor.)
- Bursley, Edmund S. (See Davis, L. W., and Bursley.)
- Burson, Albert L., et al. (See Burson, George E., assignor.)
- Burson, Frank B., et al. (See Burson, George E., assignor.)
- Burson, George E., assignor of twelve and one-half per cent to A. L. Burson, twelve and one-half per cent to H. W. Burson, twelve and one-half per cent to F. B. Burson, and twelve and one-half per cent to H. H. Burson, Glendale, Calif. Internal-combustion engine. 1,628,027; May 10.
- Burson, Harold H., et al. (See Burson, George E., assignor.)
- Burson, Harvey W., et al. (See Burson, George E., assignor.)
- Burson Knitting Company. (See Hinchliff, Ralph, assignor.)
- Burson Knitting Company. (See Parker, William S., assignor.)
- Burstall, William H., Los Angeles, Calif. Packing construction. 1,618,511; Feb. 22.
- Bursztyn, Szymon, New York, N. Y. Changeable seat. 1,618,697; Feb. 22.
- Burt, Cora W., et al., executors. (See Burt, Harry B.)
- Burt, F. N., Company. (See Royal, Joseph N., assignor.)
- Burt, Harry B., deceased, Youngstown, Ohio; C. W. Burt and The Dollar Savings and Trust Company, executors, assignors to C. W. Burt. Ice-cream sucker. 1,618,324; Feb. 22.
- Burt, John O., Memphis, Tenn. Fumigator. 1,640,028; Aug. 23.
- Burt Machine Company. (See Wild, Charles H., assignor.)
- Burt, Sidney C., Chicago, Ill. Ventilator. 1,617,939; Feb. 15.
- Burtchall, Peter T., San Rafael, Calif. Garment attachment. 1,621,826; Mar. 22.
- Burtis, Ira E. (See Kings, Thomas W., assignor.)

- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,614,229; Jan. 11.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,623,384; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,623,385; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,623,386; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,623,387; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Inlet manifold for internal-combustion engines. 1,623,388; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,623,389; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,623,390; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,623,391; Apr. 5.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,624,581; Apr. 12.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,624,582; Apr. 12.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,624,583; Apr. 12.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,624,584; Apr. 12.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,626,387; Apr. 26.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,626,388; Apr. 26.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,632,879; June 21.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Inlet manifold for internal-combustion engines. 1,632,880; June 21.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,632,881; June 21.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,633,921; June 23.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,635,533; July 12.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,635,534; July 12.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,635,535; July 12.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Cylinder head for sleeve-valve internal-combustion engines. 1,637,519; Aug. 2.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,638,287; Aug. 9.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,638,288; Aug. 9.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Gaseous-tuff pump for internal-combustion engine. 1,638,289; Aug. 9.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,638,291; Aug. 9.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,639,164; Aug. 16.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,639,165; Aug. 16.
- Burnett, Everett R., and H. A. Brunell, assignors to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,638,290; Aug. 9.
- Burton-Boston Brush Co. (See Steidle, assistant, assignor.)
- Burton, Charles S., Oak Park, Ill. Container for music rolls and the like. 1,610,951; Feb. 8.
- Burton, Charles S., Oak Park, Ill. Container for music rolls and the like. 1,639,166; Aug. 16.
- Burton, Charles W., Jr., Ocean Park, Calif. Pneumatic gear-shifting device. 1,632,947; June 21.
- Burton, Edward L., Sandwich, Ill. Pneumatic hammer. 1,639,076; Aug. 16.
- Burton, Frank P., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action firearm. 1,631,242; June 7.
- Burton, George E., Philadelphia, Pa. Grinder for the cutters of pencil sharpeners. 1,633,845; June 28.
- Burton, Harry H., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Spooler bobbin holder. 1,621,059; Mar. 15.
- Burton, Harry H., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,626,506; Apr. 26.
- Burton, Harry R., Worcester, Mass. Windshield clearer. 1,622,416; Mar. 29.
- Burton, Hubert H. (See Barrett, A. G., and Burton.)
- Burton, Joseph H. (See Roberts, W. S., and Burton.)
- Burton, Leroy E. (See Dempsey, J. E., and Burton.)
- Burton, Paul C., La Grange, Ill., assignor to The National Automatic Tool Company, Richmond, Ind. Spring-operated clutch-shifting mechanism. 1,640,530; Aug. 30.
- Burton, Ralph B. (See Twyman, B. W., and Burton.)
- Burton, Robert N. (See Dahl, Conrad, assignor.)
- Burton, Thomas L., New York, N. Y. Mount for brake beam safety bars. 1,641,621; Sept. 6.
- Burton, Thomas L., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock holder. 1,636,805; July 26.
- Burton, Troy P., and S. W. Ford, Denver, Colo. Dirigible spotlight. 1,613,642; Jan. 11.
- Burwell, Jay S., Sharon, Pa. Shock absorber. 1,621,579; Mar. 29.
- Burwell, Jay S., Sharon, Pa. Shock absorber. 1,641,572; Sept. 6.
- Busch, Charles H., and W. A. Vollmer, assignors to Simmons Company, Kenosha, Wis. Leg construction. 1,638,501; Aug. 9.
- Busch, Herman P., Millvale, assignor to Armstrong Cork Company, Pittsburgh, Pa. Treatment of cork textile rolls. 1,629,145; May 17.
- Busch, Herman F., Millvale, assignor to Armstrong Cork Company, Pittsburgh, Pa. Compressed-cork article and making the same. 1,642,989; Sept. 20.
- Busch-Sulzer Bros.-Diesel Engine Company. (See Hawks, Arthur S., assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Schenker, Walter, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Co. (See Schlatter, Rudolph, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Co. (See Schneider, Rudolph, assignor.)
- Buschman, Theodor E., Chemnitz-Kappel, assignor to Wanderer-Werke, vorm. Winkhofer & Jaenicke Akt.-Ges., Schonau, near Chemnitz, Saxony, Germany. Apparatus for driving typewriters provided with calculating mechanism. 1,623,965; Apr. 12.
- Busey, Herbert B., and W. A. Hallstrom, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Spooling machine. 1,627,831; May 10.
- Busey, Hubert J., Wichita, Kans. Tomb or grave closing device. 1,631,853; June 7.
- Bush, A. G. (See Miller, Otto A., assignor.)
- Bush, Albert C., Chula Vista, Calif. Celery-bleaching-paper-placing machine. 1,635,778; July 12.
- Bush, Ellis C., assignor to Art Metal Construction Company, Jamestown, N. Y. Guiding or controlling mechanism for trucks or the like. 1,633,473; June 21.
- Bush, George B. (See Hoff, H. J., and Bush.)
- Bush, Leone Piano Company. (See Lane, Walter, assignor.)
- Bush, Le Grand C., Philadelphia, Pa., assignor to International Time Recording Company of New York, Endicott, N. Y. Interlocking device for doorlocks and the like. 1,614,711; Jan. 18.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,621,827; Mar. 22.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Spring support. 1,629,475; May 24.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Spring support. 1,629,476; May 24.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,635,740; July 12.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,637,928; Aug. 2.
- Bush, Vannevar, Chelsea, assignor by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electrical apparatus. 1,617,178; Feb. 8.
- Bush, Vannevar, Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electrical apparatus. 1,617,181; Feb. 8.
- Busha, Charley P., Redore, assignor of one-fourth to P. R. Eklund, Hibbing, and one-sixteenth to W. I. Poole, Duluth, Minn. Loping-pony toy. 1,643,371; Sept. 27.
- Busha, Leon, assignor to W. E. Nelson, Minneapolis, Minn. Strip shingle. 1,626,621; May 19.
- Busha, Leon, assignor to W. E. Nelson, Minneapolis, Minn. Strip shingle. 1,629,146; May 17.
- Busha, Leon, assignor to W. E. Nelson, Minneapolis, Minn. Strip shingle. 1,633,474; June 21.
- Bushae, Joseph E., Jersey City, N. J. Smoking pipe. 1,620,458; Mar. 8.
- Bushier, Franklin P. (See Morgan, H. D., and Bushy.)
- Bushman, Edward L., East Orange, N. J., K. L. Curtis, New York, N. Y., and J. Ward, Elizabeth, N. J., assignors to Bates Valve Bag Company, Chicago, Ill. Bag-filling machine. 1,629,860; May 24.

- Bushnell, Alvah, Philadelphia, Pa. File. 1,634,450; July 5.
- Bushnell, Charles R., Beverly Hills, Calif. Refrigerating apparatus. 1,628,820; May 17.
- Bushnell, Charles S., (See Dudley, S. W., and Bushnell.)
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Intermittent inductive train control. 1,619,698; Mar. 1.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,620,188; Mar. 5.
- Bushnell, Charles S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Train control. 1,628,452; May 10.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,628,453; May 10.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Brake-applying apparatus. 1,628,454; May 10.
- Bushnell, Robert C., Philadelphia, Pa. Tire pump. 1,640,880; Aug. 30.
- Bushong, Grover C., Whittier, Calif. Tubing bleeder. 1,644,811; Apr. 14.
- Bushwick Atlantic Bank. (See Furedy, Frank, assignor.)
- Busiek, William A., Belleville, Ill. Range. 1,616,680; Feb. 8.
- Businger, Emil F. (See Reis, J. M., and Businger.)
- Buss, August, Detroit, Mich. Circulating drip vent. 1,619,238; Mar. 1.
- Buss, Machine Works. (See Buss, W. R., and Dick, assignors.)
- Buss, Otto W. L., Minneapolis, Minn. Window structure. 1,613,017; Jan. 4.
- Buss, Otto W. L., Minneapolis, Minn. Window structure. 1,626,266; Apr. 26.
- Buss, Otto W. L., Minneapolis, Minn. Hinge. 1,632,116; Jan. 14.
- Buss, Otto W. L., Minneapolis, Minn. Fireproof sash frame. 1,640,595; Aug. 30.
- Buss, Wendell R., and M. E. Dick, assignors to Buss Machine Works, Holland, Mich. Sectional feed roller for woodworking machine. 1,625,881; Apr. 26.
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Two-way brake-beam support chair. 1,636,848; Feb. 26.
- Busse, William H., et al. (See Penner, George, assignor.)
- Bussell, Freddie S., Indianapolis, Ind. Automatic adjusting end-thrust bearing. 1,636,283; July 19.
- Bussey, Hugh, East St. Louis, Ill. Spreader. 1,637,601; Aug. 2.
- Bussy, Martha E., New Orleans, La. Drying apparatus. 1,630,052; May 31.
- Bussmann, Henry T., St. Louis, Mo. Electric fuse. 1,629,948; May 24.
- Bustamante, Eduardo, Staten Island, N. Y. Device for firing cannons. 1,620,994; Mar. 15.
- Buswell, Cecil J., Wallingford, England. Harrow. 1,637,633; Aug. 2.
- Buswell, Walter, Bridgeport, Conn., assignor to Standard Compositor Aktiengesellschaft, Berlin, Germany. Device for distributing the matrices, pipes, and the like for typographic machines. 1,613,082; Jan. 4.
- Butchart, Cuthbert S., Rye N. Y. Golf club. 1,638,916; Aug. 16.
- Butcher, Charles A., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric station. 1,619,450; Mar. 1.
- Butcher, Charles A., East Pittsburgh, Pa., and L. F. Hunt, Los Angeles, Calif., assignors to Westinghouse Electric & Manufacturing Company. Time-limit relay. 1,642,061; Sept. 13.
- Butcher, Galeima, Norfolk, Va. Window adjustment. 1,643,871; Sept. 27.
- Butcher, Galeima, Norfolk, Va. Casement-window-adjustment construction. 1,643,921; Sept. 27.
- Butcher, John E., and H. B. Harris, Garber, Okla. Wire-cable cutter. 1,623,044; Apr. 5.
- Butcher, John P., Canton, Ohio. Collapsible crate. 1,624,212; Apr. 12.
- Butcher, Joseph A., Lake Charles, La. Attachment for oil tanks. 1,643,833; Sept. 27.
- Butell, Adolphus S., Durango, Colo. Shift lever. 1,638,182; Aug. 9.
- Butell, Adolphus S., Kansas City, Mo. Transmission. 1,643,055; Sept. 20.
- Butler, Arthur, Watford, assignor to Ronald Trist & Company, Limited, London, England. Alarm device for indicating high and low liquid level. 1,617,101; Feb. 8.
- Butler, Carlton. (See Baddley, J., Chorley, and Butler.)
- Butler, Charles A., Okmulgee, Okla. Machine for dressing bits. 1,614,649; Jan. 18.
- Butler, Charles A., Okmulgee, Okla. Deep-well-drilling apparatus. 1,650,426; Nov. 22.
- Butler, Charles R. (See Rasmussen, Chester A., assignor.)
- Butler, Edward A., Buffalo, assignor to Colloidal Equipment Corporation, New York, N. Y. Apparatus for deflocculating and emulsifying. 1,624,037; Apr. 12.
- Butler, Edward J., Malden, assignor, by mesne assignments, to Gamewell Company, Newton, Mass. Repeater-locking device. 1,613,018; Jan. 4.
- Butler, Elizabeth M., et al. (See Munyon, Alice G., assignor.)
- Butler, Elmore R., and W. T. Singer, Toronto, Ontario, Canada. Shaving-stick holder. 1,640,027; Aug. 23.
- Butler, George D., Phillipsburg, N. J. Trestle. 1,647,432; Nov. 1.
- Butler, George H. C. (See Reeves, Alfred, assignor.)
- Butler, George P., assignor, by mesne assignments, to Postindex Company, Inc., Boston, Mass. Index memorandum, and reference equipment. 1,646,008; Oct. 18.
- Butler, Henry E. (See Digges, Dudley M., assignor.)
- Butler, Henry E., Scotia, N. Y. License holder. 1,620,798; Mar. 15.
- Butler, Henry E., Scotia, N. Y., assignor to General Electric Company. Film cut-out. 1,620,518; Mar. 8.
- Butler, Henry E., Scotia, N. Y., assignor to General Electric Company. Film cut-out. 1,635,029; July 5.
- Butler, Henry R., assignor of one-half to T. H. Cook, Oakland, Calif. Muffler cut-out. 1,637,761; Aug. 2.
- Butler, James A., Needham, assignor to Pneumatic Scale Corporation, Ltd., Norfolk Downs, Mass. Automatic package-feed mechanism. 1,638,391; Aug. 9.
- Butler, Jay, Newark, Ohio. Transmission control. 1,626,718; May 3.
- Butler, Joseph B., Whitehall, London, England. Tooth-brush. 1,639,880; Aug. 23.
- Butler, Leonard F. G. (See Fedden, A. H. R., and Butler.)
- Butler Mill. (See Reynold, John, assignor.)
- Butler, Morgan R., Waukesha, Wis. Material handling equipment. 1,626,359; Apr. 26.
- Butler, Morgan R., Waukesha, Wis. Material-handling equipment. 1,630,605; May 31.
- Butler, Ruby A., St. Louis, Mo. Toy animal. 1,630,165; May 24.
- Butler, Thomas J., Harrison, N. J. Speed-accelerating mechanism. 1,638,084; Aug. 9.
- Butler, Thomas J., assignor of one-half to J. Fenton, Columbus, Ohio. Shoe and making the same. 1,615,786; Jan. 25.
- Butler, William, Philadelphia, Pa. Mop wringer. 1,617,320; Feb. 15.
- Butler, William B., Newburyport, Mass. Combined mechanism and trip valve. 1,617,895; Feb. 15.
- Butler, William F., Hillsdale, N. J., assignor to American Can Company, New York, N. Y. Lead-keg-closing device. 1,634,488; July 5.
- Butler, William F., Hillsdale, N. J., assignor to American Can Company, New York, N. Y. Machine for fastening keys to can covers. 1,635,536; July 12.
- Butler, William F., Hillsdale, N. J., assignor to American Can Company, New York, N. Y. Can tester. 1,649,287; Nov. 15.
- Butler, William J., Cranston, assignor to Henry Lederer & Bro. Inc., Providence, R. I. Cigar lighter. 1,637,855; Aug. 2.
- Butler, William J., and R. L. Fitzgerald, New London, Wis. Golf tee. 1,617,232; Feb. 8.
- Butt, Herbert G., Winthrop, Mass. Pipe vise. 1,623,045; Apr. 5.
- Butt, Herbert G., Winthrop, Mass. Pipe wrench. 1,641,153; Sept. 3.
- Butte, Paul C., San Francisco, Calif. Electric switch. 1,642,870; Sept. 20.
- Butterbaugh, Ralph B., assignor of one-half to E. Tobias, Prescott, Wis., and one-half to J. F. Main and S. J. Barr, Minneapolis, Minn. Power-transmission mechanism. 1,651,371; Dec. 6.
- Butterfield, Charles L., and G. L. Sawdon, Grand Lodge, assignors of one-third to J. L. Karr, Detroit, Mich. Primer. 1,648,258; Nov. 8.
- Butterfield, Fred, & Co. Inc. (See Currier, K. G., and Heinrich, assignors.)
- Butterfield, Fred, & Co. Inc. (See Vandergaw, E. B., and Heinrich, assignors.)
- Butterfield, Oscar, & Battle Creek, Mich. Sand-cutting machine. 1,636,168; July 19.
- Butterly, James N., Flushing, N. Y. Suspensory. 1,650,114; Nov. 22.
- Butters Manufacturing Company. (See Butters, R. H., and Starke, assignors.)
- Butters, Robert H., and R. W. Starke, assignors to Butters Manufacturing Company, Atlanta, Ga. Tire lock. 1,643,485; Sept. 27.
- Butterworth, H. W., & Sons Company. (See Bell, William E. H., assignor.)
- Butterworth, H. W., & Sons Company. (See Ehnts, Frederic H., assignor.)
- Buttigieg, John, Elgin, Ill. Spring motor. 1,632,693; June 14.
- Büttner, Artur, assignor to Schnellpressenfabrik Aktiengesellschaft Heidelberg, Heidelberg, Germany. Platen printing press. 1,633,833; Dec. 27.
- Büttner, Artur, assignor to Schnellpressenfabrik Aktiengesellschaft Heidelberg, Heidelberg, Germany. Sheet-feeding mechanism for printing machines and the like. 1,653,839; Dec. 27.
- Buttolph, Leroy J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric lamp. 1,630,051; May 24.
- Buttolph, Leroy J., East Orange, N. J., assignor to Cooper Hewitt Electric Company. Water-cooled lamp. 1,630,052; May 24.

- Buttolph, Leroy J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Vapor lamp. 1,630,053; May 24.
- Buttolph, Leroy J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Water-cooled lamp. 1,630,054; May 24.
- Buttolph, Leroy J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Water-cooled lamp. 1,630,055; May 24.
- Buttolph, Leroy J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Water-cooled lamp. 1,630,056; May 24.
- Buttolph, Leroy J., East Orange, N. J., assignor to Cooper Hewitt Electric Company. Light for microscopes and the like. 1,630,223; May 24.
- Buttolph, Leroy J., Grantwood, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Therapeutic lamp. 1,630,057; May 24.
- Bulton Attaching Co., The. (See Ross, Frederick N., assignor.)
- Button, William S., Riverside, Calif. Orchard heater. 1,648,041; Nov. 8.
- Buzza, B. (See Delaurier, Vetal, assignor.)
- Butts, Benjamin B., et al. (See Hudson, A. D., and Smith, assignors.)
- Butts, Durain C., Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Removing diphenylamine from smokeless powder. 1,650,689; Nov. 29.
- Butts, Edward G. (See Shelor, O. W., and Butts.)
- Butts, Emil F., assignor to Gregory-Butts Company, Tacoma, Wash. Double-belt sanding machine. 1,650,863; Nov. 29.
- Butts, Ernest W., et al. (See Campbell, Harry, assignor.)
- Butts, Herbert A. (See Lumley, D. A., and Butts.)
- Butts, Newton M., sr., Xenia, Ohio. Traffic signal for motor vehicles. 1,634,978; July 5.
- Butts, Roger T., et al. (See Campbell, Harry, assignor.)
- Butz, Arthur, Halbau, Silesia, Germany. Safety plate against burning during cooking. 1,621,967; Mar. 22.
- Butz, Walter D., Norristown, Pa. Stocking. 1,625,523; Apr. 19.
- Buvinger, George A., and C. Warner, assignors to Delco Light Company, Dayton, Ohio. Pumping apparatus. 1,631,619; June 7.
- Buxton, Inc. (See Buxton, Warner R., assignor.)
- Buxton, Warner R., Longmeadow, Mass. Flexible pocket receptacle. 1,630,654; May 31.
- Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key case. 1,623,959; Apr. 12.
- Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key case. 1,630,653; May 31.
- Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key case. 1,650,322; Nov. 22.
- Buzby, Walter E., Wichita Falls, Tex. Glass drawing and apparatus therefor. 1,622,417; Mar. 29.
- Buzza, George E., Minneapolis, Minn. Reproducing pictures of art subjects. 1,635,173; July 12.
- Buzza, George E., Minneapolis, Minn. Display album. 1,646,573; Oct. 25.
- Buzza, George E., Minneapolis, Minn. Piano-playing guide. 1,646,574; Oct. 25.
- By-Products Recovery Company. (See Resines, Francis J., assignor.)
- Byars, Edgar, Fort Worth, Tex. Foldable and rollable tent. 1,650,323; Nov. 22.
- Byerlein, Arthur A., Detroit, Mich. Power-press control. 1,634,497; July 19.
- Byerlein, Arthur A., assignor to The Toledo Machine and Tool Company, Toledo, Ohio. Drawing press. 1,623,960; Apr. 12.
- Byers, A. M., Company. (See Hall, J. A., Jr., and Tishlarich, assignors.)
- Byers, Harry J., Beaumont, Tex. Combined rod grip and slip support. 1,613,439; Jan. 4.
- Byrson, Chilton B., Chattanooga, Tenn. Golf tee. 1,617,233; Feb. 8.
- Byl, George N., Jersey City, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Clamping device. 1,653,840; Dec. 27.
- Byles, Frank A., Schenectady, N. Y., assignor to General Electric Company. Electric regulator. 1,650,604; Nov. 29.
- Byles, Frank A., Schenectady, N. Y., assignor to General Electric Company. Electric regulator. 1,652,928; Dec. 13.
- Bylger, Frans I. L., South Portland, Me. Gyrotory pump compressor. 1,636,183; Aug. 9.
- Byllesby Engineering and Management Corporation. (See Fisher, H. H., and Rittenhouse, assignors.)
- Byllesby Engineering and Management Corporation. (See Kahn, Samuel, assignor.)
- Byrne, Edward, Gabyon Station, Wurarga, Western Australia. Tent. 1,650,111; Nov. 22.
- Byrne, Edward, Napier, New South Wales, Australia. Railway or tramway rail joint. 1,633,977; June 28.
- Byrne, Harry, et al. (See Comerford, John, assignor.)
- Byrne, Harry, et al. (See Comerford, John J., assignor.)
- Byrne Manufacturing Company, The. (See Dillhoefer, Henry M., assignor.)
- Byrnes, Thomas J., Tulsa, Okla. Measuring device for ice-making cans. 1,646,898; Oct. 25.
- Byrnes, Irving F., Schenectady, N. Y., assignor to General Electric Company. High-frequency signalling system. 1,631,670; June 7.
- Byrnes & Kiefer Company. (See Schwab, Henry M., assignor.)
- Byrnes, Mary I., Des Moines, Iowa. Packaged unbaked dough layer. 1,642,804; Sept. 20.
- Byrnes, Patrick W., Belmar, N. J. Firing mechanism for multiple-barrel guns. 1,649,888; Nov. 22.
- Byrns, Emmett L., assignor to G. C. Briscoe, Mineral Wells, Tex. Combination truck and weigher. 1,633,761; June 28.
- Byron, Jackson, Pump Company. (See Hollander, Aladar, assignor.)
- Byron, Jerome P., and H. A. Evans, assignors, by mesne assignments, to Parco Specialty Co., Lynn, Mass. Boot and shoe manufacture. 1,618,800; Feb. 22.
- Bystrycky, Joseph, assignor to The Allyn-Zerk Company, Cleveland, Ohio. Lubricant compressor. 1,642,940; Sept. 20.
- C & C Developing Company. (See Zworykin, Vladimir K., assignor.)
- C. G. Spring & Bumper Company, The. (See Broock, Harold, assignor.)
- C. G. Spring & Bumper Company, The. (See Brown, Cremer F., assignor.)
- C. G. Spring & Bumper Company, The. (See Dunston, Wayne E., assignor.)
- C. G. Spring & Bumper Company, The. (See Flum, Robert A., assignor.)
- C. G. Spring & Bumper Company, The. (See Girl, Christian, assignor.)
- C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Hyldenburgh, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Flum, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Keeler, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Rasmussen, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Van Huse, assignors.)
- C. Howard Hunt Pen Company. (See Bartol, George E., Jr., assignor.)
- C. P. Root Bee Company. (See Ernst, Emil.)
- C-S Engineering Company. (See Schellens, E. L., and Coffin, assignors.)
- Cabangins, Pedro, Manila, P. I. Cigarette case. 1,636,732; July 26.
- Cabezola, Eusebio F., deceased, by M. J. Cabezola, administratrix, Bayonne, N. J.; C. C. Hicks, F. J. Wagner, nee Cabezola, and M. C. Mettler, nee Cabezola, executors. Rheostat. 1,623,026; Mar. 29.
- Cabezola, Margaret J., administratrix. (See Cabezola, Eusebio F.)
- Cable Company, The. (See Collignon, William C., assignor.)
- Cable Company, The. (See Hagey, James C., assignor.)
- Cable, Frank T., New London, assignor to Electric Boat Company, Groton, Conn. Reversible internal-combustion engine. 1,627,816; May 3.
- Cabot, Samuel, Inc. (See Abbott, Charles M., assignor.)
- Cabot, Sewall, Brookline, Mass. Musical sound resonator. 1,620,869; Mar. 15.
- Cabral, Florindo, Fall River, Mass. Clothes press. 1,644,367; Oct. 4.
- Caccia, Pio, New York, N. Y. Fermentation tube. 1,614,184; Jan. 11.
- Caccia, Pio, New York, N. Y. Diuretic product and making the same. 1,617,701; Feb. 15.
- Caccia, Pio, New York, N. Y. Preparing concentrated vitamin B. 1,617,702; Feb. 15.
- Cacha, Frank, Los Angeles, Calif. Changeable-top table. 1,649,388; Nov. 15.
- Cadden, Charles C., F. Slusher, and B. A. Evans, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making tubular articles. 1,649,808; Nov. 22.
- Cadwall, George L., Beloit, Wis. Differential gearing. 1,638,980; Aug. 26.
- Cadwell, Ruel T. (See Ruckstalt, A., and Cadwell.)
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company. Rubber deterioration retarder and process of making. 1,626,784; May 3.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Preparing a reaction product of acetaldehyde and aniline. 1,627,230; May 3.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating latex and products obtained thereby. 1,641,573; Sept. 6.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Deodorizing. 1,648,259; Nov. 8.
- Cadwell, Sidney M., Leonia, N. J., and O. H. Smith, New York, N. Y., assignors to Morgan & Wright, Detroit, Mich. Treating fabrics. 1,651,751; Dec. 6.
- Cadwell, Thomas H., Newcastle, Wash. Valve rocker arm attachment. 1,623,863; Apr. 5.

- Cadwell, W. H., J. Ott, New Britain, and C. D. Crocker, West Hartford, assignors to The Beaton & Cadwell Manufacturing Company, New Britain, Conn. Flush valve. 1,653,492; Dec. 20.
- Cady, Sherman W., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Disk harrow. 1,639,451; Aug. 16.
- Cady, Walter H. (See Kirschbaum, L. and Cady.)
- Cady, Walter H., Boston, Mass. Producing reinforced waterproof compositions. 1,644,050; Oct. 4.
- Cady, William M. (See Kenan, J. W., and Cady.)
- Caffarello, Ralph D., Chicago, Ill. Power take-off for engine crank shafts. 1,629,949; May 24.
- Caffrey, Caywood W., South Omaha, Nebr. Hog conveyor for scalding tanks. 1,617,146; Feb. 8.
- Caffry, William E., assignor to Nashua Manufacturing Company, Nashua, N. H. Blanket printing process and machine. 1,626,595; May 3.
- Cage Engine Syndicate, Inc. (See Cage, John M., assignor.)
- Cage, John M., Ford City, Ontario, Canada, assignor to Cage Engine Syndicate, Inc., New York, N. Y. Internal-combustion engine and means for supplying charge thereto. 1,619,460; Mar. 1.
- Cage, John O., Silvertown, Oreg. Sanding device. 1,643,872; Sept. 27.
- Cagle, Dora, Ringling, Okla. Baby holder. 1,616,349; Dec. 10.
- Cahill, Edward F. (See Hoover, W. C., Fritz, and Cahill.)
- Cahn, Leon J., New York, N. Y. Fuse plug. 1,639,077; Aug. 16.
- Cahn, Sam A. (See Le Compte, O. P., and Cahn.)
- Cahusac, Clarence N., assignor to U. S. Tool Company, Inc., Newark, N. J. Variable condenser. 1,618,974; Mar. 1.
- Caillaud, Marcel U., Billancourt, France. Electrical connector. 1,631,914; June 7.
- Caillie, Adolph A., Detroit, Mich. Weighing scale. 1,622,571; Mar. 29.
- Caillie, Adolph A., Detroit, Mich. Slug detector for check-controlled machines. 1,627,726; May 10.
- Caillie, Adolph A., Detroit, Mich. Weight indicator. 1,638,524; Aug. 9.
- Caillie, Arthur J., Detroit, Mich. Dual ignition for out-board motors. 1,644,709; Oct. 11.
- Cain, Emmett J., Lodi, Calif. Signal-operating mechanism. 1,638,827; Aug. 16.
- Cain, Ernest R., and C. E. McMillan, Kingstree, S. C. Culinary implement. 1,644,464; Oct. 4.
- Cain, John R. (See Shackelford, E. J., Penniman, and Cain.)
- Cain, Loyd H., J. H. Brogan, and C. J. Brogan, Tyler, Tex. Tank-hose coupling. 1,641,839; Sept. 6.
- Cain, Marcus J., Chadron, Nebr. Fuel vaporizer. 1,653,758; Dec. 27.
- Caine, William P., Ensley, Ala. Method and apparatus for the generation and utilization of steam in an inclosed cycle. 1,618,525; Feb. 8.
- Caire, Philippe. (See Balachowsky, D., and Caire.)
- Caird, Matthew N. (See Grimbale, F., Caird, and Coombs.)
- Cairncross, Robert L., Chicago, Ill. Rail-joint spring. 1,619,595; Mar. 1.
- Calder, John, London, England. Driving and revolving means for fans and the like. 1,615,567; Jan. 25.
- Calarco, Domenico, Burlington, Vt. Radiator-cap ornament or the like. Des. 73,641; Oct. 18.
- Calarco, Domenico, Burlington, Vt. Wall and mantel ornament or the like. Des. 73,642; Oct. 18.
- Calbeck, John H. (See Schaeffer, J. A., Calbeck, and Crenshaw.)
- Calco Chemical Company, The. (See Crossley, Moses L., assignor.)
- Calco Chemical Company, The. (See Crossley, M. L., and Dolt, assignors.)
- Calcott, William S. (See Daudt, H. W., Parmelee, and Calcott.)
- Calcott, William S., Penns Grove, N. J., A. R. Hltch, Wilmington, Del., and H. W. Mahr, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making 2,3-dihydroxy-naphtholic acid. 1,648,889; Nov. 8.
- Calcott, William S., Penns Grove, and F. L. English, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacturing tetra-ethyl lead. 1,652,812; Dec. 13.
- Calder, Salvatore C., New York, N. Y. Valve. 1,641,141; Aug. 30.
- Caldwell, Hugh A., assignor to National Metal Molding Company, Pittsburgh, Pa. Bar hanger for the support of outlet boxes for the wiring of buildings. 1,622,087; Mar. 22.
- Caldwell, Charles C., Woodbury, N. J., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Wardrobe trunk. 1,638,470; Aug. 9.
- Caldwell, E. F., & Co. (See Klehr, William, assignor.)
- Caldwell, Edwin, New York, N. Y. Smoker's article. 1,628,114; May 10.
- Caldwell, Edwin, New York, N. Y. Smoker's article. 1,631,467; June 7.
- Caldwell, Erwin, Birmingham, Ala., assignor to Perry-Caldwell Manufacturing Company (Inc.) Blow-off device for steam boilers. 1,625,707; Apr. 19.
- Caldwell, Frank B., Oak Park, assignor to Link-Belt Company, Chicago, Ill. Trippler for duplex belt conveyers. 1,636,986; July 26.
- Caldwell, Frank W., Dayton, Ohio. Impeller. 1,622,222; Mar. 22.
- Caldwell, Frank W., Dayton, Ohio, assignor to Standard Steel Propeller Company. Propeller hub. 1,653,943; Dec. 17.
- Caldwell, Hendrix K., San Diego, Calif. Remote gas-control-valve apparatus. 1,644,171; Oct. 4.
- Caldwell, Jonathan E., Santa Monica, Calif. Aeroplane. 1,640,645; Aug. 30.
- Caldwell Lawn Mower Company. (See Haselton, Page S., assignor.)
- Caldwell, Lyde. (See Endres, H. A., and Caldwell.)
- Caldwell, Paul A., Tell, Tex. Attachment for cultivators. 1,633,394; June 21.
- Caldwell, Samuel B., Oakland, Calif. Wave motor. 1,617,571; Feb. 15.
- Caldwell, Thomas F., et al. (See Rylander, William P., assignor.)
- Caldwell, Truman S., assignor to Racine Horseshoe Tire Company, Racine, Wis. Tire. Des. 72,472; Apr. 19.
- Caldwell, Truman S., assignor to Racine Horseshoe Tire Company, Racine, Wis. Tire. Des. 72,473; Apr. 19.
- Caldwell, Truman S., assignor to Racine Horseshoe Tire Company, Racine, Wis. Tire. Des. 72,819; June 14.
- Caley, Edward C. and L. Burton Pidsea, England. Apparatus for plastering ceilings, walls, and the like. 1,652,089; Dec. 6.
- Caley, Leonard. (See Caley, Edward C. and L.)
- Calhoun, Ben S. (See Calhoun, Charles S., assignor.)
- Calhoun, Charles S., Vidalia, assignor to one-half to B. S. Calhoun, Glenwood, Ga. Spark arrester. 1,641,022; Aug. 30.
- Calhoun, George E. (See Wilkes, C. H., and Calhoun.)
- Calhoun, Tracy J., assignor to The Oil Conservation Engineering Company, Cleveland, Ohio. Collar and cover for tank storage holes. 1,628,028; May 10.
- California Almond Growers Exchange. (See Bailey, David R., assignor.)
- California Barrel Company. (See Andresen, J. C., and Marten, assignors.)
- California Canning Machinery Co. (See Wilcox, George, assignor.)
- California Card Manufacturing Company. (See Helquest, William J., assignor.)
- California Card Manufacturing Company. (See Young, Julius, assignor.)
- California Corrugated Culvert Company. (See Thorsby, Karl J., assignor.)
- California Cotton Mills Company. (See Millar, John R., assignor.)
- California Cyanide Company. (See Neuls, Joseph D., assignor.)
- California Cyanide Company. (See Poindexter, Robert W., jr., assignor.)
- California Cyanide Company. (See Poindexter, R. W., and Dolley, assignors.)
- California Cyanide Company. (See Poindexter, R. W., jr., and Morgan, assignors.)
- California Cyanide Company. (See Poindexter, R. W., jr., and Oberg, assignors.)
- California Fruit Growers Exchange. (See Bristol, William M., assignor.)
- California Packing Corporation. (See Olivarius, Holger de F.)
- California Packing Corporation. (See Robinson, R. D., and Ash, assignors.)
- California Packing Corporation. (See Sullivan, Albert V., assignor.)
- California Stucco Products Company. (See Kennedy, Earl J., assignor.)
- California Walnut Growers Association. (See Hayes, Frank, assignor.)
- Calingaert, George, Cambridge, Mass., assignor to General Motors Corporation, Detroit, Mich. Producing alkyl compound of lead. 1,622,233; Mar. 22.
- Calis, Gust N. (See Neckles, George E., assignor.)
- Calkins, Addison N., assignor to Electric Wheel Company, Quincy, Ill. Tractor. 1,631,243; June 7.
- Calkins, Claude C., Spokane, Wash. Machine for treating grain. 1,616,783; Feb. 8.
- Calkins, Claude C., Heppner, Oreg. Machine for treating seed grain. 1,648,538; Nov. 8.
- Calkins, Edgar G., Morland, Kans. Egg tray. 1,616,782; Dec. 8.
- Calkins, Edgar G., Morland, Kans. Tractor attachment. 1,636,733; July 26.
- Calkins, Frederick A., Waterbury, Conn. Chain-link opening and closing device. 1,622,627; Mar. 29.
- Calkins, James M., Detroit, Mich. Toothbrush. 1,651,251; Nov. 29.
- Call, Benjamin G., Tacoma, Wash., assignor to American Smelting and Refining Company, New York, N. Y. Metallic shingle. 1,643,445; Sept. 27.
- Call, Lloyd L., Detroit, Mich. Electric-circuit closer for relays. 1,628,115; May 10.
- Callaghan, Thomas F., Bellefonte, Pa., assignor to E. C. Uihlein, Milwaukee, Wis. Method and apparatus for heat treating metal articles. 1,634,319; July 5.
- Callaghan, William, V. Cummings, and J. Dunterman, Joliet, Ill. Reflector. 1,617,009; Feb. 8.

- Callahan Distributor Company, Incorporated. (See Callahan, J. W., and Dusinberre.)
- Callahan, E. J., et al. (See Nesmith, Samuel D., assignor.)
- Callahan, Harold. (See Tschappat, Sheridan P., assignor.)
- Callahan, John J., Peabody, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me. Machine for splitting sheet material. 1,647,433; Nov. 1.
- Callahan, John J., and F. C. Rogers, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Making hollow annular articles. 1,628,821; May 17.
- Callahan, John W., Wellsboro, Pa., and G. B. Dusinberre, Elmira, N. Y., assignors to Callahan Distributor Company, Incorporated. Device for handling hay and the like. 1,636,498; July 19.
- Callahan, Joseph J., Cornwells Heights, Pa. Propeller. 1,614,872; Jan. 18.
- Callahan, Michael J., New York, N. Y. Radiator for heating and ventilating units. 1,626,390; Apr. 26.
- Callan, John G., Cambridge, assignor to Eastern Manufacturing Company, Boston, Mass. Forming and applying paper-making patterns to pattern-carrying members. 1,653,148; Dec. 20.
- Callan, William H., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Apparatus for unloading compressors. 1,645,798; Oct. 18.
- Callery, Christopher C., West Coatesville, Pa. Pipe clamp. 1,641,065; Aug. 30.
- Calleson, Amos, Brooklyn, N. Y. Bottle-height-compensating mechanism. 1,650,185; Nov. 22.
- Calleson, Edgar A., Oakland, Calif. Hand-propelled toy vehicle. 1,651,583; Dec. 6.
- Callis, Alva W., and F. E. Smoots, Zincville, Okla. Blasting cartridge. 1,622,992; Mar. 29.
- Callis, Alva W., Baxter Springs, Kans., and F. E. Smoots, Zincville, Okla. Powder charger. 1,636,734; July 26.
- Callis, Conrad C. (See Kraus, C. A., and Callis.)
- Callison, Claud, Loyal, Okla. Milk box. 1,623,827; Apr. 5.
- Callison, Claud, Loyal, Okla. Speed wrench. 1,626,719; May 3.
- Callison, William E., Tulsa, Okla. Amusement device. 1,645,370; Oct. 11.
- Calloway, William A., Roanoke, Va. Operating mechanism for bleed cocks. 1,616,110; Feb. 1.
- Callowhill, Percy J., Providence, R. I. Bracelet link. Des. 73,122; July 26.
- Callowhill, Percy J., Providence, R. I. Cover for a vanity case or similar article. Des. 73,224; Aug. 9.
- Calmanson, Saul. (See Melniker, A., and Calmanson.)
- Calmels, Pierre L. M., Tours, France. Apparatus for the cut of the mustache. 1,633,978; June 28.
- Calorac Electric Corporation, The. (See Sunderland, John P., assignor.)
- Caloroll Burner Corporation. (See Grant, Albert E., assignor.)
- Calpin, Raymond, Everett, assignor to A. S. Campbell Company, East Boston, Mass. Curtain window. 1,643,942; Oct. 4.
- Calpin, Raymond, Everett, assignor to A. S. Campbell Company, East Boston, Mass. Curtain window. 1,643,979; Oct. 4.
- Calumet Steel Company. (See Hook, Arthur S., assignor.)
- Caluori, George, Jersey City, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,063; July 19.
- Caluori, George, Jersey City, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,064; July 19.
- Caluori, George, Jersey City, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,065; July 19.
- Caluori, George, Jersey City, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,066; July 19.
- Calvert, George W., Rushville, Mo. Helicopter. 1,652,090; Dec. 6.
- Calvert, James F., England, Ark. Game carrier. 1,650,491; Nov. 22.
- Calvert, Sebastian L., Bristow, Okla. Stuffing box. 1,649,662; Nov. 15.
- Calvete, Isidoro B., London, England. Clip for hair-waving sickeys. 1,631,733; June 7.
- Calvin, Edwin, Squantum, assignor to Bearfoot Sole Co., Inc., Boston, Mass. Shoe sole. Des. 72,474; Apr. 19.
- Calvo, Francisco C., Brooklyn, N. Y. Electric broiler. 1,651,868; Dec. 6.
- Cambessédes, Jean E. F., Paris, France. Tipping wagon and the like. 1,638,078; Aug. 9.
- Cambre, Manuel. (See Menzemer, Harry E., assignor.)
- Cambridge, Charles C., Savannah, Ga. Fuel tank. 1,643,237; Sept. 20.
- Cambridge Glass Company, The. (See Kimble, Raymond T., assignor.)
- Cambridge Glass Company. (See McCartney, Will C., assignor.)
- Cambridge Glass Company, The. (See Orme, Wilber L., assignor.)
- Cambridge Rubber Company. (See Dunbar, E. W., and Westling, assignors.)
- Camden Pottery Company. (See Wright, Charles C., assignor.)
- Came, Samuel, Huntington, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling stop motion for looms. 1,651,584; Dec. 6.
- Camel Company. (See Klohs, Sam F., assignor.)
- Camel Company. (See Madland, G., and Darrow, assignors.)
- Camel Company. (See Posson, Edward, assignor.)
- Camel Company. (See Wasberg, A., and Darrow, assignors.)
- Camera, Maurice F., Somerville, Mass. Doorknob or similar article. Des. 73,828; Nov. 15.
- Campan, Alexander G., Winnipeg, Canada. Window fastener. 1,654,861; Dec. 27.
- Cameron, Alexander W. (See Grant, K. A., Halliday and Cameron.)
- Cameron, Argy G. (See Boals, Polk, assignor.)
- Cameron Can Machinery Company. (See Cameron, William, assignor.)
- Cameron, Charles E., Jr., East Orange, N. J. Piano action. 1,635,817; July 12.
- Cameron, Cheever J., et al. (See Williams, Arthur J., assignor.)
- Cameron, Edward, New York, N. Y. Oil-gas apparatus. 1,632,432; June 14.
- Cameron, Forrest F., Cleveland, Ohio, assignor to E. B. Davis, Brockton, Mass. Engine. 1,649,775; Nov. 15.
- Cameron, Hugh M., New York, assignor of one-half to E. A. Judge, Brooklyn, N. Y. Scale. 1,646,009; Oct. 18.
- Cameron, James, Henryetta, Okla. Cutting apparatus for mining machines. 1,630,255; May 31.
- Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding means. 1,613,381; Jan. 4.
- Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Slitting and winding machine. 1,617,075; Feb. 15.
- Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding means. 1,620,007; Mar. 8.
- Cameron, James A., Chicago, Ill., assignor to Eastman Kodak Company, Rochester, N. Y. Foldable easel mount. 1,635,030; July 5.
- Cameron, James A., Chicago, Ill., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic mount. 1,638,562; Aug. 9.
- Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Winding machine. 1,642,669; Sept. 20.
- Cameron, James D., Tulare, Calif. Suction device for water-closets. 1,622,993; Mar. 29.
- Cameron, Jarrett L., Orangefield, Tex., assignor of one-half to Evangeline Iron Works, Ltd., Vinton, La. Spear for oil-well casings or tubing. 1,653,547; Dec. 20.
- Cameron, Lyle J., Blundellsands, near Liverpool, England. Hoisting machine. 1,637,730; Aug. 2.
- Cameron Machine Company. (See Cameron, James A., assignor.)
- Cameron Machine Company. (See Cameron, J. A., and Birch, assignors.)
- Cameron Machine Company. (See Johnstone, Robert M., assignor.)
- Cameron Machine Company. (See Stocker, William M., assignor.)
- Cameron, Oscar J., Luling, Tex. Chuck. 1,637,436; Aug. 2.
- Cameron, Will J., Chicago, Ill. Lamp construction. 1,649,150; Nov. 15.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. False wiring and seaming mechanism. 1,615,325; Jan. 25.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. Double-seaming machine. 1,621,580; Mar. 22.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. Can-body-making machine. 1,624,213; Apr. 12.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. Cap-thread-rolling machine. 1,639,367; Aug. 16.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. Machine for operating upon sheet-metal caps. 1,639,646; Aug. 23.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. Can-end curling and stacking mechanism. 1,640,970; Aug. 30.
- Cameron, Wm., & Company. (See Johnston, W. D., and Sullivan, assignors.)
- Cameto, Leon, assignor to Modern Foundry and Pattern Works, Oakland, Calif. Clothes wringer. 1,652,424; Dec. 13.
- Camilla, Stefano, and F. Pagliani, Turin, Italy. Apparatus for cleaning, peeling, or shelling corn, grains, and the like. 1,637,678; Aug. 2.
- Caminita, Santl, St. Louis, Mo. Automobile direction signal switch. 1,624,828; Apr. 12.
- Camlin Corset Co. Inc. (See Marquis, Marcelle M., assignor.)
- Camnack, William J., Los Angeles, Calif. Siren. 1,633,569; June 28.

Camors, Marcel R., New Orleans, La. Armature securing and centering means. 1,637,173; July 26.

Camp, Curtis B., trustee. (See Bracke, Robert F., assignor.)

Camp, Curtis B., trustee. (See Schoenwolf, Fred, assignor.)

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Winding mechanism. 1,618,750; Feb. 22.

Camp, Percy B., Maywood, assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Brake. 1,618,810; Feb. 22.

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism. 1,624,924; Apr. 19.

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Company. Brake mechanism for railway cars. 1,636,284; July 19.

Camp, Percy B., Maywood, assignor to The Universal Draft Gear Attachment Company, Chicago, Ill. Brake mechanism for railway cars. 1,652,758; Dec. 13.

Camp, Percy B., Maywood, assignor to The Universal Draft Gear Attachment Company, Chicago, Ill. Brake mechanism for railway cars. 1,652,759; Dec. 13.

Camp, Percy B., Maywood, and J. Wilson, Chicago, Ill., assignors to Universal Draft Gear Attachment Co. Brake mechanism for railway cars. 1,623,304; Apr. 5.

Camp, Wofford B. (See Townsend, J. S., and Camp.)

Campane, Steven L., L. Sioux Center, Iowa. Vehicle traffic signal. 1,653,984; Dec. 27.

Campagne des Forges et Acleries de la Marine et d'Homecourt. (See Rimailho, Emile, assignor.)

Campano, Joseph D., Berkeley Heights, N. J. Mixture for stopping leaks. 1,641,066; Aug. 30.

Campan, Lawrence M., Detroit, Mich. Dirigible balloon. 1,624,935; Nov. 15.

Campbell, A. S., Company. (See Calpin, Raymond, assignor.)

Campbell, Andrew C., Waterbury, Conn., assignor to American Chain Company, Inc. Punching machine. 1,648,851; Oct. 25.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car door and locking means therefor. 1,615,792; Jan. 25.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Load-discharging car. 1,615,793; Jan. 25.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,615,794; Jan. 25.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,615,795; Jan. 25.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. 1,615,796; Jan. 25.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door supporting and raising means. 1,615,797; Jan. 25.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,617,573; Feb. 15.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-door-operating mechanism. 1,617,574; Feb. 15.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,617,575; Feb. 15.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-door shaft-operating means. 1,617,576; Feb. 15.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Load-discharging car. 1,618,811; Feb. 22.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Load-discharging car. 1,620,948; Mar. 15.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,635,248; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway car. 1,635,249; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car side construction. 1,625,250; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Hopper car and the like. 1,635,251; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway car. 1,635,252; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,635,253; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car construction. 1,635,254; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dumping door for rail cars and the like. 1,635,255; July 12.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car. 1,648,292; Nov. 8.

Campbell, Argyle, and A. E. Zimmer, assignors to Enterprise Railway Equipment Company, Chicago, Ill. Cardoor-locking mechanism. 1,633,762; June 28.

Campbell, Argyle, and A. E. Zimmer, assignors to Enterprise Railway Equipment Company, Chicago, Ill. Cardoor-locking mechanism. 1,635,993; July 12.

Campbell, Argyle, and A. E. Zimmer, assignors to Enterprise Railway Equipment Company, Chicago, Ill. Cardoor-locking means. 1,635,993; July 19.

Campbell, Burt C., Cleveland, Ohio. Electrically-operated clock. 1,619,564; Mar. 1.

Campbell, C. C., et al. (See Dougherty, Charles T., assignor.)

Campbell, Charles A. (See Minnier, B. J., and Campbell.)

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Triple valve. 1,632,756; June 14.

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Triple valve. 1,632,757; June 14.

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Lubricator. 1,633,763; June 28.

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 1,653,985; Dec. 27.

Campbell, Charles A., and E. C. Vroman, Watertown, N. Y., assignor to The New York Air Brake Company. Train control. 1,630,242; May 24.

Campbell, Charles E., Lynn, Mass. X-ray apparatus. 1,629,950; May 24.

Campbell, Charles E., assignor to Campbell Electric Company, Lynn, Mass. X-ray apparatus. 1,623,575; Apr. 5.

Campbell, Charles E., assignor to Campbell Electric Company, Lynn, Mass. Cabinet. 1,631,718; June 7.

Campbell, Charles H. (See Carpenter, William A., assignor.)

Campbell, Charles H., Brookline, Mass. Hinge. 1,653,362; Dec. 27.

Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Making recalc and rubber. 1,640,817; Aug. 30.

Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Mixing a soluble filler with rubber. 1,640,818; Aug. 30.

Campbell, Charles W. (See Landrum, Reginald F., assignor.)

Campbell, Clarence E. (See Gemmer, G. A., and Campbell.)

Campbell-Cooney Patents Co. (See Cooney, Robert K., assignor.)

Campbell, Donald J., Muskegon Heights, Mich. Molder's pattern. 1,626,224; Apr. 26.

Campbell, Donald J., Muskegon, Mich. Molding apparatus. 1,626,225; Apr. 26.

Campbell, E. D., et al. (See Thulsoke, Joseph, assignor.)

Campbell, Edmund D., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Glass-container box car. 1,616,605; Feb. 8.

Campbell Electric Company. (See Campbell, Charles E., assignor.)

Campbell, Fenton H., Ansted, W. Va. Dust-settling machine. 1,616,505; Feb. 8.

Campbell, Francis H., Brighton, Mass. Shield attachment for automobile doors. 1,625,791; Apr. 26.

Campbell, Frederick H. (See Lloyd, G. F., and Campbell.)

Campbell, George A., Montclair, N. J., assignor to American Telephone and Telegraph Company. Electrical network. 1,643,332; Sept. 27.

Campbell, George A., Upper Montclair, N. J., assignor to American Telephone and Telegraph Company. Electrical testing apparatus. 1,651,440; Dec. 6.

Campbell, George E., Chattanooga, Tenn., assignor to The Wheland Company, Chattanooga, Tenn. Shaft bearing for band-saw mills. 1,614,421; Jan. 11.

Campbell, George E., assignor to The Wheland Company, Chattanooga, Tenn. Chain-drive belt feed works for sawmills. 1,625,908; Apr. 5.

Campbell, George J. (See Nardin, William T., assignor.)

Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,628,029; May 10.

Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine and ens. 1,630,761; Aug. 25.

Campbell, Harry, Mariners Harbor, assignor of twenty-five per cent to R. T. Butts, twenty per cent to E. W. Butts, and twenty per cent to R. S. Allyn, New York, N. Y. Pipe valve. 1,636,951; July 26.

Campbell, Harry E., assignor to Union Electric Manufacturing Company, Milwaukee, Wis. Controlling device. 1,621,233; Mar. 15.

Campbell, Harry E., assignor to Union Electric Manufacturing Company, Milwaukee, Wis. Starting box for controlling the electric current to machine motors. 1,629,951; May 24.

Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Window frame and sash construction. 1,638,806; July 26.

Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Window. 1,636,807; July 26.

- Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Window frame and sash construction. 1,637,731; Aug. 2.
- Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Window frame and sash construction. 1,637,732; Aug. 2.
- Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Window frame and sash construction. 1,637,733; Aug. 2.
- Campbell, Harry E., and E. F. Mekeburg, assignors to Union Electric Manufacturing Company, Milwaukee, Wis. Electric switch. 1,638,517; Aug. 9.
- Campbell, Harry E., assignor to Union Electric Manufacturing Company, Milwaukee, Wis. Assembling sheet-metal resistance units. 1,649,809; Nov. 22.
- Campbell, Harry E., assignor to Union Electric Manufacturing Company, Milwaukee, Wis. Electric controller. 1,652,391; Dec. 13.
- Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Window-sash construction. 1,652,607; Dec. 13.
- Campbell, Howard D., assignor of one-half to C. R. Hudson, McAlester, Okla. Clutch. 1,642,298; Sept. 13.
- Campbell, J. B., Manufacturing Company, The. (See Campbell, John B., assignor.)
- Campbell, James R. (See Campbell, Thomas B., Jr., assignor.)
- Campbell, John A. (See Altamir, G. and Campbell.)
- Campbell, John B., assignor to The J. B. Campbell Manufacturing Company, Salem, N. J. Floor covering. 1,637,762; Aug. 2.
- Campbell, John G., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,626,182; Apr. 26.
- Campbell, John G., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Dynamo. 1,634,770; July 5.
- Campbell, Julian A., Long Beach, Calif. Dephlegmator. 1,622,703; Mar. 29.
- Campbell, Julian A., Long Beach, Calif. Absorber. 1,643,696; Sept. 27.
- Campbell, Katharine, Hastings, Pa. Hypodermic case. 1,650,980; Nov. 29.
- Campbell, Lawrence A., Kansas City, Mo. Display kerchief. 1,631,398; June 7.
- Campbell, Lawrence B., Washington, D. C. Radiator ornament. 1,644,051; Oct. 4.
- Campbell, Lorn, Jr., Minneapolis, Minn., assignor, by mesne assignments, to The Harris-Caloude Company, Cleveland, Ohio. Regulator. 1,632,055; June 14.
- Campbell, Malcolm, Maryfield, Saskatchewan, Canada. Scaffold bracket. 1,650,324; Nov. 22.
- Campbell Metal Window Corporation. (See Campbell, Harry E., assignor.)
- Campbell Metal Window Corporation. (See Ilch, Amson, assignor.)
- Campbell, Neal J., St. Louis, Mo. Railway crossing. 1,653,252; Dec. 20.
- Campbell, P. A., et al. (See Dougherty, Charles T., assignor.)
- Campbell, Percy A., East Cleveland, Ohio, assignor to General Electric Company. Filament for incandescent lamps or similar articles. 1,650,005; Nov. 29.
- Campbell, Ralph J., St. Louis, Mo. Tape solder. 1,653,546; Dec. 20.
- Campbell, Robert B., Long Island City, assignor, by mesne assignments, to Dry Ice Corporation of America, New York, N. Y. Carbonator. 1,648,575; Nov. 8.
- Campbell, Robert H., Upper Edmonton, London, assignor to Sparklets Limited, London, England. Inflating apparatus for life-saving devices. 1,621,458; Mar. 15.
- Campbell, Robert M. (See Wille, H. V., Campbell, and Etherington.)
- Campbell, Ross C., Springfield, Ill. Awning bracket. 1,645,737; Oct. 18.
- Campbell, Samuel J., St. Louis, Mo. Shoe support and catcher. 1,644,317; Oct. 18.
- Campbell Soup Company. (See McGowan, James, Jr., assignor.)
- Campbell, Sterling H., assignor to Railway Devices Company, St. Louis, Mo. Nut lock. 1,626,596; May 3.
- Campbell, Sterling H., assignor to Western Railway Equipment Company, St. Louis, Mo. Retaining-valve bracket. 1,640,819; Aug. 30.
- Campbell, Sterling H., assignor to Railway Devices Company, St. Louis, Mo. Angle-cock holder. 1,645,689; Oct. 18.
- Campbell, Thomas B., Jr., assignor of one-half to J. R. Campbell, Castle Shannon, Pa. Traction device. 1,614,873; Jan. 18.
- Campbell, Thomas D., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Knurled roll. 1,647,825; Nov. 1.
- Campbell, Wallace W., Denver, Colo. Dry-steam sleeve-finishing board. 1,623,091; Apr. 5.
- Campbell, Walter K., et al. (See Hendrickson, Dan C., assignor.)
- Campbell, William B., Montreal, Quebec, Canada. Freezer tester for pulp. 1,627,010; May 3.
- Campbell, William E., San Diego, assignor of one-third to A. Hicks, San Diego, Calif. Metal-lath corner strip. 1,619,401; Mar. 1.
- Campbell, William L., Spearfish, S. Dak. Composition for stopping leaks. 1,630,828; May 31.
- Campbell, Willis C., Yonkers, N. Y. Game projectile. 1,634,451; July 5.
- Campe Corporation. (See Monheimer, Henry F., assignor.)
- Camper, James H., Huntington, W. Va. Household article. 1,626,507; Apr. 26.
- Campfire Company, The. (See Hope, Samuel N., assignor.)
- Campion, Michael F. (See Weaver, F. L., and Campion.)
- Campion, Paul, Vitry-sur-Seine, France, assignor to A. B. Lick Company, Chicago, Ill. Manufacture of stencils for duplicating apparatus. 1,626,113; Apr. 26.
- Campo, James A., Woodridge, N. J. Nut lock. 1,639,211; Aug. 16.
- Campo, James A., Woodridge, N. J., assignor to Buffalo Brake Beam Company. Coupling pin. 1,621,624; Mar. 27.
- Camporini, Augustine, Chicago, Ill. Shock absorber. 1,647,271; Nov. 1.
- Campos, Adolfo, and P. H. Becerra, Philadelphia, Pa. Disk vehicle wheel. 1,654,034; Dec. 27.
- Campos, Adolfo, and P. H. Becerra, Philadelphia, Pa. Disk wheel for vehicles. 1,654,035; Dec. 27.
- Campos, Thomas M., Los Angeles, Calif. Traffic signal for duplicating apparatus. 1,642,941; Sept. 20.
- Campus, Cesare C., Santa Monica, Calif. Fluid-transfer device. 1,641,942; Sept. 6.
- Canada Biscuit Company, Limited. (See Chambers, Gurth F., assignor.)
- Canada Carbide Company. (See Freeman, Horace, assignor.)
- Canada, Chauncey M., assignor to United States Sand Paper Company, Williamsport, Pa. Sandpaper holder. 1,618,052; Feb. 15.
- Canadian Electric Products. (See Matheson, Howard W., assignor.)
- Canadian Electric Products Company. (See Matheson, H. W., and Blake, assignors.)
- Canadian Electro Products Company, Limited. (See Skirrow, F. W., and Herzberg, assignors.)
- Canadian Electro Products Co. Limited. (See Matheson, Howard W., assignor.)
- Canadian National Railways. (See Brooks, Charles E., assignor.)
- Canello, Robert R., Brooklyn, N. Y. Container. 1,641,317; Sept. 6.
- Canda, Abel, Cranford, N. J. Forging balls from long bars. 1,636,808; July 26.
- Candee, Allan H., and M. H. Johanson, assignors to Gleason Works, Rochester, N. Y. Machine for producing gears. 1,616,439; Feb. 8.
- Candee, Andrew H. (See Riley, L. G., Candee, and Jones.)
- Candee, Andrew H., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,649,018; Nov. 15.
- Candee & Company, The. (See Lewis, Harry F., assignor.)
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Power press. 1,632,462; June 14.
- Candler, De Forest W., assignor to E. Holley, Detroit, Mich. Mobile-cooling means. 1,650,260; Nov. 22.
- Candler, De Forest W., assignor to E. Holley, Detroit, Mich. Piston. 1,653,253; Dec. 20.
- Candray, José S., San Francisco, Calif. Lighter-than-air craft. 1,626,183; Apr. 26.
- Cane, Gordon F., San Francisco, and A. C. Wheelock, Oakland, Calif. Mattress-suspending means. 1,642,140; Sept. 13.
- Candey, James M. (See Candey, Ransford O. and J. M.)
- Candey, Ransford O. and J. M., North Adams, Mass. Electrical feeler for looms. 1,649,948; Nov. 22.
- Canfield, Alfred C. (See Johnson, W. R., and Canfield.)
- Canfield, Albert H., Bridgeport, Conn. Tank valve. 1,652,236; Dec. 13.
- Canfield, Albert H., Bridgeport, Conn. Tank ball. 1,653,237; Dec. 13.
- Canfield, Henry H. (See Isbell, W. A., and Canfield.)
- Canfield, Lewis T., assignor to Union Gear Co., Chicago, Ill. Draft gear. 1,616,411; Feb. 1.
- Canfield, Lewis T., assignor to Union Draft Gear Company, Chicago, Ill. Railway car. 1,643,534; Sept. 27.
- Canfield, Myron E. (See Lawson, W. L., and Canfield.)
- Canfield, Robert W., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for shaping glassware. 1,625,590; Apr. 19.
- Canfield, Robert W., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Making hollow glassware. 1,635,704; July 12.
- Canfield, William C., Philadelphia, Pa. Detachable suspension hinge. 1,620,189; Mar. 8.
- Canine, Chester W., Cincinnati, Ohio. Laundry-marking tag. Re16,717; Aug. 23.
- Canizaro, Peter C., Vicksburg, Miss. Portable fire escape. 1,647,684; Nov. 1.
- Cann, Arthur S., assignor of one-third to B. Carlson and one-third to P. Carlson, Springfield, Mass. Radiator shield. 1,615,931; Feb. 1.
- Cann, Thomas E., Leicester, England. Sole-pressing apparatus for use in the manufacture and repair of boots and shoes. 1,622,418; Mar. 29.
- Cannaday, Charles E., Washington, D. C. Inside-door protector and gang board. 1,623,776; Apr. 5.

- Cannam, Earl W., and G. S. Huginn, Eureka, Calif. Tire lock. 1,642,576; Sept. 13.
- Cannard, William H., assignor to Fort Howard Paper Company, Green Bay, Wis. Spray marker. 1,628,305; May 10.
- Cannell, William, et al. (See Rath, Albert J., assignor.)
- Canning, John F., Richmond Hill, N. Y. Treatment of internal-combustion-motor cylinders for carbon deposit. 1,640,690; Aug. 30.
- Canning Machinery Exchange. (See Randall, H. C., and Colbert, assignors.)
- Cannon, Alfred C. (See Gerow, J. A., and Cannon.)
- Cannon, Earl, assignor, by mesne assignments, to American Engineering Company, Philadelphia, Pa. Hydraulic mechanism. 1,638,653; Aug. 9.
- Cannon Electric Development Company. (See Cannon, James H., assignor.)
- Cannon Engineering Co. (See Brewer, Charles A., assignor.)
- Cannon, Espey T., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Belt-conveyor arrangement. 1,636,680; July 26.
- Cannon, Felix, Hamlet, N. C. Locomotive driving box. 1,617,042; Feb. 8.
- Cannon, Frank J., assignor to Production Meter Company, Chicago, Ill. Counting device. 1,614,712; Jan. 18.
- Cannon, Harvey W. (See Turner, O. M., and Cannon.)
- Cannon, Hiram B., Metuchen, N. J. Distilling materials. 1,651,994; Dec. 6.
- Cannon, James H., assignor to Cannon Electric Development Company, Los Angeles, Calif. Broliner. 1,624,214; Apr. 12.
- Cannon, John W., Birmingham, Ala. Burial garment. 1,626,450; Apr. 26.
- Cannon Manufacturing Company. (See Flannery, Burt V., assignor.)
- Cannon, Michael P., and O. Markel, Chicago, Ill. Vibrating chair. 1,615,613; Jan. 25.
- Canny, David R., Los Angeles, Calif. Window-sash construction. 1,621,828; Mar. 22.
- Cano, Vernon, Elizabeth, N. J. Apparatus for heating, cooling, or drying materials. Re16,699; Aug. 9.
- Cano, Vernon, Elizabeth, N. J., assignor to Bentz Engineering Corporation. Mulling cabinet. 1,649,151; Nov. 15.
- Canon, Frank A., and C. E. Andrews, assignors to The Selden Company, Pittsburgh, Pa. Carrying on catalytic reactions. Re16,824; Dec. 20.
- Canon, Frank A., and C. E. Andrews, Pittsburgh, Pa., assignors to The Selden Company, Pittsburgh, Pa. Carrying on catalytic reactions. 1,614,185; Jan. 11.
- Canotti, M. L. (See Smith, Noble Z., assignor.)
- Canott, Moody L., Wellman, and J. E. Hall, Eagle Grove, Iowa. Safety-vault lock. 1,646,138; Oct. 18.
- Cant, David A. (See Taylor, Roy, assignor.)
- Canter, Vernon C., Charleston, W. Va., assignor to Gasoline Recovery Corporation. Apparatus for cooling and condensation. 1,622,024; Mar. 22.
- Cantilver Corporation. (See Morse, Raymond P., assignor.)
- Canton Forge & Axle Company. (See Schneider, Lawrence A., assignor.)
- Cantonio, Eugenio, Rome, Italy. Shock-preventing device for vehicles. 1,629,378; May 17.
- Cantor, Oslas, Sea Gate, New York Harbor, N. Y. Dental forceps. 1,626,226; Apr. 26.
- Cantor, Ruban, assignor to Royal Glass Works, Brooklyn, N. Y. Unloading device. 1,626,597; May 3.
- Caniotti, Joseph, St. Charles, Ill. Window retainer. 1,625,295; Apr. 19.
- Cantrall, Frank, Wray, Colo. End-gate fastener. 1,646,899; Oct. 25.
- Cantrall, Alonzo, Salt Lake City, Utah. Merchandise-vending machine. 1,625,845; Apr. 26.
- Cantrall, J. T., & Company. (See Cantrall, Joseph T., assignor.)
- Cantrall, Joseph T., Huntington, N. Y. assignor to J. T. Cantrall & Company. Tail-board fastener. 1,615,300; Jan. 25.
- Cantwell, George L., Wichita, Kans. Syringe. 1,645,984; Oct. 18.
- Cantwell, Margaret W. (See Schauman, Bror M., assignor.)
- Capaldo, Louis A., New York, N. Y. Parasol. 1,632,882; June 21.
- Capaldo, Louis A., New York, N. Y. Umbrella. 1,650,933; Nov. 29.
- Cape, Thomas A. (See Reedy, J. H., and Cape.)
- Capen, Wallace C. (See Boyd, D. M., and Capen.)
- Capicotto, James V., Brooklyn, assignor to Dubilier Condenser Corporation, New York, N. Y. Welding copper and aluminum. 1,636,656; July 19.
- Capital Manufacturing Co. (See Forth, Charles, assignor.)
- Caplan, Samuel J. (See Willock, H. H., Caplan, and Babb.)
- Capolupo, Vincenzo, East Boston, Mass. Automatic fire-arm. 1,639,425; Aug. 16.
- Cappa, Giulio C., Turin, Italy. Cooling the valves, stems, and seats in internal-combustion engines. 1,621,521; Mar. 22.
- Cappa, Giulio C., Turin, Italy. Valve gear for internal-combustion engines. 1,621,522; Mar. 22.
- Cappa, Giulio C., Turin, Italy. Internal-combustion engine with inclined cylinders. 1,634,017; June 28.
- Cappa, Giulio C., Turin, Italy. Valve gear for explosion engines. 1,626,213; July 19.
- Cappa, Giulio C., Turin, Italy. Head for explosion engines. 1,636,214; July 19.
- Cappoon, Thomas W., Brooklyn, N. Y. Ink eradicator. 1,630,329; May 31.
- Capps, Washington T., Baltimore, Md., and H. G. Mastin, Poughkeepsie, N. Y., assignors to Locomotive Stoker Company, 1,642,298; Sept. 13.
- Capps, William P., Shreveport, La. Valve cage. 1,613,559; Jan. 4.
- Capra, Angelo M., Philadelphia, Pa., assignor, by mesne assignments, to Capra Filter Press Corporation. Filter press. 1,621,767; Mar. 22.
- Capra Filter Press Corporation. (See Capra, Angelo M., assignor.)
- Capra, Mary, Alameda, Calif. Drain board. 1,653,000; Dec. 20.
- Caprarola, Domenico, assignor of one-half to D. S. Gross, Baltimore, Md. Coat. 1,646,274; Oct. 18.
- Capri, Peter, New York, N. Y. Swab or dauber. 1,629,436; May 7.
- Capstick, James A., Brown, Luther E., assignor.)
- Caps, Arthur W., Kansas City, Mo., assignor to Photostat Corporation, Providence, R. I. Photographic developing apparatus. 1,653,429; Dec. 20.
- Caps, Arthur W., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Roll-holding camera. 1,651,441; Dec. 6.
- Capstaff, James A. (See Fletcher, A. Jr., and Capstaff.)
- Capstan Glass Company. (See Kucera, Peter, assignor.)
- Capuano, Crescenzo, Los Angeles, Calif. Pants and pocket ruler. 1,625,453; Apr. 19.
- Caputo, Michael R., Scranton, Pa. Crossing gate. 1,651,326; Nov. 29.
- Capwell, Vernon L., Clinton, Ind. Razor-stropping device. 1,624,408; Apr. 19.
- Car Devices Company. (See Hannaford, Cleon M., assignor.)
- Car Fastener Company. (See Pierce, Walter H., assignor.)
- Caracristi, Virginius Z., Bronxville, N. Y. Steam-engine operation. 1,627,075; May 3.
- Caracristi, Virginius Z., Bronxville, N. Y. Valve cut-off and speed indicator. 1,627,076; May 3.
- Caracristi, Virginius Z., Bronxville, N. Y., assignor to Locomotive Pulverized Fuel Company. Feeder for powdered fuel. 1,614,713; Jan. 18.
- Carbell, Louis R., Savanna, Ill. Wrench. 1,623,945; Apr. 5.
- Carbic Limited. (See King, Otis C. F., assignor.)
- Carbide and Carbon Chemicals Corporation. (See Curme, George O., Jr., assignor.)
- Carbide and Carbon Chemicals Corporation. (See Curme, G. O., Jr., and Thompson, assignors.)
- Carbide & Carbon Chemicals Corporation. (See Davidson, Joseph G., assignor.)
- Carbide & Carbon Chemicals Corporation. (See Young, Charles O., assignor.)
- Carbide and Carbon Chemicals Corporation. (See Young, C. O., and Herfly, assignors.)
- Carbo-Hydrogen Company of America. (See Rose, James R., assignor.)
- Carbondale Machine Company. (See Hiller, N. H., and McCabe, assignors.)
- Carbondale Machine Company. (See Hiller, N. H., and Saffberg, assignors.)
- Carbondale Machine Co., The. (See Torrance, Henry, assignor.)
- Carbone, Peter, Brooklyn, N. Y. Embroidery frame. 1,636,681; July 26.
- Carbone, Tito L., deceased, Berlin, by E. Mommsen, executor, Charlottenburg, Germany. Flame arc lamp with enclosures arc. 1,629,254; May 17.
- Carborundum Company, The. (See Greenwood, Charles H., assignor.)
- Carborundum Company, The. (See Hartmann, Miner L., assignor.)
- Carborundum Company, The. (See Hartmann, M. L., and Easter, assignors.)
- Carborundum Company, The. (See Martin, Harry C., assignor.)
- Carborundum Company, The. (See Power, Henry R., assignor.)
- Carborundum Company, The. (See Seymour, John P., assignor.)
- Carborundum Company, The. (See Tone, Frank J., assignor.)
- Card Display, Inc. (See Bloomingdale, Hiram C., as assignor.)
- Card, Roy A., Washington, D. C. Faucet or valve. 1,624,771; July 5.
- Cardarella, Philip, Kansas City, Mo. Nursing-bottle holder. 1,630,167; May 24.
- Cardarelle, Joseph E. (See Turner, Francis M., assignor.)
- Cardarelli, Emilio A., Boston, Mass. Combination step-ladder. 1,635,705; July 12.
- Cardenas, Francisco, Piedras Negras, Mexico. Water pump. 1,632,948; June 21.
- Carder, Earle H., Hollywood, Calif. Combination hot and cold water faucet. 1,646,575; Oct. 25.

- Carder, Frederick, Corning, N. Y. Flower holder. Des. 73,557; Oct. 4.
- Cardinet, Albert D., Los Angeles, Calif. Insect trap. 1,634,648; July 5.
- Cardullo, Forrest E., assignor to The G. A. Gray Company, Cincinnati, Ohio. Tool holder for planers. 1,615,787; Jan. 25.
- Cardullo, Forrest E., assignor to The G. A. Gray Company, Cincinnati, Ohio. Tool holder for planers and similar tools. 1,643,873; Sept. 27.
- Cardwell, Allen D., Rockville Center, N. Y. Making electrical coils. 1,616,111; Feb. 1.
- Cardwell, Allen D., Rockville Center, assignor to The Allen D. Cardwell Manufacturing Corporation, New York, N. Y. Variable air condenser. 1,626,391; Apr. 26.
- Cardwell, Allen D., Manufacturing Corporation, The. (See Cardwell, Allen D., assignor.)
- Cardwell, James R., assignor to Union Draft Gear Company, Chicago, Ill. Friction draft gear. 1,644,172; Oct. 4.
- Cardwell, Thomas, Sedalia, Mo. Rail for locomotive stalls. 1,625,454; Apr. 19.
- Carek, Charles C., Touhy, Nebr. Portable desk for auction clerks. 1,613,440; Jan. 4.
- Carek, Charles C., Touhy, Nebr. Shoe-shining machine. 1,647,393; Nov. 1.
- Cares, Harry F., and R. Marsland, Essington, Pa., assignors to Westinghouse Electric & Manufacturing Company, Schenectady, N. Y. Liquid-level indicator. 1,653,759; Dec. 27.
- Carey, Charles E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, Automatic station. 1,635,574; July 12.
- Carey, Cornelius J., Fall River, Mass. Life-saving device. 1,614,015; Jan. 18.
- Carey, Elton R., assignor to O. E. Carey, Long Beach, Calif. Front-axle assembly. 1,635,706; July 12.
- Carey, George W., Oshkosh, Nebr. Crust breaker. 1,653,760; Dec. 27.
- Carey, Max G., Pittsburgh, Pa. Sliding pad. 1,641,318; Sept. 6.
- Carey, Oyada E. (See Carey, Elton R., assignor.)
- Carek, Phillip, Manufacturing Company, The. (See Rogers, Homer L., assignor.)
- Carey, Robert F., Leigh-on-Sea, England. Hydraulic power-transmission apparatus. 1,645,371; Oct. 11.
- Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic device. 1,628,674; Aug. 8.
- Carilla, Louis, et al. (See Pradas, Henry, assignor.)
- Carion, Mary, Hillside, N. J. Combined ironing board and ladder. 1,617,254; Feb. 8.
- Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Friction clutch. 1,637,734; Aug. 2.
- Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Clutch construction. 1,640,752; Aug. 30.
- Carkey, George M., Los Angeles, Calif. Combined weed cutter and cultivator. 1,632,883; June 21.
- Carl, John S., assignor to T. A. Sala, Dallas, Tex. Scraper for golf greens. 1,652,852; Dec. 13.
- Carl Lindstrom Aktiengesellschaft. (See Jokel, Franz, assignor.)
- Carland, Frank B., Elmburst, N. Y. Line attachment. 1,637,174; July 26.
- Carlberg, August E., assignor to Walden-Wooster, Inc., Worcester, Mass. Wrench. 1,613,981; Jan. 11.
- Carlberg, Carl S., Mound, Minn., assignor to Pressteel Radiator Company. Radiator. 1,634,252; July 5.
- Carle, Harold, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Box and making same. 1,649,569; Nov. 15.
- Carley, William J., assignor to M. Bessiers, Culpelver, Va. Wire clamp. Re16,704; Aug. 16.
- Carlin, Bernard B. (See Bright, Martin C., assignor.)
- Carline, John C., Hull, England. Pulverizing and separating machinery. 1,651,372; Dec. 6.
- Carling, Arthur, Hartford, Conn., assignor, by mesne assignments, to Reynolds Spring Company, Jackson, Mich. Electric snap switch. 1,638,828; Aug. 16.
- Carlisle, Charles J., Coldwater, Mich. Door-opening mechanism. 1,622,988; Mar. 22.
- Carlisle, Howard W., assignor to Keen Waving Company, Incorporated, New York, N. Y. Hair-waving pad. 1,653,841; Dec. 27.
- Carlson, Andrew E. (See Hanson, Hans E., assignor.)
- Carlson, Andrew E. (See Shadrick, Richard H., assignor.)
- Carlson, Harold. (See Dahl, Sigvald, assignor.)
- Carlson, Alder G., Moose Lake, Minn. Fly and insect trap. 1,629,816; May 2.
- Carlson, Anthony E., Los Angeles, Calif. Apparatus for elevating and lowering oil-well tubing. 1,620,190; Mar. 8.
- Carlson, Anthony E., Los Angeles, Calif. Rock drill. 1,624,312; Apr. 12.
- Carlson, Anthony E., Los Angeles, Calif. Buttocks elevator. 1,650,261; Nov. 22.
- Carlson, Arthur J., Vernon, Tex. Slicing device. 1,620,095; Mar. 15.
- Carlson, Axel E., Moline, Ill. Electric gas lighter. 1,622,089; Mar. 22.
- Carlson, Barney, et al. (See Cann, Arthur S., assignor.)
- Carlson, Benjamin, et al. (See Cann, Arthur S., assignor.)
- Carlson, Carl C. R., Duluth, Minn. Coal chute for cellar windows. 1,617,147; Feb. 8.
- Carlson, Carl E., et al. (See Fisher, Charles, assignor.)
- Carlson, Carl O., Riverside, Calif. Loading apparatus for shovel-nose hand trucks. 1,641,371; Sept. 6.
- Carlson, Charles A., Ridley Park, Pa. Piston construction. 1,628,652; May 7.
- Carlson, Charles G., Chicago, Ill. Curtain-stretcher clamp. 1,632,995; June 21.
- Carlson, Charles J., Helena, Mont. Universal sawing or cutting machine. 1,615,901; Feb. 1.
- Carlson, Charles J., and O. M. Elton, Helena, Mont. Steam boiler. 1,637,929; Aug. 2.
- Carlson, Clarence G., Spokane, Wash. Barrel-emptying hand truck. 1,636,682; July 26.
- Carlson, Edwin E., and L. A. Stread, Chester, Pa. Dyeing warps. 1,646,526; Oct. 25.
- Carlson, Ellsworth E., J. F. Costello, and R. L. Heilbron, assignors to Luxite Silt Products Co., Milwaukee, Wis. Bloomers. 1,643,980; Oct. 4.
- Carlson, Enock A., Delvaille, Tex. Paper bag and twine holder. 1,630,606; May 31.
- Carlson, Eric, assignor to Stewart Manufacturing Corporation, Chicago, Ill. Assembling mechanism for engine valves. 1,617,477; Feb. 15.
- Carlson, Eric V. (See Pecina, R. F., and Carlson.)
- Carlson, Frederick O., Hopewell, Va., assignor to Mayhew Steel Products Company, Incorporated, Shelburne Falls, Mass. Cutter, mill, or the like. 1,626,598; May 8.
- Carlson, George H., assignor to Redin, Ekstrom & Company, Rockford, Ill. Oscillating belt sander. 1,628,531; April 10.
- Carlson, George H., assignor to Redin, Ekstrom & Co., Rockford, Ill. Routing machine. 1,639,485; Aug. 16.
- Carlson, Gunnar, et al. (See Peterson, Alfred T., assignor.)
- Carlson, Gustave A. (See Parsons, John H., assignor.)
- Carlson, Gustave O., Wettersfield, assignor of one-third to H. O. Middleton, and one-third to C. O. Hedstrom, Portland, Conn. Tool. 1,643,835; Sept. 27.
- Carlson, Henry F., and H. A. Recen, Leadville, Colo. Cord and thread container. 1,642,805; Sept. 20.
- Carlson, Hjalmar, Duluth, Minn. Combination jack and puller. 1,621,829; Mar. 22.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Latch-releasing device for dry pipe valves. 1,621,872; Mar. 22.
- Carlson, Joseph C., Tulsa, Okla. Surfacing for automobile parts and the like. 1,626,508; Apr. 26.
- Carlson, Lewis B., Boston, assignor to S. A. Woods Machine Company, South Boston, Mass. Radial setting gauge. 1,641,114; Aug. 30.
- Carlson, Martin O., Chicago, Ill. Push sled. 1,633,362; June 21.
- Carlson, Martin O., Chicago, Ill. Push-sled brake. 1,633,363; June 21.
- Carlson, Marvid C., Fort Dodge, Iowa. Bolter. 1,635,925; July 12.
- Carlson, Oscar, Danneberg, Nebr. Cream-can lifter. 1,618,568; Feb. 22.
- Carlson, Oscar F., Chicago, Ill. Automatic control system for burners. 1,635,809; July 12.
- Carlson, Peet, Manor, Tex. Cotton harvester. 1,624,313; Apr. 12.
- Carlson, Philip, Bridgeport, Conn. Cab for motor vehicles. 1,641,115; Aug. 30.
- Carlson, Philip, Bridgeport, Conn. Cab for motor vehicles. 1,641,117; Aug. 30.
- Carlson, Stewart W., et al. (See Peterson, Alfred T., assignor.)
- Carlson, Wendell L., Washington, D. C. Amplifier. 1,613,741; Jan. 11.
- Carlson, Wendell L., and G. W. Carpenter, Washington, D. C. Radio telegraph system. 1,640,881; Aug. 30.
- Carlson, Wendell L., Washington, D. C., assignor to Radio Corporation of America, New York, N. Y. Electrical communication. 1,649,095; Nov. 15.
- Carlson, Wilbur J., Rochester, and J. J. Lanaban, Buffalo, N. Y. Household still. 1,635,112; July 5.
- Carlsson, Carl, Stockholm, Sweden. Carburetor for internal-combustion engines. 1,639,396; Aug. 16.
- Carlsson, Carl, Stockholm, Sweden. Venturi for carburetors. 1,642,332; Sept. 13.
- Carlsson, Svante A., Lethbridge, Ontario, Canada. Irrigation door. 1,633,395; June 21.
- Carlstedt, Ragnar, Stockholm, Sweden, assignor to Midwest Air Filters, Incorporated. Humidifier. 1,627,686; May 10.
- Carlton, Allan J. (See Wilson, W. J., and Carlton.)
- Carlton, Fred, Bloomington, Ill. Knockdown container. 1,650,262; Nov. 22.
- Carlton, Jack C., assignor to The Carlton Machine Tool Company, Cincinnati, Ohio. Radial drill. 1,619,190; Mar. 1.
- Carlton, Jack C., assignor to The Carlton Machine Tool Company, Cincinnati, Ohio. Radial drill. 1,638,654; Aug. 9.

Carlton, Jack C., assignor to The Carlton Machine Tool Company, Cincinnati, Ohio. Radial-drill column-clamp control. 1,638,655; Aug. 9.

Carlton, Jack C., assignor to The Carlton Machine Tool Company, Cincinnati, Ohio. Clutch mechanism. 1,642,642; Sept. 13.

Carlton, James A., St. Louis, Mo., assignor, by mesne assignments, to C. S. Russell, West Medford, Mass. Automatic suction sheet-feeding machine. 1,646,681; Oct. 25.

Carlton Machine Tool Company. (See Carlton, Jack C., assignor.)

Carlton, William F., Massillon, Ohio. Trap for rodents. 1,649,663; Nov. 15.

Carlucci, Rocco A., West New York, N. J. Stringed instrument. 1,631,794; June 7.

Carman, Edwin S., East Cleveland, and E. E. Curtis, Lakewood, assignors to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. 1,631,993; June 14.

Carman, William H., and V. K. Davison, Sacramento, Calif. Locking device. 1,653,339; Dec. 20.

Carmichael, Andrew J., assignor to The Greist Manufacturing Company, New Haven, Conn. Portable lamp base. 1,636,735; July 26.

Carmichael, Andrew J., and H. F. Thurber, assignors to The Greist Manufacturing Company, New Haven, Conn. Lamp. Des. 74,047; Dec. 13.

Carmichael, John P., Milwaukee, Wis. Root-canal filling for teeth. 1,649,508; Nov. 15.

Carmichael, Thomas, and J. B. Bowlin, Fort Bragg, Calif. Drill bit. 1,633,636; June 21.

Carmichael, William M., Atlanta, Ga. Static neutralizer for printing presses. 1,619,988; Mar. 8.

Carnahan-Byrne Machinery Company. (See Kramer, John G., assignor.)

Carnes, Alfred H., and R. M. Marr; said Marr assignor of one-fourth to said Carnes and one-fourth to Mrs. J. B. Bedford, Okemah, Okla. Working barrel for oil wells. 1,642,601; Sept. 13.

Carnes, Almus T., Kansas City, Mo. Automatic hose nozzle. 1,645,127; Oct. 11.

Carnes Artificial Limb Company. (See Carnes, William T., assignor.)

Carnes, Byron J., Charlotte, Mich. Combination lock. 1,622,489; Mar. 29.

Carr, Sam, North Powder, Oreg. Vehicle body removing and replacing device. 1,631,915; June 7.

Carnes, William T., assignor to Carnes Artificial Limb Company, Kansas City, Mo. Phonograph tone arm and resonator. 1,633,624; June 28.

Carney, Joseph F., New York, assignor to Waldorf Astoria Service Corporation, Long Island City, N. Y. Plate or similar article. Des. 72,307; Mar. 29.

Carney, Samuel B., Wick, Va., assignor of one-half to J. M. Roan, Cambridge, Ohio. Splice. 1,651,339; Nov. 29.

Carnowsky, Robert R., and J. T. Stratman, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich. Abrading tool and preparing automobile bodies for finishing. 1,646,852; Oct. 29.

Caro Cloth Corporation. (See Walsb, Patrick H., assignor.)

Caro, Raymond J. (See Larison, E. L., Frick, and Caro.)

Carolin, Samuel. (See Quigan, F. J., and Carolin.)

Carolus Manufacturing Company. (See Carolus, William B., assignor.)

Carolus, William B., assignor to Carolus Manufacturing Company, Sterling, Ill. Nut-splitting tool. 1,653,340; Dec. 20.

Carolyn Laundry. (See Lane, Edwin, assignor.)

Caron, Philibert A., Detroit, Mich. Safety electric door opener. 1,638,240; Aug. 9.

Caroni, Italo, Rome, Italy. Bridge material. 1,640,980; Aug. 30.

Carothers, Robert M., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,624,715; Apr. 12.

Carpe, Allen, New York, N. Y., and R. W. Deardorff, Kensington, Calif., assignors to American Telephone and Telegraph Company. Protection circuit. 1,646,444; Oct. 25.

Carpenter, Albert J., Portland, Me. Garter. 1,618,147; Feb. 15.

Carpenter, Arthur H., La Grappe, and P. C. Huntley, Riverside, Ill., assignors to The Vitrolite Company, Parkersburg, W. Va. Pouring device for glass furnaces. 1,630,829; May 31.

Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Treatment of wood separators. 1,614,916; Jan. 18.

Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery cell. 1,632,364; June 14.

Carpenter, Charles E. (See Little, A. D., and Carpenter.)

Carpenter, Charles E., Chicago, Ill. Razor stropper and the like. 1,613,643; Jan. 11.

Carpenter, Charles E., Chicago, Ill. Toasting machine and the like. 1,621,234; Mar. 15.

Carpenter, Charles E., New York, N. Y. Speed regulator. 1,627,332; May 10.

Carpenter, Charles E., Chicago, Ill. Doughnut machine and the like. 1,641,118; Aug. 30.

Carpenter, Charles E., New York, N. Y. Method and apparatus for tension control. 1,652,299; Dec. 13.

Carpenter, Charles L., and W. E. Jaquith, Syracuse, N. Y. Sanitary toilet bowl. 1,645,799; Oct. 18.

Carpenter, Charles U., Dayton, Ohio, assignor, by mesne assignments, to J. R. Sterrett, H. F. Devens, and J. R. Speer, Typewriter, 1,644,108; Oct. 4.

Carpenter, Clifford C., White Plains, N. Y. Rain catcher. 1,647,900; Nov. 1.

Carpenter, David E., New York, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Container. 1,637,353; Aug. 2.

Carpenter, Frank D., assignor, by mesne assignments, to The Gates Corporation, Concord, N. H. Transmission gear lock. 1,648,754; Nov. 8.

Carpenter, Glenn W. (See Carlson, W. L., and Carpenter.)

Carpenter, Grant. (See Weston, E. F., and Carpenter.)

Carpenter, Howard B., Pueblo, Colo. Coal drier. 1,650,427; Nov. 22.

Carpenter, Hubert V., Pullman, Wash. Device used for controlling the speed of water wheels. 1,622,763; Mar. 29.

Carpenter, Ira C., Cleveland, Ohio. Back for rotary scrubbing brushes. 1,654,036; Dec. 27.

Carpenter & Jackson. (See Ferris, Roy W., assignor.)

Carpenter, Paul. (See Barbieri, C., and Carpenter.)

Carpenter, R. C., Manufacturing Company, The. (See Anderson, Thomas F., assignor.)

Carpenter, Robert F., and T. F. Anderson, assignors to The Sanymetal Products Company, Cleveland, Ohio. Metal partition. 1,621,060; Mar. 15.

Carpenter, Warren W., Queens, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,623,777; Apr. 5.

Carpenter, Warren W., Queens, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,632,056; June 14.

Carpenter, Warren W., Queens Village, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,649,099; Nov. 15.

Carpenter, William, et al. (See Ferris, Roy W., assignor.)

Carpenter, William A. (See Irwin, H. H., and Carpenter.)

Carpenter, William A., Hartsville, S. C., assignor of one-half to C. H. Campbell. Undercleanser for spinning frames. 1,635,205; July 12.

Carpio, Tomas C., San Sebastian, Spain. Photographic charging, reducing, reproducing, and printing apparatus. 1,635,741; July 12.

Carpmael, Richard H., Moulton, England. Closure for bottles and other containers. 1,651,669; Dec. 6.

Carpmill, John F., and H. G. Hancock, assignors to North & Judd Manufacturing Company, New Britain, Conn. Snap. 1,646,745; Oct. 25.

Carr, Edward G., Chicago, Ill. Concrete-road machine. 1,629,611; May 24.

Carr, Edward G., Chicago, Ill. Concrete-road machine. 1,644,511; Oct. 4.

Carr, Edward G., Chicago, Ill. Machine for preparing bases for rails and the like. 1,648,637; Nov. 8.

Carr Fastener Company. (See Anderson, Andrew G., assignor.)

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr Fastener Company. (See Carr, Moses H., assignor.)

Carr Fastener Company. (See Elwell, George H., assignor.)

Carr Fastener Company. (See Pierce, Walter H., assignor.)

Carr, Fred P. (See Arnold, James E., assignor.)

Carr, Fred S., Newton, Mass., assignor, by mesne assignments, to The Bessick Mfg. Co. Chicago, Ill. Lubricating apparatus. 1,644,173; Oct. 4.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,646,345; Oct. 18.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Nut fastening. 1,646,366; Oct. 18.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Nut and screw fastening. 1,646,367; Oct. 18.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Lock-nut-fastening installation. 1,646,368; Oct. 18.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,647,770; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,771; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,772; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,773; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,774; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,775; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,776; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,777; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,778; Nov. 1.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,780; Nov. 1.

- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,781; Nov. 1.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,647,782; Nov. 1.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,647,783; Nov. 1.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,653,598; Dec. 20.
- Carr, Harry L., Hastings, Mich. Cultivator tooth. 1,650,007; Nov. 22.
- Carr, James A. (See Matthews, E. M., and Carr.)
- Carr, John G. (See Hart, Clyde, assignor.)
- Carr, John P., et al. (See Munyon, Alice G., assignor.)
- Carr, Matthew, Berwyn, assignor to Joseph C. Carry, Chicago, Ill. Refrigerator car. 1,623,305; Apr. 5.
- Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Stud. Rel.6561; Mar. 1.
- Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Fastener stud. 1,634,230; June 28.
- Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,641,816; Sept. 6.
- Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,641,917; Sept. 6.
- Carr, Moses F., Lexington, Mass. assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,643,981; Oct. 4.
- Carr, Moses F., Lexington, Mass. assignor, by mesne assignments, to The Basic Manufacturing Company, Chicago, Ill. Lubricating nipple and cap therefor. 1,644,174; Oct. 4.
- Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to The Basic Manufacturing Company, Chicago, Ill. Lubricating nipple and cap therefor. 1,644,236; Oct. 4.
- Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,647,779; Nov. 1.
- Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,651,340; Nov. 29.
- Carr, Paul, Miami, Fla. Shoe. 1,623,092; Apr. 5.
- Carraine, Eugene, Philadelphia, Pa. Illuminated sign. 1,625,708; Apr. 19.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Compressor. 1,614,100; Jan. 11.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Balanced centrifugal clutch. 1,614,101; Jan. 11.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Compressor. 1,620,870; Mar. 15.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Flywheel and balancing same. 1,620,871; Mar. 15.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Thermostat. 1,638,085; Aug. 9.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Pressure-reducing device. 1,638,110; Aug. 9.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Driving mechanism. 1,639,647; Aug. 23.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Compressor housing. 1,639,648; Aug. 23.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Controlling device. 1,642,141; Sept. 13.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Compressor for refrigeration systems. 1,651,670; Dec. 6.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Shaft coupling. 1,651,671; Dec. 6.
- Carrey-Morse Engineering Company. (See Carrey, John O., assignor.)
- Carrick, Caleb R., Buffalo, N. Y. Combination sink and refrigerator. Des. 73,776; Nov. 8.
- Carrick, Franklin K., Rapid City, Manitoba, Canada. Weed eradicator. 1,634,172; June 28.
- Carrick, Robert M., Larchmont, N. Y. Concrete clip. 1,628,223; May 10.
- Carrier Engineering Corporation. (See Carrier, Willis H., assignor.)
- Carrier Engineering Corporation. (See Lewis, Leo L., assignor.)
- Carrier, Willis H., Essex Falls, assignor to Carrier Engineering Corporation, Newark, N. J. Refrigerating system. 1,639,023; Aug. 16.
- Carrier, Willis H., Essex Falls, assignor to Carrier Engineering Corporation, Newark, N. J. Substance and process of using the same for refrigeration purposes. 1,642,942; Sept. 20.
- Carrier, Willis H., Essex Falls, assignor to Carrier Engineering Corporation, Newark, N. J. Substance and process of using the same for refrigerating purposes. 1,642,943; Sept. 20.
- Carrier, Willis H., Essex Falls, N. J., assignor to Carrier Engineering Corporation, Newark, N. J. Refrigerating system. 1,652,163; Dec. 13.
- Carrigan, Jesse L., Birmingham, Ala. Screen adjuster. 1,646,890; Oct. 25.
- Carrigan, Thomas E., Milwaukee, Wis. Knockdown bed frame for automobiles. 1,631,620; June 7.
- Carrigan, Thomas E., Milwaukee, Wis. Knockdown bed frame. 1,631,621; June 7.
- Carringer, James R. (See Howard, F. A., Clark, and Carringer.)
- Carringer, James R., Elizabeth, N. J., assignor to Standard Development Company. Continuous distillation of hydrocarbon oils. 1,644,324; Oct. 4.
- Carrington, George, Chicago, Ill. Steering device for vehicles. 1,614,279; Jan. 11.
- Carrington, John W., Cincinnati, Ohio. Automobile cleaning device. 1,625,792; Apr. 26.
- Carriol, Louis. (See Muller, A., and Carriol.)
- Carroll, Charles P. (See Carroll, James O., assignor.)
- Carroll, Dallas C., assignor to The Firestone Steel Products Company, Akron, Ohio. Machine for manufacturing rims. 1,618,812; Feb. 2.
- Carroll, Edgar E., and F. B. Culbertson, Portland, Ore. Heating furnace. 1,634,706; July 5.
- Carroll, Emil J., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Dump-bottom extractor. 1,633,570; June 28.
- Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Extractor control. 1,634,452; July 5.
- Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Overdriven extractor. 1,634,707; July 5.
- Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Automatic washing machine. 1,639,024; Aug. 16.
- Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Automatic washing machine. 1,639,368; Aug. 16.
- Carroll, Emil J., assignor to The American Laundry Machinery Company, Norwood, Ohio. Control means for electrically-driven machines. 1,643,197; Sept. 20.
- Carroll, Emil J., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Electric steam generator. 1,646,746; Oct. 25.
- Carroll, Emil J., Norwood, assignor to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio. Electrically-driven extractor. 1,649,889; Nov. 22.
- Carroll, Emil J., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Centrifugal extractor. 1,652,766; Dec. 13.
- Carroll, Fred M., assignor to The Tabulating Machine Company, Endicott, N. Y. Card-controlled printing machine. 1,623,163; Apr. 5.
- Carroll, Fred M., assignor to The Tabulating Machine Company, Endicott, N. Y. Sensing means for perforated record card. 1,623,164; Apr. 5.
- Carroll, James O., Pittsfield, Ill. assignor of fifty-one per cent to C. P. Carroll, Kansas City, Mo. Baling-wire tier. 1,624,157; Apr. 12.
- Carroll, John B., Oak Park, Ill. Thermometer or thermometer-tube support. 1,635,174; July 12.
- Carroll, John B., Saginaw, Mich. Mechanical movement. 1,634,458; July 5.
- Carroll, John R., assignor of one-half to A. C. Baurelle, South Mountain, Pa. Machine for coring and derinding fruit. 1,631,854; June 7.
- Carroll, John S., Yonkers, assignor, by mesne assignments, to The Macmillan Corporation, New York, N. Y. Insulation construction for containers. 1,629,255; May 17.
- Carroll, Joseph, Brooklyn, N. Y. Cleaning machine. 1,645,317; Oct. 11.
- Carroll, Joseph F., Denver, Colo. Template. 1,633,450; Dec. 20.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-acetate composition of low inflammability. 1,631,468; June 7.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose acetate composition. 1,641,412; Sept. 6.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-acetate composition of low inflammability. 1,641,413; Sept. 6.
- Carroll, Washington, D. C. Amusement device. 1,615,568; Jan. 25.
- Carroll, William J. (See Smith, Charles J., assignor.)
- Carrom Company, The. (See Reizer, John W., assignor.)
- Carruth, Henry P., and W. C. Ludwig, Chillicothe, assignors to The Mead Pulp & Paper Company, Dayton, Ohio. Apparatus and method for packaging paper. 1,635,563; Aug. 9.
- Carruth, Nat., assignor to Hillsdale Cotton Mills, Lagrange, Ga. Laundry basket. 1,642,643; Sept. 13.
- Carr, Edward F., Chicago, Ill. Draft gear. 1,637,071; July 26.
- Carr, Joseph C. (See Carr, Matthew, assignor.)
- Carson, Charles B., assignor to Taylor Instrument Companies, Rochester, N. Y. Indicating instrument. 1,630,291; May 31.
- Carson, Clark, Los Angeles, Calif., assignor to M. H. Lane, Washington, D. C. Liquid-level indicator. 1,641,116; Aug. 30.

- Carson, Ernest R., Denver, Colo. Pneumatic-tire pump. 1,630,923; May 31.
- Carson, Frederick T., Washington, D. C. Apparatus for testing hygroscopic substances. 1,642,577; Sept. 13.
- Carson, George F. (See Meier, Axel W., assignor.)
- Carson, George F., Memphis, Tenn. Automatic safety gate for railroad crossings. 1,620,793; Mar. 15.
- Carson, J. A. (See Prowense, Joseph S., assignor.)
- Carson, John H. (See Bell, G. A., and Carson.)
- Carson, Joseph P., assignor to American Motor Equipment Corporation, Richmond, Va. Automobile headlight. 1,633,493; Dec. 20.
- Carson, Roy K., assignor to W. J. Carson, Detroit, Mich. Printing press. 1,641,622; Sept. 6.
- Carson, William E., Riverton, Va. Producing hydrated lime. 1,613,341; Jan. 4.
- Carson, William J. (See Carson, Roy K., assignor.)
- Carson, William W., Jr., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn. Temperature regulator. 1,639,286; Aug. 16.
- Carson, William W., Jr., assignor to The Fulton Syphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,644,325; Oct. 4.
- Carstarphen, William P., Denver, Colo. Headlight. 1,614,650; Jan. 18.
- Carstensen, Theodore. (See Bang, Henry, assignor.)
- Cartell, Joseph, Hartford, Conn. Traffic signal. 1,633,389; Dec. 20.
- Carter, Allick L., Kenmore, N. Y., assignor, by mesne assignments, to The Grolan Manufacturing Company, Dayton, Ohio. Liquid gauge. 1,629,992; May 24.
- Carter, Allick L., Kenmore, N. Y., assignor, by mesne assignments, to The Grolan Manufacturing Company, Dayton, Ohio. Diaphragm pressure gauge. 1,647,342; Nov. 1.
- Carter, Allick L., Kenmore, N. Y., assignor, by mesne assignments, to The Grolan Manufacturing Company, Dayton, Ohio. Liquid level gauge. 1,652,761; Dec. 13.
- Carter, Alva J., assignor to Carter Radio Company, Chicago, Ill. Jack. 1,620,755; Mar. 15.
- Carter, Alva J., assignor to Carter Radio Company, Chicago, Ill. Rheostat. 1,624,038; Apr. 12.
- Carter, Alva J., assignor to Carter Radio Company, Chicago, Ill. Terminal connector. 1,635,256; July 12.
- Carter, Alva J., assignor to Carter Radio Company, Chicago, Ill. Rheostat. 1,650,008; Nov. 22.
- Carter Bait Company. (See Carter, Thomas J., assignor.)
- Carter, Benjamin C., London, England. Centrifugal separator. 1,619,652; Mar. 1.
- Carter, Carnie B., deceased. M. G. Carter, executrix, Pittsburgh, Pa., assignor to S. Karpen & Bros., Chicago, Ill. Process and apparatus for producing hexamethylenetetramine and ammonium chloride. 1,630,782; May 31.
- Carter, Carnie B., Pittsburgh, Pa., assignor to S. Karpen & Bros., Chicago, Ill. Manufacture of hexamethylenetetramine. 1,655,707; July 12.
- Carter, Carnie B., Pittsburgh, Pa., assignor to S. Karpen & Bros., Chicago, Ill. Production of phenol-methylene resins and alcohol from methylals. 1,645,226; Oct. 11.
- Carter, Charles E., Pasadena, Calif. Medicine. 1,631,244; June 7.
- Carter, Charles J., Kansas City, Mo. Flooring. 1,637,634; Aug. 2.
- Carter, Clarence W., assignor to Carter-Mayhew Manufacturing Company, Minneapolis, Minn. Scalper. 1,620,439; Mar. 8.
- Carter, Clarence W., assignor to Carter-Mayhew Manufacturing Company, Minneapolis, Minn. Cooling device for drinking fountains. 1,642,228; Sept. 13.
- Carter, Clarence W., assignor to Carter-Mayhew Manufacturing Company, Minneapolis, Minn. Dockage tester. 1,644,872; Oct. 11.
- Carter, Emmett F., Schenectady, N. Y., assignor to General Electric Company. Control apparatus. 1,634,979; July 5.
- Carter, Emmett F., Schenectady, N. Y., assignor to General Electric Company. Remote-control carrier-current system. 1,635,779; July 12.
- Carter, Franklin W., Louisville, Ky. Railway-track signal. 1,653,494; Dec. 20.
- Carter, George W., Canonsburg, Pa. Chair brace. 1,619,402; Mar. 1.
- Carter, Glenn O., New Rochelle, N. Y., assignor to The Lin Air Products Company. Welded structure and making same. 1,620,324; Mar. 8.
- Carter, Herbert F., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for wrapping strand material around a core. 1,625,983; Apr. 26.
- Carter, Herbert F., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Serving machine. 1,632,884; June 21.
- Carter, Howard G., Detroit, Mich. Neck bag. 1,616,961; Feb. 8.
- Carter, Howard G., Detroit, Mich. Rectal irrigator. 1,616,962; Feb. 8.
- Carter, Hubert, Toronto, Ontario, Canada. Device for icing cakes. 1,627,630; May 10.
- Carter, James H., Oakland, Calif. Bean stringer. 1,621,968; Mar. 22.
- Carter, James I. (See Hester, Stephen J., assignor.)
- Carter, Jay C. (See Sparrow, Arthur E., assignor.)
- Carter, John J., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Making clamping rings for commutators. 1,622,179; Mar. 22.
- Carter, John J., Lansing, Mich., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Manufacture of commutators. 1,633,922; June 28.
- Carter, Louis, Marston, N. C. Harvester. 1,628,948; May 17.
- Carter-Mayhew Manufacturing Company. (See Carter, Clarence W., assignor.)
- Carter, Mitchell, Salt Lake City, Utah, assignor to Thermic Generating Company. Oil burner. 1,626,785; Dec. 3.
- Carter, Moscow B., Franklin, Tenn. Bite meter. 1,649,664; Nov. 15.
- Carter, Myrtice G., executrix. (See Carter, Carnie B., et al., et al. (See Allensworth, J. N., Keltner, and Collins, assignors.)
- Carter, Orin E. (See Carter, S. W. and O. E.)
- Carter, Oscar M., Houston, Tex. Well drill. 1,617,043; Feb. 8.
- Carter, Oscar M., Houston, Tex. Core barrel. 1,640,264; Aug. 23.
- Carter, Oscar M., Houston, Tex. Combination lifting and lowering tool for drills. 1,651,322; Nov. 29.
- Carter, Paul E., Bronxville, assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,654,491; Dec. 20.
- Carter, Philip S., New Brunswick, N. J., assignor to Radio Corporation of America. Radio transmission system. 1,623,996; Apr. 12.
- Carter Radio Company. (See Carter, Alva J., assignor.)
- Carter Radio Company. (See Smith, Waldorf A., assignor.)
- Carter, Ray L. (See De Wallace, Harry, assignor.)
- Carter, Ray L., Phoenix, N. Y. Template for guiding routing machines. 1,615,213; Jan. 25.
- Carter, Ray L., Phoenix, N. Y. Door-mortising machine. 1,621,061; Mar. 15.
- Carter, Ray L., Phoenix, N. Y. Router bit. 1,630,830; May 31.
- Carter, Ray L., Syracuse, N. Y. Adjustable support for guiding machines. 1,638,083; Aug. 9.
- Carter, Ray L., Phoenix, N. Y. Hinge-recess gauge. 1,644,666; Oct. 11.
- Carter, Ray L., Phoenix, N. Y. Dovetailing mechanism. 1,651,510; Dec. 6.
- Carter, Ray M., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making ester condensation products. 1,645,691; Apr. 12.
- Carter, Robert C., et al. (See Chapman, Charles E., assignor.)
- Carter, S. C., Co. (See Austin, George C., assignor.)
- Carter, Sanford W. and O. E., assignors of one-third to E. P. Peers and one-third to G. B. Winfrey, Los Angeles, Calif. Automaton advertising device. 1,633,313; Dec. 21.
- Carter, Th. Harden. (See Boston, John, assignor.)
- Carter, Thomas J., assignor to Carter Bait Company, Indianapolis, Ind. Artificial fish bait. 1,616,485; Feb. 8.
- Carter, Vetabelle P., San Francisco, Calif. Automobile signal casing. Des. 73,895; Nov. 22.
- Carter, Vetabelle P., San Francisco, Calif. Automobile signal casing. Des. 73,896; Nov. 22.
- Carter, Vetabelle P., San Francisco, Calif. Cleansing brush. 1,645,318; Oct. 11.
- Carter, William, Company, The. (See Drumheller, William P., assignor.)
- Carter, William, Company, The. (See Redmond, Harriet L., assignor.)
- Carter, William A., Milwaukee, Wis. Composition building siding. 1,641,623; Sept. 6.
- Carter, William L., Waterloo, Iowa. Direction signal. 1,613,931; Jan. 1.
- Carter, Winthrop L., assignor to Nashua Gummed & Coated Paper Company, Nashua, N. H. Coated paper exhibiting printed matter. 1,616,963; Feb. 8.
- Carthew, John W., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Test gauge. 1,626,199; May 3.
- Carter Limited. (See Downes, Andrew, assignor.)
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Clutch mechanism. 1,634,459; July 5.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,635,780; July 12.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,648,876; Nov. 8.
- Cartledge, Frank, Cincinnati, Ohio, assignor to Sullivan Machinery Company. Clutch mechanism. 1,643,110; Nov. 8.
- Cartonings, Machinery Corporation. (See Evans, H. L., and Hohl, assignors.)
- Cartwright, Forest S., Indianapolis, Ind. Automatic gear shift for automobiles. 1,629,654; May 24.
- Cartwright, Frank, Trenton, N. J., assignor to The Geo. W. Blabon Co., Philadelphia, Pa. Linoleum or similar hard-surfaced covering. Des. 71,824; Jan. 11.
- Cartwright, Frank, Trenton, N. J., assignor to The Geo. W. Blabon Co., Philadelphia, Pa. Linoleum or similar hard-surfaced covering. Des. 71,825; Jan. 11.

- Carty, Richard S. (See Robinson, C. B., and Carty.)
- Caritzdaffner, Roy E., Passaic, N. J., assignor to R. J. Major, Montreal, Quebec, Canada. Railway-dump-car chute lock. 1,642,578; Sept. 13.
- Caruso, Domenik, et al. (See Cobros, John M., assignor.)
- Caruso, Joseph, et al. (See Cobros, John M., assignor.)
- Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy electric railway. 1,614,874; Jan. 18.
- Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation. Toy electric railway. 1,626,267; Apr. 26.
- Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation. Toy electric railway. 1,647,172; Nov. 1.
- Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation. Toy electric railway. 1,647,173; Nov. 1.
- Caruso, Romeo O., assignor of one-third to D. Mastrolia and one-third to A. F. Ferrainolo, Reading Pa. Screw driver. 1,624,530; Apr. 12.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Receptacle closure. 1,626,917; May 3.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Receptacle closure. 1,626,918; May 3.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Bottle cap. 1,636,849; July 26.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Closure cap. 1,642,010; Sept. 13.
- Carvalho, Louis da C., New Orleans, La. Dumping vehicle. 1,633,364; June 21.
- Carver, C. R., Company. (See Fellows, Walter C., assignor.)
- Carver, George W., Tuskegee, Ala. Producing paints and stains. 1,632,365; June 14.
- Carver, Thomas A. B., London, England. Pattern-controlled shedding mechanism. 1,633,475; June 21.
- Carr, Wilfred A., Orlando, Fla. Window-sash operator and lock. 1,647,901; Nov. 1.
- Carveth, Hector R., Niagara Falls, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Reacting metals with gases. 1,638,471; Aug. 9.
- Cary, Frank W. (See Novotny, E. E., and Cary.)
- Cary, George W., assignor to Goodell Manufacturing Company, Greenfield, Mass. Drill chuck. 1,620,440; Mar. 8.
- Cary Manufacturing Co. (See Cary, Spencer C., assignor.)
- Cary Manufacturing Co. (See Frech, William F., assignor.)
- Cary Manufacturing Co. (See McChesney, John S., assignor.)
- Cary Manufacturing Co. (See Razona, Vincent, assignor.)
- Cary Manufacturing Co. (See Weeks, Charles S., assignor.)
- Cary, Melbert B., assignor to Valslamp Manufacturing Corporation, New York, N. Y. Lamp device. Re16,722; Aug. 30.
- Cary, Melbert B., assignor to Valslamp Manufacturing Corporation, New York, N. Y. Lamp device. 1,614,102; Jan. 11.
- Cary, Spencer C., Brooklyn, assignor to Cary Manufacturing Company, New York, N. Y. Wire tie for bundles of various kinds. 1,624,531; Apr. 12.
- Cary, Spencer C., Brooklyn, assignor to Cary Manufacturing Co., Brooklyn, N. Y. Wire-working machine. 1,624,925; Apr. 19.
- Cary, Spencer C., Brooklyn, assignor to Cary Manufacturing Co., Brooklyn, N. Y. Shipping package. 1,631,616; June 7.
- Cary, Spencer C., deceased, Brooklyn; A. A. Hovell, executor, assignor to Cary Manufacturing Co., New York, N. Y. Implement for binding shipping packages. 1,652,814; Dec. 13.
- Cary, Spencer C., New York, assignor to Cary Manufacturing Co., New York, N. Y. Sealing shipping packages. 1,652,813; Dec. 13.
- Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Package-binding implement. 1,652,815; Dec. 13.
- Cary, William E., and W. J. Miller, Sulphur, La.; said Miller assignor to said Cary. Steam cooker. 1,617,235; Feb. 8.
- Casali, Joseph, Seattle, Wash. Folding stand. 1,647,723; Nov. 1.
- Cascade Manufacturing Company. (See Kehoe, Michael J., assignor.)
- Cascade Manufacturing Company. (See Kehoe, Thomas J., and M. J., assignors.)
- Cascio, Salvatore. (See Greenwald, S., and Cascio.)
- Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Car dumper. 1,627,375; May 3.
- Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Safety stop for traveling structures. 1,641,734; Sept. 6.
- Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Lifting car dumper. 1,642,357; Sept. 13.
- Case, Francis M., Cleveland Heights, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,637,437; Aug. 2.
- Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Click mechanism for fishing reels. 1,639,629; Aug. 16.
- Case, J. I., Threshing Machine Company. (See Dugan, Thomas, assignor.)
- Case, J. I., Threshing Machine Company. (See MacGregor, Wallace F., assignor.)
- Case, J. I., Threshing Machine Company. (See Smith, Henry S., assignor.)
- Case, Joseph Y., Orting, Wash. Brake lining. 1,615,105; Jan. 18.
- Case Research Laboratory Incorporated. (See Case, Theodore W., assignor.)
- Case, Theodore W., Auburn, N. Y. Electrical apparatus. 1,631,085; May 31.
- Case, Theodore W., Auburn, N. Y. Sound-producing apparatus. 1,647,504; Nov. 1.
- Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Electrical apparatus. 1,624,314; Apr. 12.
- Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Light-reactive apparatus. 1,625,409; Apr. 19.
- Case, Theodore W., Scipio, assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Photo-electric device. 1,628,822; May 17.
- Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Talking-moving-picture machine. 1,638,392; Aug. 9.
- Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Talking-picture machine. 1,638,393; Aug. 9.
- Case, Theodore W., assignor to Case Research Laboratory, Inc., Auburn, N. Y. Translating device. 1,638,472; Aug. 9.
- Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Electrical apparatus. 1,647,502; Nov. 1.
- Case, Theodore W., assignor to Case Research Laboratory Inc., Auburn, N. Y. Reproducing amplifier. 1,647,503; Nov. 1.
- Casement Hardware Co. (See Spencer, C. E., and Roberts, August, assignors.)
- Casey, Arthur, Cusick, Wash. Cream separator. 1,613,083; Jan. 4.
- Casey-Hedges Co., The. (See Stimmel, Frederick C., assignor.)
- Casey, James C., Cedar Falls, Iowa. Apparatus for treating the hair and scalp. 1,637,035; July 26.
- Casey, John W., assignor to Minnie E. Casey, Oklahoma City, Okla. Automatic weight opening valve. 1,633,023; June 28.
- Casey, Minnie E. (See Casey, John W., assignor.)
- Casey, Vasco F., Minneapolis, Minn. Air-floated barge. 1,621,625; Mar. 22.
- Casey, Vasco F., assignor to Minneapolis Dredging Co., Minneapolis, Minn. Dredging machine. 1,610,850; Mar. 8.
- Casey, Vere H., Richmond, Victoria, Australia. Resilient wheel. 1,613,084; Jan. 4.
- Casey, William B., et al. (See Joseph, Sheldon, assignor.)
- Casey, William P., Oshkosh, Wis. Electric handsaw. 1,651,995; Dec. 6.
- Cash, A. W., Company. (See Cory, R. C., and Terry, assignors.)
- Cash, A. W., Company. (See Terry, Charles M., assignor.)
- Cash, Alfred G., Rochester, N. Y. Surface test indicator. 1,645,473; Oct. 11.
- Cash, Frank P., Winston-Salem, N. C. Bevel and square. 1,636,623; July 19.
- Cashin, W. D., Co. (See Cashin, W. D., and Miller, assignors.)
- Cashin, William D., West Roxbury, and M. P. Miller, Waban, assignors to W. D. Cashin Co., Boston, Mass. Water and air relief valve. 1,644,109; Oct. 4.
- Cashin, William D., West Roxbury, and M. P. Miller, Waban, assignors to W. D. Cashin Co., Boston, Mass. Packless valve. 1,648,260; Nov. 8.
- Cashory, George, New York, N. Y. Toy vehicle. 1,617,665; Feb. 15.
- Caskey-Dupree Manufacturing Company. (See Nelson, John H., assignor.)
- Caskin, Langdon, Haverford, Pa. Cooking utensil. 1,651,442; Dec. 6.
- Casner, Andrew A., McCall, Idaho. Ski. 1,613,309; Jan. 4.
- Casner, Thaddeus S., Plainfield, N. J., assignor to Radio Electric Clock Corporation, New York, N. Y. Compound-pendulum clock. 1,638,917; Aug. 16.
- Casparis, William A., et al. (See Harding, Joseph G., assignor.)
- Casper, Anthony B. (See Shultz, A. B., and Casper.)
- Casper, George D., New York, assignor of one-half to W. W. Schelsky, Long Island City, N. Y. Drain trap. Re16,732; Oct. 4.
- Casper, George H., Maywood, and L. F. Dillon, Melrose Park, Ill., assignors to American Can Company, New York, N. Y. Can-soldering machine. 1,649,288; Nov. 15.
- Casper, William L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Repeating coil. 1,617,372; Feb. 15.

- Casper, William L., Brooklyn, N. Y., and F. E. Field, Somerville, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Magnetic coil. 1,628,398; May 10.
- Cass, Christopher P., Berkeley, Calif., and J. F. Craig, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake device. 1,619,239; Mar. 1.
- Cassel, Gunnar E., assignor to Aktiebolaget Casselvelox, Stockholm, Sweden. Ratchet feed mechanism. 1,615,534; Jan. 25.
- Cassel, Hjalmar S., Lund, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken. Front-wheel brake for automobiles and the like. 1,635,708; July 12.
- Cassel, John K., Ainsworth, Nebr. File jacket. 1,624,776; Apr. 12.
- Casselman, Elbridge J. (See Jackson, R. P., Kent, and Casselman).
- Casselman, Elbridge J., Pittsburgh, N. Griffith and C. E. Johnson, Jeannette, assignors to Window Glass Machine Company, Pittsburgh, Pa. Apparatus for flattening sheet glass. 1,641,918; Sept. 6.
- Cassels, Arnold V., assignor of three-eighths to J. M. Stewart, South Brisbane, Queensland, Australia. Glareless lamp. 1,622,764; Mar. 25.
- Cassidy, Charles V., assignor to The N. Slater Company, Limited, Hamilton, Ontario, Canada. Coupling. 1,617,044; Feb. 8.
- Cassels, Charles W., assignor to The N. Slater Company, Limited, Hamilton, Ontario, Canada. Cross-arm. 1,620,949; Mar. 15.
- Cassidy, George W., New York, N. Y. Attachment for slide arm lamps. Des. 73,867; Aug. 30.
- Cassidy, Willis W., assignor to Sweet Candy Company, Salt Lake City, Utah. Candy jumping jack. 1,623,165; Apr. 5.
- Cassiere, Alphonse T., Long Beach, Calif. Mixing nozzle. 1,648,216; Nov. 8.
- Cassiri, Henry H., Coalinga, Calif. Drill bit. 1,613,932; Jan. 11.
- Castagnaro, Dominick. (See Chapin, P. P., and Kupec, assignors).
- Castan, Karl, Pforzheim, Germany. Manifold device. 1,646,576; Oct. 25.
- Castanien, Alfred, Columbus, Ohio. Combined table and tub. 1,651,443; Dec. 6.
- Castelli, Vittorio. (See Soncini, C., and Castelli.)
- Castille, Michel R., Opelousas, La. Display apparatus. 1,614,714; Jan. 18.
- Castillo, Miguel, Mexico City, Mexico, assignor of one-half to S. W. Fisher, Chicago, Ill. Portable grinder. 1,633,885; June 28.
- Castle, Timothy P., assignor to Comstock-Castle Stove Company, Quincy, Ill. Heater. Des. 72,144; Mar. 8.
- Castleman, J. W., et al. (See Kliever, Edward A., assignor.)
- Castle, Thomas R., Portland, Oreg. Burglar alarm. 1,636,170; Jan. 14.
- Castleton, Eldred O., assignor of twenty-five per cent to H. Friedman and C. Hochmuth, Vancouver, British Columbia, Canada. Advertisement-mounting device. 1,613,933; Jan. 11.
- Castleton, W. E. (See Dawn, Richard W., assignor.)
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of weftless cord fabric. 1,619,191; Mar. 1.
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Delivering moving webs. 1,619,192; Mar. 1.
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Cord-guiding device. 1,624,533; Apr. 12.
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Cord-guiding device. 1,624,533; Apr. 12.
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Weighing moving material. 1,646,950; Oct. 25.
- Castricum, Martin, Springfield, and E. C. Taylor, Longmeadow, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of weftless cord fabric. 1,651,806; Dec. 6.
- Caswell, Dominick, Watertown, N. Y. Oil burner. 1,639,426; Aug. 16.
- Caswell, Fred C., assignor of one-half to L. F. Fagerstrom, Minneapolis, Minn. Combination lamp and loud speaker. 1,623,935; Apr. 5.
- Caswell, Robert G. (See Barrard, A. E., and Caswell.)
- Caswell, Robert G., and E. G. Marshall, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making berzanthrone. 1,626,392; Apr. 26.
- Catalytic Chemical Company. (See Ackerman, Albert H., assignor.)
- Cater, William H., Chicago, Ill. Frame structure. 1,626,393; Apr. 26.
- Caterpillar Tractor Co. (See Best, Clarence L., assignor.)
- Cates, Clarence E., et al. (See Watson, James B., assignor.)
- Cates, James W., Coffeyville, Kans. Cake-icing machine. 1,618,053; Feb. 15.
- Cathrill, Jack, West Hollywood, Calif. Headlight lens. 1,620,872; Mar. 15.
- Cathrine, Mary, Galesburg, Ill. Invalid support. 1,628,949; May 17.
- Catlett, Harry, assignor of one-half to A. N. Sacre, Los Angeles, Calif. Roller arm rest. 1,628,030; May 10.
- Catlin, De Forest B., Boston, Mass. Diathermic apparatus for treatment of internal organs adjacent to the rectum. 1,614,876; Jan. 18.
- Catlin, De Forest B., Boston, Mass. Testes-treating apparatus. 1,640,478; Aug. 30.
- Catlin, Hoyt, Fairfield, and G. B. Thomas, assignors to The Bryant Electric Company, Bridgeport, Conn. Connector. 1,630,166; May 24.
- Catlin, Joseph J., Bridgeport, Conn., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Casting curved and flat stereotype plates. 1,623,997; Apr. 12.
- Catlin, Joseph P., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Bearing. 1,652,468; Dec. 13.
- Catlin, Windell, Rockville, assignor of one-half to C. A. Weaver, Hillsboro, Ind. Animal trap. 1,630,607; May 31.
- Catoldo, Giovanni R., Boston, Mass. Vegetable and fruit crusher. 1,638,618; Aug. 9.
- Caton, Charles H., Leeds, England. Change-speed gearing for motor vehicles. 1,618,054; Feb. 15.
- Caton, Charles H., Leeds, England. Change-speed driving for motor vehicles. 1,654,069; Dec. 27.
- Catron, Burl J., assignor of one-half to A. D. Haines, Santa Barbara, Calif. Automobile tool. 1,647,343; Nov. 1.
- Catron, Frederick O., assignor of one-half to P. Catron, Memphis, Tenn. Liquid filter. 1,636,285; July 19.
- Catron, Nettie P. (See Catron, Frederick O., assignor.)
- Catron, John J., assignor to Catron Manufacturing Company, Bonham, Tex. Fluid dispenser. 1,613,934; Jan. 11.
- Catron, John J., assignor to Catron Manufacturing Company, Bonham, Tex. Level indicating and controlling means for liquid dispensers. 1,613,935; Jan. 11.
- Catron, John J., assignor to Catron Manufacturing Company, Bonham, Tex. Liquid measuring and dispensing means. 1,613,936; Jan. 11.
- Catron Manufacturing company. (See Catron, John J., assignor.)
- Cattaneo, Giustino, Milan, Italy. Steering mechanism. 1,617,666; Feb. 15.
- Cattley, Ernest M., New York, N. Y. Indicator for leaking air, gases, and the like. 1,621,492; Mar. 22.
- Catucci, Philip, Newark, N. J. Click check for reels. 1,637,334; Aug. 2.
- Cauda, Ernesto, Quinto al Mara, Genoa, Italy. Cinematic apparatus. 1,637,409; Aug. 2.
- Caudie, Joseph J., Richmond, Va. Direction signal. 1,613,019; Jan. 4.
- Caulde, Thomas W., Dayton, Tenn. Dry-pipe valve. 1,624,315; Apr. 12.
- Caucherty, William B., Natrona, Pa., assignor, by mesne assignments, to Allegheny Steel Company, Brackenridge, Pa. Manufacture of steel sheets. 1,625,524; Apr. 19.
- Caughey, Edward G., Sewickley, assignor to Edgewater Steel Company, Pittsburgh, Pa. Rendering iron and steel non-oxidizable and articles produced thereby. 1,617,616; Feb. 15.
- Caulk, L. D., Company, The. (See Poetachke, Paul, assignor.)
- Caulkins, Cecil P., New London, Conn. Thimble. 1,620,996; Mar. 15.
- Cauce, Albert E. (See Pickard, R. H., Lloyd, and Cauce.)
- Causey, Joseph W., Electric Mills, Miss. Band saw and wheel therefor. 1,630,468; May 31.
- Causey, Joseph W., Electric Mills, Miss. Saw guide. 1,642,838; Sept. 20.
- Caut, Raymond, Cligny, France. Power transmission by hydraulic means. 1,630,168; May 24.
- Cautley, John R., South Bend, Ind., assignor to Bendix Aviation Company, Chicago, Ill. Operating mechanism. 1,619,810; Mar. 8.
- Cautley, John R., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,628,388; May 10.
- Cautley, John R., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,639,838; Aug. 23.
- Cavagna, Lewis F., Waterbury, Conn. Metal railroad tie. 1,654,280; Dec. 27.
- Cavallaro, Abramo, Detroit, Mich. Desk set. Des. 74,096; Dec. 20.
- Cavallaro, Abramo, Detroit, Mich. Lamp. Des. 74,097; Dec. 20.
- Cavalli, Gito L., Benicia, Calif. Pasteurizer. 1,623,909; Apr. 5.
- Cavanagh, John F., assignor to Apco Manufacturing Company, Providence, R. I. Steering-gear stabilizer. 1,636,588; July 19.
- Cavanagh, John F., assignor to Apco Manufacturing Company, Providence, R. I. Steering stabilizer for automobiles. 1,653,944; Dec. 27.
- Cavanaugh, Florence S., New York, N. Y. Bottle. Des. 73,688; Aug. 30.
- Cavanaugh, William M., New York, N. Y. Belting. 1,631,580; June 7.
- Cave, Henry, assignor to The Fuller Brush Company, Hartford, Conn. Brush. 1,635,970; July 12.
- Cave, Henry, assignor to The Fuller Brush Company, Hartford, Conn. Broom. 1,635,971; July 12.

- Cave, Henry, Hartford, Conn., assignor, by mesne assignments, to General Railway Signal Company. Dishwashing machine. 1,646,052; Oct. 18.
- Cavenagh, Frank, Seneca Falls, N. Y. Revolving disk valve. 1,633,112; June 21.
- Cavett, John J., Woodawn, Pa. assignor to The Koppers Company. Sealed valve. Re16,604; Apr. 26.
- Caviechi, Roland, Quincy, Mass. Surfacing machine. 1,650,690; Nov. 29.
- Cavin, Walter H. (See Van Sickle, D. L. and Cavin.)
- Cavins, Bessie, et al. (See Collins, Alf C., assignor.)
- Caven, Cora, Ardmore, Okla. Incubator. 1,644,634; Oct. 4.
- Cawood, Richard L., East Liverpool, Ohio. Pulverizer. 1,643,874; Sept. 27.
- Cawood, Richard L., assignor to The Patterson Foundry & Machine Company, East Liverpool, Ohio. Discharge valve. 1,652,929; Dec. 13.
- Cawthon, Bender A., Jacksonville, Fla. Stereopticon for motion-picture projectors. 1,643,541; Sept. 27.
- Cawthon, Samuel C., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric cable. 1,648,443; Nov. 8.
- Cawthron, George, Redwood City, Calif. Combined lock and latch. 1,628,354; May 10.
- Cazares, Jose L., Los Angeles, Calif. Sensitizing print papers. 1,625,349; Apr. 19.
- Cazes, John O., Arabi, La. Acrobatic toy. 1,614,454; Jan. 18.
- Cease, Nicholas W., Schenectady, N. Y. Dishwashing machine. 1,645,227; Oct. 11.
- Ceasor Mills, Ch. Ferman & Sons, Inc. (See Lader, Jack, assignor.)
- Cecil, William, New York, N. Y. Sandwich-display fixture. 1,630,469; May 31.
- Cedar Creek Oil & Gas Co. (See McDonald, Harry W., assignor.)
- Cederlund, Albert, and R. G. Turner, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in loom transferer. 1,647,724; Nov. 1.
- Cederquist, Nills H., Alhambra, Calif. Tile structure. 1,649,890; Nov. 22.
- Celanese Corporation of America. (See Chatham, Robert, assignor.)
- Celanese Corporation of America. (See Dickie, W. A., and Rooney, assignors.)
- Celanese Corporation of America. (See Dreyfus, Camille, assignor.)
- Celanese Corporation of America. (See Ellis, George H., assignor.)
- Celanese Corporation of America. (See Small, F. T., and Dickie, assignors.)
- Celentano, Frank. (See Davis, W. H. H., and Celentano.)
- Celite Company, The. (See Derleth, Charles P., assignor.)
- Celite Company, The. (See Endres, H. A., and Caldwell, assignors.)
- Celite Company, The. (See Thatcher, Harry S., assignor.)
- Celite Company, The. (See Wig, Rudolph J., assignor.)
- Cellino, Attilio, Buenos Aires, Argentina, assignor to Central Battery Corporation. Preparing positive electrodes of storage batteries. 1,640,922; Aug. 30.
- Cellocelik Company. (See Furness, William H., assignor.)
- Celluloid Company, The. (See Lindsay, William G., assignor.)
- Cement-Gun Company. (See Dewey, Clarence L., assignor.)
- Cement Gun Contracting Company. (See Cron, John M., assignor.)
- Cement Gun Contracting Company. (See Leriche, Willis, assignor.)
- Cement, Samuel M., Webster Groves, Mo., assignor to Budd Wheel Company, Detroit, Mich. Wire and disk wheel splitting tool. 1,650,325; Nov. 22.
- Centeno V., Melchor, Caracas, Venezuela. Photoelectric cell. 1,637,293; July 26.
- Centenore, John L., Laramie, Wyo. Movable feature figure toy. 1,632,272; June 14.
- Centra Handels- & Industrie A.-G. (See Michel, Hermann, assignor.)
- Central Advertising Specialty Company. (See Sunderlin, Frank R., assignor.)
- Central Alloy Steel Corporation. (See Auer, E. W., and Factorius, assignors.)
- Central Alloy Steel Corporation. (See Farnsworth, Walter M., assignor.)
- Central Alloy Steel Corporation. (See Orr, William S., assignor.)
- Central Alloy Steel Corporation. (See Schlafly, Julius H., assignor.)
- Central Alloy Steel Corporation. (See Smith, Earle C., assignor.)
- Central Battery Corporation. (See Cellino, Attilio, assignor.)
- Central Brass Manufacturing Company, The. (See Eckhouse, Edgar, assignor.)
- Central Brass Manufacturing Company, The. (See Mortimer, John N., assignor.)
- Central Commercial Company. (See Stone, Frederick W., assignor.)
- Central Door and Lumber Company. (See De Penning, John C., assignor.)
- Central Electric Tool Company. (See Weyandt, Carl S., assignor.)
- Central Foundry Company. (See Brechtbill, Guy H., assignor.)
- Central Iron & Steel Company. (See Irons, Robert H., assignor.)
- Central Machine Company. (See Thomas, William A., assignor.)
- Central Scientific Company. (See Klopsteg, Paul E., assignor.)
- Central Scientific Company. (See Klopsteg, P. E., and Sachse, assignors.)
- Central Scientific Company. (See Klopsteg, P. E., and Stannard, assignors.)
- Central Scientific Company. (See Sachse, Herman P., assignor.)
- Central Trust Company of Illinois et al. (See Speer, Alexander S., assignor.)
- Central Trust Company of Illinois et al., trustees. (See Speer, Alexander S., assignor.)
- Central Tube Company. (See Laughlin, Alexander, Jr., assignor.)
- Central Tube Company. (See McMillen, Albert K., assignor.)
- Centre Lighting Fixture Mfg. Co., The. (See Novin, Joseph, assignor.)
- Centrix Corporation. (See Hawley, Charles G., assignor.)
- Centrifug Corporation. (See Schutz, Joseph M., assignor.)
- Centrifugal Castings Limited. (See Hurst, J. E., and Ball, assignors.)
- Cerbo, Fernando, Providence, R. I. Urethroscope. 1,624,716; Apr. 12.
- Cereghino, Joseph A., assignor to National Labeling Machine Company, Los Angeles, Calif. Method of and apparatus for pasting labels on noncircular cans and containers. 1,653,495; Dec. 20.
- Cerny, Frank, Berwyn, Ill. Steel railing. 1,633,659; June 28.
- Certain-Test Products Corporation. (See Miller, John E., assignor.)
- Cervell, Blanche, San Francisco, Calif. Corset. 1,623,031; Mar. 29.
- Cervi, Armando, assignor to The Radium Emanation Corporation, New York, N. Y. Apparatus for absorbing radium emanations. 1,614,825; Jan. 18.
- Cervi, Armando, assignor to The Radium Emanation Corporation, New York, N. Y. Process of and apparatus for dissolving radium emanation in fluids. 1,635,113; July 5.
- Cesa, Joseph M., Antioch, Calif. Air-heating system for fireplaces. 1,645,586 Oct. 18.
- Cesario, Frank, Port Chester, N. Y. Tile construction. 1,626,021; Apr. 26.
- Cesatol, Edward D. (See French, J. W., and Chabasol.)
- Chace, W. M., Valve Company. (See Chace, William M., assignor.)
- Chace, William M., Detroit, Mich. Thermometer. 1,637,805; Aug. 2.
- Chace, William M., Detroit, Mich. assignor to W. M. Chace Valve Company. Bimetallic element. 1,642,485; Sept. 13.
- Chadeloid Chemical Company. (See Boehmer, Norris, assignor.)
- Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)
- Chadeloid Chemical Company. (See Euell, Otto E., assignor.)
- Chadeloid Chemical Company. (See Swift, Owen P., assignor.)
- Chadwick, Charles, Brooklyn, N. Y. Tone-sustaining mechanism. 1,623,232; Apr. 5.
- Chadwick, Charles T., Somis, and J. W. Boone, Van Nuys, Calif. Lock. 1,622,490; Mar. 29.
- Chadwick, Eric H., Jenkintown, assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum or similar hard-surfaced floor covering. Des. 71,902; Jan. 25.
- Chadwick, Eric H., Jenkintown, assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum or similar hard-surfaced floor covering. Des. 71,903; Jan. 25.
- Chadwick, Eric H., Jenkintown, assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum or similar hard-surfaced floor covering. Des. 71,904; Jan. 25.
- Chadwick, Eric H., Jenkintown, assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum or similar hard-surfaced floor covering. Des. 71,905; Jan. 25.
- Chadwick, Farrow W., San Francisco, Calif. Vehicle direction indicator. 1,630,608; May 31.
- Chadwick, Francis C., assignor to Beaver Machine and Tool Company, Newark, N. J. Socket terminal. 1,634,173; June 28.
- Chadwick, Jessie D., Toronto, Ontario, Canada. Mop. 1,643,637; Sept. 27.
- Chadwick, Lee S., Shaker Heights Village, assignor to Perfection Stove Company, Cleveland, Ohio. Oil burner. 1,613,020; Jan. 4.
- Chadwick, Lee S., Shaker Heights Village, assignor to Perfection Stove Company, Cleveland, Ohio. Sheet-metal cabinet construction. 1,613,817; Jan. 11.
- Chadwick, Lee S., Shaker Heights Village, M. Resak and J. A. Dahlstrom, East Cleveland, assignors to Perfection Stove Company, Cleveland, Ohio. Thermostatic control for oil burners. 1,629,569; May 24.
- Chadwick, Thomas H., Pittsburgh, Pa. Glass-cutting machine. 1,642,839; Sept. 20.
- Chafa, Parley A., and O. R. Gruder, Bridgewater, Iowa. Shifting tractor hitch. 1,643,542; Sept. 27.
- Chafetz, Benjamin, New York, N. Y. Medallion or similar article. Des. 71,826; Jan. 11.

- Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Sash holder or latch. 1,614,917; Jan. 18.
- Chaffee, Emory L. (See Hammond, J. H., jr., and Chaffee.)
- Chaffee, Emory L., Belmont, Mass. Modulating signaling currents. 1,625,296; Apr. 19.
- Chaffee, Emory L., Belmont, assignor to J. H. Hammond, Jr., Gloucester, Mass. Detector and controlling the same. 1,627,231; May 3.
- Chaffee, Emory L., Belmont, assignor to J. H. Hammond, Jr., Gloucester, Mass. System of radiocommunication. 1,642,063; Sept. 13.
- Chaffee, Emory L., Belmont, assignor to J. H. Hammond, Jr., Gloucester, Mass. Vacuum tube. 1,649,810; Nov. 22.
- Chadlin, Howard A., and F. C. Holmes, assignors to Enoz Chemical Company, Chicago, Ill. Sprayer. 1,632,218; June 14.
- Chain Belt Company. (See Shafer, Samuel, Jr., assignor.)
- Chain Belt Company. (See Viall, George K., assignor.)
- Chain Belt Company. (See Welsler, George B., Jr., assignor.)
- Chain Saw Corporation. (See Bens, Samuel J., assignor.)
- Chalfant, Frank, Fort Wayne, Ind. Post for couches. 1,616,740; Feb. 8.
- Chalfonte, Albert L., Trenton, N. J., assignor to Mergenthaler Linotype Company. Slug-casting machine. 1,649,811; Nov. 22.
- Chalker, Albert B. (See Lower, N. M., and Chalker.)
- Challenge Company. (See Lund, John A., assignor.)
- Challenge Machinery Company, The. (See Barney, Freeman, assignor.)
- Challenge Machinery Company. (See Lee, James W., assignor.)
- Chall, Philip, Victoria, London, England. Spark plug. 1,619,653; Mar. 1.
- Chalmers, Albert H., Fairfield, Ala. Coke-quenching car. 1,645,587; Oct. 18.
- Chalmers, Charles H., Minneapolis, Minn. Pressure-controlled fluid-feeding apparatus. 1,630,609; May 31.
- Chalmers, Charles H., Minneapolis, Minn. Liquid-fuel heating apparatus. 1,636,169; July 19.
- Chalmers, Harry B., New York, N. Y. Box. 1,618,325; Feb. 22.
- Chalmers, John G. (See Bruhn, John H., assignor.)
- Chamberlain, Arthur E. C., assignor to W. J. Denker, London, England. Detachable heelpiece for footwear. 1,647,856; Nov. 1.
- Chamberlain, Floyd L., Waterloo, Iowa. Wringer-frame construction. 1,638,241; Aug. 3.
- Chamberlain, Floyd L., Waterloo, Iowa. Supporting device for wringers. 1,638,242; Aug. 9.
- Chamberlain-Haber Chemical Company, The. (See Haber, Henry J., assignor.)
- Chamberlain, John J., assignor to The United States Stoneware Company, Akron, Ohio. Molding press. 1,613,500; Jan. 4.
- Chamberlain, Leroy, Wichita Falls, Tex. Weight elevator for pulling machines. 1,626,114; Apr. 26.
- Chamberlain, Paul A., assignor to Mohawk Corporation of Illinois, Chicago, Ill. Radio apparatus and current-control device therefor. 1,627,592; May 10.
- Chamberlain, Paul A., assignor to Mohawk Electric Corporation, Chicago, Ill. Radio condenser. 1,635,459; July 12.
- Chamberlain, Paul A., assignor to Mohawk Corporation of Illinois, Chicago, Ill. Radiotube socket. 1,641,530; Sept. 6.
- Chamberlain, W. Allen, et al. (See Bristow, Bruce A., assignor.)
- Chamberlain, Wilbur L., Meriden, Conn. Incubator. 1,613,342; Jan. 4.
- Chamberlain, Benjamin D., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film spool. 1,645,589; Nov. 8.
- Chamberlain, Benjamin D., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing machine. 1,651,752; Dec. 6.
- Chambers Brothers Company. (See Kling, Howard K., assignor.)
- Chambers, Charles I., Seattle, Wash. Pump. 1,635,148; July 5.
- Chambers, David F., assignor to The Bearings Company of America, Lancaster, Pa. Ball retainer for ball bearings. 1,627,232; May 3.
- Chambers, Gurrh E., London, Ontario, Canada, assignor to Canada Biscuit Company, Limited. Biscuit. Des. 73,067; July 19.
- Chambers, James, Pavo, Ga. Tongs. 1,631,916; June 7.
- Chambers, John E., Shelbyville, Ind. Cooking oven. 1,625,846; Apr. 26.
- Chambers, Laurence E., Eau Claire, Wis. Refrigerator case for window display. 1,643,372; Sept. 27.
- Chambers, Perry O., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 71,906; Jan. 25.
- Chambers, Ralph W. (See Greenway, M. E., and Chambers.)
- Chambers, William L., Ogden, Utah. Shock absorber. 1,613,373; Dec. 6.
- Chambliss, Ersly F., Chicago, Ill. Hat cover. 1,632,786; June 21.
- Champeau, Lawrence X., New York, N. Y., assignor, by mesne assignments, to Kirby Incorporated. Device for artificial illumination. 1,618,055; Feb. 15.
- Champeau, Lawrence X., New York, N. Y., assignor, by mesne assignments, to Kirby Incorporated. Lighting apparatus. 1,652,347; Dec. 18.
- Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Spark plug. 1,619,963; Mar. 8.
- Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Terminal connector for spark plugs. 1,631,191; June 7.
- Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Terminal connector for spark plugs. 1,651,374; Dec. 6.
- Champion, Albert J., et al. (See Turver, William H., assignor.)
- Champion Auto Equipment Company. (See Larson, Jonas E., assignor.)
- Champion Coated Paper Company, The. (See Reedy, John H., assignor.)
- Champion Coated Paper Company, The. (See Reedy, J. H., and Cape, assignor.)
- Champion, John W., Corsicana, Tex. Go-around tongs for drilling machines. 1,635,031; July 5.
- Champion Manufacturing Company. (See Dunbaugh, George J., Jr., assignor.)
- Champion Pneumatic Machinery Co. (See Rayfield, Fred J., assignor.)
- Chandler, J. C., assignor to Montgomery, J. A., and Montgomery, assignors.)
- Chandler Porcelain Company. (See Riddle, Frank H., assignor.)
- Champion Spark Plug Company. (See Rohde, Otto C., assignor.)
- Chandler, Silk Mills. (See White, Henry, assignor.)
- Chandler, Franklin J., Dalton, Mass., assignor to General Electric Company. Systems of electric distribution. 1,626,451; Apr. 26.
- Chandler, Franklin J., Dalton, Mass., assignor to General Electric Company. System of electric distribution. 1,651,869; Dec. 6.
- Chandpury, Hubert H., Kenil, N. J., assignor to Hercules Powder Co., Wilmington, Del. Explosive. 1,650,186; Nov. 22.
- Chance Brothers and Co. (See Gell, P. V. W., Gould, Hampton, and Martin, assignors.)
- Chance, Charles E., Annapolis, Md. Boat form. 1,626,509; Apr. 26.
- Chance, Thomas M., Philadelphia, Pa. Method and apparatus for separating materials of different specific gravities. Re16,674; July 12.
- Chance, Thomas M., Philadelphia, Pa. Method and apparatus for agitating fluid-separating mediums. 1,614,876; Jan. 18.
- Chancey, William H., assignor of one-half to W. H. Roberson, Grand Saline, Tex. Flow attachment. 1,635,606; July 2.
- Chandler, R. (See Osborne, William L., assignor.)
- Chandler, Charles E., Philadelphia, Pa. Evaporating tank. 1,613,310; Jan. 4.
- Chandler Cleveland Motors Corporation. (See Walker, Hiram L., assignor.)
- Chandler, Daniel L., Boston, Mass. Puzzle. 1,637,602; Aug. 2.
- Chandler, Daniel L., Boston, Mass., assignor, by mesne assignments, to Vend Ads Corp. Fraud-preventing device. 1,619,654; Mar. 1.
- Chandler, Daniel L., Boston, Mass., assignor to Vend Ads Co., Inc., Worcester, Mass. Fraud-preventing device for vending machines. 1,619,655; Mar. 1.
- Chandler, Daniel L., Worcester, assignor, by mesne assignments, to W. H. Whitcomb, Newton, Mass. Coin-controlled and change-making turnstile apparatus. 1,625,242; Apr. 19.
- Chandler, Daniel L., Worcester, assignor, by mesne assignments, to William H. Whitcomb, Newton, Mass. Coin receptacle. 1,637,549; Aug. 2.
- Chandler, Dean, assignor to South Metropolitan Gas Company, London, England. Radiant gas log. 1,630,109; May 24.
- Chandler, Edward F., Brooklyn, N. Y. Fuel for automotors. 1,622,572; Mar. 29.
- Chandler, Edward F., Brooklyn, N. Y. Remote-control apparatus. 1,654,238; Dec. 27.
- Chandler, Edwin M. S., Taunton, Mass. Storing drying oils. 1,631,999; June 14.
- Chandler, Elbert E., Los Angeles, Calif. Cotton stapling. 1,643,193; Sept. 20.
- Chandler, Elbert E., Los Angeles, Calif. Measuring the strength of fibers. 1,643,333; Sept. 27.
- Chandler, Franklin F., and R. E. Young, assignors to Ross Gear & Tool Company, La Fayette, Ind. Steering-post control. 1,631,795; June 7.
- Chandler, George A., Sioux City, Iowa. Convertible passenger vehicle and casket coach. 1,627,833; May 10.
- Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,623,658; Apr. 5.
- Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Connecting device. 1,631,719; June 7.
- Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley guard. 1,652,425; Dec. 13.

- Chandler, Milton E. (See Mock, F. C., Gustafson, and Chandler.)
- Chandler, Milton E., assignor to Stromberg Motor Devices Co., Chicago, Ill. Fuel control. 1,623,166; Apr. 5.
- Chandler and Price Company, The. (See Frackelton, R. J., and Sixt, assignors.)
- Chandler & Price Company, The. (See McGeorge, Herbert, assignor.)
- Chandler & Price Company, The. (See Root, Charles F., assignor.)
- Chandler & Price Company, The. (See Tyler, Ralph S., assignor.)
- Chandler, Thomas H., Long Beach, and W. H. Stigall, Taft, Calif. Gas, oil, and sand separator. 1,649,570; Nov. 15.
- Chaney, Newcomb K. (See Heise, G. W., Thompson, and Chaney.)
- Channing, Alfred W., Inc. (See Alderice, Walter, assignor.)
- Chant, John, and E. P. Ryan, Felixstowe, England. Laundry collar-finishing machine. 1,617,896; Feb. 15.
- Chapin, Albert J., Oakland, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,622,419; Mar. 20.
- Chapin, Alfred V., San Antonio, Tex. Carburetor. 1,619,329; Mar. 1.
- Chapin, Alfred V., San Antonio, Tex. Auxiliary air and gas supply for explosive engines. 1,619,330; Mar. 1.
- Chapin, Charles E., deceased, Greenwich, Conn.; F. G. Chapin and R. C. Glazier, executors. Self-lubricating brush for electrical apparatus. 1,635,257; July 12.
- Chapin, Fenton G., East St. Louis, Ill. Door-locking mechanism. 1,619,596; Mar. 1.
- Chapin, Franklin G., et al., executors. (See Chapin, Charles E.)
- Chapin, Philip P., and W. J. Kupec, assignors of one-half to D. Castagnaro, New York, N. Y. Automatic egg boiler. 1,623,093; Apr. 5.
- Chapin-Skelton Corporation. (See Baker, Frank E., assignor.)
- Chapin-Skelton Corporation. (See Baker, F. E., and Taylor, assignors.)
- Chapin, Merle P., White Plains, assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraphy. 1,613,937; Jan. 11.
- Chapin, Merle P., White Plains, assignor to Western Electric Company, Incorporated, New York, N. Y. Stepping mechanism. 1,636,170; July 19.
- Chapin, Merle P., White Plains, assignor to Western Electric Company, Incorporated, New York, N. Y. Stepping mechanism. 1,653,888; Dec. 27.
- Chapin, Walter L., Syracuse, assignor to The Smith-Lee Company, Oneida, N. Y. Bottle cap. 1,637,470; Aug. 2.
- Chapman, Albert B., Wallington, and C. R. Cook, Boreham, England. Electric wire attachment. 1,645,474; Oct. 11.
- Chapman, Byron V., et al. (See Owen, John H., assignor.)
- Chapman, Charles E., assignor of one-half to J. Goodfellow, Fort Edward, N. Y. Apparatus for burning fuel oils. 1,629,774; May 24.
- Chapman, Charles E., Fort Edward, assignor, by mesne assignments, of one-half to R. C. Carter and G. S. Jamison, Glens Falls, N. Y. Welding-torch burner. 1,635,606; July 2.
- Chapman, Charles E., Fort Edward, assignor, by mesne assignments of one-half to R. C. Carter and G. S. Jamison, Glens Falls, N. Y. Closure for clean-out openings. 1,636,125; July 19.
- Chapman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electromagnetic time-element device. 1,638,322; Aug. 9.
- Chapman Electric Neutralizer Company of Portland, Maine. (See Chapman, William H., assignor.)
- Chapman, Frank C., Modesto, Calif. Brier. 1,645,738; Oct. 18.
- Chapman, Frank D., Berlin, Wis., assignor of one-half to Electric Household Utensils Corporation, Chicago, Ill. Ironing machine. Re1,647; June 7.
- Chapman, Frank D., Berlin, Wis. Continuous cooker. 1,646,577; Oct. 25.
- Chapman, Fred H., Pepperell, Mass., assignor to Acme Ball Bearing Spindle Company, Franklin, N. H. Self-lubricating ball-bearing spindle. 1,636,394; Aug. 9.
- Chapman, Fred H., Pepperell, Mass., assignor to Acme Ball Bearing Spindle Company, Franklin, N. H. Spindle and base. 1,642,486; Sept. 13.
- Chapman, George, Arlington, N. J. Coin lock. 1,653,150; Dec. 20.
- Chapman, George A. (See Andersen, F. C., Madison, and Chapman.)
- Chapman, John A., et al., trustees. (See Sommer, William H., assignor.)
- Chapman, John W., and J. J. Melley, Parsons, Kans. Bearing for locomotive trucks and the like. 1,636,499; July 19.
- Chapman, Joseph R., Rapid City, S. Dak. Composition for covering stains on plaster walls. 1,651,996; Dec. 6.
- Chapman, Lionel J. (See Tucker, C. J., and Chapman.)
- Chapman, Lyman B., assignor to Scovill Manufacturing Company, Waterbury, Conn. Double-pin stud fastener. 1,649,767; Nov. 15.
- Chapman, Nathan B., assignor to Illuminating Products Co., Chicago, Ill. Electric-light fixture. Des. 73,897; Nov. 22.
- Chapman, Nathan B., assignor to Illuminating Products Co., Chicago, Ill. Electric-light fixture. Des. 73,898; Nov. 22.
- Chapman-Steln Furnace Co., The. (See Culbertson, Albert L., assignor.)
- Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Electric welding. 1,640,437; Aug. 30.
- Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,645,091; Oct. 11.
- Chapman, William H., assignor to Chapman Electric Neutralizer Company of Portland, Maine, Portland, Me. Discharge bar for neutralizing static electricity. 1,653,599; Dec. 20.
- Chapman, William H., Montclair, N. J., assignor to General Motors Corporation. Antifriction bearing. 1,651,807; Dec. 6.
- Chapman, William H. (See Ayers, J. G., Chapman, and Berlowitz.)
- Chapman, William H. (See Griswold, F. C., and Chapman.)
- Chappel, Vernon P., Iron Mountain, Mich. Safety belt. 1,636,459; July 19.
- Chappell, Elbert M., assignor to Hartsville Manufacturing Company, Hartsville, S. C. Plow stock. 1,631,008; May 31.
- Chappell, Fred E. (See Axhelm, C. M., and Chappell.)
- Chappell, Marvin L., R. F., Davis, and M. M. More, El Segundo, assignor, by mesne assignments, to Contact Filtration Company, San Francisco, Calif. Clarifying and decolorizing agent and making the same. 1,642,871; Sept. 20.
- Chappin, Charles C., New York, N. Y. Gas burner. 1,620,071; Mar. 8.
- Charavay, Frederick, assignor of one-half to G. W. Hartzell, Piqua, Ohio. Propeller ventilating motor. 1,646,578; Oct. 25.
- Charles, Carl L., assignor to Boyden Steel Corporation, Baltimore, Md. Railway-car truck. 1,621,468; Mar. 22.
- Charles, Carl L., assignor, by mesne assignments, to H. M. Brune, C. E. Searell, and J. Fisher, trustees, Baltimore, Md. Railway-car truck. 1,632,117; June 14.
- Charles, George M., Washington, D. C. Detachable buckle. 1,648,755; Nov. 8.
- Charles, Henry L. (See Jacquemin, Eugene, assignor.)
- Charleston, Mac E., Vancouver, British Columbia, Canada. Photograph washer. 1,650,009; Nov. 22.
- Charlston, Magnus M., Galveston, Tex. Musical instrument. 1,650,112; Nov. 22.
- Charlton, Ernest E. (See Mackay, G. M. J., and Charlton.)
- Charlton, Ernest E., Schenectady, N. Y., assignor to General Electric Company. Electric-discharge device. 1,648,293; Nov. 8.
- Charlwood, Knowles S., Baldwin, Miss. Railway tie. 1,618,056; Feb. 15.
- Charpentier, Paul, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Societe Anonyme, Paris, France. Electrical control system. 1,624,158; Apr. 18.
- Charter, James A., Chicago, Ill. Internal-combustion engine. 1,649,509; Nov. 15.
- Charter, James A., Chicago, Ill. Metal wheel. 1,618,813; Feb. 22.
- Charter, James A., Chicago, Ill. Constant-compression internal-combustion engine. 1,627,727; May 10.
- Charter Oil Stove & Range Company. (See Dana, Leslie, assignor.)
- Charter, Thomas E., Cedar Rapids, Iowa. Hose-repair clamp. 1,619,287; Mar. 1.
- Chase, Charles J., Philadelphia, Pa. Sanitary milk bottle and cap. 1,620,997; Mar. 15.
- Chase, Clyde H. (See Nichols, Horace E., assignor.)
- Chase Companies. (See Kenny, Nicholas C., assignor.)
- Chase Companies. (See Recker, Adolph C., assignor.)
- Chase Companies, Inc. (See Baker, Thomas, assignor.)
- Chase Companies Inc., The. (See Wellington, Arthur W., assignor.)
- Chase, Earl G., Smethport, Pa. Mask for electric-light bulbs. 1,625,591; Apr. 19.
- Chase, Earl G., Smethport, Pa. Mask for electric-light bulbs. 1,642,646; Sept. 13.
- Chase, Earle M., assignor to Universal Candy and Chocolate Machinery Company, Inc., Springfield, Mass. Rotary pump. 1,626,510; Apr. 26.
- Chase, Elroy A., Northfield, Vt. Sludging wheel. 1,618,057; Feb. 15.
- Chase, Elroy A., Northfield, Vt. Buffing wheel. 1,622,942; Mar. 29.
- Chase, Elroy A., Northfield, Vt. Grinding wheel. 1,635,607; July 12.
- Chase, Elroy A., Northfield, Vt. Producing a polished surface on granite block. 1,637,138; July 26.
- Chase, Eugene P., Altoona, Pa. Heating apparatus for vehicles. 1,631,669; June 7.
- Chase, F. J., and Manufacturing Company, The. (See Chase, Sherwood M., assignor.)
- Chase, Hamilton C., assignor of one-half to T. Weber, Los Angeles, Calif. Vehicle brake. 1,631,470; June 7.
- Chase, Herbert, Forest Hills, N. Y. Toy building. 1,619,101; Mar. 1.
- Chase, Herbert, Forest Hills, N. Y. Case for tennis rackets. 1,620,072; Mar. 8.

- Chase, Herbert C., assignor to Atwood Machine Company, Stonington, Conn. Reel mill. 1,624,585; Apr. 12.
- Chase, March F. (See Skogmark, John, assignor.)
- Chase National Bank of the City of New York, The, trustee. (See Hawthorne, Charles W., assignor.)
- Chase National Bank of the City of New York, The, trustee. (See Leonard, Peter J., assignor.)
- Chase National Bank of The City of New York, The. (See Leonard, P. J., and Connor, assignors.)
- Chase, Philip H. (See Foster, William, assignor.)
- Chase, Philip H., Bala, and W. Foster, Philadelphia, Pa.; said Foster assignor to said Chase. Rack. 1,623,864; Apr. 5.
- Chase, Leon W., assignor to Chase Plow Company, Lincoln, Nebr. Ridge-splitter attachment. 1,620,441; Mar. 8.
- Chase, Leon W., and J. C. Brand, assignors to Chase Plow Company, Lincoln, Nebr. Jockey-arch disk adjustment. 1,616,886; Feb. 8.
- Chase, Leon W., Lincoln, Nebr., assignor to Chase Plow Company. Steering gear. 1,647,034; Oct. 25.
- Chase Plow Company. (See Chase, Leon W., assignor.)
- Chase Plow Company. (See Chase, Leon W., assignor.)
- Chase Plow Company. (See Chase, L. W., and Brand, assignors.)
- Chase, Reyburn T., assignor of one-half to F. B. Scott, Salt Lake City, Utah. Can opener. 1,617,148; Feb. 8.
- Chase, Sherwood M., assignor to The Chase Foundry and Manufacturing Company, Columbus, Ohio. Transfer car. 1,623,828; Apr. 5.
- Chase, Sherwood M., assignor to The Chase Foundry & Manufacturing Company, Columbus, Ohio. Coupling device. 1,627,855; May 10.
- Chase, Theron P., assignor to General Motors Research Corporation, Dayton, Ohio. Vehicle brake. 1,613,692; Jan. 11.
- Chase, Theron P., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Vehicle brake. 1,627,534; May 10.
- Chase, Walter M., Los Angeles, Calif. Golf practice device and game. 1,626,826; Apr. 26.
- Chase, Wilfred O., Redford, Mich., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum-fuel-feeding system. 1,647,174; Nov. 1.
- Chase, William G., Oak Park, Ill. Tire chain. 1,619,783; Mar. 1.
- Chase, William P., Livingston, N. J. Flower delivery and exhibition vehicle. 1,617,940; Feb. 15.
- Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lifting device for covers. 1,622,307; Mar. 29.
- Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Motor controller. 1,627,593; May 10.
- Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electric switch. 1,641,334; Aug. 30.
- Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Motor controller. 1,643,292; Sept. 27.
- Chastain, William E., Wichita, Kans. Seat-actuating means for sanitary closets. 1,632,819; June 21.
- Chatfield, Franklin, assignor to The Munsingwear Corporation, Minneapolis, Minn. Bloomers and making the same. 1,629,147; May 17.
- Chatham, Robert H., Manchester, England, assignor to Celanese Corporation of America. Treatment of fabrics, paper, and other materials. 1,640,596; Aug. 30.
- Chatillon, George E., assignor to John Chatillon & Sons, New York, N. Y. Dynamometer. 1,647,272; Nov. 1.
- Chatillon, John, & Sons. (See Chatillon, George E., assignor.)
- Chatillon, John, & Sons. (See Rockefeller, John W., Jr., assignor.)
- Chattanooga Bottle & Glass Manufacturing Company. (See Harrison, James F., assignor.)
- Chattanooga Implement & Mfg. Co. (See Lancaster, Harry V., assignor.)
- Chauncey, George S., South Orange, N. J. Induction-coil core. 1,629,148; May 17.
- Chaussier, Armstead, New Orleans, La. Windmill. 1,628,490; May 10.
- Chauveau, Louis L. E., Paris, France. Call selector. 1,628,653; May 17.
- Chavasse, Henri L. J., Izleux, assignor to La Société pour la Fabrication de la Soie Rhodiasa, Siege Social, Paris, France. Spinning process. 1,622,368; Mar. 29.
- Chávez, Felipe, Los Angeles, Calif. Car speed boat. 1,641,574; Sept. 6.
- Chavez, Helodoro, Toledo, Ohio. Sugar-beet harvesting machine. 1,629,993; May 24.
- Chaviara, John N. (See Gill, J. F., and Chaviara.)
- Chayney Dental Instrument Corporation. (See Chayes, Herman E. S., assignor.)
- Chayes, Herman E. S., assignor to Chayes Dental Instrument Corporation, New York, N. Y. Making dental attachments. 1,626,720; May 3.
- Chayes, Herman E. S., assignor, by mesne assignments, to Chayes Dental Instrument Corporation, New York, N. Y. Grinder. 1,634,708; July 5.
- Cheatham, Chester W., assignor of one-half to J. N. Nissen, Seattle, Wash. Automatic regulating gate. 1,645,943; Oct. 18.
- Cheatham Electric Switching Device Co. (See Robinson, Robert M., assignor.)
- Cheek, J. H. (See Little, Harry C., assignor.)
- Cheek, Tolbert E., assignor to Welte-Mignon Corporation, New York, N. Y. Record-controlled musical instrument. 1,613,441; Jan. 4.
- Cheek, Tolbert E., assignor to Welte-Mignon Corporation, New York, N. Y. Record-controlled musical instrument. 1,613,501; Jan. 4.
- Cheek, Tolbert E., assignor to Welte-Mignon Corporation, New York, N. Y. Cabinet player. 1,626,327; Apr. 26.
- Cheek, Tolbert E., assignor to Welte-Mignon Corporation, New York, N. Y. Operate piano-pedal mechanisms under control of a record. 1,626,328; Apr. 26.
- Cheeseman, Lewis, Fellsmeier, Fla. Insecticide duster. 1,641,735; Sept. 6.
- Cheetham, George A., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Volt-ampere-hour meter. 1,637,370; Aug. 2.
- Cheln, Elizabeth H., executrix. (See Arden, Thomas R.)
- Cheln, Julius. (See Arden, Thomas R., assignor.)
- Chellis, Lawrence T., Corvallis, Oreg. Sleeve-pressing form. 1,624,777; Apr. 12.
- Chen, Robert. (See Swanberg, Julius, assignor.)
- Chemical Machinery Corporation. (See Field, Crosby, assignor.)
- Chemical Works, formerly Sandoz. (See Karrer, Paul, assignor.)
- Chemical Works formerly Sandoz. (See Stoll, A., and Kusenaul, assignors.)
- Chemical Works. (See Tagliani, Giovanni, assignor.)
- Chemisch-Pharmazeutische Corporation. (See Liebrecht, Arthur, assignor.)
- Chemische Fabrik auf Actien (vorm. E. Schering). (See Feldt, A., Schoeller, and Borgwardt, assignors.)
- Chemische Fabrik auf Actien (vorm. E. Schering). (See Schoeller, W., and Gehcke, assignors.)
- Chemische Fabrik Dr. Kurt Albert G. m. b. H. (See Amann, A., and Fonrobert, assignors.)
- Chemische Werke vormals Auerergesellschaft m. b. H., Kommanditgesellschaft. (See Mayer, M., Finckh, and Korf, assignors.)
- Chemnitz, Erdmann. (See Lehmann, Carl, assignor.)
- Chemnosn Aktiengesellschaft. (See Sagl, Eugen, assignor.)
- Cheney, Charles C., Charlestown, Mass. Lawn sprinkler. 1,651,511; Dec. 6.
- Cheney, Charles W., Boston, Mass. Massage appliance. 1,624,133; Apr. 12.
- Cheney, Charles W., Birmingham, England. Fastening for attache cases, boxes, bags, and such like. 1,624,569; Apr. 12.
- Cheney, Frank P., Lowell, Mass. Container. 1,636,458; July 19.
- Cheney, George M., and J. D. Clarke, assignors to Litchfield Shuttle Company, Southbridge, Mass. Shuttle tip. 1,618,569; Feb. 22.
- Cheney, Josephine B., administratrix. (See Barnebey, O. L., and Cheney.)
- Cheney, Merritt B. (See Barnebey, O. L., and Cheney.)
- Cheney Talking Machine Company. (See Doerr, F. H., and Roeding, assignors.)
- Cheney, William H. (See McKenney, F. Y., and Cheney.)
- Chenoweth, Alexander C., deceased, New York, N. Y.; C. R. Chenoweth, administratrix. Method of and apparatus for laying protective coverings. 1,619,331; Mar. 1.
- Chenoweth, Alexander C., deceased, New York, N. Y.; C. R. Chenoweth, administratrix. Reclaiming lands and forming bulkheads. 1,638,656; Aug. 9.
- Chenoweth, Catharine R., administratrix. (See Chenoweth, Alexander C.)
- Chenoweth, Jesse, East Salt Lake City, Utah. Cross-chain hook opener and closer. 1,646,346; Oct. 18.
- Chenoweth, Lloyd, Coldwater, Mich. Ice creeper. 1,647,957; Nov. 1.
- Chenowith, William H., and G. C. Schimpf, Curtis Bay, assignors to H. D. Harvey, Baltimore, Md. Melting furnace. 1,632,366; June 14.
- Cheramy, (See Dunsmuir, Georges, assignor.)
- Cherrie, Emil, and F. S. Fritzl, Manitowish, Wis. Sharpener for grinder knives. 1,628,031; May 10.
- Cherney, Maurice, Far Rockaway, N. Y. Shoe shank. 1,651,184; Nov. 29.
- Chéron-Duval, André, Hollywood, Calif. Ornament for radiator caps. Des. 72,934; June 28.
- Cherry-Bassett Company. (See Rosenfeld, Louis, assignor.)
- Cherry, J. G., Company. (See Bagby, Ralph B., assignor.)
- Cherry, Lewis J., Houston, Tex. Combination tool. 1,628,116; May 10.
- Cherry, Luther L., Cromwell, Okla. Automatic valve. 1,648,756; Nov. 8.
- Cherry, Oscar, Wauwatosa, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Novel composition of material. 1,616,741; Feb. 8.
- Chesebrough, John L., et al. (See Midgley, Joseph, assignor.)
- Cheshire, Edward, St. Petersburg, Fla. Mitering machine. 1,612,960; Jan. 4.
- Cheshire, Edward, Berlin Township, Waukesha County, Wis. Speed variator. 1,616,027; Feb. 1.
- Cheshire, Edward, Berlin Township, Waukesha County, Wis. Composing-room saw. 1,618,170; Feb. 22.

- Chesler, Nathan, Brooklyn, N. Y. Switch plate. 1,651,252; Nov. 29.
- Chesney, Jacques W. D., assignor, by mesne assignments, to The Burdick Corporation, Milton, Wis. Therapeutic appliance. 1,616,823; Feb. 1.
- Chesnut, Roy W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Circuit for electric-discharge devices. 1,647,605; Nov. 1.
- Chesnut, William C., assignor to Hartmann Trunk Company, Racine, Wis. Trunk cushion and retainer. 1,632,996; June 21.
- Chesnut, William C., assignor to Hartmann Trunk Company, Racine, Wis. Cushion top for wardrobe trunks. 1,634,320; July 5.
- Chesnutt, John L., Merced, assignor to W. R. Darnell, Long Beach, Calif. Glide caster. 1,638,725; Aug. 9.
- Chessin, Alexander S., New York, N. Y. Gyroscopic stabilizer. 1,618,570; Feb. 22.
- Chessin, Alexander, New York, N. Y. Stereoscopic projection. 1,652,558; Dec. 13.
- Chesterman, Dana L., assignor to Chesterman-Leeland Co., Philadelphia, Pa. Truss pad and making the same. 1,651,183; Nov. 29.
- Chester, Howard E., Brooklyn Heights Village, Ohio. Looming. 1,633,924; June 28.
- Chester, Thomas, Detroit, Mich., and W. MacMichael, Wadsworth, Ohio. Self-flushing atomizing nozzle. 1,628,823; May 17.
- Chesterman-Leeland Co. (See Chesterman, Dana L., assignor.)
- Chesler, Harry C., Mount Olive, Ill. Sign-display case. Des. 72,203; Mar. 15.
- Chevrette, Augustin J., assignor to The Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for looms. 1,628,824; May 17.
- Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Combined weft detecting and transferring mechanism. 1,654,112; Dec. 27.
- Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Slide cradle for loom magazines. 1,654,113; Dec. 27.
- Chew, William L., Rockville Center, N. Y. Sadiron holder. 1,613,160; Jan. 4.
- Chew, James A., Sikeston, Mo. Window screen. 1,624,534; Apr. 12.
- Chiarelli, Antonio, New York, N. Y. Propelling, lifting, and steering device for airships. 1,620,618; Mar. 8.
- Chiarelli, Antonio, New York, N. Y. Propelling mechanism for air navigators. 1,638,726; Aug. 9.
- Chicago Automatic Conveyor Co. (See Shaw, Arthur L., assignor.)
- Chicago Bridge & Iron Company. (See Seels, Aubrey W., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Finney, H. P., and Jacobs, assignors.)
- Chicago-Cleveland Car Roofing Company. (See Gloss, D. D., and Wright, assignors.)
- Chicago-Cleveland Car Roofing Company. (See Hamilton, Karl M., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Jacobs, Francis A., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Munro, Roy C., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Williams, T. H., and Jacobs, assignors.)
- Chicago-Cleveland Car Roofing Company. (See Williams, T. H., and Wright, assignors.)
- Chicago-Cleveland Car Roofing Company. (See Wright, William, assignor.)
- Chicago Electric Manufacturing Co. (See Benson, Bernhart A., assignor.)
- Chicago Electric Manufacturing Co. (See Gough, James J., assignor.)
- Chicago Electric Manufacturing Company. (See Kerwin, Thomas J., assignor.)
- Chicago Electric Manufacturing Co. (See Leschman, William, assignor.)
- Chicago Electric Manufacturing Company. (See Preston, Edward S., assignor.)
- Chicago Fire Brick Company. (See Abbott, Lyle S., assignor.)
- Chicago Flexible Shaft Company. (See Browning, George, assignor.)
- Chicago Flexible Shaft Company. (See Kocourek, Henry, assignor.)
- Chicago Flexible Shaft Company. (See Wright, H. C., and Frosting, assignors.)
- Chicago Forging & Manufacturing Company. (See Berger, Ollie J., assignor.)
- Chicago Forging & Mfg. Co. (See Ratelke, Charles J., assignor.)
- Chicago Fuse Mfg. Co. (See Cook, Herbert R., assignor.)
- Chicago Fuse Mfg. Co. (See Kellner, Louis, assignor.)
- Chicago Fuse Manufacturing Company. (See Wilhelm, Julian A., assignor.)
- Chicago Hardware Foundry Company. (See Burlin, Leslie H., assignor.)
- Chicago Hardware Foundry Company. (See Pangborn, L. D., Warwick, and McKay, assignors.)
- Chicago Lock Company. (See Shinn, Lyle B., assignor.)
- Chicago Metallic Packing Company. (See Pickett, A. Glenn, assignor.)
- Chicago Mill and Lumber Company. (See Murphy, J. T., and Itaney, assignors.)
- Chicago Miniature Lamp Works. (See St. James, Robert T., assignor.)
- Chicago Pneumatic Tool Company. (See Callan, William T., assignor.)
- Chicago Pneumatic Tool Company. (See Davenport, Ransom W., assignor.)
- Chicago Pneumatic Tool Company. (See Hoffman, Leon F., assignor.)
- Chicago Pneumatic Tool Company. (See Penberthy, Ernest, assignor.)
- Chicago Pneumatic Tool Company. (See Price, Jacob L., assignor.)
- Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)
- Chicago Pump Company. (See Durdin, Augustus C., Jr., assignor.)
- Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
- Chicago Railway Equipment Company. (See De Long, Frederic T., assignor.)
- Chicago Railway Equipment Company. (See Elholm, Herbert W., assignor.)
- Chicago Railway Equipment Company. (See Hawkins, Arthur W., assignor.)
- Chicago Railway Equipment Company. (See Janus, William, assignor.)
- Chicago Railway Equipment Company. (See Moore, Ambrose C., assignor.)
- Chicago Railway Equipment Company. (See Rissler, Albin P., assignor.)
- Chicago Rhopoc Products Company. (See Johnson, Norman E., assignor.)
- Chicago Telephone Supply Company. (See Diener, Riley M., assignor.)
- Chicago Tool & Kit Mfg. Co. (See O'Neill, William J., assignor.)
- Chicago Tubing & Braiding Company. (See Fentress, James, assignor.)
- Chicago Tubing and Braiding Co. (See Fentress, J., and Junkunc, assignors.)
- Chicopec Manufacturing Corporation. (See Clark, Robert T., assignor.)
- Chieffo, Henry P., Weehawken, N. J. Safety window-cleaning device. 1,621,626; Mar. 22.
- Chilcoat, Harvey C., Stanton, Nebr. Draft equalizer. 1,613,085; Jan. 4.
- Child, E. E., Company. (See Bishop, Orlen E., assignor.)
- Child, Reginald D. (See Lutyens, L. C., and Child.)
- Children, Bery F., Edgemont, S. Dak. Tractor. 1,644,978; Oct. 11.
- Children's Clinical Laboratory. (See Vaughan, Robert J., assignor.)
- Childress, William C., assignor to Mercury Manufacturing Company, Chicago, Ill. Lifting truck. 1,636,850; July 26.
- Childreth, Henry O. (See Graham, Paul C., assignor.)
- Childs, Franklin N., Danville, Pa. Compound for filling holes in cast iron. 1,649,100; Nov. 15.
- Childs, George A., Arlington, Mass., assignor to D. A. Roman, Conductor-wire terminal. 1,617,373; Feb. 1.
- Childs, Gustav G., assignor, by mesne assignments, to Breck Engineering Company, St. Louis, Mo. Lubricator. 1,648,163; Nov. 8.
- Childs, James. (See Pearson, E. C., and Childs.)
- Childs, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Rotary drilling machine of well-boring apparatus. 1,628,032; May 10.
- Childs, Kenneth L., assignor to The Fabric Body Corporation, Detroit, Mich. Automobile body construction. 1,641,319; Sept. 6.
- Childs, William L., assignor to Reed Roller Bit Company, Houston, Tex. Roller-cutter mounting. 1,652,348; Dec. 13.
- Chiles, George S., St. Louis, Mo., assignor to Dalman, Chiles Company, Railway-car truck. 1,615,616; Jan. 25.
- Chillingrian, Harry, Bridgeport, Conn. Safety cooking and heating device. 1,641,624; Sept. 6.
- Chillingworth, Rudolf, New York, N. Y. Aeroplane. 1,655,342; Dec. 20.
- Chils, Lewis S., assignor to J. M. Fisher Company, Attleboro, Mass. Flexible wrist-watch bracelet. 1,616,215; Feb. 1.
- Chilson, Lewis S., assignor to J. M. Fisher Company, Attleboro, Mass. Belt buckle. 1,625,388; Apr. 19.
- Chilson, Lewis S., assignor to J. M. Fisher Company, Attleboro, Mass. Extension device for bracelets. 1,641,332; Sept. 6.
- Chilson, Sumner B., Minneapolis, Minn. Radiator. 1,634,824; July 5.
- Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Steering wheel. 1,616,681; Feb. 8.
- Chilton, Ralph H., assignor to Industrial Research Corporation, Toledo, Ohio. Gas-engine starter. 1,625,703; Apr. 26.
- Chilton, Roland, Keyport, N. J., assignor to Healey-Aeromarine Bus Company, Inc. Connecting rod for engines. 1,621,404; Mar. 22.
- Chilton, Roland, Keyport, N. J., assignor to Healey-Aeromarine Bus Company, Inc. Transmission. 1,623,306; Apr. 5.

- Chilton, Roland, Keyport, N. J., assignor to Healey-Aeromarine Bus Company, Inc. Load-limiting clutch. 1,632,639; June 14.
- Chilton, Roland, Keyport, N. J., assignor to Healey-Aeromarine Bus Company, Inc. Self-aligning gear mounting. 1,637,806; Aug. 2.
- Chilton, Roland, Keyport, N. J., assignor to Healey-Aeromarine Bus Company, Inc. Spring wheel. 1,646,991; Oct. 25.
- Chilton, Roland, Keyport, N. J., assignor to Aeromarine Plane and Motor Company, Incorporated. Propeller mounting. 1,653,341; Dec. 20.
- Chin, Howard T., Atascadero, Calif. Stovepipe holder. 1,647,081; Oct. 25.
- Chinn, Howard T., Atascadero, Calif. Doll. 1,632,171; Jan. 14.
- Chinnbeck, Herbert J. L., Boone, Iowa. Lawn rake. 1,650,428; Nov. 22.
- Chinski, C. C., et al. (See Rayon, Joseph D., assignor.)
- Chipman, Andrew L., et al. (See Chipman, Harry E., assignor.)
- Chipman, Harry E., Springfield, Mass., assignor to W. A. Ant. A. L. Chipman, New York, N. Y. Talking-picture transfer mechanism. 1,618,586; Apr. 5.
- Chipman, Morton R., Waterbury, Conn. Dust cap for lubricating apparatus. 1,626,268; Apr. 26.
- Chipman, William A., et al. (See Chipman, Harry E., assignor.)
- Chippis, Henry D., Corinth, Miss. Artificial tooth and bridge-work. 1,633,660; June 28.
- Chiste, Henri, Paris, France. System of radiotelegraphy. 1,622,026; Mar. 22.
- Chisholm, Alexander, Wenatchee, Wash. Combination padlock. 1,653,254; Dec. 20.
- Chisholm, Angus. (See Chisholm, Charles A., assignor.)
- Chisholm, Arron R., East Orange, N. J. Suspensory bandage. 1,638,525; Aug. 9.
- Chisholm, Arron R., East Orange, N. J. Vanity case. 1,651,193; Nov. 29.
- Chisholm, Charles A., Jenningson, assignor of one-half to A. Chisholm, Jenningson, W. Va. Rivet-setting implement. 1,643,112; Sept. 20.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Changeable printing form. 1,627,777; Oct. 28.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Embossing dies. 1,612,907; Jan. 4.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Addressing machine. 1,627,687; May 10.
- Chisholm, Clifton, assignor to The American Multigraph Co., Cleveland, Ohio. Printing chase. 1,640,347; Aug. 30.
- Chisholm, Clifton, assignor to American Multigraph Company, Cleveland, Ohio. Locking printing strips in place. 1,651,185; Nov. 29.
- Chisholm, Clifton, and P. M. Colquhoun, Cleveland, Ohio, assignors to The American Multigraph Company. Platen-controlling mechanism for printing machines. 1,647,560; Nov. 1.
- Chisholm, Douglas W., Garnkirk, Scotland, assignor to The Birchfield Engineering Company Limited, Cardiff, Wales. Tube-welding machine. 1,637,679; Aug. 2.
- Chisholm, Douglas W., Glasgow, Scotland, assignor to The Birchfield Engineering Company Limited, Cardiff, Wales. Manufacture of butt and lap-welded tubes. 1,642,872; Sept. 20.
- Chisholm, Oliver P., Durango, Colo., assignor to American Smelting and Refining Company, New York, N. Y. Treating lead dross. 1,642,358; Sept. 13.
- Chisholm-Ryder Co., Inc. (See Goffin, John, assignor.)
- Chitty, Charles W. (See Kent-Jones, D. W., and Chitty.)
- Chizlett, William G., Oroville, Calif. Electric-lamp socket. 1,627,631; May 10.
- Choate, Charles N., Royal Oak, Mich. Mail box. 1,642,806; Sept. 20.
- Chockley, Julien B., Mesa, Ariz. Turbine pump. 1,645,541; Nov. 22.
- Choi, A. Tobin, Holding Co. Aktiengesellschaft. (See Egli, Arnold A., assignor.)
- Choiniski, Bruno B., Milwaukee, Wis. Combined hot-air and hot-water heater. 1,642,539; Sept. 13.
- Choiniski, Walter, Milwaukee, Wis. Towel holder. 1,640,820; Aug. 30.
- Chollet, Louis, assignor to Compagnie Industrielle et Commerciale du Cycle et de l'Automobile, Paris, France. Pneumatically-operated horn. 1,654,454; Dec. 27.
- Chonick, Michael. (See Anderson, Carl M., assignor.)
- Chorley, Percy. (See Baddley, J., Chorley, and Butler.)
- Chorlton, Alan E. L., London, England. Variable-speed gear and controlling the same. 1,619,703; Mar. 1.
- Chorlton, Alan E. L., London, England. Reversing gear for internal-combustion-engine locomotives. 1,619,702; Mar. 1.
- Chorlton, Alan E. L., London, England. Power-transmission mechanism. 1,619,703; Mar. 1.
- Chorlton, Alan E. L., London, England. Internal-combustion-engine locomotive. 1,619,705; Mar. 1.
- Chorlton, Alan E. L., London, England. Internal-combustion engine. 1,647,434; Nov. 1.
- Chorlton, Alan E. L., assignor of one-half to W. Beardmore, London, England. Internal-combustion-engine locomotive. 1,619,704; Mar. 1.
- Chott, Edward L., assignor of one-half to H. J. Chott, Chicago, Ill. Teeth-cleaning device. 1,644,465; Oct. 4.
- Chott, Hugo J. (See Chott, Edward L., assignor.)
- Chovanec, Michael, Hazleton, Pa. Combination lid and lifting device. 1,624,926; Apr. 19.
- Choy, Chee S., Chicago, Ill. Dispensing apparatus. 1,653,430; Dec. 20.
- Chrisman, Clarence C., Martinsburg, Mo. Pen or pencil clip. 1,634,772; July 5.
- Chrisman, Frank S., South Bend, Ind. Metal binding for reed matting. 1,652,195; Dec. 13.
- Christ, Godfrey. (See Burguières, Denis P. J., assignor.)
- Christ, Wilhelm. (See Jellinck, K., and Christ.)
- Christel, Carl, Taucha, near Leipzig, Germany. Device for cleaning matrices of type-setting and casting machines. 1,623,016; Mar. 29.
- Christel, William F., Valdres, Wis. Grader. 1,631,517; June 7.
- Christeler, Marie, Utica, N. Y. Window-cleaning device. 1,629,201; May 17.
- Christensen, Anders, Wilson, and A. W. Warsen, Hartford, Conn. Weeding machine. 1,620,594; Mar. 8.
- Christensen, Carl, Vancouver, British Columbia, Canada. Ash receptacle for cigarette holders. 1,649,019; Nov. 15.
- Christensen, Carl J., St. Paul, Nebr. Morgue table and embalming board. 1,614,651; Jan. 18.
- Christensen, Carl L., Dalton, Nebr. Fan. 1,636,286; July 19.
- Christensen, Charles E., Viborg, S. Dak. Fencepost. 1,636,126; July 19.
- Christensen, Christen, Chicago, Ill. Lawn mower. 1,637,603; Aug. 2.
- Christensen, Christen, assignor to Electrical Engineers Equipment Company, Chicago, Ill. Insulator support. 1,643,943; Oct. 4.
- Christensen, Christen, Chicago, Ill., and P. G. Langley, Greensboro, N. C., assignors to General Electric Company. Electric switch. 1,653,086; Dec. 20.
- Christensen, Christen H., Oslo, Norway. Wing pump. 1,653,343; Dec. 20.
- Christensen, Harry, assignor to Elite Lamp Co., Chicago, Ill. Lamp. Des. 72,592; May 10.
- Christensen, Harry E., and J. L. Loehnis, San Francisco, Calif.; said Loehnis assignor to said Christensen. Automatic stop device for automobiles. 1,653,945; Dec. 27.
- Christensen, John, sr., Galveston, Tex. Holst. 1,618,914; Feb. 22.
- Christensen Machine Company, The. (See Christensen, Martin, assignor.)
- Christensen Machine Co. (See Greene, Frederick J., assignor.)
- Christensen Machine Co., The. (See Hoffert, Roy G., assignor.)
- Christensen, Martin, Elmhurst, Ill., assignor to The Christensen Machine Company, Racine, Wis. Signature-feeding mechanism. 1,614,715; Jan. 18.
- Christensen, Martin, Elmhurst, Ill., assignor to The Christensen Machine Company, Racine, Wis. Stitcher feed mechanism. 1,614,716; Jan. 18.
- Christensen, Martin, Elmhurst, Ill., assignor to The Christensen Machine Company, Racine, Wis. Signature-handling apparatus. 1,614,717; Jan. 18.
- Christensen, Niels A., Cleveland, Ohio. Brake-control valve. 1,613,021; Jan. 4.
- Christensen, Niels A., Cleveland, Ohio. Compressed-air brake system for motor-vehicle trains. 1,614,653; Jan. 18.
- Christensen, Niels A., Cleveland, Ohio. Brake-control-valve mechanism. 1,616,571; Feb. 8.
- Christensen, Niels A., Cleveland, Ohio. Direct-drive compressor. 1,633,767; June 28.
- Christensen, Niels A., Cleveland, Ohio. Automotive engine compressor. 1,633,768; June 28.
- Christensen, Niels A., Cleveland, Ohio. Multicylinder automotive compressor. 1,633,769; June 28.
- Christensen, Niels A., Cleveland, Ohio. Automotive engine compressor. 1,633,770; June 28.
- Christensen, Niels A., Cleveland, Ohio. Front end compressor. 1,633,771; June 28.
- Christensen, Niels A., Cleveland, Ohio. Compressor control. 1,640,597; Aug. 30.
- Christensen, Niels A., Cleveland, Ohio. Control-valve mechanism. 1,650,063; Nov. 22.
- Christensen, Niels A., Milwaukee, Wis. Straight and automatic air-brake system. 1,614,652; Jan. 18.
- Christensen, Niels A., Milwaukee, Wis. Control-valve mechanism. 1,616,606; Feb. 8.
- Christensen, Niels A., Milwaukee, Wis. Vehicle brake mechanism. 1,619,970; Mar. 8.
- Christensen, Niels A., Milwaukee, Wis. Vehicle brake. 1,620,023; Mar. 8.
- Christensen, Niels A., Milwaukee, Wis. Compressor governor. 1,626,076; Apr. 26.
- Christensen, Niels A., Milwaukee, Wis. Automotive compressor. 1,633,764; June 28.
- Christensen, Niels A., Milwaukee, Wis. Compressor mounting. 1,633,765; June 28.
- Christensen, Niels A., Milwaukee, Wis. Engine-driven compressor. 1,633,766; June 28.
- Christensen, Niels A., Milwaukee, Wis. Air-brake coupling. 1,641,919; Sept. 6.
- Christensen, Niels A., Milwaukee, Wis. Brake mechanism for vehicles. 1,644,635; Oct. 4.

- Christensen, Niels C., Salt Lake City, Utah. Treating sulphide ores of lead and zinc. 1,620,873; Mar. 13.
- Christensen, Niels C., Salt Lake City, Utah. Treatment of ores with chloride solutions. 1,621,969; Mar. 22.
- Christensen, Niels C., Salt Lake City, Utah. Apparatus for filtration. 1,641,736; Sept. 6.
- Christensen, Niels C., Salt Lake City, Utah. Precipitating copper from sulphate solution. 1,643,922; Sept. 27.
- Christensen, Peder J., Ellidshøj, Denmark. Smelling doli. 1,618,571; Feb. 22.
- Christensen, Robert J. R., Bremerton, Wash. Pastry cutter. 1,615,569; Jan. 25.
- Christensen, Virgo, Los Angeles, Calif. Auto heel protector. 1,622,859; Mar. 29.
- Christensen, Walter D., Pueblo, Colo. Electric arc-welding tool. 1,644,237; Oct. 4.
- Christenson, George, North Plainfield, N. J., assignor to Johns-Manville Incorporated, New York, N. Y. Packing for plungers and the like. 1,616,412; Feb. 1.
- Christenson, Ralph L., Seattle, Wash. Swinging double-paned windows. 1,649,665; Nov. 15.
- Christia, George and P., Detroit, Mich. Wheel. 1,634,454; July 5.
- Christia, Peter. (See Christia, George and P.)
- Christian, Arthur T., Glenview, Ill. Combination dust cap and lock nut. 1,627,480; May 3.
- Christian, Benjamin H. (See Christian, William and B. H., assignors.)
- Christian, Joe G. (See Fox, G. B., and Christian.)
- Christie, John, assignor to Eastman Kodak Company, Rochester, N. Y. Spool holder for cameras. 1,645,894; Oct. 18.
- Christian, John T., Bremerton, Wash. Automobile signal. 1,631,477; June 7.
- Christian, Raymond A., and E. Gates, assignors, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,652,091; Dec. 6.
- Christian, W. W. (See O'Loughlin, Charles E. A., assignor.)
- Christian, William, and B. H. Christian, Milford; said B. H. Christian assignor of one-half of his right to E. Christian, Bridgeport, Conn. Musical stringed instrument. 1,653,496; Dec. 20.
- Christial, Anthony W., Red Bank, N. J. Tile-fettling machine. 1,618,061; Feb. 15.
- Christians, Christian B., Jr., San Antonio, Tex. Road-repairing machine. 1,624,390; Apr. 12.
- Christiansen, Bertha K., Copenhagen, Denmark. Doll carrying movable limbs. 1,645,228; Oct. 11.
- Christiansen, Christian, assignor to New Way Harvester Company, Sioux Falls, S. Dak. Shocker. 1,640,598; Aug. 30.
- Christiansen, Christian G., Fingal, N. Dak. Horse nose guard. 1,654,363; Dec. 27.
- Christiansen, Frederick H., Huntington Park, Calif. Cement mixer. 1,615,512; Feb. 22.
- Christiansen, Hans A., and L. E. Merrick, Agar, S. Dak. 1,632,367; June 14.
- Christiansen, Julius H. A., Ricketts, Iowa. Paper-hanger's table. 1,623,167; Apr. 5.
- Christianson, Adolph W., Burlington, Vt., and J. F. Milligan, Richmond Park, N. J., assignors to Globe Match Corporation. Match-packeting machine. 1,639,639; Aug. 16.
- Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Railway-car construction. 1,633,162; June 21.
- Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Car construction. 1,643,836; Sept. 27.
- Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Car construction. 1,648,576; Nov. 8.
- Christianson, Arnold and C., Hammond, Ind. Brake-head support. 1,639,258; Aug. 16.
- Christianson, Arnold and C., Hammond, Ind. Brake structure. 1,643,337; Sept. 27.
- Christianson, Björn, Langruth, Manitoba, Canada. Self-adjusting jaw-bolt tongs. 1,617,703; Feb. 15.
- Christianson, Christ A., Ulen, Minn. Stair square. 1,624,535; Apr. 12.
- Christianson, Christian. (See Christianson, Arnold and C.)
- Christianson, Pehr, Carlos, Minn. Sewing cabinet. Des. 74,002; Dec. 6.
- Christie, Charles H. (See Stillwell, R. O., and Christie.)
- Christie, Hans L., Los Angeles, Calif. Coping and punching machine. 1,638,526; Aug. 9.
- Christie, John B., Birmingham, England. Discharge valve for flushing cisterns. 1,618,268; Feb. 22.
- Christie, John H., Oakland, Calif. Ballast plate. 1,650,819; Nov. 29.
- Christie, Walter J., Alameda, Calif. Casting machine. 1,631,399; June 7.
- Christlein, Paul, Nuremberg, and K. Werner, Nuremberg-Elbach, Germany. Pump having rolling pistons working in nuts. 1,625,794; Apr. 26.
- Christman, Peter J., Jr., Green Bay, Wis. Soap-sheet machine. 1,628,229; May 10.
- Christman, Peter J., Jr., Green Bay, Wis. Machine for superimposing paper sheets. 1,632,433; June 14.
- Christman, Peter J., Green Bay, Wis. Folded napkin and folding same. 1,642,487; Sept. 13.
- Christman, Peter J., Jr., assignor to Paper Converting Machine Co., Green Bay, Wis. Interfolding machine. 1,637,550; Aug. 2.
- Christmann, Ludwig J., assignor to American Cyanamid Company, New York, N. Y. Lactonitrile fumigant. 1,620,074; Mar. 8.
- Christner, George C., Rivesville, W. Va. Crosstie. 1,643,923; Sept. 27.
- Christofferson, Christian A., St. Paul, Minn. Automatic storm-window regulator. 1,632,949; June 21.
- Christoph, George W., Warehouse Point, assignor of one-half to The American Hardware Corporation, New Britain, and one-half to The Sterling Blower Company, Hartford, Conn. Drying apparatus. 1,623,017; Mar. 29.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Pile-elevating mechanism. 1,617,374; Feb. 15.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Automatic throw-out mechanism for printing presses and the like. 1,620,800; Mar. 15.
- Christophel, Carl E., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Sheet-feeding machine. 1,651,444; Dec. 6.
- Christopher, Arthur J., assignor to Western Electric Company, Incorporated, New York, N. Y. Inductance device. 1,624,538; Apr. 12.
- Christopher, Harold S., Berkeley, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Decolorizing and clarifying agent. 1,617,476; Feb. 15.
- Christopherson, Alfred C., assignor to Hacker Manufacturing Co., Chicago, Ill. Sheet feeder. 1,629,477; May 24.
- Christy, Frank W., Beverly, Mass. Lighting apparatus. 1,643,697; Sept. 27.
- Chritton, George A., et al., trustees. (See Curtis, Lewis E., assignor.)
- Chritton, George A., trustee. (See Eckart, George F., assignor.)
- Chromatic Tool Company. (See Klouman, Henning, assignor.)
- Chromatic Tool Company. (See Sullivan, William B., assignor.)
- Chromczak, Antoni, Utica, N. Y. Sectional fishing rod. 1,643,003; Sept. 20.
- Chrome Steel Works. (See Currie, William, assignor.)
- Chrysler Corporation. (See Draper, Arthur F., assignor.)
- Chrysler Corporation. (See Kent, Philip J., assignor.)
- Chrysler Corporation. (See Maynard, Howard E., assignor.)
- Chryst, William A. (See Kettering, C. F., and Chryst.)
- Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,633,925; June 28.
- Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,634,738; July 5.
- Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,640,753; Aug. 30.
- Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting mechanism. 1,641,373; Sept. 6.
- Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Induction coil. 1,641,374; Sept. 6.
- Chryst, William A., and J. H. Hunt, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition apparatus. 1,634,737; July 5.
- Chryst, William G., Philadelphia, Pa. Screen inclosure. 1,637,335; Aug. 2.
- Church, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio system. 1,621,062; Mar. 15.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Light telephony. 1,642,011; Sept. 15.
- Chubb, Lewis W., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of modulation. 1,650,934; Nov. 29.
- Chubb, Rowland N., Los Angeles, Calif. Manufacturing reflectors. 1,615,358; Jan. 25.
- Chubbuck, Burt A., McDonald, Pa. Machine for digging tunnels. 1,660,612; Dec. 6.
- Church, Edgar D., assignor to Jackson & Church Company, Saginaw, Mich. Feed device for jointers. 1,637,175; July 26.
- Church, Edgar D., assignor to Jackson & Church Co., Saginaw, Mich. Wall-vibrating machine. 1,644,175; Oct. 4.
- Church, Frederick P., Lynn, Mass., assignor to General Electric Company. Electric-meter circuit. 1,618,058; Feb. 15.
- Church, Frederic P., Lynn, Mass., assignor to General Electric Company. Mercury meter. 1,640,438; Aug. 30.
- Church, Frederic P., Lynn, Mass., assignor to General Electric Company. Mercury meter. 1,640,439; Aug. 30.
- Church, Harold D., et al. (See Marcus, Charles, assignor.)

- Church, Harold D., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Anchoring device for brakes. 1,638,323; Aug. 9.
- Church, Harold D., Cleveland Heights, assignor to The White Motor Company, Cleveland, Ohio. Headlight mounting. 1,639,486; Aug. 16.
- Church, Harold D., Cleveland Heights, assignor to The White Motor Company, Cleveland, Ohio. Motor-vehicle transmission. 1,652,699; Dec. 13.
- Church, Harold D., Fairfield, Conn., assignor to Packard Motor Car Company, Detroit Mich. Motor vehicle. 1,639,881; Aug. 23.
- Church, Harold D., Fairfield, Conn., assignor of one-third to C. Marcus, New York, N. Y., and one-third to R. P. Lansing, Montclair, N. J. Shock absorber for vehicles. 1,644,653; Oct. 4.
- Church, Harold D., Fairfield, Conn., assignor of one-third to C. Marcus, New York, N. Y., and one-third to R. P. Lansing, Montclair, N. J. Shock absorber for vehicles. 1,644,654; Oct. 4.
- Church, Lewis H. (See Thomas, G. C. Jr., and Church.)
- Church, Lewis H., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,305; Oct. 4.
- Church, Lewis H., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,305; Oct. 4.
- Church, Walter L., Houston, Tex. Valve mechanism. 1,642,012; Sept. 13.
- Churcher, William B., Cleveland Heights, Ohio, assignor to The White Motor Company, Cleveland, Ohio. Electrical system. 1,639,882; Aug. 23.
- Churchill, R. William B., Cleveland Heights, assignor to The White Motor Company, Cleveland, Ohio. Dynamo-electric system. 1,640,181; Aug. 23.
- Churchill, Benn P., and W. J. Churchill, Milwaukee, Wis. Washing machines. Re16,758; Oct. 4.
- Churchill Cabinet Company. (See Reinhold, Oscar, assignor.)
- Chvack, Frank H., Seattle, Wash. Collapsible canvas boat. 1,614,280; Jan. 11.
- Churchill, William J. (See Churchill, Benn P. and W. J.)
- Churchman, John W., assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Germicide. 1,614,281; Jan. 11.
- Churmist, Nicolas J., Syracuse, N. Y. License-card holder. 1,645,229; Oct. 11.
- Churus, George, Detroit, Mich. Toy boat. 1,613,941; Jan. 11.
- Chvojka, Joseph, Philadelphia, Pa. Aerial advertiser. 1,619,565; Mar. 1.
- Chvojka, Joseph, Philadelphia, Pa. Hand truck. 1,636,043; July 19.
- Chwalski, Stanislas Z., assignor to Western Electric Company, Incorporated, New York, N. Y. Induction coil. 1,641,473; Sept. 6.
- Clarante, Ariberto E., New York, N. Y. Hair-curling material and preparing the same. 1,647,958; Nov. 1.
- Cibel, Abraham B., Brookline, assignor to Boston Dye House, Inc., Malden, Mass. Drying apparatus. 1,643,056; Sept. 20.
- "Cibles Automatiques Michoud-Société Anonyme." (See Michoud, Arnold, assignor.)
- Cibor, John, Providence, R. I. Ring. 1,641,575; Sept. 6.
- Ciccone, Anthony, Chicago, Ill. Valve pad for wind instruments. 1,621,395; Mar. 15.
- Cid, Fouad J., Indianapolis, Ind. Electric water heater. 1,645,277; Oct. 11.
- Cid, Fouad J., Indianapolis, Ind. Electric water heater. 1,645,278; Oct. 11.
- Cieslak, Charles, Milwaukee, Wis. Pastry-cream filling device. 1,630,924; May 31.
- Cikanek, Charles. (See Fischer, Ernest, assignor.)
- Cinch Manufacturing Corporation, The. (See Bates, Clifford V., assignor.)
- Cinch Manufacturing Corporation. (See Vodicka, John, assignor.)
- Cincinnati Ball Crank Company, The. (See Walter, Fred C., assignor.)
- Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
- Cincinnati Butchers' Supply Company, The. (See McTavish, Robert, assignor.)
- Cincinnati Butchers' Supply Company, The. (See Schmidt, Gustav, assignor.)
- Cincinnati Butchers' Supply Company, The. (See Schmidt, Oscar C., assignor.)
- Cincinnati Butchers' Supply Company, The. (See Schmidt, O. C., and Klawitter, assignors.)
- Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
- Cincinnati Grinders Incorporated. (See Bluns, George W., assignor.)
- Cincinnati Grinders Incorporated. (See Einstein, S. and Nenninger, assignors.)
- Cincinnati Grinders Incorporated. (See Heim, Lewis R., assignor.)
- Cincinnati Grinders Incorporated. (See Kern, Fred M., assignor.)
- Cincinnati Grinders Incorporated. (See Norton, Charles H., assignor.)
- Cincinnati Lathe and Tool Company, The. (See Thiel, Louis, assignor.)
- Cincinnati Milling Machine Company, The. (See Nenninger, Lester F., assignor.)
- Cincinnati Planer Company, The. (See Linden, C. E., and Langen, assignors.)
- Cincinnati Shaper Company, The. (See Hazelton, Robert T., assignor.)
- Cincinnati Specialty Manufacturing Company, The. (See Miller, Otto, assignor.)
- Cincinnati Time Recorder Company, The. (See Streckfuss, Elmer G., assignor.)
- Cinema Advertising Corporation. (See Stegmann, Louis A., assignor.)
- Cine-Mars, Legendre, San Francisco, Calif. Gas heater. 1,632,554; Sept. 13.
- Cippola, Giovanni, Worcester, Mass. Liquid-dispensing apparatus. 1,614,344; Jan. 11.
- Circle F. Mfg. Co. (See Cross, C. S., and Smith, assignors.)
- Circle F. Mfg. Co. (See Freeman, Edgar H., assignor.)
- Cirelli, Francesco, Philadelphia, Pa. Amplifying horn. 1,637,438; Aug. 2.
- Cirves, Frank H., assignor to French Battery Company, Madison, Wis. Dry cell. 1,643,486; Sept. 27.
- Cisco, George W., Hawthorne, N. J. Temperature indicator. 1,617,897; Feb. 15.
- Cisco, George W., Hawthorne, N. J. Wireless-apparatus cabinet structure. 1,634,709; July 5.
- Cissell, William M., Louisville, Ky. Inlet valve for boilers. 1,628,654; May 17.
- Citizens of the United States, The. (See Townsend, J. S., and Camp, assignors.)
- Citriu, Morris, Brooklyn, N. Y. Ash sifter. 1,629,149; May 17.
- Citro, William J., assignor to The Trailograf Company, Inc., San Francisco, Calif. Film attachment for motion-picture projectors. 1,626,786; May 3.
- Citrus Products Company. (See Krick, Leonard B., assignor.)
- City of Jacksonville. (See Mickler, Raymond Y., assignor.)
- Cizek, John V., Clutier, Iowa. Adjustable bolster stand for wagons. 1,619,288; Mar. 1.
- Clasen, Walter, Cologne-on-the-Rhine, Germany. Production of new ester mixtures. 1,643,619; Sept. 27.
- Claessens, Frederick C. (See Leonard, Frank P., assignor.)
- Clafin, Charles R. B., East Hartford, assignor, by mesne assignment, to The Siko-Lite Corporation, Meriden, Conn. Headlight. 1,627,688; May 10.
- Clafin, Harry C., Bennington, N. H. Beater-roll raiser. 1,614,826; Jan. 18.
- Clair, Isidore, Brooklyn, N. Y. Vacuum scalp cleaning and vibrating machine. 1,651,585; Dec. 6.
- Clancy, John C., Asbury Park, N. J. Converting oils and apparatus therefor. 1,620,075; Mar. 8.
- Clancy, John C., Asbury Park, N. J. Cracking hydrocarbon oils and manufacturing cyanides. 1,651,114; Nov. 29.
- Clancy, John F. (See Dunlop, J., and Clancy.)
- Clapp, Harvey, Co. (See Person, Axel, assignor.)
- Clapp, Albert L., Danvers, assignor to Beckwith Manufacturing Company, Boston, Mass. Shoe stiffener. 1,617,375; Feb. 15.
- Clapp, Albert L., Danvers, assignor to The Flintkote Company, Boston, Mass. Method and mechanism for making tapered shingles. 1,643,373; Sept. 27.
- Clapp, Albert L., Danvers, assignor to Beckwith Manufacturing Company, Boston, Mass. Heel and making the same. 1,643,374; Sept. 27.
- Clapp, Arthurwood, Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Distillation of alcohol. 1,614,877; Jan. 18.
- Clapp, Joseph E., Auburndale, Mass. Electrical apparatus comprising a slow-wave generator. 1,623,829; Apr. 5.
- Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Lifting mechanism for railway cars. 1,627,481; May 3.
- Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Valve mechanism. 1,633,692; June 28.
- Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Valve mechanism. 1,633,772; June 28.
- Clapp, Roger I., Shanghai, China. Nut lock. 1,628,355; May 10.
- Clapper, John S., Minneapolis, Minn. Machine for spreading fertilizer. 1,648,720; Nov. 8.
- Clare, Charles R., Homestead, Pa. Pencil sharpener. 1,636,552; July 19.
- Claremont Waste Manufacturing Company. (See Decoteau, William J., assignor.)
- Clarin, David X., assignor to Okite Products, Inc., New York, N. Y. Dishwashing machine. 1,633,396; June 21.
- Clarin, Werner E. (See Rosenthal, A. E., and Clarin.)
- Clarinda Manufacturing Company. (See Criner, Harry J., assignor.)
- Clark, Mrs. A. P., et al. (See Clark, Dolph M., assignor.)
- Clark, Albert B., Boston, Mass. Speed-change gear. 1,640,882; Aug. 30.
- Clark, Albert B., Boston, Mass. Speed-change gear. 1,641,676; Sept. 6.
- Clark, Alfred A., Baltimore, Md. Stand for washing machines. 1,649,571; Nov. 15.
- Clark, Alfred T., H. A. Leonhauser, and J. R. Jester, Baltimore, Md. Articulated car construction. 1,617,667; Feb. 15.

- Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone repeater system. 1,615,259; Jan. 25.
- Clark, Annie. (See Clark, Philippe L., assignor.)
- Clark, Arthur B. (See Clark, Charles, R. C. and A. B.)
- Clark Car Company. (See Beach, Howard L., assignor.)
- Clark, Charles L., Bridgeton, N. J. Glass-tank furnace. 1,622,005; Dec. 13.
- Clark, Charles N., Somerville, Mass. Wagon. 1,652,762; Dec. 13.
- Clark, Charles, R. C. and A. B., Retford, England. Apparatus for dyeing articles of clothing, fabrics, and the like. 1,649,445; Nov. 15.
- Clark, Chester H., Gallup, N. Mex. Game. 1,631,000; Mar. 31.
- Clark, Claude W., West Palm Beach, Fla. Vehicle wheel. 1,628,578; May 10.
- Clark Controller Company, The. (See Rippl, Charles H., assignor.)
- Clark, Cornelius S., assignor to Clark Engineering Corporation, Norfolk, Va. Internal-combustion engine. 1,618,859; Feb. 22.
- Clark, Cornelius S., assignor to Clark Engineering Corporation, Norfolk, Va. Fuel and lubricant segregating system for internal-combustion engines. 1,618,860; Feb. 22.
- Clark, Cornelius S., assignor to Clark Engineering Corporation, Norfolk, Va. Vacuum means for conserving lubricating oil of internal-combustion engines. 1,618,861; Feb. 22.
- Clark-Cutler-McDermott Co. (See McDermott, Thomas S., assignor.)
- Clark, Dolph M., Portland, Ore. Coffee-urn attachment to automatically measure more than one substance simultaneously to deliver a combined uniform volume. 1,627,147; May 3.
- Clark, Dolph M., assignor to O. Harbaugh and Mrs. A. P. Clark, Portland, Ore. Combination sanitary automatic creamer attachment for coffee urns. 1,618,363; Feb. 22.
- Clark, Earle A., Tulsa, Okla. Meter top and index box. 1,631,472; June 7.
- Clark, Edgar C., Pittsburgh, Pa. Separator for bricks and piling the same. 1,640,691; Aug. 30.
- Clark, Edgar H., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Testing device for testing register senders. 1,624,540; Apr. 12.
- Clark, Edgar H., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,636,171; July 19.
- Clark, Edgar M. (See Howard, F. A., Clark, and Carlinger.)
- Clark, Edgar M., New York, N. Y., assignor to Standard Development Company. Distilling hydrocarbon material. 1,625,984; Apr. 26.
- Clark, Edgar M., New York, N. Y., and N. E. Loomis and A. Howard, Elizabeth, N. J., assignors to Standard Development Company. Manufacturing gas from petroleum oil. 1,651,115; Nov. 29.
- Clark, Edward D. (See Busch, Ben., assignor.)
- Clark, Edward E., Kansas City, Mo., assignor, by mesne assignments, to H. W. Jacobs and U. S. Weary, Junction City, Kans. Antivibrating device. 1,637,604; Aug. 2.
- Clark, Edward F., North Attleboro, Mass. Bar cuff link. 1,631,246; June 7.
- Clark, Edward M., Davenport, Iowa. Commercial sign. 1,638,564; Aug. 9.
- Clark, Edwin M., Kalkston, Mich. Storage tank. 1,643,924; Sept. 27.
- Clark, Elliott B., Weldon, N. C. Bottle construction. 1,635,070; July 5.
- Clark, Emery E., Topeka, Kans. Power-transmitting means. 1,651,997; Dec. 6.
- Clark, Emery E., Topeka, Kans. Power-actuating means for tricycles and the like. 1,653,889; Dec. 27.
- Clark Engineering Corporation. (See Clark, Cornelius S., assignor.)
- Clark Equipment Company. (See Mogford, E. C., and Burger, assignors.)
- Clark, Ernest, Rio de Janeiro, Brazil. Paving block. 1,626,269; Apr. 26.
- Clark, Ernest, Abington, assignor to Abington Textile Machinery Works, Boston, Mass. Pneumatic stripper attachment for carding engines. 1,614,103; Jan. 11.
- Clark, Ernest, Abington, assignor to Abington Textile Machinery Works, Boston, Mass. Vacuum stripper for carding engines. 1,622,246; Mar. 22.
- Clark, Ernest, Abington, assignor to Abington Textile Machinery Works, Boston, Mass. Pneumatic stripper attachment for carding engines. 1,633,542; June 21.
- Clark, Ezra E., Newtonville, Mass. Accelerating the opening of dry-pipe valves. 1,613,343; Jan. 4.
- Clark, Ezra E., Newtonville, Mass. Drip valve for dry-pipe valves. 1,630,783; May 31.
- Clark, Farley G. (See Allan, William G., assignor.)
- Clark Fibre Products Corporation. (See Clark, Horace H., assignor.)
- Clark, Francis M., assignor to Bridgeport Brass Company, Bridgeport, Conn. Trolley wheel. 1,642,765; Sept. 20.
- Clark, Frank J., Harmony, Minn. Rural-mail-receiving apparatus. 1,639,722; Aug. 23.
- Clark, Frank J., Milwaukee, Wis., assignor to Grand Rapids Bookcase & Chair Company, Hastings, Mich. Rewind and replay mechanism for automatic players. 1,648,840; Nov. 8.
- Clark, Fred N., Hammond, Ind. Wire clamp. 1,638,918; Aug. 16.
- Clark, George F., Boston, Mass., assignor to Boston Match Company. Match book. 1,634,135; June 23.
- Clark, George H. (See Hill, G. and Clark.)
- Clark, George H., Washington, D. C., assignor, by mesne assignments, to Radio Corporation of America. Adjustment of wave lengths. Re16,951; June 14.
- Clark, George H., Brooklyn, N. Y., assignor to Radio Corporation of America. Radio signaling system. 1,624,215; Apr. 12.
- Clark, George H., Brooklyn, N. Y., assignor to Radio Corporation of America. Variable condenser. 1,631,360; June 7.
- Clark, George H., Melrose, assignor to Crosby-Steam Gage & Valve Company, Boston, Mass. Pressure gauge. 1,625,985; Apr. 26.
- Clark, George P., Company, The. (See Brostedt, Carl W., assignor.)
- Clark, George S., et al. (See Fénelon, Juan, assignor.)
- Clark, George T. (See Guest, Harry, assignor.)
- Clark, Harold J. (See Tait, Wilfred E., assignor.)
- Clark, Harry A., Wichita Falls, Tex. Sheave tensioning and adjusting device. 1,617,668; Feb. 15.
- Clark, Harry A., Wichita Falls, Tex. Frame construction for tractor-driven winches. 1,638,243; Aug. 9.
- Clark, Harry H., Brooklyn, N. Y. Portable booth. Des. 73,598; Oct. 11.
- Clark, Harry J., Gary, Ind. Draft mechanism for wagons and wagon trains. 1,652,700; Dec. 13.
- Clark, Henry A., Old Harry, Magdalen Islands, Quebec, Canada. Shipping crate. 1,639,555; Aug. 16.
- Clark, Henry F., Belle Vernon, assignor to Window Glass Machine Company, Pittsburgh, Pa. Sheet-glass apparatus. 1,641,320; Sept. 6.
- Clark, Henry R., Tarrant, Ala. Fertilizer distributor. 1,632,540; June 14.
- Clark, Horace H., Farmingdale, N. J., assignor to Clark Fibre Products Corporation. Cellulose product and making same. 1,618,572; Feb. 22.
- Clark, Horace S., Oakland, Calif., assignor to The Westinghouse Air Brake Company, Wilmersdorf, Pa. Vehicle brake device. Re1,622,420; Mar. 29.
- Clark, Hugh S., Elizabeth, N. J. Aeroplane. 1,615,682; Jan. 25.
- Clark, Irwin A. (See Kauffman, H. L., and Clark.)
- Clark, J. L., Manufacturing Co. (See Kjellstrom, John H., assignor.)
- Clark, J. L., Manufacturing Co. (See Mills, Wallace C., assignor.)
- Clark, J. R., Company. (See Kalgren, John E., assignor.)
- Clark, Jack, Rosedale, N. Y. Golf tee. 1,643,113; Sept. 20.
- Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Unting butted edges of metal parts by welding. 1,654,037; Dec. 27.
- Clark, James E. (See Ashby, Heber L., assignor.)
- Clark, James E. (See Clark, Thomas E. and J. E.)
- Clark, James E. and T. E., Detroit, Mich. Humidifier. 1,652,392; Dec. 13.
- Clark, James E. N. Smith, and J. Meese, assignors to S. R. Dresser Manufacturing Company, Bradford, Pa. Wrought-metal connection for threaded pipes. 1,651,186; Nov. 29.
- Clark, James H., River Rouge, Mich. Attachment for vehicles. 1,630,525; May 31.
- Clark, James L., Cox's Creek, Ky. Button. Des. 72,547; May 3.
- Clark, James R., assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y. Adjustable partition. 1,639,795; Aug. 23.
- Clark, John M., New York, N. Y. Flame plug for internal-combustion engines. 1,621,581; Mar. 22.
- Clark, John M., assignor to Universal Button Fastening & Button Company, Detroit, Mich. Button fastening. 1,646,053; Oct. 18.
- Clark, John O., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Door for excavating dippers and the like. 1,653,620; Dec. 27.
- Clark, John T., Provo, Utah. Vehicle tire. 1,626,511; Apr. 26.
- Clark, John T., Provo, Utah. Pneumatic tire. 1,626,512; Apr. 26.
- Clark, John T., Provo, Utah. Vehicle tire. 1,651,375; Dec. 6.
- Clark, Le Roy B., Waterbury, Conn. Smoke shield. 1,627,482; May 3.
- Clark, Le Roy G., Wayne County, Mich. Sign. 1,651,084; Nov. 29.
- Clark, Leslie H., Evansville, Ind. System for cleaning garments by gasoline. 1,649,572; Nov. 15.
- Clark, Leverett M., assignor to Railway Improvement Company, New York, N. Y. Automatic lubricating device. 1,625,074; Apr. 19.
- Clark, Leverett M., assignor to Vaughn Equipment Company, New York, N. Y. Hand-strap mounting. 1,650,429; Nov. 22.
- Clark, Louis, assignor to Leif Manufacturing Company. (See Kemp, John B., assignor.)
- Clark, Louis F., Petrolillos, Chile. Oxidizing metallic solutions. 1,649,152; Nov. 15.

- Clark, Mickle, Chicago, Ill. Electrical condenser. 1,619,597; Mar. 1.
- Clark, Nancy D., Glen Head, and A. B. Armstrong, New York, N. Y., assignors to The American National Red Cross. Braile matrix. 1,635,032; July 5.
- Clark, Nolon I., Beggs, Okla. Pump grip. 1,649,573; Nov. 15.
- Clark, Omar E. (See Skaer, A. H., and Clark.)
- Clark, Omar E., Denver, Colo. Hoist. 1,633,543; June 21.
- Clark, Orlando A., and G. P. Anderson, Milwaukee, Wis. Box-making machine. 1,614,522; Jan. 18.
- Clark, Otto B., Evansville, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,628,950; May 17.
- Clark, Otto B., Evansville, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,628,951; May 17.
- Clark, Otto B., Evansville, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,652,763; Dec. 13.
- Clark Paper & Manufacturing Co. (See Clark, Raymond P., assignor.)
- Clark, Paul L., Brooklyn, N. Y. Photo-electrical transmitting apparatus. 1,648,042; Nov. 2.
- Clark, Philippe L., deceased; R. A. Kirkpatrick, executor. Los Angeles, Calif., assignor to A. Clark. Power-transmitting device. 1,630,925; Aug. 23.
- Clark, Robert G., Brooklyn, N. Y., assignor to Chicopee Manufacturing Corporation. Vending apparatus. 1,652,216; Dec. 13.
- Clark, Raymond P., assignor to Clark Paper & Manufacturing Co., Rochester, N. Y. Fruit packer. 1,633,571; June 28.
- Clark, Reed J., Jr., Youngstown, Ohio. Washing machine. 1,640,232; Aug. 23.
- Clark, Robert C. (See Clark, Charles, R. C. and A. B.)
- Clark, Robert G., Brooklyn, assignor to Sam Cohen Machine Corporation, New York, N. Y. Apparatus for applying stays to box corners. 1,617,321; Feb. 15.
- Clark, Robert P., assignor to Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Creel. 1,648,757; Nov. 8.
- Clark, Rufus W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-display holder. 1,628,306; May 19.
- Clark, Sidney C., assignor to American Gypsum Company, Port Clinton, Ohio. Manufacturing wall board. 1,639,128; Aug. 16.
- Clark, Sidney C., assignor to American Gypsum Company, Port Clinton, Ohio. Plaster board. 1,642,840; Sept. 20.
- Clark, Theodore D., Quimby, Iowa. Automobile tire chain. 1,615,570; Jan. 25.
- Clark, Theodore F. (See Anderson, M. F., and Clark.)
- Clark, Thomas E. (See Clark, James E. and T. E.)
- Clark, Thomas E., assignor to Continuous Train Control Corporation, Detroit, Mich. Train-control apparatus. 1,619,290; Mar. 1.
- Clark, Thomas E., assignor to Continuous Train Control Corporation, Detroit, Mich. Conductor for train-control systems. 1,631,361; June 7.
- Clark, Thomas E., assignor to Continuous Train Control Corporation, Detroit, Mich. Train-control apparatus. 1,646,683; Oct. 25.
- Clark, Thomas E., and C. B. Stone, assignors to Continuous Train Control Corporation, Detroit, Mich. Air-brake control device. 1,604,480; Aug. 30.
- Clark, Thomas E. and J. E. assignors to Continuous Train Control Corporation, Detroit, Mich. Train-control system. 1,619,289; Mar. 1.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Railway-train-control system. 1,646,684; Oct. 25.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Continuous train-control system. 1,646,685; Oct. 25.
- Clark Tractor Company. (See Stockfleth, B., and Burger.)
- Clark Tractor Company. (See Stockfleth, B., and Burger, assignors.)
- Clark, Victor B., Grand Rapids, Mich. Air compressor. 1,634,093; June 28.
- Clark, Virgil R., Philadelphia, Pa. Starting device for internal-combustion engines. 1,620,998; Mar. 15.
- Clark, Virgilus E., assignor to Dayton-Wright Company, Dayton, Ohio. Wing or similar member for airplanes. 1,616,682; Feb. 6.
- Clark, Virgilus E., assignor to Dayton-Wright Company, Dayton, Ohio. Exhaust muffler. 1,638,087; Aug. 9.
- Clark, Wallace. (See Brougham, Herbert R., assignor.)
- Clark, Walter J., and W. M. Ronine, Wichita, Kans. Clamp for dental molds. 1,651,376; Dec. 6.
- Clark, Warren F., Cleveland, Ohio. Heat-controlling device. 1,643,575; Sept. 27.
- Clark, Warren F., and E. Stranzky, Warren, Pa. Mounting for heating units. 1,618,364; Feb. 22.
- Clark, Wendell H., Chicago, Ill. Electric plug. 1,627,594; May 10.
- Clark, Will A., St. Louis, Mo. Liquid-polish applicator. 1,620,801; Mar. 15.
- Clark, Will M., South Orange, N. J. Telephone directory. 1,650,420; Nov. 22.
- Clark, William C., San Francisco, Calif., assignor, by mesne assignments, to Acme Card System Company, Chicago, Ill. Visible index. 1,631,473; June 7.
- Clark, William D., Washington, D. C. Flying machine. 1,650,113; Nov. 22.
- Clark, William D., Washington, D. C. Flying machine. 1,650,114; Nov. 22.
- Clark, William E., Mount Hood, Oreg. Retainer. 1,632,761; June 4.
- Clark, William F., Wollaston, Mass. Tire carrier. 1,629,478; May 24.
- Clarke, C. H., et al. (See Everts, Walter W., assignor.)
- Clarke, Charles M. (See Desmond, Joseph E., assignor.)
- Clarke, Charles M., E. Chick, near Bristol, England. Case-ment window. 1,635,537; July 12.
- Clarke, Charles W. E., New York, N. Y. Pulverized-fuel combustion system. 1,620,191; Mar. 8.
- Clarke, Charles W. E., New York, N. Y. Soot-blower connection. 1,624,927; Apr. 19.
- Clarke, Edgar W., Hamilton, Ontario, assignor to Mercury Mills, Limited, Hamilton, Canada. Knitting mechanism for knitting machines. 1,623,233; Apr. 6.
- Clarke, Edith, Schenectady, N. Y., assignor to General Electric Company. Electrical power transmission. 1,641,737; Sept. 6.
- Clarke, George I. (See Davis, C. C., and Clarke.)
- Clarke, George W., Oklahoma City, Okla. Well baller. 1,621,032; Mar. 22.
- Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing halogen substituted anhydrides of the fatty acids. 1,648,540; Nov. 8.
- Clarke, Ira M., New Martinsville, W. Va. Stand for floor lamps, smokers' stands, and the like. 1,613,382; Jan. 4.
- Clarke, James D. (See Cheney, G. M., and Clarke.)
- Clarke, John Q., Crawfordsville, Ind. Safety burial vault or casket. 1,637,471; Aug. 2.
- Clarke, John Q., Crawfordsville, Ind., assignor to W. W. Clarke, Nelson, Calif. Ventilated house. 1,651,341; Nov. 29.
- Clarke, Joseph P., San Francisco, Calif. Dental unit. 1,616,253; Feb. 1.
- Clarke, Joseph, San Francisco, Calif. Actuating device for door and window transoms. 1,641,738; Sept. 6.
- Clarke, Michael J., Baltimore, Md. Safety cock for gas appliances. 1,645,985; Oct. 18.
- Clarke-Moore Corporation. (See Moore, Arlington, assignor.)
- Clarke, Patrick J., assignor of one-half to M. Jaros, Chicago, Ill. Burglar guard. 1,643,293; Sept. 27.
- Clarke, Ralph A., assignor to Franklin Radio Company, St. Albans, Vt. Spring jack. 1,617,477; Feb. 15.
- Clarke, Ralph S., assignor to Bird Machine Company, South Walpole, Mass. Rotary screen for paper pulp. 1,635,258; July 12.
- Clarke, René, New York, N. Y., assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa., a firm composed of W. H. Margerison and A. E. Margerison. Towel. Des. 72,849; Apr. 5.
- Clarke, Robert E., Jerseyville, Ill. Tray. 1,630,889; May 31.
- Clarke, Thomas, Belfast, Ireland. Apparatus for controlling and regulating gas supply for certain purposes. 1,653,986; Dec. 27.
- Clarke, William E., Toronto, Ontario, Canada. Positive pressure blower and vacuum pump. 1,652,609; Dec. 13.
- Clarke, William W. (See Clarke, John Q., assignor.)
- Clarke, William W., assignor to D. R. Finkelstein, Winnipeg, Manitoba, Canada. Rack for dishwashing machines. 1,621,830; Mar. 22.
- Clarkson, Thomas, London, England. Steam generator or water heater. 1,637,680; Aug. 2.
- Clarkson, Thomas, London, England. Steam generator or water heater. 1,637,681; Aug. 2.
- Clarkson, Thomas, London, England. Steam generator. 1,637,682; Aug. 2.
- Clarkson, Thomas, London, England. Steam generator or water heater. 1,637,683; Aug. 2.
- Clarkson, William, Jr., Corsicana, Tex. Walking-beam mounting. 1,645,040; Oct. 11.
- Clarkson, William, Jr., Corsicana, Tex. Jack-post structure for oil-well rigs. 1,645,041; Oct. 11.
- Clarke, Louis, Paris, Penn. Plow. 1,651,673; Dec. 6.
- Clas, Angelo R., Toledo, Ohio, assignor to The Toledo Automotive Products Company. Window-regulating mechanism. 1,651,870; Dec. 6.
- Class, John F., Dayton, Ohio. Apparatus for applying vapors to the human body. 1,650,010; Nov. 22.
- Clauberg, Herman P., Jersey City, N. J., assignor, by mesne assignments, to R. Hoe & Co. Inc., New York, N. Y. Mechanism for counting and delivering folded products. 1,616,075; Feb. 1.
- Clauberg, Herman P., Hasbrouck Heights, N. J., assignor to R. Hoe & Co. Inc., New York, N. Y. Folding delivery. 1,626,600; May 3.
- Claude, Georges, Paris, France, assignor, by mesne assignments, to Lazote Inc. Separation of the constituents of gaseous mixtures such as those containing hydrogen. 1,620,192; Mar. 8.
- Claude, Georges, assignor to Societe L'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude), Paris, France. Manufacture of fertilizers. 1,621,311; Mar. 15.

- Claus, Carl, Plainfield, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Method of and apparatus for forming bodies by pressure. 1,624,904; Apr. 12.
- Claus, Carl, Plainfield, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Self-aligning bearing and making the same. 1,638,797; Aug. 9.
- Claus, Carl, Plainfield, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Method of and machine for forming bodies by pressure. 1,648,721; Nov. 8.
- Claus, Carl, Plainfield, N. J. Bearing material and making the same. 1,648,722; Nov. 8.
- Claus, Carl, Plainfield, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Antifriction bearing and forming the same. 1,654,500; Dec. 27.
- Claus, Emil L. and W. E. assignors to Milwaukee Gas Specialty Company, Milwaukee, Wis. Oven heat-control device. 1,623,576; Apr. 5.
- Claus, Walter E. (See Claus, Emil L. and W. E.)
- Clauser, William L., et al. (See Molony, S. B., and Ninkado, assignors.)
- Clausen, Carl H., assignor to Patentaktiebolaget Central Smörning, Solvesborg, Sweden. Forced-lubrication apparatus. 1,642,873; Sept. 20.
- Clausen, Carl H., assignor to Patentaktiebolaget Central Smörning, Solvesborg, Sweden. Driving device for forced-lubrication apparatus. 1,631,916; Dec. 6.
- Clausen, Hugh, Criekeewood, assignor to Western Electric Company, Incorporated, New York, N. Y. Electric switch. 1,624,391; Apr. 12.
- Clausen, Henry P., Mamaronck, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical coil. 1,642,488; Sept. 13.
- Clausen, Hugh, Criekeewood, assignor to Vickers Limited, Westminster, London, England. Electric step-by-step motor. 1,653,946; Dec. 27.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Last. 1,621,710; Mar. 22.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Last. 1,627,272; Mar. 3.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Golf tee. 1,637,551; Aug. 2.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Golf tee. 1,638,527; Aug. 9.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Last. 1,641,154; Sept. 6.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Golf tee. 1,641,155; Sept. 6.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Golf tee. 1,644,979; Oct. 11.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Golf tee. 1,644,980; Oct. 11.
- Clausing, George W., Chicago, Ill. Carrier support. 1,648,444; Nov. 8.
- Clauson, William, Dorchester, assignor to U. S. Specialty Company, Boston, Mass. Spraying apparatus. 1,640,111; Aug. 23.
- Clauss, George E., assignor to The Ansonia O & C Company, Ansonia, Conn. Elastic webbing. 1,644,667; Oct. 11.
- Clauss, George E., assignor to The Ansonia O & C Company, Ansonia, Conn. Elastic webbing. 1,644,816; Oct. 11.
- Clavier, Pierre, Tarbes, France. Hook for breast collars. 1,616,350; Feb. 1.
- Clawson, Monroe S., Upper Montclair, N. J. Electric abrasion process. 1,620,519; Mar. 8.
- Clawson, Monroe S., Montclair, N. J. Trousers hanger. 1,635,033; July 5.
- Clawson, Monroe S., Upper Montclair, N. J. Casting mold and making same. 1,653,344; Dec. 20.
- Clawson, William, San Francisco, Calif. Faring knife. 1,636,287; July 19.
- Clay-Adams Co. (See Hilborn, Lloyd T., assignor.)
- Clay Equipment Corporation. (See Obele, George, assignor.)
- Clay, Frank, assignor of five-sixths to J. Adler and one-sixth to E. C. Rodenmeyer, St. Louis, Mo. Mop wringer. 1,635,518; June 21.
- Clay, George W., Kingston, Pa. Sash-bar construction. 1,636,764; July 26.
- Clay, Harvey E., assignor to Wolverine Bumper and Specialty Co., Grand Rapids, Mich. Bumper for vehicles. 1,651,053; Nov. 29.
- Clay, Noble S., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Tip for propellers. 1,614,180; Jan. 11.
- Clay, Noble S., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wood-veneer propeller. 1,618,968; Mar. 1.
- Clay, Otis D., Canton, Ohio. Burial vault. 1,650,606; Nov. 29.
- Claybourn, John G. (See Tucker, Henry R., assignor.)
- Claybourn, Leslie W., Milwaukee, Wis. Inking mechanism for printing machinery. 1,627,483; May 3.
- Clayden, Arthur L., Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for lubricating internal-combustion engines. 1,628,117; May 10.
- Claypoole, Albert, assignor to Willamette Iron & Steel Works, Portland, Ore. Geared locomotive. 1,622,765; Mar. 29.
- Claypoole, Curtis M., and A. J. Eschenbaugh, Butler, Pa. Casing coupler. 1,645,042; Oct. 11.
- Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Looper-actuating advertising device. 1,653,696; Dec. 27.
- Clayton, Glen Compress Company. (See Mackenzie, Alexander S., assignor.)
- Clayton, John C. L., Galveston, Tex. Box-ld holder and mechanisms for sewing machines. 1,641,135; Aug. 30.
- Clayton-Kennedy, Kenneth E., New York, N. Y., assignor to American Hydrocarbon Co., Inc. Apparatus for extracting volatile matter. 1,647,273; Nov. 1.
- Clayton & Lambert Manufacturing Company. (See Groehn, O. J., and Blaskewitz, assignors.)
- Clayton, William F., Huntsville, assignor of one-third to W. E. James, Cullman, and one-third to N. E. James, Birmingham, Ala. Check for looms. 1,649,446; Nov. 15.
- Clayton, William G., St. Kilda, near Melbourne, Victoria, Australia. Spark plug. 1,628,825; May 17.
- Cleage, Thomas D., St. Louis, Mo., W. S. Smith and J. R. Murray, Tulsa, Okla. Pump. 1,630,256; May 31.
- Clear, Victor P., New York, N. Y. Liquid-level indicator. 1,614,776; Jan. 18.
- Cleary, Richard, Binghamton, N. Y. Vegetable and fruit slicer. 1,614,282; Jan. 11.
- Cleary, William F., Hawthorne, N. J., and W. J. Wagener, New York, N. Y. Electrical heater for the air-supply pipes of carburetors. 1,624,216; Apr. 12.
- Cleary, William R., Philadelphia, Pa. Steam chamber for tank cars. 1,614,107; Jan. 11.
- Cleaver, George, Casewille, Mich. Floating fish trap. 1,614,600; Jan. 18.
- Cleaves, William S., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Box-making machine. 1,631,518; June 7.
- Clegg, Edwin B., La Fayette, Ind. Roller-shade bracket. 1,637,763; Aug. 2.
- Clegg, William F. (See Olsen, Oliver S., assignor.)
- Clegg, William H., Montreal, Quebec, Canada, assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Blow-off coupler. 1,613,742; Jan. 11.
- Cleland, Andrew V., Minneapolis, Minn. Flax-testing machine. 1,639,926; Aug. 23.
- Cleland, Andrew V., Minneapolis, Minn. Grain-testing machine. 1,649,020; Nov. 15.
- Cleland, Melvin L., assignor to G. A. Roth Manufacturing Company, Hastings, Nebr. Luggage carrier. 1,622,308; Mar. 28.
- Clement, John D., Burlington, Ontario, Canada, assignor of one-half to G. C. Atkins, village of Broute, Ontario, Canada. Stapling device. 1,644,176; Oct. 4.
- Clemence, Magnien, Coffeyville, Kans. Method of and apparatus for waving hair. 1,637,605; Aug. 2.
- Clemencet, Louis E., Paris, France. Wire-stretching device. 1,643,199; Sept. 20.
- Clemens, Carl J. (See Sgrin, O. E., and Clemens.)
- Clement, Alvah W., East Cleveland, Ohio, assignor, by mesne assignments, to Ludlum Steel Co., Watervliet, N. Y. Titanium alloy. 1,621,523; Mar. 22.
- Clement, Benjamin C., Elwood, Wis. Mop holder. 1,633,442; Jan. 4.
- Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Automatic pintle hook. 1,635,659; July 12.
- Clement, Edward E. (See Hoge, J. B., and Clement.)
- Clement, Edward E. (See Lowenstein, H. F., and Clement.)
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio distributing system. 1,635,151; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio broadcast selecting and distributing system. 1,635,152; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Subdivided service system of radio broadcast distribution. 1,635,153; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio service metering system. 1,635,154; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio service metering system. 1,635,155; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio broadcast distributing system. 1,635,156; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio broadcast distributing system. 1,635,157; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio broadcast distributing system. 1,635,158; July 5.
- Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Polyphase broadcast distribution. 1,652,092; Dec. 6.
- Clement, George A., Mount Vernon, N. Y. Marking fused bifocal lenses for identification. 1,627,148; Mar. 3.
- Clement, Hans, New York, N. Y., assignor to General Optical Co., Inc. Optical diagnostic instrument. 1,626,601; May 3.
- Clement, Hans, New York, and G. S. Dey, Mount Vernon, N. Y., assignor to General Optical Company. Ophthalmological apparatus. 1,625,075; Apr. 10.
- Clement, John S., Company. (See Millholland, James H., assignor.)
- Clement, Lewis M. (See Williams, S. B., and Clement.)

- Clement, Lewis M., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency signaling system. 1,624,473; Apr. 12.
- Clement, Louis, and C. Riviere, Pantin, France, assignors of one-half to Courtaulds Limited, London, England. Manufacture and production of threads, filaments, strips, or films from cellulose esters. 1,634,980; July 6.
- Clement, Philip E., Manchester, N. H. Combination tail light and illuminated license plate. 1,621,351; Mar. 15.
- Clementi, Charles L., and E. W. Hildebrandt, assignors to The Auto Roller Awning Manufacturing Company, Pueblo, Colo., assignor. 1,630,418; Mar. 31.
- Clements, Elmer R., Riverton, Nebr. Hog oiler. 1,636,624; July 19.
- Clements, Everett G. (See Rothschild, L., and Clements.)
- Clements, Wellington L., Norfolk, Va. Combined ash and dust pan. 1,629,336; May 17.
- Clements, Wellington L., Norfolk, Va. Combined glare, wind, rain, and insect shield for automobiles. 1,631,010; May 31.
- Clementson, Nils E., Chicago, Ill. Building block and wall. 1,622,369; Mar. 29.
- Clemmenssen, Peter C., assignor of one-third to G. G. Jeck, Atlantic, Iowa. Chicken brooder and hover. 1,637,036; July 26.
- Clemons, John G., Denver, Colo. House number and porch light. 1,642,044; Sept. 13.
- Clemon, George W., Piermont, N. Y., assignor to International Combustion Engineering Corporation. Pulverized-fuel-burning locomotive. 1,650,691; Nov. 29.
- Cléret, Albert, Paris, France. Signaling apparatus for road traffic. 1,637,684; Aug. 2.
- Clerico, Dominick, Yonkers, N. Y. Valve-spring lifter. 1,641,998; June 6.
- Clemonat Machine Co. (See Surlico, Carmine, assignor.)
- Cleveland-Akron Bag Company, The. (See Appel, Daniel, assignor.)
- Cleveland Brass Manufacturing Company, The. (See Costello, Joseph A., assignor.)
- Cleveland Co-Operative Stove Company, The. (See Dupuy, John W., assignor.)
- Cleveland Crane and Engineering Company, The. (See Bennington, Earl T., assignor.)
- Cleveland Crane & Engineering Company. (See Wehr, William G., assignor.)
- Cleveland, Edgar W., Holland, Mich. Furnace-radiator-fue cleaner. 1,635,810; July 12.
- Cleveland Fare Box Company, The. (See McElligott, Michael C., assignor.)
- Cleveland Folding Machine Company. (See Campbell, Thomas D., assignor.)
- Cleveland Folding Machine Company, The. (See Dalton, Raymond S., assignor.)
- Cleveland Folding Machine Company, The. (See Olson, Andrew, assignor.)
- Cleveland Folding Machine Company, The. (See Shipley, John H., assignor.)
- Cleveland Folding Machine Company, The. (See Tufts, Lesley R., assignor.)
- Cleveland Gas Burner & Appliance Company. (See Kerr, Harry E., assignor.)
- Cleveland, George B., Mobile, Ala. Bookcase. 1,631,622; June 7.
- Cleveland, George B., Mobile, Ala. Signboard. 1,639,129; Aug. 16.
- Cleveland, George C., Cleveland, Ohio. Track detector. 1,633,572; June 28.
- Cleveland Graphite Bronze Company, The. (See Dann, Ernest G., assignor.)
- Cleveland Graphite Bronze Company, The. (See Hopkins, Benjamin F., assignor.)
- Cleveland, Harry S., Minneapolis, Minn. Refrigerator. 1,622,768; Mar. 29.
- Cleveland Railway Supply Company, The. (See Blum, Harold P., assignor.)
- Cleveland Rock Drill Company, The. (See Nell, G. M., and Kale, assignors.)
- Cleveland Stone Company, The. (See Ballash, Joseph L., assignor.)
- Cleveland Tractor Company, The. (See Heaslet, James E., assignor.)
- Cleveland Tractor Company, The. (See Jones, George D., assignor.)
- Cleveland Trust Company, The. (See Bewsick, William, assignor.)
- Cleveland Trust Company, The. (See De Voe, Albert H., assignor.)
- Cleveland Trust Company, The. (See Dorn, Harry P., assignor.)
- Cleveland Trust Company, trustee. (See Hazlett, Clarence W., assignor.)
- Cleveland Trust Company, trustee, The. (See Kaehni, Frank J. and W. L., assignors.)
- Cleveland Trust Company, The. (See McCaughey, William J., assignor.)
- Cleveland Trust Company, trustee, The. (See Pearson, Carl E., assignor.)
- Cleveland Universal Parts Company, The. (See Laughlin, Samuel L., assignor.)
- Cleveland, William, et al. (See McCarthy, Joseph P., assignor.)
- Cleveland, William H., and C. W. Bothe, Wellington, Kans. Retracting sectional running board. 1,621,479; Mar. 15.
- Cleveland Worm and Gear Company, The. (See Acker, George H., assignor.)
- Cleveland Worm and Gear Company, The. (See Anderson, Russell G., assignor.)
- Cleversly, Edwin G., London, England. Fixing for rods, poles, and the like. 1,624,392; Apr. 12.
- Clewelly, John H., Jr., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Actinimproof cellulose ester composition. 1,647,435; Nov. 1.
- Cliffe, Eliza T. S., Mansfield, Ohio. Combined toothbrush and paste holder. 1,653,987; Dec. 27.
- Clifford Corporation, The. (See Clifford, Walter B., assignor.)
- Clifford, Walter B., Kimball, W. Va., assignor to The Clifford Corporation, Boston, Mass. Apparatus for breaking down ore bodies. 1,630,470; May 31.
- Clifford, Walter B., Framingham, assignor to The Clifford Corporation, Boston, Mass. Material-handling apparatus. 1,651,253; Nov. 29.
- Clifford, Wiley C., Rochester, N. Y. Tool container. 1,632,172; June 14.
- Clift, James A., assignor of one-half to W. R. Bishop, Springfield, Mo. Angle cock. 1,616,351; Feb. 1.
- Clifton, Francis R., Omaha, Nebr. Awning-rod clamp. 1,633,436; June 21.
- Climax Engineering Co. (See Alexander, R. L., and Wishart, assignors.)
- Climax Engineering Co. (See Alexander, R. L., Wishart, and Waters, assignors.)
- Climax Engineering Company. (See Exten, Rudolph P., assignor.)
- Climax Engineering Co. (See McCallum, James R., assignor.)
- Climax Engineering Company. (See Waters, Harry H., assignor.)
- Climax Engineering Co. (See Wishart, Harold W. and W., assignors.)
- Climax Engineering Company. (See Wishart, William, assignor.)
- Clinic, William, Mossend, Lanarkshire, Scotland. Gas producer. 1,650,187; Nov. 22.
- Clinie, William, Toronto, Ontario, Canada. Gas producer. 1,650,188; Nov. 22.
- Cline, Allan J., Chicago, and J. A. Hollander, Forest Park, assignors to Cline Electric Manufacturing Company, Chicago, Ill. Web-tension equipment for printing presses. 1,618,975; Mar. 1.
- Cline, Allan J., Chicago, and J. A. Hollander, Forest Park, assignors to Cline Electric Manufacturing Company, Chicago, Ill. Fluid-pressure web controller for printing presses. 1,636,987; July 26.
- Cline, Allan J., Chicago, and J. A. Hollander, Forest Park, assignors to Cline Electric Manufacturing Company, Chicago, Ill. Solenoid web controller for printing presses. 1,636,988; July 26.
- Cline, Daniel L., Medford, Okla. Mercantile credit form. 1,637,985; Aug. 2.
- Cline, Delbert E. (See Coffin, C. G., and Wolf, assignors.)
- Cline Electric Manufacturing Company. (See Cline, A., and Hollander, assignors.)
- Cline, Sanford E., Greensburg, Ind. Lawn-mower sharpener. 1,621,524; Mar. 22.
- Clinton, Harry D., Johnson City, N. Y. Warping yarn. 1,639,927; Aug. 23.
- Clinton, John, Memphis, Tenn. Faucet. 1,642,101; Sept. 18.
- Clippert, Belt Lacer Company. (See Diamond, James K., assignor.)
- Clipperton, John H., Windom, Minn. Grass and weed destroyer. 1,624,474; Apr. 12.
- Clisson, Albert B., Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc. Ironing press. 1,613,818; Jan. 11.
- Clisson, Albert B., assignor, by mesne assignments, to The Prosperity Company, Inc. Syracuse, N. Y. Pressing machine. 1,629,091; May 17.
- Clisson, Albert B., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Spring-pad construction. 1,630,655; May 31.
- Clisson, Albert B., assignor by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Triple tandem-pressing-machine mechanism. 1,632,463; June 14.
- Clisson, Albert B., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pressing-machine mechanism. 1,639,427; Aug. 16.
- Clizbe, Adelbert R., Plymouth, Ind. Oil burner. 1,621,063; Mar. 15.
- Clofelter, Mayo, Detroit, Mich. Motor-operated saw. 1,627,552; Mar. 10.
- Cloer, Walter J., Young Harris, Ga., assignor of one-half to W. M. Fain, Murphy, N. C. Plow. 1,632,388; June 14.
- Clokey, Allison A., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,616,607; Feb. 8.
- Clokey, Allison A., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph system. 1,624,393; Apr. 12.
- Cloos, George. (See Plein, A., and Hoffmann, assignor.)
- Close, Lyman W., assignor to The Toledo Pressed Steel Company, Toledo, Ohio. 1,613,819; Jan. 11.
- Closure Service Company, The. (See Carvalho, Leslie R., assignor.)
- Clothier, Henry W. (See Anderson, W., and Clothier.)

- Cloud, Harry D., and C. Bitterman, Lexington, Ky. Metal awning. 1,615,214; Jan. 25.
- Cloud, Harry D., and C. Bitterman, Lexington, Ky. Metal awning. 1,648,334; Nov. 8.
- Cloud, William S., Berkeley, Calif. Process and apparatus for making confections. Re16,712; Aug. 23.
- Clough, Newsome H., London, England, assignor to Radio Corporation of America. Wireless installation on vehicles such as automobiles. 1,649,510; Nov. 15.
- Cloughley, Robert H., Kansas City, Mo. Controlled headlight. 1,642,919; Sept. 20.
- Closure, H. S. (See Fenner, Miner E., assignor.)
- Closure, William L., assignor to The National Machinery Co., Tiffin, Ohio. Wire-bending machine. 1,639,397; Aug. 16.
- Clove, George R., Detroit, Mich., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Method of and apparatus for applying and treating varnish. 1,646,010; Oct. 18.
- Clover, John R., Enid, Okla. Garment tray for ironing boards. 1,630,925; May 31.
- Clow, Harry L. (See Clow, Henry B. and H. L.)
- Clow, Henry B. and H. L., Lakeport, N. H. Making yarn and the like. 1,637,139; July 26.
- Clow, James B., & Sons. (See Beatty, William H., assignor.)
- Clow, James B., & Sons. (See Clow, William E., assignor.)
- Clow, James B., & Sons. (See Wernle, Karl A., assignor.)
- Clow, Robert. (See Buckles, E. C., Henri, and Clow.)
- Crow, Samuel C. (See Winter, August P., assignor.)
- Crow, William E., assignor to James B. Clow & Sons, Chicago, Ill. Casting machine. 1,616,112; Feb. 1.
- Croward, Charles E., Jr., Payson, Utah. Poultry-feeding device. 1,630,831; May 31.
- Croward, Elmer R., Payson, Utah. Plural-filament electric bulb. 1,636,460; July 19.
- Cluett, Peabody & Co. (See Connolly, Charles M., assignor.)
- Cluett, Peabody & Co. (See Cook, Orville E., assignor.)
- Clune, Stephen J., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,641,156; Sept. 6.
- Clum Manufacturing Company. (See Winning, Robert K., assignor.)
- Clune, J. W., Co. (See Lowe, Edward L., assignor.)
- Clutts, Joshua K., Detroit, Mich. Cupola-charging car. 1,633,693; July 28.
- Clyde Iron Works. (See McGiffert, John R., assignor.)
- Clyde Iron Works. (See Ramsey, Robert P., assignor.)
- Clyde, Stephen V., South Boundbrook, N. J. Sunken-signal buoy. 1,615,108; Jan. 18.
- Clymer Manufacturing Company, The. (See Anderson, Martin E., assignor.)
- Clyne, Robert G., St. Louis, Mo. Combined pen clip and pocket check protector. 1,644,668; Oct. 11.
- Clyne, Robert G., and G. B. Williams, Alton, assignors to Western Cartridge Company, East Alton, Ill. Cartridge-magazine loader. 1,650,263; Nov. 22.
- Clossen, Andrew J., Newburyport, Mass. Belt-shifting mechanism. 1,651,254; Nov. 29.
- Cond, William H., Nowata, Okla. Antiskid chain for tires. 1,620,076; Mar. 8.
- Conde, Robert J., assignor of one-half to H. Kimber, Los Angeles, Calif. Auxiliary cooler for radiators. 1,637,102; July 26.
- Condit Culvert & Flume Co. (See Pearce, William H., assignor.)
- Const, John W., Jr., Tulsa, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Apparatus for distilling oil. 1,639,327; Aug. 16.
- Coatalen, Louis, Wolverhampton, England. Valve-operating mechanism. 1,622,492; Mar. 29.
- Coatalen, Louis, and S. H. Attwood, Wolverhampton, England. Mechanism for varying the angular relationship of two shafts relatively to a third. 1,622,491; Mar. 29.
- Coates, Erwin F., St. Paul, Minn. Collar button. 1,619,706; Mar. 1.
- Coates, Frank, Cleadon, and J. Mirrey, East Boldon, assignors to A. Revyolle & Company, Limited, Hebburn, Tyne, England. Oil-immersed electric switch. 1,626,513; Apr. 26.
- Coates, Frederick, Cincinnati, Ohio. Nail. 1,620,193; Mar. 8.
- Coates, John W., Detroit, Mich. Truck. 1,636,172; July 19.
- Coates, Ray G., Pasadena, Calif., assignor, by mesne assignments, of one-half to the estate of H. G. Hamilton, deceased, Youngstown, Ohio. Finishing castings such as ingot molds. 1,635,660; July 12.
- Contes, Spencer D., P. H. Davis, and A. B. Jenks, Santa Fe Springs, Calif. Cementing bailer. 1,621,970; Mar. 22.
- Coates, William, Newark, N. J. Water heater. 1,630,890; May 31.
- Coates, William A., Chorlton-cum-Hardy, and D. R. Davies, Stretford, England, assignors to Westinghouse Electric and Manufacturing Company. Electrical switch gear. 1,638,919; Aug. 16.
- Coates, William A., Chorlton-cum-Hardy, G. E. Gittins and D. R. Davies, Stretford, Manchester, England, assignors to Westinghouse Electric and Manufacturing Company. Electric switch. 1,630,372; May 31.
- Coaton, Arthur A., Springs, South Africa. Rock-drill bit. 1,650,492; Nov. 22.
- Coats, George A. (See Daly, J. F., Coats, and Lutz.)
- Coats, Henry B. (See Holmes, A. W., Jaques, and Coats.)
- Coats, J. & P., Limited. (See Sutton, William H., assignor.)
- Coats, John A., Remer, Minn. Auxiliary lens for eyeglasses. 1,614,827; Jan. 18.
- Coatsworth, Frank E., Lincoln, Nebr. Incubator tray. 1,625,394; Apr. 26.
- Cobb, C. L., et al. (See Neil, Joseph B., assignor.)
- Cobb, Charles, Jr., Marshall, Tex. Brake shoe. 1,638,759; Aug. 9.
- Cobb, Charles H., San Francisco, Calif. Radiator hanger. 1,634,981; July 5.
- Cobb, Charles H., Newton, assignor, by mesne assignments, to Service Bureau, Inc., Cambridge, Mass. Index card. 1,625,934; Apr. 26.
- Cobb, Chrystal, and C. C. Marshall, Akron, Ohio. Speed and direction indicator. 1,632,643; June 14.
- Cobb, Edward S., Los Angeles, Calif. Temperature-regulating device for orchards. 1,639,267; Aug. 16.
- Cobb, Ernest B., Jersey City, N. J., assignor to Standard Development Company. Manufacture of refined oils. 1,616,352; Feb. 1.
- Cobb, Ernest B., Jersey City, N. J., assignor to Standard Development Company. Manufacture of refined oils. 1,616,353; Feb. 1.
- Cobb, Jesse, Laredo, Tex. Folding crate. 1,652,887; Dec. 13.
- Cobb, Lins, Hammond, assignor to Graver Corporation, East Chicago, Ind. Filtering tank. 1,615,071; Jan. 15.
- Cobb, William J., Mokameh, assignor of one-half to H. W. McGuire, Bengal, British India. Load-indicating mechanism. 1,620,442; Mar. 8.
- Coberly, Clarence J., Los Angeles, Calif., assignor to Purox Company, Denver, Colo. Pressure regulator. 1,613,743; Jan. 11.
- Coberly, Clarence J., assignor to Kobe, Inc., Los Angeles, Calif. Strainer. 1,629,018; May 17.
- Coberly, Clarence J., assignor to Kobe, Inc., Los Angeles, Calif. Turret tip for torches. 1,639,328; Aug. 16.
- Coberly, Clarence J., assignor to Kobe, Incorporated, Los Angeles, Calif. Producing screen pipe. 1,654,160; Dec. 27.
- Cobiella y Vasconcelos, Poemia, Habana, Cuba. Drawing instrument. 1,613,221; Jan. 4.
- Coble, David C., York, Pa., assignor to American Foundry Equipment Company, New York, N. Y. Molding flask. 1,616,177; Feb. 1.
- Coble, Ray C., assignor to A. H. Heisey & Company, Newark, Ohio. Flower block. Des. 73,280; Aug. 23.
- Coblentz, William W., Washington, D. C. Optical means for generating, amplifying, and controlling electric currents. 1,640,393; Aug. 30.
- Coblentz, William W., Washington, D. C., assignor to Secretary of Commerce of the United States as trustee for the Government of the United States and the People of the United States. Eye-protective glass. 1,637,439; Aug. 8.
- Coburn, John M., Shinnston, W. Va., assignor of twenty one-hundredths to J. Thels, ten per cent to D. Caruso, and ten per cent to J. Caruso, Baltimore, Md. Railway gate. 1,616,887; Feb. 8.
- Coburn, Claud W., Rapid City, S. Dak. Combination tool. 1,650,493; Nov. 22.
- Coburn, James M., and B. Knapp, assignors to Plane Speaker Corporation, Kansas City, Mo. Utilizing fabric of aircraft as diaphragm for loud speakers. 1,628,230; May 10.
- Cochran, Albert W., Portland, Oreg. Forming cutting tools. 1,631,623; June 7.
- Cochran, Charles C., Los Angeles, Calif. Mixing valve. 1,614,437; Jan. 11.
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. 1,628,389; May 10.
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Elevating platform truck. 1,628,390; May 10.
- Cochran, Joseph B., Stockton, Calif. Sales-indicating container. 1,638,813; Aug. 9.
- Cochrane, Charles H., Chicago, Ill. Platen printing press. 1,642,841; Sept. 20.
- Cochrane Corporation. (See Gibson, George H., assignor.)
- Cochrane Corporation. (See Gibson, G. H., and Yoder, assignors.)
- Cochran, Joseph T., et al. (See Ditzler, Guy E., assignor.)
- Cochrane, Robert L., Chicago, Ill. Rail anchor. 1,628,231; May 10.
- Cochrane, Victor H., Tulsa, Okla. Sewer construction. 1,638,473; Aug. 9.
- Cochrane, William E., Baltimore, Md., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., Nickel-copper alloy and making same. 1,614,878; Jan. 18.
- Cockburn, Francis B. (See Bird, E. S., and Cockburn.)
- Cockburn, Francis B., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Tailstock with tool slide. 1,613,161; Jan. 4.
- Cockburn, Francis B., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Universal follow rest. 1,622,822; Mar. 29.

- Cocker, John A., Joliet, Ill., assignor to The American Steel and Wire Company of New Jersey. Fence-making machine. 1,638,528; Aug. 9.
- Cockerell, W. G. (See Kendall, George M., assignor.)
- Cocking, Richard, Waltham, Mass. Textile fabric. Des. 72,955; July 5.
- Cocking, Richard, Waltham, Mass. Textile fabric. Des. 72,956; July 5.
- Cocking, Richard, Waltham, Mass. Textile fabric. Des. 72,987; July 5.
- Cocks, Harry J., Des Moines, Iowa. Fender brace. 1,624,860; Apr. 12.
- Coda, Harry J., assignor to Metal Products Company, Des Moines, Iowa. Coil-winding form. 1,640,821; Aug. 30.
- Cocozella, Anthony, jr. (See Cocozella, Anthony and A., jr.)
- Cocozella, Anthony and A., jr., Lynn, Mass. Finishing machine for boots and shoes. 1,620,721; Mar. 15.
- Cocroft, Susanna, New York, N. Y. Face lifter. 1,612,801; Jan. 4.
- Cocroft, Susanna, New York, N. Y. Massage appliance. 1,618,059; Feb. 15.
- Code, Samuel M., Chicago, Ill. Amphibious vehicle. 1,646,611; Oct. 25.
- Coder, Joseph and L., St.-Marcelles-Marseille, France. Coupling means between motor tractors and their trailers. 1,626,184; Apr. 26.
- Coder, Joseph and L., St.-Marcelles-Marseille, France. Tractor trailer of the type carried on two wheels. 1,626,185; Apr. 26.
- Coder, Louis. (See Coder, Joseph and L.)
- Codina, Peter, assignor to Illinois Cork Co., Chicago, Ill. Capped swab or dauber. 1,618,977; Mar. 1.
- Codling, William R. (See Bridges, F., Firman, Tisdale, and Hoskins, assignors.)
- Cody, Martin M., Chicago, Ill., assignor to Crane Packing Company. Manufacture of metallic packing. 1,642,431; Sept. 13.
- Cody, Martin M., Chicago, Ill., assignor to Crane Packing Company. Packing and packing-forming machine. 1,646,992; Oct. 25.
- Coe, Edward D., Kilbourne, Wis., assignor to C. G. Conn, Ltd., Elkhardt, Ind. Trombone attachment. 1,647,102; Oct. 25.
- Coe, Harrison S., Lawrence, Kans. Classifier. 1,633,371; June 21.
- Coe, Harrison S., Palo Alto, Calif. Thickener. 1,650,820; Nov. 29.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Rolling mill. 1,614,422; Jan. 11.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Rolling mill. 1,614,423; Jan. 11.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Rolling mill. 1,614,424; Jan. 11.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Rolling mill. 1,614,425; Jan. 11.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Electric furnace. 1,615,109; Jan. 18.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Annealing or heating furnace. 1,630,784; May 31.
- Coe, John E., Jamestown, N. Y. Ratchet wrench. 1,630,078; Aug. 16.
- Coe, John P. (See Hopkinson, E., and Coe.)
- Coe, Leonard F., Verdade, Wash. Flying machine. 1,624,475; Apr. 12.
- Coe Manufacturing Company, The. (See Vance, Arthur J., assignor.)
- Coe, Samuel, Jersey City, N. J. Striping machine. 1,623,577; Apr. 5.
- Coene, Gaston E. (See Scheluto, J., and Furnemont, assignors.)
- Coerper, Henry J., Indianapolis, Ind. Rail joint. 1,613,870; Jan. 11.
- Coerper, Henry J., Indianapolis, Ind. Railway rail and plate. 1,653,001; Dec. 26.
- Cofan, Lemel, Milwaukee, Wis. Display stand. 1,632,820; June 21.
- Coffed, Earl J., Depew, N. Y. Trestle or sawhorse. 1,648,638; Nov. 8.
- Coffey, Arvin L., Anson, Tex. Trailer hitch for automobiles. 1,650,189; Nov. 22.
- Coffey, Barton H., Elizabeth, N. J., and G. S. Dauphinee, New York, N. Y. Spray nozzle. 1,639,685; Aug. 23.
- Coffey, Edward L. (See Keays, R. J., and Coffey.)
- Coffey, John J., assignor to Bethlehem Steel Company, Bethlehem, Pa. Milling machine. 1,619,057; Mar. 1.
- Coffey, Joseph M., Schenectady, assignor to Mica Insulator Company, New York, N. Y. Mica-plate composition. 1,645,415; Oct. 11.
- Coffey, Robert J., Oakland, Calif. Sprayer. 1,641,023; Aug. 30.
- Coffey, Sylvester V., Hixon, Tenn., assignor, by mesne assignments, to Easton Car & Construction Company, Easton, Pa. Operating means for couplers. 1,614,654; Jan. 18.
- Coffield, Charles W., Bowie, Tex. Game ball. 1,622,421; Mar. 29.
- Coffield, James L., Dayton, Ohio. Clutch mechanism for washing machines. 1,648,675; Nov. 8.
- Coffield Washer Company of Canada Limited. (See Kemp, C. T., and Ryckman, assignors.)
- Coffin, Carl L., Kansas City, Mo. Anatomical mounting for articulators. 1,614,828; Jan. 18.
- Coffin, Charlie G., and J. A. Wolf, assignors of one-third to D. E. Cline, Elgin, Okla. Plug for lubricant inlets. 1,627,373; May 3.
- Coffin, Joel S., jr. (See Schellens, E. L., and Coffin.)
- Coffin, Joseph G., Hempstead, N. Y., assignor to Morgan & Wright, Detroit, Mich. Tire-testing apparatus. 1,638,111; Aug. 9.
- Coffman, Samuel M., Kansas City, and W. M. Elder, Brainerd, Mo. Trap. 1,620,950; Mar. 15.
- Coffman, William P. (See Anglemeyer, C. M., and Coffman.)
- Coffin, Austin B., Green Bay, Wis. Method and apparatus for making paper. 1,623,526; Apr. 5.
- Coffin, Austin B., Green Bay, Wis. Method of and apparatus for creping paper. 1,641,739; Sept. 6.
- Coger, Albert C., Dunbar, Nebr. Posthole auger. 1,642,647; Sept. 13.
- Cogery, Henri E. D., and C. F. B. G. Bertrand, Paris, France. Loose-leaf binder. 1,640,646; Aug. 30.
- Coggeshall, George W., and A. Reilly, assignors to The Jefferson Construction and Oil Treating Company, Washington, D. C. Separating oily emulsions. 1,643,698; Sept. 27.
- Coggeshall, George W., and A. Reilly, assignors to The Jefferson Construction and Oil Treating Company, Washington, D. C. Treating emulsions. 1,643,699; Sept. 27.
- Coggeshall, Thelwell C., Germantown, assignor to J. S. Timmons Inc., Philadelphia, Pa. Intercommunication system. 1,647,606; Nov. 1.
- Cogins, Shirley M., San Francisco, Calif. Adjustable-leg chair. 1,614,387; Jan. 11.
- Coghill, Charles W., Fairbury, assignor of one-half to C. H. Wells, Endicott, Nebr. Animal trap. 1,618,513; Feb. 22.
- Coghill, Henry H., assignor of one-half to J. P. Boone, Richmond, Va. Line trip or slug guide. 1,616,888; Feb. 8.
- Coghlan, B. J., Company Limited. (See Picard, Georges, assignor.)
- Coglan, Victor D., Calgary, Alberta, Canada. Electrical insect destroyer. 1,648,723; Nov. 8.
- Coglan, Victor D., Calgary, Alberta, Canada. Electrical insect destroyer. 1,651,999; Dec. 6.
- Cogsdill Manufacturing Company. (See Cogsdill, Stuart A., assignor.)
- Cogsdill, Stuart A., assignor to Cogsdill Manufacturing Company, Detroit, Mich. Machine tool. 1,630,526; May 31.
- Cogshall, Wilbur A., Bloomington, Ind. Sextant. 1,651,014; Nov. 29.
- Cogswell, Lloyd B., West Springfield, Mass. Radio apparatus. 1,634,895; July 5.
- Cohen, Newton, Portland, Oreg. Adjustable mail chute. 1,640,981; Aug. 30.
- Cohen, Benjamin. (See Corbett, James, assignor.)
- Cohen, David, Brooklyn, N. Y. Liquid measuring and dispensing apparatus. 1,645,475; Oct. 11.
- Cohen, Edouard, Brussels, Belgium. Making files. 1,645,895; Oct. 18.
- Cohen, Edouard, Liverpool, England. Playing cards. 1,629,256; May 17.
- Cohen, George, New York, N. Y. Hand lantern. 1,641,880; Sept. 6.
- Cohen, H. P. (See Hammond, Frederick, assignor.)
- Cohen, Harry, New York, N. Y. Undergarment. 1,616,440; Feb. 8.
- Cohen, Herbert J., Chicago, Ill. Signal switch. 1,617,376; Feb. 15.
- Cohen, Irving H., assignor of one-half to I. D. Groak, Chicago, Ill. Lighting device. 1,632,173; June 14.
- Cohen, Jacob. (See Connell, A. J., and Cohen.)
- Cohen, Joseph E. (See Feeney, T. L., and Godoy, assignors.)
- Cohen, Joseph H., Bridgeport, Conn. Cigar lighter. Des. 72,935; June 28.
- Cohen, Joseph H., Bridgeport, Conn. Electrical device and the manufacture thereof. 1,639,258; Aug. 16.
- Cohen, Leon, St. Louis, Mo. Hat-size reducer. 1,643,004; Sept. 20.
- Cohen, Leon, St. Louis, Mo. Hat-size reducing pad. 1,645,583; Oct. 18.
- Cohen, Leon, St. Louis, Mo. Combined hat lining and size reducer. 1,651,015; Nov. 29.
- Cohen, Louis. (See Squier, G. O., Mauborgne, and Cohen.)
- Cohen, Louis L., Chicago, Ill., and F. F. Small, South Pasadena, Calif. Unit power truck. 1,618,171; Feb. 22.
- Cohen, Monte, and E. F. Steenman, assignors to Standard Radio Corporation, Worcester, Mass. Vacuum-tube socket. 1,648,797; Nov. 8.
- Cohen, Sam, Machine Corporation. (See Clark, Robert G., assignor.)
- Cohen, Samuel H., assignor, by mesne assignments, to Jerry-J. Inc., Los Angeles, Calif. Attachment for sweaters and the like. 1,639,928; Aug. 23.
- Cohn, Alan A., New York, N. Y. Self-igniter. 1,613,311; Jan. 4.
- Cohn, Harry, et al. (See Hurewitz, Joseph, assignor.)
- Cohn, Henryk, and C. Siebert, Berlin, Germany. Producing a colloidal silver-tannin-albumen combination soluble in water. 1,653,087; Dec. 20.
- Cohn, Herman, assignor to W. Greisch, New York, N. Y. Musical-instrument strip. 1,617,102; Feb. 8.

- Cohn, Irwin, assignor to Irwin & Company, Inc., New York, N. Y. Toy rattle. 1,617,835; Feb. 15.
- Cohn, Irwin, assignor to Irwin & Company, Inc., New York, N. Y. Toy trumpet. 1,623,168; Apr. 5.
- Cohn, Irwin, assignor to Irwin & Company, Inc., New York, N. Y. Celluloid toy water pistol. 1,629,019; May 17.
- Cohn, Irwin E., New York, N. Y. Whistle pinwheel. 1,613,982; Jan. 11.
- Cohn, Irwin E., New York, N. Y. Air-operated toy. 1,647,902; Nov. 1.
- Cohn, Jacob, New York, N. Y., assignor, by mesne assignments, to Nonexplosive Corporation of America (New Corporation). Safety attachment for tanks. 1,626,721; May 3.
- Cohn, Louis N., Rock Island, Ill., assignor to Gleam Manufacturing Co., Davenport, Iowa. Cleaning composition and spot remover. 1,640,531; Aug. 30.
- Cohn, Samuel, New York, N. Y. Machine for stretching, drying, and winding up tubular fabric. 1,636,683; July 26.
- Cohoe, Wallace P., Riverdale-on-the-Hudson, N. Y., assignor to Wallace P. Cohoe & Co. Inc. Novel closure cap. 1,615,504; Jan. 25.
- Cohoe, Wallace P., & Co. Inc. (See Cohoe, Wallace P., assignor.)
- Coll, Otto, Fayette County, Ohio. Posthole digger. 1,622,704; Mar. 29.
- Cokefader, Francis A., Seattle, Wash. Curtain holdback. 1,615,215; Jan. 25.
- Coldair Company, The. (See Newdick, Norton A., assignor.)
- Colbert, Charles C., and G. E. Preston, assignors to American Coating Mills, Elkhart, Ind. Coated paper board. 1,624,091; Apr. 12.
- Colbert, Charles C., and G. E. Preston, assignors to American Coating Mills, Elkhart, Ind. Web-coating apparatus. 1,632,885; June 21.
- Colbert, Clarence P. (See Randall, H. C., and Colbert.)
- Colbert, George F. and W. H., Pittsburgh, Pa. Nonglare mirror. 1,647,857; Nov. 1.
- Colbert, William H. (See Colbert, George F. and W. H.)
- Colborne Manufacturing Company. (See Kaser, William, assignor.)
- Colborne Manufacturing Company. (See Smith, Dennis W., assignor.)
- Colbourne, Philip G. J., London, England. Spirit stove. 1,622,180; Mar. 22.
- Colburn, Flora A., Rochester, N. Y. Shoe and stocking protector. 1,640,334; Aug. 23.
- Colburn, Walter A., Bridgeport, Conn. Radiator valve. 1,636,461; July 19.
- Colby, Charles C. (See McKay, W. A., and Colby.)
- Colby, Clarence C., Newton, Mass. Letter-box construction. 1,629,679; May 24.
- Colby, Edward A., Maplewood, F. Maueun, East Orange, and G. L. Van Allen, Newark, N. J., assignors to Baker & Company. Muffle furnace. 1,631,747; June 7.
- Colby, Lawrence W., assignor of one-half to J. N. Anderson, Methuen, Mass. Glass cover for automobiles. 1,623,718; Apr. 5.
- Colby, Ora A. (See Aalborg, C. A., and Colby.)
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radiant air heater. 1,614,230; Jan. 11.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric air heater. 1,615,683; Jan. 25.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-heater unit. 1,638,829; Aug. 16.
- Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic disk. 1,654,320; Dec. 27.
- Colchester, Arthur E., Dorchester, Mass. Engine valve. 1,633,694; June 25.
- Colclough, William, Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Brake-actuating mechanism for centrifugal machines. 1,634,651; July 5.
- Colditz, Walter, and G. Thommel, Hillegossen, assignors to Die Firm Koholyt Aktiengesellschaft, Berlin, Germany. Process and apparatus for moistening paper. 1,617,704; Feb. 15.
- Coldwell, John S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Web-feeding mechanism. 1,640,532; Aug. 30.
- Coldwell, John S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Web-supplying system. 1,640,533; Aug. 30.
- Cole, Charles M., Oakland, Calif. Waffle iron. 1,648,335; Nov. 8.
- Cole, Charlie F., Detroit, Mich. Supporting hook. 1,618,573; Feb. 22.
- Cole, Clifford M., Los Angeles, and W. S. Adams, San Diego, Calif., assignors to The Grolan Manufacturing Company, Dayton, Ohio. Liquid-level gauge. 1,645,500; Oct. 18.
- Cole, Edwin, Jamaica, N. Y. Transfer device for invalids. 1,635,575; July 12.
- Cole, Elwyn Z., Philadelphia, Pa. Lock nut. 1,649,660; Nov. 15.
- Cole, Elwyn Z., Philadelphia, Pa. Lock nut. 1,651,187; Nov. 29.
- Cole, Elwyn Z., Philadelphia, Pa. Lock nut. 1,651,188; Nov. 29.
- Cole, Eugene M., Charlotte, N. C. Attachment for agricultural implements. 1,627,954; May 10.
- Cole, Eugene M., Charlotte, N. C. Attachment for fertilizer distributors. 1,627,955; May 10.
- Cole, Eugene M., Charlotte, N. C. Lifting mechanism. 1,627,956; May 10.
- Cole, Eugene M., Charlotte, N. C. See cup for planters. 1,654,411; Dec. 27.
- Cole, Eugene M., Charlotte, N. C. Depth gauge and lifting mechanism for frames. 1,654,412; Dec. 27.
- Cole, Eugene M., Charlotte, N. C. Guano distributor. 1,654,413; Dec. 27.
- Cole, Eugene M., Charlotte, N. C. Guano distributor. 1,654,414; Dec. 27.
- Cole, Frank H., Chelsea, Mass. Boiler-tube cleaner. 1,636,355; July 10.
- Cole-French Company. (See Pike, Robert D., assignor.)
- Cole, Harry C., Philadelphia, Pa. Air-drying system. 1,634,931; July 5.
- Cole, Harvey S. and N. A., Syracuse, Ind. Drag-line-excavator counterbalance. 1,614,979; Jan. 18.
- Cole, Henry, & Company. (See Morrison, Peter E., assignor.)
- Cole, J. Plumer, et al. (See Joseph, Sheldon, assignor.)
- Cole, Leon J., Greenville, Pa. Accelerator pedal. 1,626,722; May 3.
- Cole, Lorne A., Brantford, Ontario, Canada. Coil-forming machine. 1,638,068; June 21.
- Cole, Lorne A., Brantford, Ontario, Canada. Coil-forming machine. 1,642,229; Sept. 13.
- Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Counterbalance for lathes. 1,634,396; July 5.
- Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Locomotive-tire-boring mill. 1,650,692; Nov. 29.
- Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Chuck actuating and driving mechanism. 1,650,693; Nov. 29.
- Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Tool turret for axle lathes. 1,652,426; Dec. 13.
- Cole, Marjorie, Quincy, Mass. Textile fabric or similar article. Des. 72,667; May 17.
- Cole, Marshall W., Richmond, Va. Drop hammer. 1,643,875; Sept. 27.
- Cole, Norman A. (See Cole, Harvey S. and N. A.)
- Cole, Orin H., Ashland, Ore. Folding-chain hinge. 1,639,723; Aug. 23.
- Cole, Paul, Tyrell, Ohio. Jar clamp and wrench. 1,643,876; Sept. 27.
- Cole, Philip G., Forest Hills, assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Squash-ball tester. 1,630,110; May 24.
- Cole, Ralph N. (See Bright, G. B., and Cole.)
- Cole, Robert L. (See Denslow, Ruth W., assignor.)
- Cole, Theodore S., New Haven, Conn., assignor to Engineers Development Company. Secondary battery. 1,622,067; Mar. 29.
- Cole, Theodore S., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Art and apparatus for making storage-battery grids. 1,635,641; Aug. 16.
- Cole, Theodore S., and S. Johnson, New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. Art of and apparatus for making storage-battery plates. 1,639,649; Aug. 16.
- Cole, William F., Hana, Hawaii. Manufacturing sirup. 1,647,082; Oct. 25.
- Cole, William H., Abington, Mass., assignor to Westinghouse Electric & Manufacturing Company. Protective relay system. 1,652,169; Dec. 13.
- Coleman, Allan J., Chicago, Ill. Breaking head for pipe and sewer rods. 1,641,320; Sept. 6.
- Coleman, Allan J., Chicago, Ill. Hand grip for pipe and sewer rods. 1,653,002; Dec. 20.
- Coleman, Anna and J. A., Los Angeles, Calif. Sun and air bath cabinet. 1,617,455; Feb. 15.
- Coleman, Arthur E., Danby, Vt. Goniometer. 1,617,198; Feb. 8.
- Coleman Automatic Transmission Company. (See Coleman, George B., assignor.)
- Coleman, Bernard L., Elmira, N. Y. Wire-fence tool. 1,613,871; Jan. 11.
- Coleman, C. A., and C. M. Johnston, Brashear, Mo. Automobile stand. 1,648,474; Nov. 8.
- Coleman, Charles S., Los Angeles, Calif. Plowpoint. 1,635,538; July 12.
- Coleman, George B., Dayton, Ohio, assignor to Coleman Automatic Transmission Company, San Francisco, Calif. Automatic transmission. 1,632,694; June 14.
- Coleman, George B., Dayton, Ohio, assignor to Coleman Automatic Transmission Company, San Francisco, Calif. Automatic transmission. 1,632,695; June 14.
- Coleman, George B., Philadelphia, Pa., assignor to Coleman Automatic Transmission Company, San Francisco, Calif. Automatic transmission. 1,632,696; June 14.
- Coleman, George C., Terre Haute, Ind. Adjustable pin and guide for molders' flasks. 1,647,904; Nov. 1.
- Coleman, George S., New York, N. Y. Moving-picture baseball scoreboard. 1,616,304; Feb. 1.
- Coleman, Harry S., Dayton, Pa. Hay fork. 1,634,127; June 28.

- Coleman, Jennings B., et al. (See Fuetterer, Otto F., assignor.)
- Coleman, John, Lakewood, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Liquids-separating device. 1,624,092; Apr. 12.
- Coleman, John A. (See Coleman, Anna and J. A.)
- Coleman, John A. (See Cook, G. C., and Coleman.)
- Coleman, John H., Hanford, Calif. Fish elevator. 1,630,169; May 24.
- Coleman, John P., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-braking apparatus. 1,626,919; May 3.
- Coleman, John P., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-car retarder. 1,626,920; May 3.
- Coleman, John P., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 1,644,771; Oct. 11.
- Coleman Lamp Co., The. (See Ranck, Edward D., assignor.)
- Coleman, Metcalfe C., Drumwright, and B. D. Shoemaker Tulsa, Okla. Oil-tank cleaner. 1,635,539; July 12.
- Coleman, Robert C., Wind Gap, Pa. Tire rim. 1,623,307; Apr. 5.
- Coleman, Stephen N., Sylacauga, Ala. Hand clamp. 1,640,883; Aug. 30.
- Coleman, Stephen N., Sylacauga, Ala. Shoe jack. 1,640,884; Aug. 30.
- Coleman, Stewart P. (See Parsons, L. W., and Coleman.)
- Coleman, W. Ogden. (See Williams, Dick B., assignor.)
- Coleman, William C., Wichita, Kans. Centrifugal separator and amalgamator. 1,632,950; June 21.
- Coleman, William C., Wichita, Kans. Centrifugal machine. 1,637,552; Aug. 2.
- Coleman, William C., Wichita, Kans. Receptacle-supporting means. 1,637,553; Aug. 2.
- Coleman, William C., Wichita, Kans. Heating stove. 1,637,554; Aug. 2.
- Coleman, William J. (See Mosen, C., and Coleman.)
- Coleman, William S., Midland, Pa. Draft turbine. 1,661,054; Nov. 29.
- Cole, Bernard D., assignor to Musical Products Distributing Co. Inc., New York, N. Y. Radiocabinet or article of similar nature. Des. 73,495; Sept. 20.
- Coles, Howard L., Tarrytown, N. Y. Golf club. 1,618,638; Feb. 22.
- Coles, James G., et al. (See Scutshall, William E., assignor.)
- Coles, Thomas, Homestead, Pa. Pressure regulator. 1,637,764; Aug. 2.
- Coley, Walter E., Troy, Ohio. Lawn-sprinkling device. 1,628,118; May 10.
- Coles, Walter H., assignor to The Skinner Irrigation Company, Troy, Ohio. Lawn sprinkler. 1,637,140; July 26.
- Coles, Wilfred G., assignor to Madison Kipp Corporation, Madison, Wis. Lubricator. 1,617,199; Feb. 8.
- Coles, Wilfred G., assignor to Madison Kipp Corporation, Madison, Wis. Lubricator. 1,635,540; July 12.
- Coley, George F., assignor to American Specialty Co., Oklahoma City, Okla. Radius-rod attachment. 1,623,046; Apr. 5.
- Coley, Joseph, Detroit, Mich. Combination lawn cleaner. 1,619,851; Mar. 8.
- Collin, Brick J., Rock, Minn. Milk and cream cooling device. 1,650,326; Nov. 22.
- Colladay, Edward F. (See Clement, Edward E., assignor.)
- Colladay, Edward F. (See Hoge, J. B., and Clement, assignors.)
- Colladay, Edward F. (See Lowenstein, H. F., and Clement, assignors.)
- Collamore, Kenelm W., Grand Haven, Mich. Frame for automobile license plates. 1,621,582; Mar. 22.
- Collander, Stanley, Scranton, Pa. Pen attachment. 1,629,775; May 24.
- Collard, Lloyd D., assignor to Collar Valves Corporation, Oakland, Calif. Packing-gland structure. 1,638,619; Aug. 9.
- Collar Valve Corporation. (See Collard, Lloyd D., assignor.)
- Colledanchise, Salvatore, Boston, Mass. Making jointed toys. 1,636,589; July 19.
- Collett, Frederick W. H., deceased, Cambridge, Mass., by Stinsons Company, Kenosha, Wis., assignee. Mattress-stitching machine. Re 16,555; Feb. 22.
- Collette, Clarence C., Amsterdam, N. Y. Play ball. 1,646,347; Oct. 18.
- Collette Manufacturing Company, The. (See Ross, Charles R., assignor.)
- Collevy, Fred, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bale-tearing machine. 1,623,936; Mar. 8.
- Colley, George F., assignor to H. H. Weedon, Richmond, Va. Steering-gear-centering device. 1,633,695; June 28.
- Colley, George F., assignor to H. H. Weedon, Richmond, Va. Radius and steering rod socket. 1,641,474; Sept. 6.
- Collard, Emil C., Arcade, N. Y. Charge-forming device for internal-combustion engines. 1,631,362; June 7.
- Collar, John W., Augusta, Ga. Foldable sunshade for automobiles. 1,645,418; Oct. 11.
- Collier, Vincent, Worcester Park, England. Support for seats and the like. 1,633,478; June 21.
- Collington, William C., assignor to The Cable Company, Chicago, Ill. Pneumatically-operated musical instrument. 1,627,011; May 3.
- Collins, Theodor. (See Svensson, C. A., and Collin.)
- Collin, Theodor, Falun, and L. G. H. Helmslein, Gottenborg, Sweden. Bogie for railway cars and the like. 1,640,647; Aug. 30.
- Collingham, Robert H., Rugby, England, assignor to General Electric Company. Vapor generator. 1,628,391; May 10.
- Collingham, Robert H., Rugby, England, assignor to General Electric Company. Vapor generator. 1,645,092; Oct. 11.
- Collings, Orlando A., Kansas City, Mo., assignor to W. A. Collings, Santa Monica, Calif. Waterproof plastic. 1,650,864; Nov. 29.
- Collings, William A. (See Collings, Orlando A., assignor.)
- Collins, Alf C., deceased; O. Collins, administratrix, assignor to F. N. Collins, B. Cavins, and O. Collins, Rogers, Ark. Connection for storage-battery terminals. 1,614,880; Jan. 18.
- Collins, Arthur, assignor to The Miller Rubber Company, Akron, Ohio. Ruching forming and applying machine. 1,613,983; Jan. 11.
- Collins, Charles B., Bakersfield, Calif. Inclinator. 1,623,463; Apr. 5.
- Collins, Charles B., Bentley, Kans. Grain door. 1,613,162; Jan. 4.
- Collins, Charles D., assignor to American Cyanamid Company, New York, N. Y. Closure. 1,630,785; May 31.
- Collins, Charles H. R., Marrickville, near Sydney, New South Wales, Australia. Apparatus for the manufacture of rubber-soled footwear. 1,642,013; Sept. 13.
- Collins, Charles W. (See Collins, Guy E., assignor.)
- Collins, Charles W., Seattle, Wash. Automatic carburetor-feed control. 1,636,851; July 26.
- Collins, Charles W., Seattle, Wash. Power device for operating car brakes. 1,637,440; Aug. 2.
- Collins, Claude R., Astoria, N. Y. Dish mop. 1,651,674; Dec. 6.
- Collins, Cornelius, assignor to Arthur W. Nash Inc., Los Angeles, Calif. Wall construction. 1,652,701; Dec. 13.
- Collins, D. G., et al. (See Gardner, William R., assignor.)
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Over. 1,651,871; Dec. 6.
- Collins, Francis N., et al. (See Collins, Alf C., assignor.)
- Collins, Fred L., Pueblo, Colo. Brake lock. 1,643,334; Sept. 27.
- Collins, Frederic C., Akron, Ohio. Closure for tubes or the like. 1,640,481; Aug. 30.
- Collins, George E., Atkinson, Nebr. Implement draft device. 1,646,784; Oct. 25.
- Collins, George E. P., assignor to Birnie Paper Company, Springfield, Mass. Apparatus for lining envelopes. 1,627,149; May 3.
- Collins, George H. and H. F., Birmingham, England. Electrical heating apparatus. 1,615,742; Jan. 25.
- Collins, George R., administrator. (See Collins, T. B.)
- Collins, George R., assignor to G. W. Collins, Seattle, Wash. Brake-operating means. 1,636,852; July 26.
- Collins, Guy E., assignor to W. Collins, Seattle, Wash. Combined power and foot operated vehicle brake. 1,654,321; Dec. 27.
- Collins, H. L. (See Arnett, Calvin C., assignor.)
- Collins, Harry R., Allentown, Pa., assignor to Fuller-Hugh Company. Pulverized-food feeder. 1,631,119; June 7.
- Collins, Herbert F. (See Collins, George H. and H. F.)
- Collins, Hobart, Union Township, Hardin County, Iowa. Tire-chain-locking tightener. 1,651,512; Dec. 6.
- Collins, J. N., Company. (See Johnson, C. E., and Pearce, assignors.)
- Collins, J. N., Company. (See Napier, Archibald S., assignor.)
- Collins, James D., Wakefield, Mass. Cross-chain anchoring member for vehicle wheels. 1,647,784; Nov. 1.
- Collins, James G., assignor to Atlas Press Company, Kalamazoo, Mich. Mandrel press. 1,645,521; Oct. 18.
- Collins, James H., Fullerton, assignor to W. D. Shaffer, Brea, Calif. Pump-rod-rotating device. 1,619,700; Mar. 1.
- Collins, John R., Wichita, Kans. Hammer. 1,646,993; Oct. 25.
- Collins, John T., et al., trustees. (See Conner, Lester C., assignor.)
- Collins, Joseph. (See Tuleikis, L., and Collins.)
- Collins, Julius D., Vineland, N. J. Automatic switch. 1,620,443; Mar. 8.
- Collins, Martin W. (See Bambach, J. J., and Collins.)
- Collins, Matthew G. (See Kiam, Edward, assignor.)
- Collins, Olin C. (See Allensworth, J. N., Keltner, and Collins.)
- Collins, Ollie, administratrix. (See Collins, Alf C.)
- Collins, Ollie, et al. (See Collins, Alf C., assignor.)
- Collins, Patrick W. (See Westbury, W., and Collins.)
- Collins, Richard, Three Rivers, Quebec, Canada. Treating sulphate and soda pulp. 1,648,111; Nov. 8.
- Collins, Robert K., Canton, N. C. Combination square. 1,618,862; Feb. 22.
- Collins, Rollin E., Parnassus, assignor to The Aluminum Company of America, Pittsburgh, Pa. Rack for roasters. 1,630,471; May 31.

- Collins, T. B.; also known as T. B. Collins, deceased, Dayton, Fla.; G. R. Collins, administrator, Kansas City, Mo. Boat. 1,631,400; July 7.
- Collins, Thomas. (See Hammer, Peter, assignor.)
- Collins, Thomas, jr., assignor to The American Separator Company, Bainbridge, N. Y. Speed indicator. 1,631,796; June 7.
- Collins, Walter H. (See Moore, Max J., assignor.)
- Collins, William C. A., assignor, by mesne assignments, to The Safe-T-Stat Co., Philadelphia, Pa. Thermo-electric indicator and safety device. 1,621,396; Mar. 15.
- Collins, William A., Brooklyn, N. Y. Shutter-operating means. 1,640,233; Aug. 23.
- Collins, William J., Brooklyn, N. Y. Window-sash fastener. 1,638,088; Aug. 9.
- Collins, William H., Detroit, Mich. Adjustable golf club. 1,644,177; Oct. 17.
- Collins, William S. (See Robinson, Douglas, G., assignor.)
- Collinson, Gordon T. (See Storey, O. W., and Collinson.)
- Collinson, Stanley E., Newton Center, Mass. Golf club and making the same. 1,637,735; Aug. 2.
- Collis Company, The. (See Collis, Harold G., assignor.)
- Collis Company, The. (See Spaulding, J. D., and Bouda, assignors.)
- Collis, Harold G., assignor to The Collis Company, Clinton, Iowa. Apparatus for removing contents of egg cases. 1,639,487; Aug. 16.
- Collis, Lloyd, New York, N. Y. Railway train. 1,634,490; July 5.
- Colloidal Equipment Corporation. (See Butler, Edward A., assignor.)
- Colton, Norman L., Newport News, Va. Screen for automobiles. 1,639,589; Aug. 16.
- Colman, George A., Seattle, Wash. Timber-perforating mechanism. 1,646,188; Oct. 18.
- Colman, Howard D., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Spinning. 1,614,879; Jan. 18.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Warp-drawing machine. 1,624,928; Aug. 19.
- Colman, Howard D., Rockford, assignor to B. S. Nethercut, Evanston, Ill. Yarn-mass support. 1,641,661; Sept. 6.
- Colman, Howard D., and B. A. Peterson, assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Spinning machine. 1,614,718; Jan. 18.
- Colomb, Henri, Tavannes, Switzerland. Manufacturing process of making blanks for watch movements provided with jewel-insetting or plug holes. Ref. 6,596; Apr. 19.
- Colomb, Henri, Tavannes, Switzerland. Manufacturing process of blanks for watch movements. 1,621,235; Mar. 15.
- Colomb, Henri, Tavannes, Switzerland. Manufacturing blank movements of watches. 1,629,257; May 17.
- Colomb, Henri, Tavannes, Switzerland. Making concentric bushings for jewel bearings. 1,640,348; Aug. 30.
- Colomb, Henri, Tavannes, Switzerland. Jewel setting for watches and making same. 1,642,192; Sept. 13.
- Colombo, Frank, et al. (See Book, Charles S., assignor.)
- Colon, Blas N., Douglas, Ariz. Watch lock. 1,618,698; Feb. 22.
- Colona Manufacturing Company. (See Shrum, P. J., and Henken, assignors.)
- Colony Manufacturing Company. (See Shrum, Peter J., assignor.)
- Colone, James, Collinsville, Ill. Curtain bracket. 1,626,186; Apr. 26.
- Colonial Fireplace Company. (See Guy, Walter W., assignor.)
- Colonial Lamp & Fixture Works, Inc. (See Nelson, Theodore J., assignor.)
- Colonna, Angelo, Philadelphia, Pa. Box-joint-grooving machine. 1,643,576; Sept. 27.
- Color Cinema Productions, Inc. (See Waddingham, Arthur G., assignor.)
- Colorado Carburetor Company, The. (See Tangye, Roy, assignor.)
- Colorado Vanadium Corporation. (See Thews, Karl B., assignor.)
- Colorgraph Laboratory, Inc. (See Hernandez, Mejia, Arturo, assignor.)
- Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation generator. 1,624,537; Apr. 12.
- Colquhoun, Peter M. (See Chisholm, C. and Colquhoun.)
- Colquhoun, Peter, assignor to The American Multigraph Company, Cleveland, Ohio. Safety device for flat-bed printing presses. 1,638,565; Aug. 9.
- Colquhoun, Peter, Lakewood, assignor to American Multigraph Company, Cleveland, Ohio. Jogging mechanism. 1,651,189; Nov. 29.
- Colson Company, The. (See Johnson, Wilfred G., assignor.)
- Colson Company, The. (See Roe, Mayo E., assignor.)
- Colt, Thomas G., Orange, N. J. Knockdown or foldable building. 1,629,150; May 17.
- Colt's Patent Fire Arms Manufacturing Company. (See Couch, Elbert L., assignor.)
- Colt's Patent Fire Arms Manufacturing Company. (See Tansley, George H., assignor.)
- Colt's Patent Fire Arms Manufacturing Company. (See Webb, George, assignor.)
- Coltman, Bertram W. (See Miller, Myron, assignor.)
- Coltman, Bertram W., Chicago, Ill. Flaking soap. 1,653,390; Dec. 20.
- Colman, Stanley J., Binford, N. Dak. Trace carrier. 1,632,368; June 14.
- Columbia Lighting Fixture Co. (See Peinlich, Max, assignor.)
- Columbia Machine Works & Malleable Iron Co. (See Gass, William L., assignor.)
- Columbia Mills Incorporated. (See Whitmore, John P., assignor.)
- Columbia Phonograph Company. (See Cowan, Charles H., assignor.)
- Columbia Phonograph Company. (See Hadley, Walter C., assignor.)
- Columbia Phonograph Company. (See Hincley, Frank C., assignor.)
- Columbia Phonograph Company. (See Mowitz, Albert C., assignor.)
- Columbia Phonograph Company. (See Webster, Benjamin C., assignor.)
- Columbia Quarry Company. (See Glasen, Charles E., assignor.)
- Columbia Steel Equipment Company. (See Bergmann, Conrad, assignor.)
- Columbia Tire Corporation. (See Cullen, Julien F., assignor.)
- Columbro, Angelo, Stockton, Calif. Continuous press. 1,638,981; Aug. 16.
- Columbus Heating and Ventilating Company, The. (See Wolfe, Jay A., assignor.)
- Columbus Machine Company, The. (See Sparks, Stanley W., assignor.)
- Columbus Ventilating Company, The. (See Kubu, L. V., and Vogel, assignors.)
- Colvin, Charles H., et al. (See Titterton, Morris M., assignor.)
- Colvin, Charles H., assignor to Pioneer Instrument Company, Brooklyn, N. Y. Pitot-static tube. 1,620,633; Mar. 15.
- Colvin, Charles M., Wilmette, Ill. Oil burner. 1,644,873; Oct. 11.
- Colvin, Chase, South Charleston, Ohio. Fencepost. 1,634,739; July 5.
- Colvin, Henry M., Kansas City, Mo. Key compact. 1,621,831; Mar. 22.
- Colvin, Isaac B. (See Manison, G. N., and Colvin.)
- Colvin, Walter J., and L. Kirschbaum, Omaha, Nebr. Seal for car doors. 1,628,655; May 17.
- Comati, Clarence N., P. E. Kekeness, and N. J. Peters, Birmingham, Ala. Bottle or similar article. Des. 71,777; Jan. 4.
- Comay, Salmen. (See Morrell, J. C., and Comay.)
- Comber, Maurice. (See Continanza, V. and Combes.)
- Combination Fountain Co., The. (See Mackey, Harry J., assignor.)
- Combination Machine Company. (See Peterson, Jonathan, assignor.)
- Combination Machine Company. (See Thom, James C., assignor.)
- Combination Woodworking Machine Co. (See Pierce, John D., assignor.)
- Combs, DeEtte B., Philadelphia, Pa. Card-holding device. 1,630,373; May 31.
- Combs, Robert L., Herington, Kans. Pneumatic bed. 1,627,235; May 10.
- Combs, William F., and J. M. Beck, Eureka, Utah. Radiator filler. 1,619,498; Mar. 1.
- Combustion Control Company. (See Potter, Frederick D., assignor.)
- Combustion Engineering Corporation. (See Bell, John E., assignor.)
- Combustion Engineering Corporation. (See Kreisinger, Henry, assignor.)
- Combustion Engineering Corporation. (See Lundgren, Edwin, assignor.)
- Combustion Engineering Corporation. (See Nygaard, Oscar O., assignor.)
- Combustion Utilities Corporation. (See Herzog, Harold L., assignor.)
- Combustion Utilities Corporation. (See Loebell, Henry O., assignor.)
- Comeau, Larry L., Bradford, Mass. Shoe and method of manufacture. 1,634,397; July 5.
- Comer, John A. and L. M. Calexico, Calif. Cement building form. 1,616,354; Feb. 1.
- Comer, Lee M. (See Comer, John A. and L. M.)
- Comerford, John, New York, assignor of one-third to M. J. Martley, Bronxville, and one-third to H. Byrne, New York, N. Y. Vent cap for soil pipes. 1,623,659; Apr. 5.
- Comerford, John J., Philadelphia, Pa., assignor of one-third to M. J. Martley, Bronxville, and one-third to H. Byrne, New York, N. Y. Thermostatic alarm. 1,624,628; Mar. 22.
- Comet Radiator Company. (See Staats, Gilson C., assignor.)
- Comins, Frank B., Newton, assignor to American Moistening Company, Boston, Mass. Control means for regulating the output of atomizers and the like. 1,631,475; June 7.
- Comins, Frank B., Newton, Mass., assignor to American Moistening Company, Providence, R. I. Atomizing means. 1,650,821; Nov. 29.

- Comins, Frank B., Newton, and J. Armstrong, Malden, assignors to American Moistening Company, Boston, Mass. Self-cleaning nozzle. 1,622,090; Mar. 22.
- Comkie, William H. (See Corson, Henry J., assignor.)
- Comley, Walter T., Montreal, Quebec, Canada, assignor to Franklin Railway Supply Company. Draft appliance. 1,648,893; Nov. 18.
- Commanditaire Vennootschap Froger's Electriciteits Maatschappij. (See Froger, Henricus, assignor.)
- Commercial Cable Company, The. (See Herbig, Henry F., assignor.)
- Commercial Savings Bank & Trust Company. (See Herbig, Henry F., assignor.)
- Commercial Shearing & Stamping Company, The. (See Cushiwa, Charles B., assignor.)
- Commercial Shearing & Stamping Company. (See Proctor, R. V., and Schaab, assignors.)
- Commercial Solvents Corporation. (See Arsem, William C., assignor.)
- Commercial Solvents Corporation. (See Bogin, Charles, assignor.)
- Commercial Solvents Corporation. (See Brown, B. K., and Bogin, assignors.)
- Commercial Solvents Corporation. (See Littmann, Edwin R., assignor.)
- Commercial Solvents Corporation. (See Woodruff, J. C., and Bloomfield, assignors.)
- Commercial Truck Company. (See Whitney, Eddy R., assignor.)
- Commonwealth Brass Corporation. (See Kellum, Charles S., assignor.)
- Commonwealth Steel Company. (See Hallquist, Einar G., assignor.)
- Commonwealth Steel Company. (See Johnson, Boone V. H., assignor.)
- Commonwealth Steel Company. (See McCormick, John A., assignor.)
- Commonwealth Steel Company. (See Pfleger, Harry M., assignor.)
- Commonwealth Steel Company. (See Sheehan, William A., assignor.)
- Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
- Commonwealth White Lead and Paints Proprietary Limited. (See Lloyd, G. F., and Campbell, assignors.)
- Commonwealth White Lead & Paints Proprietary Limited, The. (See Wilhelm, Reinhold, assignor.)
- Comp. Charles A., assignor to Buhl Stamping Company, Detroit, Mich. Apparatus for tinning milk cans. 1,649,153; Nov. 15.
- Comp. Charles A., assignor to Buhl Stamping Company, Detroit, Mich. Tinning articles. 1,653,255; Dec. 20.
- Compact Coffee Corporation. (See McCoil, Francis P., assignor.)
- Compagnie D'Applications Mecaniques. (See Rouanet, Louis, assignor.)
- Compagnie de l'Azote et des Fertilisants S. A. (See Breslau, Joseph, assignor.)
- Compagnie de Produits Chimiques et Electrometallurgiques-Alais Froges et Camargue. (See Rochet, Joseph, assignor.)
- Compagnie des Forges et Aderies de la Marine et d'Homecourt et al. (See de Courselles, Robert, assignor.)
- Compagnie Francaise Thomson Houston. (See Salles, Pierre M. R., assignor.)
- Compagnie Industrielle et Commerciale du Cycle et de l'Automobile. (See Chollet, Louis, assignor.)
- Compagnie Industrielle de Mechanique Horlogere. (See Beni, Francois L., assignor.)
- Compagnie Industrielle des Moteurs a Explosion (C. I. M. E.). (See Perrier, Daniel, assignor.)
- Compagnie Internationale Trichromia. (See Cuenin, Gilbert, assignor.)
- Compania Cubana Economizadora de Combustible S. A. (See Vial, Aquilino R., assignor.)
- Complex Ores Recoveries Company, The. (See Read, J. B., and Coolbaugh, assignors.)
- Compound and Pyrono Door Co., The. (See Ludlow, Frederick O., assignor.)
- Compress Buckle Company. (See Todd, James A., assignor.)
- Compressed Gas Corporation. (See Mott, Chester, assignor.)
- Compton, L. T. (See Burriss, Herman N., assignor.)
- Compton, Leroy Waukesha and F. E. Galvin, Portage, Wis. Flash light. 1,617,793; Feb. 15.
- Comstock-Castle Stove Company. (See Castle, Timothy W., assignor.)
- Comstock-Castle Stove Company. (See Spake, Richard W., assignor.)
- Comstock, Charlie A., Fullerton, Calif. Vine holder. 1,635,071; July 5.
- Comstock, Charlie A., Fullerton, Calif. Piston and connecting-rod construction. 1,637,765; Aug. 2.
- Comstock, Chester T. (See Grauer, Allan H., assignor.)
- Comstock, Daniel F., assignor to Technicolor Motion Picture Corporation, Boston, Mass. Cinematography. 1,641,220; Sept. 6.
- Comstock, Frederick E., Valparaiso, Ind. Automatic line guide. 1,614,104; Jan. 11.
- Comstock, Frederick E., Valparaiso, Ind. Attachable wire basket handle. 1,614,105; Jan. 11.
- Comstock & Wescott, Inc. (See Atwood, Francis C., assignor.)
- Comyn, Bernard D., assignor to White & Comyn, Limited, Hebburn-on-Tyne, England. Oil separator. 1,645,093; Oct. 11.
- Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase bow. Des. 71,778; Jan. 12.
- Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase bow. Des. 73,558; Oct. 4.
- Conant, Ellsworth T., and L. S. McLane, Honoum, Hawaii. Liquid-mixing apparatus. 1,625,592; Apr. 19.
- Conant, Frederick W., Conway, Mass. Reaming apparatus. 1,641,005; Oct. 15.
- Conant, George M. (See Conant, Leon B., assignor.)
- Conant, Leon B., Cambridge, assignor to G. M. Conant, Bridgewater, Mass. Mold for combination heels. 1,637,441; Aug. 2.
- Conant, Matthew A., and J. E. Goates, Provo, Utah. Gear-drive pump. 1,644,817; Oct. 11.
- Conant, Max C., and C. Seely, Cleveland, Ohio. Hair curler. 1,620,722; Mar. 15.
- Conard, Walter H., et al. (See McCullough, Joseph P., assignor.)
- Concealed Door Check Company. (See Eastman, Floyd K., assignor.)
- Conceal Fixture Company. (See Noack, William A., assignor.)
- Concentrate Products Company, The. (See Lapp, William H., assignor.)
- Concrete Engineering Company. (See Meyer, Charles L., assignor.)
- Concrete Mixing and Conveying Company. (See Kirkland, Harry B., assignor.)
- Concrete Piling Co. (See Bignell, Edward, assignor.)
- Concrete Structural and Machinery Company, The. (See Hieber, George E., assignor.)
- Condit Electrical Manufacturing Corporation. (See Ainsworth, Chester D., assignor.)
- Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)
- Condit Electrical Manufacturing Corporation. (See Condit, Henry B., assignor.)
- Condit Electrical Manufacturing Corporation. (See Koch, Paul W., assignor.)
- Condit Electrical Manufacturing Corporation. (See O'Keefe, George W., assignor.)
- Condit Electrical Manufacturing Corporation. (See Wood, Joseph D., assignor.)
- Condit, Seal B., Brookline, assignor to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,650,190; Nov. 22.
- Condit, Timothy M., and G. W. Anderson, Brooklyn, N. Y. Refrigerator box. 1,616,441; Feb. 8.
- Condon, Gertrude G., Oakland, Calif., assignor to The Hoover Company. Hand and finger protector. 1,625,191; Apr. 19.
- Condon, Charles N. (See Davidson, G., Rippey, Cone, Laucks, and Banks.)
- Congdon, Claude L., Homer, N. Y. Smoking-pipe accessory. 1,617,822; Feb. 15.
- Congdon, Harry R., San Francisco, Calif. Powdering machine. 1,638,566; Aug. 9.
- Congdon, Clem H., Cleveland, Ohio. Aircraft. 1,639,796; Aug. 28.
- Conger, Claude M., assignor to Irving Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf-binder cover. 1,632,484; June 14.
- Congoleum-Nairn, Inc. (See Fausser, Oscar W., assignor.)
- Congoleum-Nairn, Inc. (See Kenyon, F. C., Jr., and Goodell, assignors.)
- Congoleum-Nairn, Inc. (See Sloate, Alfred C., assignor.)
- Conley, Ira M. (See Johnstone, John L., assignor.)
- Conklin, Bruce, London, England. Pump, compressor, or the like. 1,629,202; May 17.
- Conklin, David L., Omaha, Nebr. Lubricating gun. 1,646,081; Oct. 18.
- Conklin Pen Manufacturing Company, The. (See Bienenstein, Andreas, assignor.)
- Conklin, Roscoe B. (See Rowntree, H., and Conklin.)
- Conklin, Roscoe B., Railway, N. J., assignor to National Pneumatic Company, New York, N. Y. Emergency-door apparatus for vehicles. 1,627,728; May 10.
- Conklin, Roscoe G., Omaha, Nebr. Flagstaff. 1,632,726; June 14.
- Conklin, William F., Tarentum, Pa. Electric socket switch. 1,632,174; June 14.
- Conklin, William F., Tarentum, H. S. Hopkins, Crafton, and J. M. Hoyer, Pittsburgh, Pa. Sheet-piling mechanism. 1,619,804; Mar. 8.
- Conley, Clinton V. (See Richardson, A. S., and Conley.)
- Conley, John E. (See Marden, J. W., Thomas, and Conley.)
- Conley, John M., Stockton, Calif. Football game board. 1,614,881; Jan. 15.
- Conley, John M., Stockton, Calif. Doorcheck. 1,649,339; Nov. 15.
- Conley, Matthias L. (See Boland, Edward J., assignor.)
- Conlon, Charles S., Portsmouth, N. H., assignor of one-half to W. B. Swint, Wichita Falls, Tex. Toy animal. 1,614,829; Jan. 18.
- Conlon Corporation. (See Dady, Arthur O., assignor.)
- Conlon, Thomas A. (See Joyce, Bryan P., assignor.)
- Conroy, Thomas A., Silver Spring, Md. Vehicle mount for guns. 1,614,655; Jan. 18.

- Conlon, Thomas A. Silver Spring, Md. Loader for guns. 1,618,193; Mar. 1.
- Conlon, Thomas A. Silver Spring, Md. Trail connection. 1,627,836; May 10.
- Conn, C. G., Ltd. (See Coe, Edward D., assignor.)
- Conn, Ray H., Winamac, Ind. Manufacturing fish lures. 1,640,599; Aug. 30.
- Conolly, Charles D. Fort Worth, Tex. Water trap for air-brake equipment. 1,653,203; Dec. 20.
- Connaut Shovel Company, The. (See Denning, James F., assignor.)
- Connecticut Electric Manufacturing Company. (See Both, Tonjes A., assignor.)
- Connecticut Telephone & Electric Company, The. (See Donie, Harold F., assignor.)
- Connell, Andrew J. and J. Cohen, College Point, N. Y. Re16,737; Sept. 13.
- Connell, Edwin L., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Electric switch. Metal door. 1,618,814; Feb. 22.
- Connell, George A. (See Cramer, T. M., and Connell.)
- Connellsville Manufacturing and Mine Supply Co. (See Lopley, Daniel F., assignor.)
- Connolly, Clyde A., Shelby, Ohio. Door-operating means. 1,641,067; Aug. 30.
- Connolly, Edward. (See Phillips, A. A., and Connolly.)
- Connolly, Edward R., Boston, Mass. Outsole for shoes. 1,638,044; July 19.
- Connolly, Frank B. (See Gail, W. W., and Connolly.)
- Connely, Bush W., assignor to Dravo Equipment Company, Pittsburgh, Pa. Joint for structural towers. 1,641,801; Sept. 6.
- Conner, Benjamin G., Los Angeles, Calif., assignor to Ray Window-Shade Company. Adjustable window shade. 1,642,489; Sept. 13.
- Conner, Charles E., Auburn, Me. Tool. 1,636,853; July 26.
- Conner, Edward A., Stratford, Conn., assignor to American Cable Company, Inc. Attachment for wire strand and producing the same. 1,643,150; Sept. 20.
- Conner, Frank S., et al. (See Frengle, F., and Rohan, assignors.)
- Conner, James S., Roanoke, Ala. Playing attachment for stringed instruments. 1,635,542; July 12.
- Conner, Lester C., Malden, assignor to A. S. Williams, Boston, and J. T. Collins, trustees, Sandwich, Mass. Composition of matter derived from black liquor and dealing with the same. 1,614,025; Jan. 11.
- Conner, William, Philadelphia, Pa. Machine for separating the whites from the yolks of eggs. 1,622,181; Mar. 22.
- Conner, William W., Sewaren, N. J. Refrigerating apparatus. 1,639,986; Aug. 23.
- Conners, James, Crescent City, Calif. Grid leak. 1,621,832; Mar. 22.
- Connersville Blower Co., The. (See Houghton, Carl R., assignor.)
- Connersville Blower Company, The. (See Wilkin, John T., assignor.)
- Connolly, Charles M., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar-display device. 1,626,514; Apr. 26.
- Connolly, Frank M. (See Lass, Frederic J., assignor.)
- Connolly, James E., Baltimore, Md. Safety razor. 1,651,917; Dec. 6.
- Connolly, Thomas J., assignor to The Hiker Manufacturing Company, Toledo, Ohio. Wheel skate. 1,632,997; June 21.
- Connor, Fred J., (See Leonard, P. J., and Connor.)
- Connor, James F., Cleveland, Ohio. Folding brush. 1,631,011; May 31.
- Connors, Neilson D., Highland Park, N. J., assignor to American Telephone and Telegraph Company. Strand lightener. 1,638,432; Aug. 9.
- Conover, Arthur V., Philadelphia, Pa., assignor to Interflash Signal Corporation, New York, N. Y. Day and night beacon. 1,613,938; Jan. 11.
- Conover, Arthur V., assignor to Interflash Signal Corporation, New York, N. Y. Gas jet and igniting same. 1,623,464; Apr. 5.
- Conover, Arthur V., assignor to Interflash Signal Corporation, New York, N. Y. Beacon lamp. 1,637,072; July 26.
- Conover, Courtney, assignor to Monsanto Chemical Works, St. Louis, Mo. Producing benzoic acid from phthalic anhydride. 1,645,180; Oct. 11.
- Conques, Joseph A., Le Vesinet, France. Dispensing device. 1,639,329; Aug. 16.
- Conrad, Bertha L. (See Conrad, Frederick, assignor.)
- Conrad, Curtis P., Issaquah, Wash. Package holder and opener. 1,614,283; Jan. 11.
- Conrad, David E., assignor of one-half to V. V. Baldwin, Eldon, Iowa. Sliding door for cars or barns. 1,635,926; July 12.
- Conrad, Frank. (See Nyman, A., and Conrad.)
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inductance device. 1,635,541; July 12.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless antenna system. 1,640,534; Aug. 30.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio transmitting system. 1,652,516; Dec. 13.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio sending system. 1,654,322; Dec. 27.
- Conrad, Fred A., assignor to American Lace Paper Co., Milwaukee, Wis. Paper napkin. Des. 73,123; July 26.
- Conrad, Frederick, assignor of one-half to B. L. Conrad, Bogota, N. J. Sediment trap for boilers. 1,625,709; Aug. 19.
- Conrad, George N. (See Miller, John A., assignor.)
- Conrad, Hollis C., Beaver Falls, Pa. Amusement house. 1,629,258; May 17.
- Conrad, Howard P., Vincennes, Ind. Sport storm hose. 1,648,758; Nov. 8.
- Conrad, Isiah, assignor to F. O. Schoedinger, Columbus, Ohio. Combination table and tray. 1,640,440; Aug. 30.
- Conrad, Isiah, assignor to F. O. Schoedinger, Columbus, Ohio. Portable and collapsible table or tray. 1,640,441; Aug. 30.
- Conrad, Isiah, Columbus, Ohio. Operating table. 1,650,327; Aug. 22.
- Conrad, James W., Rockbridge, Ohio. Starting and transplanting plants. 1,636,625; July 19.
- Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Switch. 1,631,012; May 31.
- Conrad, Paul M., Alcoa, Tenn., assignor to General Electric Company. Electroresponsive device. 1,646,253; Oct. 18.
- Conrad, William L., Boston, Mass. Conditioning textile materials. 1,630,786; May 31.
- Conrader, Rudolph, Erie, Pa. Pump-control mechanism. 1,627,376; May 3.
- Conrader, Rudolph, Erie, Pa. Gate valve. 1,637,736; May 3.
- Conradson, Conrad M., Green Bay, Wis. Rotary pump. 1,621,495; Mar. 22.
- Conradson, Conrad M., Green Bay, Wis. Gyratory grinding machine. 1,631,247; June 7.
- Conradt, Hermann. (See Sprenger, R., and Conradt.)
- Conradt, M. E., & Co. Inc. (See Timmis, William W., assignor.)
- Conselman, William M., Los Angeles, Calif. Doll. Des. 72,001; Feb. 15.
- Conservation Corporation of America. (See Rice, George E., assignor.)
- Conservation Corporation of America. (See Rice, G. E., and Simmons, assignors.)
- Conside, Robert P., Fulton, Ill. Combined tweezers, finger-nail file and cleaner. 1,616,355; Feb. 1.
- Consoli, Frank, Brooklyn, N. Y. Cutting machine. 1,645,181; Oct. 11.
- Consolidated Boilers Corporation. (See Johanson, Adolph T., assignor.)
- Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
- Consolidated Electric Sign Corporation. (See Russell, Harry G., assignor.)
- Consolidated Iron-Steel Manufacturing Company, The. (See Lehman, Joseph, assignor.)
- Consolidated Machine Tool Corporation of America. (See Metzger, Claude W., assignor.)
- Consolidated Paper Company, The. (See Jones, James F., assignor.)
- Consolidated Safety Pin Company. (See Hagel, Albert, assignor.)
- Consolidated Textile Corporation. (See Bennett, Joseph, assignor.)
- Consolidated Water Power & Paper Company. (See Hill, Earl M., assignor.)
- Consortium Fuer Elektrochemische Industrie. (See Herrmann, W. O., and Haehnle, assignors.)
- Consortium fur Elektrochemische Industrie. (See Herrmann, W. O., and Deutsch, assignors.)
- Consortium fir Elektrochemische Industrie. (See Meinzast, R., and Mugdan, assignors.)
- Consortium fur Elektrochemische Industrie G. m. b. H. (See Herrmann, W. O., Deutsch, and Haehnle, assignors.)
- Consortium fur Elektrochemische Industrie. (See Mugdan, M., and Wimmer, assignors.)
- Constam, Ernst, Zurich, Switzerland, assignor to Aktiebolaget Vaporakumulator, Stockholm, Sweden. Steam plant. 1,634,609; July 5.
- Constable, C. L., Company. (See Stewart, Alexander, assignor.)
- Constant, Louis H. (See McEntee, B. C., and Constant.)
- Constantine, Alphonse A., Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y. Operating mechanism for car-vestibule trap doors. 1,631,806; June 7.
- Constantine, Shicklack, New Bedford, Mass. Window-shade and curtain-rod holder. 1,646,011; Oct. 18.
- Constantinesco, George, Weybridge, England. Power transmission. 1,613,344; Jan. 4.
- Constantinesco, George, Weybridge, England. Clutch and undirectional driving device. 1,617,010; Feb. 8.
- Constantinesco, George, Weybridge, England. Unidirectional driving device. 1,618,915; Feb. 22.
- Constantinesco, George, Weybridge, England. Advancing and retarding a driven shaft relatively to a driving shaft. 1,627,632; May 10.
- Constantinesco, George, Weybridge, England. Elastic link. 1,642,602; Sept. 13.
- Constantinesco, George, Weybridge, England. Unidirectional driving device. 1,642,645; Sept. 13.

- Contact Filtration Company. (See Chappell, M. L., Davis, and Moore, assignors.)
- Contact Filtration Company. (See Prutzman, Paul W., assignor.)
- Conte-Ror Corporation. (See Phelan, Louis A. M., assignor.)
- Container Corporation of America. (See Walter, Harrison B., assignor.)
- Conti, Emile, Alfortville, France. Solder for aluminum and its alloys. 1,619,852; Mar. 8.
- Conti, Eugene, Cliffside Park, N. J., assignor to A. Herz, Rochelle, N. Y. Machine for forming, printing, and assembling envelopes. 1,625,350; Apr. 19.
- Conti, James T. F., and P. H. L. Tiranty, Paris, France. Stamping and registering apparatus. 1,631,624; June 7.
- Conti, John D., Philadelphia, Pa. Package-filling machine. 1,635,543; July 12.
- Continental Can Company. (See Coyle, John, assignor.)
- Continental Can Company. (See Fink, Henry A., assignor.)
- Continental Can Company. (See Fink, H. A., and Flook, assignors.)
- Continental Can Company. (See Hodgson, William W., assignor.)
- Continental Can Company. (See Hurley, Charles, assignor.)
- Continental Can Company. (See Kronquest, Alfred L., assignor.)
- Continental Can Co. (See O'Brien, A. D., and Gesseman, assignors.)
- Continental Can Company. (See O'Neil, James H., assignor.)
- Continental Can Company. (See Plumb, Walter, assignor.)
- Continental Can Company. (See Prah, Frederick A., assignor.)
- Continental Can Company. (See Sedwick, Matthew M., assignor.)
- Continental Can Company. (See Taliaferro, John C., assignor.)
- Continental Engineering Corporation. (See Anthony, Marcus O., assignor.)
- Continental Gin Company. (See Munger, Eugene, assignor.)
- Continental Mills, Inc. (See Brown, Millard D., assignor.)
- Continental Optical Corporation. (See Bugbee, Lucian W., assignor.)
- Continental Optical Corporation. (See Bugbee, Lucian W., Jr., assignor.)
- Continental Optical Corporation. (See Bugbee, Lucian W. and L. W., Jr., assignors.)
- Continental Optical Corporation. (See Devine, Edward P., assignor.)
- Continental Optical Corporation. (See Durgin, Edgar R., assignor.)
- Continental Products Company, The. (See Kuhlhoff, Henry O., assignor.)
- Continental Products Corporation. (See Fabbrin, Frank, assignor.)
- Continental Railway Supply Corporation. (See Hyle, J. A., and Scott, assignors.)
- Continental Scale Works. (See Weber, Mathias, J., assignor.)
- Continentale Aktiengesellschaft für Chemie. (See Gergross, Otto, assignor.)
- Continuous Victor and M. Combes, Paris, France. Continuous-feed cinematograph apparatus. 1,617,923; Feb. 15.
- Continuous Train Control Corporation. (See Clark, Thomas E., assignor.)
- Continuous Train Control Corporation. (See Clark, T. E. and J. E., assignors.)
- Continuous Train Control Corporation. (See Clark, T. E., and Stone, assignors.)
- Continuum Company. (See Lemm, Frederick L., assignor.)
- Conty, Rene H., Chicago, Ill. Electric switch. 1,617,924; Feb. 15.
- Converse, Atherton D., assignor to Morton E. Converse & Son Co., Winchendon, Mass. Folding table. 1,644,818; Oct. 11.
- Converse, Charles D., Los Angeles, Calif. Conduit switch. 1,625,882; Apr. 26.
- Converse, Morton E., & Son Co. (See Converse, Atherton D., assignor.)
- Converse Rubber Shoe Co. (See Thomas, George C., assignor.)
- Converters Paper Company. (See Ringel, Herman, assignor.)
- Convertible Wagon Trailers Inc. (See Cooke, William H., assignor.)
- Converters Corporation of America. (See Zimmermann, Carl F., assignor.)
- Conway, Alfred A., Cincinnati, Ohio. Friction clutch. 1,614,345; Jan. 11.
- Conway, Alfred A., Cincinnati, Ohio. Friction clutch. 1,630,656; May 31.
- Conway, Dora, Tulsa, Okla. Clothespin bag. 1,616,572; Feb. 8.
- Conway, Joseph E., Baltimore, Md. Pipe wrench. 1,639,893; Aug. 23.
- Conway, Martin J., Steubenville, Ohio. Reinforced mine prop. 1,624,603; Sept. 13.
- Conway, Roy D. (See Davis, R. C., and Conway.)
- Conway, William J., San Francisco, Calif. Lifting mechanism. 1,649,574; Nov. 15.
- Conwell Graphic Company. (See Hornecker, George, assignor.)
- Conwell, Simon W., Grand River, Iowa. Combined seat and desk. 1,654,455; Dec. 27.
- Conwell, William, and C. Mahoney, assignors to G. I. Sellers & Sons Company, Elmwood, Ind. Drawer guide. 1,622,422; Mar. 29.
- Conwill, Fred F., Berkeley, Calif. Apparatus for decorating. 1,636,388; Oct. 4.
- Conyers, Lucile, Salt Lake City, Utah. Costume slip. 1,642,300; Sept. 13.
- Conyers, Mark M., Custer, S. Dak. Antenna for use with radio sets. 1,640,234; Aug. 23.
- Cooey, Edward W., deceased; M. L. Brundage, administratrix, Malden, Mass. Rotary engine. 1,613,584; Jan. 4.
- Cook, A. D., Inc. (See Willers, George B., assignor.)
- Cook, Adoniram J., Westerlo, N. Y., assignor to The P & M Company, Chicago, Ill. Two-piece rail anchor. 1,638,982; Aug. 16.
- Cook, Adoniram J., Westerlo, N. Y., assignor to The P & M Company, Chicago, Ill. One-piece spring rail anchor. 1,644,785; Oct. 4.
- Cook, Albert, Holyoke, Mass. Band-tying gauge. 1,644,414; Oct. 4.
- Cook, Albert E., Evanston, assignor to C. B. Cook, Chicago, Ill. Auto marine vehicle and trailer. 1,631,248; June 7.
- Cook, Albert E., Evanston, assignor to C. B. Cook, Chicago, Ill. Auto marine vehicle. 1,634,932; July 5.
- Cook, Albert E., Evanston, assignor to C. B. Cook, Chicago, Ill. Sectional pontoon. 1,637,336; Aug. 2.
- Cook, Arthur H., Denver, Colo. Flush-type wall cabinet. 1,613,939; Jan. 11.
- Cook, C. Lee, Manufacturing Company. (See Cook, Charles L., assignor.)
- Cook, Charles B. (See Cook, Albert E., assignor.)
- Cook, Charles C., and G. S. Walker, Saginaw, Mich. Therapeutic oscillator. 1,631,917; June 7.
- Cook, Charles L., Louisville, Ky. Gas or vapor engine, particularly steam engine. 1,627,427; May 3.
- Cook, Charles L., Louisville, Ky. Piston packing. 1,634,418; June 28.
- Cook, Charles L., Louisville, Ky. Measuring device. 1,652,889; Dec. 13.
- Cook, Charles L., Louisville, Ky. Crossing guard for railways and the like. 1,653,697; Dec. 27.
- Cook, Charles L., assignor to C. Lee Cook Manufacturing Company, Louisville, Ky. Piston packing. 1,624,159; Apr. 12.
- Cook, Charles R. (See Chapman, A. E., and Cook.)
- Cook, Clarence P., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. 1,620,999; Mar. 15.
- Cook, Clarence P., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. 1,621,105; Mar. 15.
- Cook, Clarence P., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. 1,643,944; Oct. 4.
- Cook, Edward G. (See Rotthouse, Charles A., assignor.)
- Cook Electric Company. (See Bogle, John C., assignor.)
- Cook, Everett J., assignor to The Dura Company, Toledo, Ohio. Retaining device for operatively connecting window-control mechanism to windows. 1,616,527; Feb. 8.
- Cook, Everett J., assignor to The Dura Company, Toledo, Ohio. Vehicle lamp mounting. 1,640,923; Aug. 30.
- Cook, Everett J., assignor to The Dura Company, Toledo, Ohio. Weather strip for sliding closures. 1,641,157; Sept. 6.
- Cook, Floyd J., Medford, Oreg. Assorting machine. 1,640,951; Oct. 25.
- Cook, George W., Cleveland, assignor of seventy-five per cent to A. J. Kleur, Lakewood, Ohio. Heating and drying device. 1,634,649; July 5.
- Cook, George C., Millington, N. J., and J. A. Coleman, Woodhaven, N. Y. Tube-cleaning projectile. 1,634,094; June 28.
- Cook, George E., Detroit, Mich. Automatic air-vaporizing device for radiators. 1,646,810; Oct. 25.
- Cook, George W., Doniphan, Mo. Washboard. 1,630,170; May 24.
- Cook, George W., Los Angeles, Calif. Adjusting device for brake-actuating mechanisms. 1,646,012; Oct. 18.
- Cook, George W., Rainier, Oreg. Steering-post guard. 1,647,903; Nov. 1.
- Cook, Hal L. (See Van Hamersveld, J. J. N., and Cook.)
- Cook, Harvey S., Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. Re16,836; Dec. 27.
- Cook, Harry, Sag Harbor, assignor to Joseph Fahys & Co., New York, N. Y. Making watchcases. 1,637,337; Aug. 2.
- Cook, Harris J. (See Bodner, C., and Cook.)
- Cook, Harris J., assignor to The Stanley Works, New Britain, Conn. Work rest. 1,624,888; Apr. 12.
- Cook, Henry D., Kingsway, London, and G. H. Lundgren, Putney, London, England. Pipe joint and connection. 1,622,763; Mar. 29.
- Cook, Herbert A., Bloomfield, N. J. Lustrous variegated plastic product and making same. 1,638,529; Aug. 9.

- Cook, Herbert R., assignor to Chicago Fuse Mfg. Co., Chicago, Ill. Outlet box. 1,642,442; Sept. 13.
- Cook, Howard D., Elyria, Ohio, assignor to National Tube Company. Method of and apparatus for forming pipe skelp. 1,650,607; Nov. 29.
- Cook, James, Hobokus, and P. Cook, Delawanna, N. J. Fabric-folding machine. 1,653,149; Dec. 20.
- Cook, James T., Jr., West Springfield, J. W. Murphy, Springfield, T. J. Brusnick, and H. C. Goldsmith, West Springfield, Mass. Metal-working apparatus. 1,645,372; Oct. 11.
- Cook, Jesse C. (See Austin, H. B., and Cook.)
- Cook, John, Nairobi, East Africa. Decorticating apparatus for the treatment of sisal and other fibrous leaves and stalks. 1,641,119; Aug. 30.
- Cook, John A., Franklin Furnace, N. J. Power attachment for mowers. 1,638,680; Aug. 9.
- Cook, John H., Salt Lake City, Utah. Window cleaner. 1,640,924; Aug. 30.
- Cook, John T., Howell, assignor of one-half to F. J. Finch, Jackson, Mich. Window screen. 1,632,022; June 14.
- Cook, John W. (See Boone, E. H., and Cook.)
- Cook, John W., Manchester, England. Apparatus for use in treating cotton and other fibrous materials. 1,629,968; May 17.
- Cook, Joseph, assignor to Blue Valley Creamery Company, Chicago, Ill. Liquid-measuring gauge. 1,619,919; Mar. 8.
- Cook, Joseph, assignor to Blue Valley Creamery Company, Chicago, Ill. Can steamer. 1,626,452; Apr. 26.
- Cook, L. D., Minneapolis, Minn. Adjustable frame for poster boards. 1,623,047; Apr. 5.
- Cook Laboratories, Inc. (See Cook, Harvey S., assignor.)
- Cook, Norman, Manchester, England. Lappet and thread guide of spinning, twisting, and like machines. 1,629,069; May 17.
- Cook, Orville B., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Temperature control for folding machines, etc. 1,626,515; Apr. 26.
- Cook, Percy. (See Cook, James and P.)
- Cook, Stanley S. (See Parsons, C. A., and Cook.)
- Cook, Stanley S. (See Parsons, C. A., Cook, and Kimber.)
- Cook, Theodore H. (See Butler, Henry R., assignor.)
- Cook, Thomas B., Los Angeles, Calif. Can holder. 1,638,681; Aug. 9.
- Cook, Thomas L., Scranton, Pa. Car underframe. 1,627,484; Mar. 3.
- Cook, Thomas R., and D. N. Smith, assignors to The Hudson Coal Company, Scranton, Pa. Safety mine hoist. 1,653,345; Dec. 20.
- Cook, Wilfred L., Miami, Fla. Building tile. 1,652,890; Dec. 13.
- Cook, William A. (See Stroup, E. P., and Cook.)
- Cook, William A., assignor to The Marion Machine, Foundry and Supply Company, Marion, Ind. Reversible clutch. 1,651,675; Dec. 6.
- Cook, William E. (See Vierling, F. J., and Cook.)
- Cook, William J., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Producing galvanized corrugated metal pipe. 1,623,618; Apr. 5.
- Cooke, Addie W., Memphis, Tenn. Window guard. 1,618,060; Feb. 15.
- Cooke, Alexander H., assignor to Atlantic Coast Fisheries Corporation of New York, New York, N. Y. Refrigerating apparatus. 1,644,455; Jan. 18.
- Cooke, Alfred E., assignor to Schaffer Poidometer Company, Pittsburgh, Pa. Continuous weighing apparatus. 1,638,244; Aug. 9.
- Cooke, Carl C. (See Fritz, W. A., and Cooke.)
- Cooke, Charles A., Sioux City, Iowa. Bridge-score recorder. 1,620,077; Mar. 8.
- Cooke, Charles J., Washington, D. C., and J. A. Rennie, New York, assignors to Charles E. Sheppard, Long Island City, N. Y. Repeating attachment for sound-reproducing machines. 1,631,797; June 7.
- Cooke, Conway W., assignor of one-half to W. M. MacNichol, Washington, D. C. Dispensing cap for bottles. 1,636,215; July 19.
- Cooke, Geoffrey H., London, England. Instrument for luminous indication of quantities. 1,629,680; May 24.
- Cooke, George, Martins Ferry, Ohio. Rolling-mill bearing. 1,621,711; Mar. 22.
- Cooke, George T., New York, N. Y. Safety lock for brake-pins. 1,628,119; Mar. 14.
- Cooke, George T., New York, N. Y., assignor to Union Metal Products Company, Chicago, Ill. End plate for railway box cars. 1,638,147; Aug. 9.
- Cooke, George T., New York, N. Y. End reinforcement for railway cars. 1,638,148; Aug. 9.
- Cooke, George W., Jamaica, N. Y., assignor to George W. Cooke Co., Inc. Faucet. 1,640,692; Aug. 30.
- Cooke, George W. Co. (See Cooke, George W., assignor.)
- Cooke, Harry, jr., Garfield, N. J. Traffic signal. 1,643,925; Sept. 27.
- Cooke, Hereward L., Princeton, N. J., assignor to Cooke Patents Incorporated, New York, N. Y. Photographic shutter. 1,623,995; Apr. 12.
- Cooke, Hereward L., Princeton, N. J., assignor to Cooke Patents Incorporated, New York, N. Y. Producing distorted images. 1,652,271; Dec. 13.
- Cooke, John O., Daytona Beach, Fla. Propulsion apparatus. 1,618,574; Feb. 22.
- Cooke, Maurice R., Plainfield, N. J., assignor to The M. W. Kellogg Company, Refrigeration. 1,651,513; Dec. 6.
- Cooke Patents Incorporated. (See Cooke, Hereward L., assignor.)
- Cooke, William E., Sydney, New South Wales, Australia. Clock. 1,630,891; May 31.
- Cooke, William H., assignor to Convertible Wagon Trailers Inc., Buffalo, N. Y. Street flusher. 1,623,778; Apr. 5.
- Cookinham, Edward F., assignor to Acme Road Machinery Company, Frankfurt, N. Y. Stone crusher. 1,620,078; Mar. 8.
- Cool, David E., St. Louis, Mo. Shoe. 1,640,067; Aug. 23.
- Coolbaugh, Melville F. (See Read, J. B., and Coolbaugh.)
- Cooley, Edward C., Elgin, Ill. Valve tool. 1,627,886; May 10.
- Cooley, Floyd S. and F. A. McHenry, Ill. Block wall and constructing same. 1,623,094; Apr. 5.
- Cooley, Frederick A. (See Cooley, Floyd S. and F. A.)
- Cooley, Henry B., assignor to The American Paper Goods Company, Kensington, Conn. Vending apparatus. 1,627,837; May 10.
- Coolidge, Joseph R., 3d, Brookline, assignor to Montan, Inc., Boston, Mass. Impregnating wood. 1,648,294; Nov. 8.
- Coolidge, Joseph R., 3d, Brookline, assignor to Montan, Inc., Boston, Mass. Impregnated wood and treating wood. 1,648,295; Nov. 8.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Regulating method and apparatus. 1,631,625; June 7.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Regulator for electrical discharges. 1,631,626; June 7.
- Coombes, William, Wollaton, England. Cutting fabrics into lengths or portions. 1,652,093; Dec. 6.
- Coombes, William, Nottingham, England. Cutting fabrics into lengths or portions and otherwise subsequently treating same. 1,652,095; Dec. 6.
- Coombs, Edward. (See Grimble, F., Caird, and Coombs.)
- Coombs, Edward A., Plainville, Mass., assignor to Whiting Chain Company, Bracelet. 1,622,769; Mar. 29.
- Coombs, Edward A., Plainville, Mass., assignor to Whiting Chain Company, Bracelet. 1,622,770; Mar. 29.
- Coon, Alvin R., Chester, Mont. Unitary frame for farm implements. 1,634,650; July 5.
- Coon, Chester C., Fresno, Calif. Come-along safety guard. 1,642,874; Sept. 20.
- Coon, Frederick M. (See Booth, Alba C., assignor.)
- Coon, Jennie M., Battle Creek, Mich. Abdominal supporter. 1,629,203; May 17.
- Coon, Leslie E., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,632,057; June 14.
- Cookey, Frank, Detroit, Mich. Shade-roller bracket. 1,633,069; June 21.
- Cooney, Peter A., Chicago, Ill., assignor, by mesne assignments, to Electric Production Appliance Corporation, New York, N. Y. Production meter. 1,616,023; Feb. 1.
- Cooney, Robert K., Toledo, Ohio, assignor to Campbell-Cooney Patents Co., Homer, Mich. Butter and cream treating process. Re16,562; Mar. 1.
- Cooney, Robert K., Toledo, Ohio, assignor to Campbell-Cooney Patents Co., Homer, Mich. Cream-treating process. Re16,576; Mar. 22.
- Cooney, Thomas F., New Haven, Conn. Fruit-coring device. 1,635,795; Aug. 9.
- Coons, Arthur M., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,649,891; Nov. 22.
- Coons, Burton C., assignor to Coons Manufacturing Company, Inc., Rochester, N. Y. Seed-cell-removing apparatus. 1,650,694; Nov. 29.
- Coons Manufacturing Company. (See Coons, Burton C., assignor.)
- Cooper, Abraham, Brooklyn, N. Y. Electric-lighting fixture. Des. 72,510; Apr. 26.
- Cooper, Albert J., Timaru, New Zealand. Concrete-wall boxing. 1,647,685; Nov. 1.
- Cooper, Allyn R., Marshalltown, Iowa. Dash control. 1,627,737; Apr. 2.
- Cooper, Alva H., Atlanta, Ga. Repair patch. 1,653,989; Dec. 27.
- Cooper, Basil P., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for leveling shoes. 1,615,869; Feb. 1.
- Cooper, Charles, and D. M. Henshaw, assignors to W. C. Heins and company, Limited, Huddersfield, England. Manufacture of fuel gases. 1,614,347; Jan. 11.
- Cooper, Charles G., and A. J. Dinkel, Yuma, Ariz. Grease gun. 1,621,657; Mar. 22.
- Cooper, Corbet, Beaver Dam, Ky. Photograph card and producing the same. 1,618,576; Feb. 22.
- Cooper Corporation, The. (See Percy, Leon O., assignor.)
- Cooper, Doctor L., Newton, Miss. Roll-paper holder and feeder. 1,615,359; Jan. 25.
- Cooper, Edward R. (See Larson, A. G., and Cooper.)
- Cooper, Edward R., San Leandro, and A. Larson, Piedmont, assignors of one-third to L. F. Larson, Oakland, Calif. Washing machine. 1,614,284; Jan. 11.
- Cooper, Francis W., Montreal, Quebec, Canada, assignor, by mesne assignments, to Stead Rail Anchors Incorporated, Wilmington, Del. Rail anchor. 1,618,576; Feb. 22.

- Cooper, Francis W., Montreal, Quebec, Canada, assignor to Stead Rail Anchors Incorporated, Wilmington, Del. Rail anchor. 1,618,577; Feb. 22.
- Cooper, George S. (See Larson, I. C., and Cooper.)
- Cooper, Glenn A. (See Back, R., and Cooper.)
- Cooper, Harold M., Marshalltown, Iowa. Gasoline gauge. 1,629,994; May 24.
- Cooper, Henry O., Columbia, S. C. Folding-check-book holder. 1,650,503; Nov. 29.
- Cooper, Herbert, Brooklyn, N. Y. Flexible tubing. 1,637,141; July 26.
- Cooper Hewitt Electric Company. (See Buttolph, Leroy J., assignor.)
- Cooper Hewitt Electric Company. (See Clover, George R., assignor.)
- Cooper Hewitt Electric Company. (See Hewitt, Peter C., assignor.)
- Cooper Hewitt Electric Company. (See Malley, Roy D., assignor.)
- Cooper Hewitt Electric Company. (See Walker, Warren K., assignor.)
- Cooper Hewitt Electrical Company. (See Rollinson, Earl K., assignor.)
- Cooper, Irving S. (See Méndez, Ciro F., assignor.)
- Cooper, James F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Balloon. 1,617,011; Feb. 8.
- Cooper, James H. (See Stukenborg, L. C., and Cooper.)
- Cooper, James M. (See Kathcart, Samuel M., assignor.)
- Cooper, John J., New York, N. Y. Apparatus for treating the abdomen. 1,618,916; Feb. 22.
- Cooper, John W. (See Taylor, R., and Cooper.)
- Cooper, Joseph M., Denver, Colo. Candy box. 1,625,192; Apr. 19.
- Cooper, Josephine W. (See Larson, A. G., and Cooper, assignors.)
- Cooper, Kenneth F., Great Neck, assignor to American Cyanamid Company, New York, N. Y. Producing heavy metal cyanides. 1,614,523; Jan. 18.
- Cooper, Kenneth F., Great Neck, assignor to American Cyanamid Company, New York, N. Y. Closure for shipping containers. 1,615,439; Jan. 25.
- Cooper, Kenneth F., Great Neck, assignor to American Cyanamid Company, New York, N. Y. Fumigating applicator. 1,642,920; Sept. 20.
- Cooper, Ollie C. (See Glazie, F. L., and Cooper.)
- Cooper, Owen, Thermometer Co., The. (See Whittier, Horace B., assignor.)
- Cooper, Robert S., Connellsville, Pa. Telephonic testing set. 1,615,974; Feb. 1.
- Cooper, Simon, Brooklyn, N. Y. Packaging machine. 1,628,120; May 10.
- Cooper, Simon, Brooklyn, N. Y. Cargo unloader. 1,638,474; Aug. 9.
- Cooper, Simon, assignor to Cooper Tea Packet Co., Inc., Brooklyn, N. Y. Tea bag. 1,629,612; May 24.
- Cooper Tea Packet Co. (See Cooper, Simon, assignor.)
- Cooper, Warren E., Flushing, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Multiple-unit tank car. 1,651,307; June 7.
- Cooper, William D., Palmyra, Mo. Loading machine. 1,627,485; May 3.
- Cooper, William D., White Bear, assignor of forty-nine two-hundredths to H. Wellner and forty-nine two-hundredths to R. C. Sweet, St. Paul, Minn. Telegraph transmitting instrument. 1,632,273; June 14.
- Coote, John M., Elizabeth, N. J., assignor to Coote Products Corporation, New York, N. Y. Electrical testing apparatus. 1,637,472; Aug. 2.
- Coote Products Corporation. (See Coote, John M., assignor.)
- Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Electric furnace. 1,624,217; Apr. 12.
- Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Recuperative furnace. 1,647,725; Nov. 1.
- Cope, Frank T., and R. F. Benzinger, assignors to The Electric Furnace Company, Salem, Ohio. Electric furnace. 1,647,726; Nov. 1.
- Cope, L. C., et al. (See Bowes, Thomas D., assignor.)
- Copeland, Asa B., Denver, Colo. Card game. 1,638,433; Aug. 9.
- Copeland, Francis C., San Francisco, Calif. Smoker's set. Des. 73,965; Nov. 29.
- Copeland, Jacob, Chicago, Ill. Retinoscope. 1,648,013; Nov. 8.
- Copeland, Lucius D., Los Angeles, Calif. Dirigible lamp for automobiles. 1,631,519; June 7.
- Copeland, Lucius D., Los Angeles, Calif. Steam boiler. 1,640,535; Aug. 30.
- Copeland Products, Inc. (See De Luiz, Edward R., assignor.)
- Copeland, Robert J., Toronto, Ontario, Canada. Golf tee. 1,627,012; May 3.
- Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)
- Copeman Laboratories Company. (See Sherman, George E., assignor.)
- Copeman, Lloyd G., Flint, Mich. Refrigerator construction. 1,644,981; Oct. 11.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Drinking-water supply for refrigerators. 1,618,514; Feb. 22.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Flash water cooler. 1,633,372; June 21.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Match-plate pattern. 1,644,368; Oct. 4.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator. 1,644,982; Oct. 11.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator. 1,644,983; Oct. 11.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator. 1,644,984; Oct. 11.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator manufacture. 1,644,985; Oct. 11.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator construction. 1,644,986; Oct. 11.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator. 1,644,987; Oct. 11.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Cabinet construction and building the same. 1,644,988; Oct. 11.
- Copeman, Percival G. (See Bagnall, J., and Copeman.)
- Copen, Simon I., Chelsea, Mass. Paste tube. 1,613,940; Jan. 11.
- Copliovich, Jacob, St. Paul, Minn. Automatic lighting means for gas stoves. 1,625,297; Apr. 19.
- Copliovich, Jacob, St. Paul, Minn. Gas stove. 1,625,298; Apr. 19.
- Copithorne, Walter E., Natick, Mass. Demountable rim. 1,636,045; July 19.
- Coplan, William, Baltimore, Md. Necktie. 1,616,113; Feb. 1.
- Copland, Alexander W., Detroit, Mich. Dough-depositing machine. 1,624,316; Apr. 12.
- Copland, Charles, Chicago, Ill., assignor to International Patents Development Company, Wilmington, Del. Making dextrose. 1,652,393; Dec. 13.
- Copland, James F., Hudson, Ohio, assignor to Una Welding and Bonding Company. Apparatus for use in uniting metallic articles. 1,651,343; Nov. 29.
- Copp, John F. (See Kerckhoff, D. C., and Copp.)
- Copp, Ralph. (See Kerckhoff, D. C., and Copp.)
- Coppock, Andrew J., Detroit, Mich. Humidifying device for use with internal-combustion engines. 1,631,308; June 7.
- Coppock, Andrew J., Detroit, Mich. Fuel vaporizer. 1,632,951; June 21.
- Coppock, Andrew J., Detroit, Mich. Auxiliary charge-forming device. 1,638,567; Aug. 9.
- Coppock, Frederick D., Greenville, Ohio. Concrete slab. 1,637,215; July 26.
- Coppock, Maurice J. (See Coppock, Paul W., assignor.)
- Coppock, Paul W., South Euclid, assignor to M. J. Coppock, Perry, Ohio. Oil stove. 1,641,475; Sept. 6.
- Coughlin, Emil H., Paris, France, assignor to Rudgewellworth Limited, Coventry, Warwick, England. Spoked metal wheel for motor vehicles and the like. 1,625,986; Apr. 26.
- Coram, George M., Utica, N. Y. Luminous body. 1,630,171; May 24.
- Coram, Roy E., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Secret signaling. 1,632,058; June 14.
- Corash, Julius H., et al. (See Methot, John A., assignor.)
- Corbett, Charles F., Edmonton, Alberta, Canada. Pipe for smoking tobacco. 1,630,832; May 31.
- Corbett, Edward L., et al. (See McDonald, John C., assignor.)
- Corbett, James, assignor of one-half to B. Cohen, Toronto, Ontario, Canada. Feather blade for use in rotary pumps, rotary engines, and like machines. 1,653,548; Dec. 20.
- Corbett, James C., Rochester, N. Y. Machine for washing, rinsing, and drying dishes. 1,626,022; Apr. 26.
- Corbett, Matt Q., Carnegie, Pa. Hangar floor valve. 1,634,382; July 5.
- Corbin, E. B., & Son. (See Albee, William H., assignor.)
- Corbin, B. A., & Son Company. (See Albee, William H., assignor.)
- Corbin, Elbert A., Jr., Philadelphia, Pa. Double-deck bus. 1,654,492; Dec. 27.
- Corbin, Emmett T., Hamilton, Ohio. Concrete-column type. 1,648,858; Sept. 27.
- Corbin, Henry T., assignor to Moline Implement Company, Moline, Ill. Agricultural implement. 1,647,607; Nov. 1.
- Corbitt, Hugh B. (See Dublin, H. E., and Corbitt.)
- Corcoran, Cornelius B., deceased, New York; M. J. Corcoran, administrator, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,643,005; Sept. 20.
- Corcoran, Louis A., assignor to S. Barnes, Indianapolis, Ind. Window fixture. 1,640,143; Aug. 23.
- Corcoran, Michael, Anaconda, Mont. Water-cooled roof for reverberatory furnaces. 1,635,819; July 12.
- Corcoran, Michael J., administrator. (See Corcoran, Cornelius B.)
- Corcoran, William E., South Plainfield, N. J. Device for supporting containers. 1,641,531; Sept. 6.
- Cord Tire Machine Company, The. (See Morris, Howard I., assignor.)

- Cordes, Silas, Boise, Idaho. Headlight attachment. 1,618,865; Feb. 22.
- Cordley, Christopher M. New York, N. Y. Beverage container. Des. 72,593; May 10.
- Cordell-Hyde Co. (See Eddins, Sextus A., assignor.)
- Cordray, Lee R., San Diego, Calif. Vehicle speed-limit indicating and control means. 1,634,069; June 28.
- Cordrey, Hancil, Chula Vista, Calif. Safety-razor-blade holder for stropping safety-razor blade. 1,652,517; Dec. 13.
- Cordrey, Joseph T., Auburn, Wash. Apparatus for reclaiming and sharpening files. 1,649,112; Nov. 8.
- Corell, Minnie D., New York, N. Y. Automobile doorlock. 1,614,656; Jan. 18.
- Coret, José, Habana, Cuba. Pedal operator for flush valves. 1,614,346; Jan. 11.
- Corey, Arthur R. (See Mentzer, Claude E., assignor.)
- Corey, Harry R., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. 1,644,989; Oct. 11.
- Corey, Howard S. (See Boehm, W. H., and Corey.)
- Corey, James H., Greenville, N. C. Device for locking the transmissions of automobiles, trucks, and other motor vehicles. 1,653,549; Dec. 20.
- Corey, Matt M., assignor to R. D. Swisher Mfg. Co., Chicago, Ill. Lock for pocket seals. 1,646,612; Oct. 25.
- Corkman, Clifford L., Spokane, Wash. Investment composition. 1,631,249; June 7.
- Corker, Joseph E., Fort Lee, N. J., assignor to Packard Motor Car Company, Detroit, Mich. Radiator-cap ornament. Des. 73,026; July 12.
- Corkran, Levin C., Rhodesdale, Md. Screen cleaner. 1,620,500; Aug. 16.
- Corkscrew Steel Fences Ltd. (See Watson, George D., assignor.)
- Corless, Thomas K., New York, N. Y. Turbine. 1,653,391; Dec. 20.
- Corlett, Edwin H., East Cleveland, Ohio. Method and apparatus for effecting optical projections. 1,626,787; May 3.
- Corlett, Edwin H., and M. W. Garnett, Cleveland, Ohio. Rectifying the scale and perspective of a picture. 1,654,070; Dec. 27.
- Corlett, Webster D. (See Ehrman, E. H., and Corlett.)
- Corley, Clarence M., and G. A. Blohm, assignors of one-ninth to F. P. Hall, one-ninth to N. L. Nelson, and one-ninth to W. R. Laird, Sioux Falls, S. Dak. Crank-case oil heater. 1,645,230; Oct. 11.
- Corley, Hugh R., Lexington, S. C. Liquid-dispensing apparatus. 1,641,577; Sept. 6.
- Corley, Marshall D., Norplie, Ark. Lubricant-transporting receptacle. 1,637,635; Aug. 2.
- Corman, Jean J. G. G., Verviers, Belgium. Combing machine. 1,620,325; Mar. 8.
- Cormay, Walter J., Auburndale, Mass. Outlet box and fixture support. 1,647,505; Nov. 1.
- Cornice, Alfred J., Long Beach, Calif. Shock-absorbing means for vehicles. 1,639,369; Aug. 16.
- Cornego, Manuel F., St. Louis, Mo. Assembling piston rings for finishing. 1,619,240; Mar. 1.
- Cornelius, John W., assignor to The Shellabarger Mills & Elevator Company, Salina, Kans. Process and apparatus for finishing mill rolls. 1,644,512; Oct. 4.
- Cornell, Fritz G., jr., Caldwell, N. J., assignor to W. H. Sheffield, New York, N. Y. Plug valve. 1,646,013; Oct. 18.
- Cornell, George V. D., Boundbrook, N. J. Puzzle. 1,636,216; July 19.
- Cornell, John E. (See Kronmiller, C. G., and Cornell.)
- Cornett, Sherman, Reece, Kans. Display sign and producing the same. 1,634,174; June 28.
- Corning, Charles S., Rockford, Ill., assignor to W. S. Corning, Chicago, Ill. Method and apparatus for treating hydrocarbons. 1,652,394; Dec. 13.
- Corning Glass Works. (See Fulcher, Gordon S., assignor.)
- Corning Glass Works. (See Littleton, Jesse T., assignor.)
- Corning Glass Works. (See Taitlor, William C., assignor.)
- Corning, Warren S. (See Corning, Charles S., assignor.)
- Corman, George W. W., and R. P. Brown, assignors to The Brown Instrument Company, Philadelphia, Pa. High-temperature thermometer. 1,615,505; Jan. 25.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to Gough Stemming Machine Corporation. Stemming machine. 1,641,120; Aug. 30.
- Cornwell, Arthur L., and L. R. Grames, Wellsville, N. Y. Wheel puller. 1,635,311; June 21.
- Cornwell, Carl, Oakland, Calif. Bifuel system for gas engines. 1,635,460; July 12.
- Cornwell, Virgil O., and A. Moeller, assignors to The Federal Glass Company, Columbus, Ohio. Method and apparatus for shaping articles of glass. 1,638,620; Aug. 9.
- Corona Corporation. (See Dahl, Thure, assignor.)
- Corrall, Herbert, Helensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Sewing mechanism for sewing machines. 1,618,605; Jan. 11.
- Corrall, Herbert, Helensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine attachment. 1,620,249; Mar. 8.
- Corrall, Herbert, Helensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Overedge-sewing machine. 1,647,394; Nov. 8.
- Correa, Frank M., Honolulu, Hawaii. Adjustable bedding clamp. 1,619,853; Mar. 8.
- Correa, Manuel P., jr., Kalawao, Hawaii. Figure toy. 1,631,918; June 7.
- Correct Measure Company. (See Foster, J. R., and Woodruff, assignors.)
- Correct Measure Company. (See MacKenzie, George W., assignor.)
- Correct Measure Company. (See Woodruff, F., and Foster, assignors.)
- Correct Measure Company. (See Woodruff, F., and MacKenzie, assignors.)
- Corrigan, Frederick S., assignor to The Sheet Metal Products Co. of Canada, Limited, Toronto, Ontario, Canada. Sink, washbasin, and the like. 1,635,311; July 12.
- Corrison, Katherine, Westerleigh, assignor to W. S. Swift, New York, N. Y. Revolver holster. 1,635,984; July 19.
- Corry, John S., San Pedro, Calif. Vanity case. 1,625,455; Apr. 19.
- Corsall, Friedrich W., Berlin, Germany. Smelting furnace. 1,647,608; Nov. 1.
- Corsi, Luigi, Turin, Italy. Heavy-oil internal-combustion engine. 1,621,525; Mar. 22.
- Corson, Blake W. (See Dalton, J. T., and Corson.)
- Corson, Larkwood, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Insecticide and making the same. 1,648,577; Nov. 8.
- Corson, Henry J., assignor of one-half to W. H. Comkie, Orville, Wash. Trap. 1,625,710; Apr. 19.
- Corson, Michael G. (See Korsunsky, Michael G.)
- Cortis, Augustus J. D., New York, N. Y. Douche nozzle. 1,632,541; June 14.
- Cortese, Sam, Dunsuir, Calif. Thread cutter for sewing machines. 1,626,329; Apr. 26.
- Corthell, Howard L. (See Hopkins, L. S. R., and Corthell.)
- Cortis-Stanford, Eric L., Birmingham, Mich., assignor to W. H. Nicholson & Company, Wilkes-Barre, Pa. Return trap. 1,636,626; July 19.
- Cortz, Louis, Long Beach, Calif. Quick-action waffle iron. 1,625,243; Apr. 19.
- Corwin, Frank E., Toledo, Ohio. Egg beater. 1,637,103; July 26.
- Corwin, Howard R., Newark, N. J. Liquid-head-maintaining device. 1,635,175; July 12.
- Cory, Chas. & Son, Incorporated. (See Wood, Frank W., assignor.)
- Cory, Russell C., and C. M. Terry, Chicago, Ill., assignors to A. W. Cash Company. Refrigerating system and appliance. 1,618,815; Feb. 22.
- Cory, Samuel I., Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Telegraph distortion-measuring system. 1,627,633; May 10.
- Cory, Samuel I., Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Telegraph distortion-measuring system. 1,628,392; May 10.
- Coryell, Charles N., Mamaroneck, N. Y. Vanity case. 1,620,251; Mar. 8.
- Coryell, Charles N., Mamaroneck, N. Y. Vanity case. 1,626,023; Apr. 26.
- Coryell, Charles N., New York, N. Y. Compact case. 1,625,114; Apr. 19.
- Coryell, Lewis E., Portland, Oreg. Level. 1,635,034; July 5.
- Coryto, William C., Youngstown, Ohio. Metal working. 1,618,515; Feb. 22.
- Coryell, William C., Youngstown, Ohio. Sash. 1,619,811; Mar. 8.
- Coryell, William C., assignor by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Coated metal lath. 1,637,410; Aug. 2.
- Coryell, William C., assignor, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Fabricated joist. 1,649,577; Nov. 15.
- Coryell, William C., and C. W. Noble, assignors, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Fabricated latticed girder. 1,617,200; Feb. 8.
- Cosby, Eric L. H., Teddington, England. Toothbrush. 1,631,013; May 31.
- Cosentino, Joseph, Clarksburg, W. Va. Shock absorber. 1,618,326; Feb. 22.
- Cossey, Henry M., Flint, Mich. Safety attachment for needles. 1,617,325; Feb. 15.
- Cosgro, Fred, Huntington Beach, Calif. Liquid gauge. 1,644,415; Oct. 4.
- Cosgrove, John T. (See Fron, Robert, assignor.)
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Applying apparatus. 1,620,802; Mar. 15.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,642,014; Sept. 13.
- Cosgrove, William T., Gardiner, Me. Hat or cap. 1,614,231; Jan. 11.
- Coslin, Joseph, Brooklyn, N. Y. Powder puff. 1,634,175; June 28.
- Cossey, John C. G. (See Mitchell, J., and Cossey.)
- Cossia, Santino, New York, and A. Triunfo, Corona, N. Y. Copy-pad composition. 1,646,391; Oct. 25.
- Cossins, Arthur, Nettlistend, near Maidstone, England. Display stand. 1,629,330; Apr. 26.

- Costa, Eugene S., Chattanooga, Tenn. Turn-page clamp. 1,646,747; Oct. 25.
- Costakos, Theodore M., Minneapolis, Minn. Measuring faucet for cream. 1,647,686; Nov. 1.
- Costanzo, Nicola, New York, N. Y. Vehicle tire. 1,634,253; July 5.
- Coste, Jean F. E., Billancourt, France. Resilient wheel for vehicles. 1,640,349; Aug. 30.
- Costello Engineering Company. (See Costello, Thomas J., assignor.)
- Costello, Frank T., Vacaville, Calif., assignor to Standard Spray Pump Company. Plunger pump. 1,625,299; Apr. 19.
- Costello, James P. (See Carlson, E. E., Costello, and H. Bronner.)
- Costello, Joseph A., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Hose and pipe coupling. 1,618,644; Jan. 11.
- Costello, Lawrence A., Washington, D. C. Battery-repair tool. 1,647,395; Nov. 1.
- Costello, Rose M., et al., executors. (See Costello, Thomas H., assignor.)
- Costello, Rose M., trustee. (See Costello, Thomas H., assignor.)
- Costello, Thomas H., deceased, Chicago, Ill.; to R. M. Costello and W. E. Costello, executors, assignors to R. M. Costello, trustee. Hinge. 1,627,274; May 3.
- Costello, Thomas H., deceased, Chicago, Ill.; to R. M. Costello and W. E. Costello, executors, assignors to R. M. Costello, trustee. Friction hinge. 1,627,275; May 3.
- Costello, Thomas H., deceased, Chicago, Ill.; to R. M. Costello and W. E. Costello, executors, assignors to R. M. Costello, trustee. Map rack. 1,627,276; May 3.
- Costello, Thomas J., Warren, Ohio, assignor, by mesne assignments, to Costello Engineering Company, Pittsburgh, Pa. Pair-heating furnace and method of heat-treating material. Re16,526; Jan. 11.
- Costello, Thomas J., Warren, Ohio, assignor, by mesne assignments, to Costello Engineering Company, Pittsburgh, Pa. Operating heating furnaces. Re16,527; Jan. 11.
- Costello, William E., et al., executors. (See Costello, Thomas H., assignor.)
- Costello, William P. (See Kevlin, M. F., and Costello.)
- Costelow, John F. (See Sunderland, J. C., and Costelow.)
- Coster, Dirk, Haarlem, Netherlands, and G. Von Hevesy, Copenhagen, Denmark, assignors to Naamlooze Venootschap Philips' Gloeilampenfabrieken, Eindhoven. Separating zirconium and hafnium. 1,618,960; Feb. 22.
- Cote, Alfred, Montreal, Quebec, Canada. Electric water heater. 1,632,821; June 21.
- Cote, Edward V. (See Cote, Theodore, and E. V.)
- Cote, Theodore, and E. V. Cote, Tupper Lake, N. Y. Holding device for chairs. 1,629,204; May 17.
- Cotta, Charles, Rockford, Ill. Transmission-control mechanism. 1,638,149; Aug. 9.
- Cottaz, Charles A., New York, N. Y. Textile fabric. Des. 74,098; Dec. 20.
- Cottaz, Charles A., New York, N. Y. Textile fabric. Des. 74,099; Dec. 20.
- Cotter, Thomas, et al. (See Reed, Albert C., assignor.)
- Cotter, William F., assignor to Federal Telephone Manufacturing Corporation, Buffalo, N. Y. Heterodyne receiving system. 1,647,609; Nov. 1.
- Cotterill, Walter, Philadelphia, Pa. Clutch-control device. 1,634,983; July 5.
- Cotterman, Roy E., Farmersville, Ohio. Apparatus for the separation of volatile products from solid carbonaceous material. 1,650,191; Nov. 22.
- Cottman, Henry E., et al. (See Anthony, Daniel L., assignor.)
- Cotton, Alfred, deceased, by L. P. Cotton, executrix, assignor to Heine Boiler Company, St. Louis, Mo. Terminal connection for removable tubes. 1,651,016; Nov. 29.
- Cotton, Emmett W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-vulcanizing apparatus. 1,616,076; Feb. 1.
- Cotton, Laura P., executrix. (See Cotton, Alfred.)
- Cotton, Walter H., Chicago, Ill. Draft gear. 1,614,657; Jan. 18.
- Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,624,929; Apr. 19.
- Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,648,206; Nov. 8.
- Cotton, William, Limited. (See Aldridge, Charles H., assignor.)
- Cotton, William, Höchst-on-the-Main, Germany, assignor to Grassell Dyestuff Corporation, New York, N. Y. Obtaining fast-colored discharges on fast dyes. 1,638,476; Aug. 9.
- Cottonwood, Fiber Company. (See Loepfe, Charles M., assignor.)
- Cottrell, John, West Liberty, Ohio. Wrench. 1,615,440; Jan. 25.
- Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
- Cottrell, C. B., & Sons Company. (See Greenway, Richard J., assignor.)
- Cottrell, Holland D., Detroit, Mich. Loose-leaf binder. 1,653,892; Dec. 20.
- Cottrell, John, and J. Marker, Ionia, Mich. Valve lifter. 1,627,957; May 10.
- Cottrell, Norman M., Chicago, Ill. Fountain brush. 1,635,114; July 5.
- Coty, Francois J. de S., Paris, France, assignor to Coty, Inc., New York, N. Y. Bottle. Des. 71,779; Jan. 4.
- Coty, Francois J. de S., Paris, France, assignor to Coty, Inc., New York, N. Y. Glass jar. Des. 71,955; Feb. 8.
- Coty, Inc. (See Coty, Francois J. de S., assignor.)
- Coudade, Maurice, assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Obviating the action of heat in a projector upon the backing of the images to be projected. 1,652,817; Dec. 13.
- Couch, Buel, Sioux City, Iowa. Loose-leaf binder. 1,641,662; Sept. 6.
- Couch, David H., Warwick, R. I. Shaft coupling. 1,613,502; Jan. 4.
- Couch, David H., Warwick, R. I. Rotary drier. 1,645,373; Oct. 11.
- Couch, Elbert L., Mamaroneck, N. Y., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Machine for washing dishes and other articles. 1,640,893; Aug. 30.
- Couch, Frederick F., New Brunswick, assignor to Federated Engineers Development Corporation, Jersey City, N. J. Valve. 1,624,213; Apr. 12.
- Couch, Glenn F., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,634,398; July 5.
- Couchman, Archie, and W. L. Phillips, assignors of one-third to L. F. Drinkbahn, Detroit, Mich. Lubricator. 1,622,026; Mar. 22.
- Couchman, Archie, L. F. Drinkbahn, and W. L. Phillips, Detroit, Mich. Lubricating system. 1,622,027; Mar. 22.
- Coufal, John, Bomarton, Tex. Lock for automobile steering wheels. 1,654,456; Dec. 27.
- Cough, Adoniram B., Watertown, Mass. Dental cleansing device. 1,637,738; Aug. 2.
- Coughlin, J. M. (See Moone, Albert E. F., assignor.)
- Coughlin, John H., Clinton, Mass. Packaging breakable articles. 1,629,995; May 24.
- Coughlin, Joseph D., New York, N. Y., assignor of one-third to R. Eckert and one-third to P. Koromes. Attachment for stoppers and the like. 1,650,264; Nov. 22.
- Coughlin, Robert J., Richmond Heights, Mo. Refrigerator. 1,647,785; Nov. 1.
- Coughlin, William G., Philadelphia, Pa. Rail. 1,610,403; Mar. 1.
- Coughlin, William G., Philadelphia, Pa. Rail-joint support. 1,632,998; June 21.
- Coughlin, William G., Philadelphia, Pa. Rail-holding device for anticreep. 1,640,925; Aug. 30.
- Coughtry, Arthur J., Portsmouth, N. H. Motion-retarding mechanism (fire escape). 1,647,506; Nov. 1.
- Coullery, Henri, La Chaux de Fonds, Switzerland. Calliper. 1,634,019; June 28.
- Coulshaw, Charles J. A., assignor to R. Arkell, London, England. Seasoning and maturing brewer's-wood tobacco pipes. 1,652,349; Dec. 13.
- Coulston, Earl V., Rock Island, Ill. Metal door construction. 1,623,334; Apr. 5.
- Coulston, Earl V., Cleveland Heights, Ohio. Stove. 1,653,003; Dec. 20.
- Coultais, Wilbur J., assignor to Deere & Company, Moline, Ill. Crank holder. 1,622,028; Mar. 22.
- Coultais, Wilbur J., assignor to Deere & Company, Moline, Ill. Clevis. 1,632,175; June 14.
- Coultais, Wilbur J., assignor to Deere & Company, Moline, Ill. Sheaf carrier. 1,644,874; Oct. 11.
- Coultais, Wilbur J., assignor to Deere & Company, Moline, Ill. Lever system for power-drawn harvesters. 1,648,113; Nov. 8.
- Coultais, William L., Jr., Sanford, N. Y. Treating hydrocarbon oils. 1,628,530; May 10.
- Council, John G., assignor to McCallum Hosiery Co., Northampton, Mass. Run-stop course for knitted fabrics. 1,632,999; June 21.
- Cound, Samuel R. (See Davies, H. L., and Cound.)
- Counts, Charles B., assignor of one-half to H. B. Easterham, Hampton, Ark. Door for cottonseed boxes. 1,619,784; Mar. 1.
- Coup, Charles R., McKeesport, Pa. Milk bottle. 1,654,239; Dec. 27.
- Coupland, Richard C., U. S. Army, Dayton, Ohio. Electrical control system. 1,639,987; Aug. 23.
- Coupland, Richard C., Dayton, Ohio. Counting or registering apparatus for machine guns. 1,653,693; Dec. 27.
- Coures, Frank, et al. (See Allen, Charles S., assignor.)
- Court, Frank T., Independence, and A. B. Walker, Cedar Rapids, Iowa. Tractor-drawn cultivator. 1,648,639; Nov. 8.
- Courtaulds Limited. (See Clément, L., and Rivière, assignors.)
- Courtaulds Limited. (See Glover, W. H., and Van Weyenbergh, assignors.)
- Courtenay, Frederick D., Chicago, Ill., assignor to Embosograph Corporation of America, New York, N. Y. Making embossed show cards. 1,646,613; Oct. 25.
- Courtis, Rene C., Martinez, Calif. Dispensing cabinet. 1,621,971; Mar. 22.
- Courtney, Louis J. (See Heffelfinger, L. W., and Courtney.)
- Courtney, S. Jennie. (See Palmer, Ralph V., assignor.)
- Courtois, Gaston F., Lyon, France. Device for spraying liquids. 1,651,808; Dec. 6.

- Cousin, Arthur J. F. J., assignor to Société Anonyme John Cockerill, Seraing, Belgium. Checkerwork. 1,648,164; Nov. 8.
- Cousinard, Albert, Courbevoile, France. Friction gripping means. 1,617,745; Feb. 15.
- Cousins, Annie. (See Cousins, Clarence C., assignor.)
- Cousins, Clarence C., assignor of one-third to A. Cousins, Alton, Ill. Safety valve for the train lines of air-brake systems. 1,647,959; Nov. 1.
- Couslin, Joseph, East Vandergrift, Pa. Clasp. 1,634,321; Aug. 5.
- Coutant, George E., Decatur, Ill. Buffer device for railway cars. 1,652,395; Dec. 13.
- Coutant, George E., Decatur, assignor to Union Metal Products Company, Chicago, Ill. Corrugated end wall for railway cars. 1,645,182; Oct. 11.
- Coutif, Georges, Paris, France. Tooth facing. 1,638,630; Aug. 16.
- Couts, Oliver C., Lansing, Mich. Combined oil gauge and drain device for crank cases. 1,613,312; Jan. 4.
- Covalence, Leon, Linden, N. J. Door bumper. 1,628,826; May 17.
- Covey, Nathan E., Newtonville, Mass. Package. 1,628,121; Aug. 10.
- Covenry, William A., Lancaster, assignor to Grey Iron Casting Company, Mount Joy, Pa. Pulley. 1,634,773; July 5.
- Cover, Henry T., and E. Bond, London, England. Apparatus for breaking up concrete-road foundations and like structures. 1,644,110; Oct. 4.
- Cover, Jay D., Huntington, W. Va. Metal joist. 1,629,479; May 24.
- Cover, Lester E., assignor to Armstrong Cork Company, Pittsburgh, Pa. Fire-resisting container. 1,652,853; Dec. 13.
- Cover, Ralph, Baltimore, Md. Corn-husking machine and method. 1,627,858; May 10.
- Covey, Charles A., San Antonio, Tex. Cement-block mold. 1,647,436; Nov. 1.
- Covey, Charles A., San Antonio, Tex., assignor of one-half to C. V. Birkhead. Clamp. 1,653,990; Dec. 27.
- Covey, Mark H., Blue Mountain, Miss. Bedstead. 1,640,754; Aug. 30.
- Coville, John E., assignor of one-third to T. W. McNichol and one-third to T. T. McNichol, Swampscott, Mass. Cutter head. 1,639,488; Aug. 16.
- Cowan, Arch D., assignor to Patent Novelty Company, Fulton, Ill. Mail box. Des. 73,739; Nov. 1.
- Cowan, Charles H., New Rochelle, N. Y., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Cabinet for sound-reproducing mechanism. Des. 72,087; Mar. 1.
- Cowan, Charles H., New Rochelle, N. Y., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Cabinet for sound-reproducing mechanism. Des. 72,088; Mar. 1.
- Cowan, Charles H., New Rochelle, N. Y., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Cabinet for sound-reproducing mechanism. Des. 72,089; Mar. 1.
- Cowan, Frank, Perry, assignor to National Sales Company, Des Moines, Iowa. Wringer. 1,652,427; Dec. 13.
- Cowan, Nathan, Chicago, Ill. Meat-block cleaner. 1,622,182; Mar. 22.
- Cowan, R. Guy. (See Sinz, Walter A., assignor.)
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,594; May 10.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,595; May 10.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,596; May 10.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,597; May 10.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,598; May 10.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,599; May 10.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,600; May 10.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 72,601; May 10.
- Coward, William M., Neutral Bay, near Sydney, New South Wales, Australia. Rotary distributing valve and valve gearing for steam and other fluid-pressure engines. 1,647,561; Nov. 1.
- Cowden, Robert E., receiver. (See Thies, Urban C., assignor.)
- Cowdery, Robert H., Geneva, Ohio. Golf-club shaft or the like. Des. 73,777; Nov. 8.
- Cowdrey, Charles F., Fitchburg, Mass. Torque-measuring machine. 1,643,151; Sept. 20.
- Cowdrey, Charles F., Fitchburg, assignor to Muther Manufacturing Company, Boston, Mass. Pedal depressor. 1,615,798; Jan. 25.
- Cowdrey, Charles F., Fitchburg, assignor to Muther Manufacturing Company, Boston, Mass. Brake-testing instrument. 1,624,219; Apr. 12.
- Cowdrey, Charles F., Fitchburg, assignor to Muther Manufacturing Company, Boston, Mass. Indicating instrument. 1,630,833; May 31.
- Cowell, Frederick A. (See Mensforth, H. and Cowell.)
- Cowell, George H. (See Webb, Edward C., assignor.)
- Cowen, Joshua L., New York, N. Y., assignor to The Lionel Corporation. Toy train track. Re16,580; Mar. 29.
- Cowie, John, Sutherland, Saskatchewan, Canada. Stovepipe damper. 1,627,013; May 3.
- Cowin, James, Minneapolis, Minn. Silo door and ladder structure. 1,652,428; Dec. 13.
- Cowies, Andrew E., Kellogg, Idaho. Electric water heater. 1,615,166; Jan. 18.
- Cowies, Charles E., El Paso, Tex. Directory. 1,637,685; Aug. 2.
- Cowles, Irving, Chicago, Ill. Force-feed lubricating system, etc. 1,652,764; Dec. 13.
- Cowles, Irving, assignor to Union Bank of Chicago, trustee, Chicago, Ill. Force-feed lubricating device. 1,652,765; Dec. 13.
- Cowley, Hiram B., Ensley, Ala. Guard means for railway rails. 1,614,658; Jan. 18.
- Cowley, James T., assignor to The Lamson Company, Syracuse, N. Y. Controlling apparatus for pneumatic-dispatch systems. 1,615,932; Feb. 1.
- Cowley, James T., assignor to The Lamson Company, Syracuse, N. Y. Power-control device for pneumatic-dispatch systems. 1,619,707; Mar. 1.
- Cowley, James T., Syracuse, N. Y., assignor to The Lamson Company, Boston, Mass. Pressure-control mechanism for pneumatic-dispatch systems. 1,628,600; May 10.
- Cowlin, Arthur H., Sidney, British Columbia, Canada. Interchangeable rubber heel. 1,643,294; Sept. 27.
- Cowperthwait, George L., Clarks Summit, Pa. Locking bar and plate for railway-switch points. 1,641,678; Sept. 27.
- Cox, Abram, Stove Company. (See Mott, Abram C., Jr., assignor.)
- Cox, Andrew L., Renton, Wash. Target game. 1,650,935; Nov. 29.
- Cox, Bertram, London, England. Holder for labels. 1,636,500; July 19.
- Cox, Burton K., Jacksonville, Fla. Combined bumper and jack. 1,627,317; May 3.
- Cox, Claude E., Detroit, Mich. Testing and recording device. 1,638,657; Aug. 9.
- Cox, David H., Roselle, N. J. Tire-repair device. 1,621,154; Mar. 15.
- Cox, Floyd, Sheridan, Wyo. Trailer coupler and brake actuator. 1,613,086; Jan. 4.
- Cox, Floyd, assignor of one-fifth to E. W. Swan, Sheridan, Wyo. Pipe wrench. 1,626,453; Apr. 26.
- Cox, George E., Niagara Falls, assignor to American Cyanamid Company, New York, N. Y. Cooling wheel. 1,649,511; Nov. 15.
- Cox, George H., Detroit, Mich. Cooking appliance. 1,642,604; Sept. 13.
- Cox, George M., assignor of one-half to J. Marx, Mobile, Ala. Pot feeder for type-casting machines. 1,631,014; May 31.
- Cox, George W., Jr., assignor to National Assorting Company, Washington, D. C. Sorting device. 1,625,711; Apr. 19.
- Cox, Harold N., Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company. Optical attachment. 1,645,374; Oct. 11.
- Cox, Harold N., Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company. Color photography. 1,645,417; Oct. 11.
- Cox, Herbert T., Los Angeles, Calif. Card rack. 1,629,070; Mar. 17.
- Cox, Irwin W., Denver, Colo. Dry-steam sleeve-finishing board. 1,625,935; Apr. 26.
- Cox, Irwin W., Denver, Colo. Dry-steam sleeve board. 1,634,471; July 5.
- Cox, Irwin W., Denver, Colo. Dry-steam sleeve-finishing board. 1,636,590; July 19.
- Cox, John L., Plainview, Nebr. Medical appliance. 1,622,903; Mar. 29.
- Cox, Joseph D., Healdsburg, Calif. Holder for bags during filling operation. 1,653,393; Dec. 20.
- Cox, Louis T., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,632,766; June 27.
- Cox, Millard B., Louisville, Ky. Feed-water heater. 1,627,595; May 10.
- Cox Multi-Color Photo Company. (See Cox, Harold N., assignor.)
- Cox, Nostrand & Gunnison, Inc. (See Nostrand, Elijah H., assignor.)
- Cox, Oscar. (See Willis, O. C. and Cox.)
- Cox, Robert N. (See Griffey, Dinney F., assignor.)
- Cox, Stephen A. D., Huntington Beach, Calif. Gas-burner deflector. 1,618,269; Feb. 22.
- Cox, Stephen A. D., Ontario, Calif. Rotary-disk boring tool. 1,618,270; Feb. 22.
- Cox, Walter J., Bridgeport, Conn. assignor to Franklin Railway Supply Company. Device for lubricating locomotive-axle journals. 1,620,520; Mar. 8.
- Cox, William G., Cleveland, Ohio. Shock absorber for spring vehicles. 1,634,095; June 28.
- Cox, William G., Cleveland, Ohio. Shock absorber. 1,649,447; Nov. 16.
- Cox, William G., Cleveland, Ohio, assignor to The Eaton Axle and Spring Company. Automobile bumper and fitting. 1,630,374; May 31.
- Cox, William J., Lebanon, Pa. Brush. 1,631,015; May 31.
- Coxon, Albert. (See Birkin, Charles W. and H. L. and Coxon.)

- Coyer, Henry S., New York, N. Y. Metallic oscillion and constructing same. 1,632,164; Dec. 13.
- Coyne, Albert A., St. Louis, Mo. Calipers. 1,617,669; Feb. 15.
- Coyne, Claud L., Clarence, Mo. Vanity case. Des. 72,602; May 10.
- Coyne, Edward S., Naton, Alberta, Canada. Automatic gate. 1,613,872; Jan. 11.
- Coyne, John, Baltimore, Md. Sheet-metal container. 1,616,305; Feb. 1.
- Coyne, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Seaming head for can-closing machines. 1,647,687; Nov. 1.
- Coyne, Joseph L., Los Angeles, Calif. Processing machine. 1,637,686; Aug. 2.
- Coyne, Albert E., Sheffield, assignor to A. Page, Leeds, England. Brush. 1,627,634; May 10.
- Coyne, Stephen, New York, N. Y. Ignition system. 1,652,094; Dec. 6.
- Cozart, R. B. (See Williams, Alvin L. and M. O., assignors.)
- Cozy Baby Carriage Co. (See Mahr, Julius A., assignor.)
- Cozzens Trading Company. (See Fitch, Frank E., assignor.)
- Cozzolino, Saverio, Bossburg, Wash. Refrigerator. 1,639,591; Aug. 16.
- Cozzone, John A., Newark, N. J. Dough-forming machine. 1,653,036; Dec. 20.
- Crabbs, Bernard E. (See Morgal, John F., assignor.)
- Crabbs, Herbert J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Disconnecting switch. 1,633,979; June 28.
- Crabtree, David. (See Spink, A., and Crabtree.)
- Crabtree, David and T. H., Bradford, England. Loom for weaving pile or plush fabrics. 1,651,676; Dec. 6.
- Crabtree, R. W., & Sons, Limited. (See Smith, Edgar W., assignor.)
- Craig, Thomas H. (See Crabtree, David and T. H.)
- Cradick, Joel B., Los Angeles, Calif. Clutch. 1,643,543; Sept. 27.
- Cradcock, William P., Denver, Colo. Scarf holder. 1,645,128; Oct. 11.
- Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Condenser. 1,629,020; May 13.
- Craft, Edward B., Hackensack, N. J., and L. Keller, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y. Trouble-indicating system. 1,614,285; Jan. 11.
- Crafts, Otis T., assignor to Crafts Process, Inc., Manchester, N. H. Making heel bases. 1,652,610; Dec. 13.
- Crafts Process, Inc. (See Crafts, Otis T., assignor.)
- Cragg, George L., Chicago, Ill., assignor to H. A. Douglas, Bronson, Mich. Locking mechanism. 1,618,752; Feb. 22.
- Cragg, George L., Chicago, Ill., assignor to H. A. Douglas, Bronson, Mich. Electric switch. 1,634,455; July 5.
- Craib, Frederick, Martinez, Calif. Electric wall bracket. Des. 71,852; Jan. 18.
- Craib, Frederick, Martinez, Calif. Electric wall bracket. Des. 73,369; Aug. 30.
- Craig, Andrew, Motutapu Island, New Zealand. Plow colter. 1,627,277; May 3.
- Craig, Andrew, Los Angeles, Calif. Cover wrench and can opener. 1,638,185; Aug. 9.
- Craig, Arthur A., Chicago, Ill. Window ventilator. 1,633,022; Jan. 11.
- Craig, Arthur B., Bethesda, Md. Rotary internal-combustion engine. 1,615,110; Jan. 18.
- Craig, Burnie J., Los Angeles, Calif. Baseball glove. 1,633,926; June 28.
- Craig, Charles, Boksburg, Transvaal, South Africa. Device for supporting the hand while writing. 1,627,635; May 10.
- Craig, Charles C., San Francisco, Calif. Egg-dumping board. 1,622,493; Mar. 29.
- Craig Damper Regulator Company. (See Howse, Curtis L., assignor.)
- Craig, Edward, St. Joseph, assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich. Hoop-making machine. 1,643,487; Sept. 25.
- Craig, John F. (See Cass, C. P., and Craig.)
- Craig, John F., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Vehicle brake mechanism. 1,633,773; June 28.
- Craig, John M., Ogden, Utah. Gas-engine-control device. 1,618,753; Feb. 22.
- Craig, John R., et al. (See Turner, F. J., and Starck, assignors.)
- Craig, Orvel J., Minneapolis, Minn. Fastening device. 1,620,874; Mar. 15.
- Craig, Robert, Dayton, Ohio. Hydraulic press. 1,624,160; Apr. 12.
- Craig, Robert, Maplewood, N. J. Transfer turntable. 1,633,980; June 28.
- Craig, Robert, assignor to Dayton Scale Company, Dayton, Ohio. Scale casing. 1,635,661; July 12.
- Craig, Robert F. (See Hornbuckle, W. P., and Craig.)
- Craig, John M., Hartford, Conn. Dental marking device. 1,629,861; May 24.
- Craigson, Adam, Toronto, Ontario, Canada. Internal-combustion engine. 1,635,742; July 12.
- Crain, Harry G., assignor of one-half to J. P. Lair, Canisteo, N. Y. Magnetic stencil and work holder. 1,624,538; Apr. 12.
- Crain, John, Painesville, Ohio. Stove. 1,632,176; June 14.
- Crain, Lewis F. (See Allerheiligen, A. H., Erichsen, and Crain.)
- Crain, Robert S. (See Wilson, Robert J., assignor.)
- Crain, Rollie, Marion, assignor to B. Peterson Company, Johnston City, Ill. Fuel-feed apparatus for internal-combustion engines. 1,642,579; Sept. 13.
- Cram, Danvers, Newport, Me. Filling-mill stop motion. 1,651,514; Dec. 6.
- Cram, Hervey G., assignor to Great Northern Paper Company, Millinocket, Me. Paper-making apparatus. 1,629,681; May 24.
- Cramblet, Paul K., Beloit, Wis. Switch. 1,625,456; Apr. 19.
- Cramer, Albert N., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-feeding mechanism. 1,618,271; Feb. 22.
- Cramer, Albert N., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for transferring glass articles. 1,638,920; Aug. 16.
- Cramer, Bessie E., Garnett, Kans. Can washer and steamer. 1,626,516; Apr. 26.
- Cramer, Harry B., San Diego, Calif. Baking pan. 1,625,525; Apr. 19.
- Cramer, John C., Dayton, Ohio. Smoker's stand. Des. 73,281; Aug. 23.
- Cramer, John E., Carrollton, Ga. Aquatic signboard. 1,628,393; May 10.
- Cramer, Raymond H., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Feeding mechanism. 1,646,418; Oct. 11.
- Cramer, Robert, Chicago, Ill., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Refrigerating apparatus. 1,642,015; Sept. 13.
- Cramer, Stuart W., Crumetown, and W. B. Hodge, assignors to Wm. B. Hodge Company, Charlotte, N. C. Humidifier. 1,626,667; May 3.
- Cramer, Stuart W., Crumetown, and W. B. Hodge, assignors to Wm. B. Hodge Company, Charlotte, N. C. Humidifier. 1,626,667; May 3.
- Cramer, Stuart W., Crumetown, and W. B. Hodge, assignors to Wm. B. Hodge Company, Charlotte, N. C. Humidifier. 1,626,668; May 3.
- Crandall, Thomas H., Long Beach, and G. A. Connell, Wilmington, Del., assignors to Pacific Coast Box Company, treating fruit and solution therefor. 1,635,461; July 12.
- Cramer, William. (See Monroe, H. L., and Cramer.)
- Cramer, William, St. Louis, Mo., assignor, by mesne assignments to I. M. Jacobs. Belt-lacing device. 1,640,822; Aug. 30.
- Crampton, Barry B. (See Winters, A. F., and Crampton.)
- Crampton, George S., Philadelphia, Pa. Trial lens mounting for oculists and opticians. 1,626,669; May 3.
- Crandall, Arvid S., Chicago, Ill. Light reflector. 1,621,312; Mar. 15.
- Crandall, Franklin E., and A. S. Vogel, Brooklyn, N. Y. Shaving kit. 1,615,743; Jan. 25.
- Crandall, George W., Plattsmouth, Nebr. Electric torch for welding, brazing, and cutting. 1,650,431; Nov. 22.
- Crandall, Max E., Kingfisher, Okla. Valve-actuating mechanism. 1,614,830; Jan. 18.
- Crane & Breed Manufacturing Company, The. (See Davoran, Michael F., assignor.)
- Crane, Charles H., Kansas City, Mo. Car-door mechanism. 1,621,838; Mar. 22.
- Crane, Charles J., Santa Paula, Calif. Drier. 1,648,640; Nov. 8.
- Crane Co. (See Allen, William E., assignor.)
- Crane Co. (See Beckwith, Clinton H., assignor.)
- Crane Co. (See Wolf, Louis, assignor.)
- Crane, Daniel, Saginaw, Mich., assignor of one-half to J. G. Crane, Kendaia, N. Y. Table. Des. 72,891; June 21.
- Crane, James G. (See Crane, Daniel, assignor.)
- Crane, John T., Los Angeles, Calif. Brake. 1,637,894; Aug. 2.
- Crane, Leslie, assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt. Wheel for grinding heads. 1,616,889; Feb. 8.
- Crane Packing Company. (See Cody, Martin M., assignor.)
- Crane Packing Company. (See Payne, Frank E., assignor.)
- Crane, Pearl M., Kansas City, Mo. Pantaloon dress. 1,626,024; Apr. 26.
- Crane, Richard. (See Snadecki, William J., assignor.)
- Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Advertising scale. 1,640,112; Aug. 23.
- Crankless Engines (Aus) Proprietary Limited. (See Michell, Anthony G. M., assignor.)
- Crankless Engines Limited. (See Michell, Anthony G. M., assignor.)
- Cranksbury, Richard L., Dunleavy, Gweedore, Ireland. Golf club. 1,619,566; Mar. 1.
- Cranell, Orlo G., Lynn, Mass. Coupling means for chains. 1,632,697; June 14.
- Cranell, Orlo G., assignor of two-fifths to O. M. Cranell, Revere, Mass. Ventilating system. 1,642,605; Sept. 13.
- Cranell, Orlo M. (See Cranell, Orlo G., assignor.)
- Cranston, Louie C., Kansas City, Mo. Container for transporting hot food. 1,622,494; Mar. 29.

- Crary, James H., New York, N. Y. Hull construction. 1,613,645; Jan. 11.
- Crary, James H., New York, N. Y. Internal-combustion engine. 1,652,930; Dec. 13.
- Craslinneck, Jake N., San Antonio, Tex. Binding for shoeheel fasteners. 1,646,475; Oct. 25.
- Craun, Noel E., Bogota, N. J. Power-transmission device. 1,626,270; Apr. 26.
- Cravath, Albert S., Holtville, Calif. Float-controlled float-valve. 1,636,556; Aug. 16.
- Craven, Andrew J., Brooklyn, N. Y. Chair. 1,652,165; Dec. 13.
- Craven, John L., Indianapolis, Ind. Toy motor. 1,631,016; May 31.
- Craven, Robert J., Battle Creek, Mich. Combination of boom and door holder. 1,636,627; July 19.
- Cravens, Frank S., Olive Hill, Ky. Valve. 1,627,486; May 3.
- Cravens, Graham H., Kansas City, Mo., assignor of one-half to F. P. Sargent, Leavenworth, Kans. Trailer truck. 1,648,676; Nov. 8.
- Cravens, Ridgeway M., Brooklyn, N. Y. Resilient vehicle wheel. 1,650,609; Nov. 29.
- Cravens, Ridgeway M., Brooklyn, N. Y. Resilient vehicle wheel. 1,650,610; Nov. 29.
- Cravens, Ridgeway M., Brooklyn, N. Y. Resilient vehicle wheel. 1,650,611; Nov. 29.
- Craver, Augustus E., Cliffside, N. J., assignor to The Barrett Company. Catalytic oxidation of aromatic hydrocarbons. 1,636,854; July 26.
- Craver, Augustus E., Cliffside, N. J., assignor to The Barrett Company. Production of aromatic aldehydes. 1,636,855; July 26.
- Craver, Augustus E., Cliffside, N. J., assignor to The Barrett Company. Producing anthraquinone. 1,636,856; July 26.
- Craver, Augustus E., Cliffside, N. J., assignor to The Barrett Company. Producing acetaldehyde. 1,636,952; July 26.
- Craver, Augustus E., Cleveland, Ohio, assignor to The Barrett Company. Production of maleic acid. 1,636,857; July 26.
- Craver, John B. (See Joerger, J. N., and Craver.)
- Craveroller Company of America. (See Joerger, J. N., and Craver, assignors.)
- Crawford, Charles S. (See Bastien, P. and Crawford.)
- Crawford, Charles S., and W. G. Hall, assignors to F. E. Moskovits, Indianapolis, Ind. Oiling system for automobiles. 1,648,841; Nov. 8.
- Crawford, Emerick B., assignor to Oven Equipment & Manufacturing Company, New Haven, Conn. External-insulated oven. 1,649,575; Nov. 15.
- Crawford, Emerick B., assignor to The Oven Equipment & Manufacturing Company, New Haven, Conn. Ventilating hood for oven structures. 1,649,576; Nov. 15.
- Crawford, Frank, sr., assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop motion for knitting machines. 1,621,397; Mar. 15.
- Crawford, Frank E., York, Nebr. Differential. 1,632,787; June 21.
- Crawford, Frank M. (See Miller, F. V., and Crawford.)
- Crawford, Fred, Prosser, Wash. Mower-knife fastening. 1,652,238; Dec. 13.
- Crawford, Frederick C., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Making a drag-link element. 1,625,795; Apr. 26.
- Crawford, Frederick C., and M. P. Graham, Detroit, Mich., assignors to The Steel Products Company, Cleveland, Ohio. Tie rod or the like. 1,619,291; Mar. 1.
- Crawford, George E., Trenton, N. J., assignor to American Dressier Tunnel Kilns, Inc., Cleveland, Ohio. Kiln for glass melting and like purposes. 1,623,779; Apr. 5.
- Crawford, George M. (See London, Jacob M., assignor.)
- Crawford, Gus J., Baker, Mont. Tractor device. 1,626,788; May 3.
- Crawford, Harry H., Chicago, Ill. Radiator hanger. 1,645,853; Oct. 18.
- Crawford, Henry B., et al. (See Lemon, Frank R., assignor.)
- Crawford, Howard H., Detroit, Mich., assignor to Pines Winterfront Company, Chicago, Ill. Cooling apparatus for automobiles. 1,649,389; Nov. 15.
- Crawford, James B., Bismarck, N. Dak. Stop and brake for twine machines. 1,633,477; June 21.
- Crawford, James L. (See Swann, H. B., and Crawford.)
- Crawford, James L., assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Tank block for glass furnaces. 1,630,892; May 31.
- Crawford, James M., assignor to Auburn Automobile Company, Auburn, Ind. Closed-body ventilator. 1,635,009; July 12.
- Crawford, James O., Oakland, Calif., assignor to J. Kroder and Henry Reubel Company, New York, N. Y. Curtain pole. Des. 71,939; Feb. 1.
- Crawford, Jefferson A., Lake Charles, La. Coffee percutor. 1,645,896; Oct. 15.
- Crawford, John H., Harrisburg, Ill. Mining apparatus. 1,617,941; Feb. 15.
- Crawford, John H., A. W. Helmholtz, and D. Ferrell, assignors to Safety Pressure Mining & Equipment Company, Harrisburg, Ill. Blasting cartridge. 1,632,887; June 21.
- Crawford, Lulu L., et al. (See Lemon, Frank R., assignor.)
- Crawford, Mamie, Sawtelle, Calif. Skin cleaner. 1,651,085; Nov. 29.
- Crawford, Manufacturing Company, The. (See Crawford, Frank, sr., assignor.)
- Crawford, Marquis L., Osceola, Ark. Automatic traffic signal for street crossings. 1,632,698; June 14.
- Crawford, McGregor and Canby Company, The. (See Long, Claud L., assignor.)
- Crawford, McGregor and Canby Company, The. (See Matter, George W., assignor.)
- Crawford, McGregor and Canby Company, The. (See Sime, William B., assignor.)
- Crawford, Millard F., Natabany, La. Log-unloading machine. 1,618,917; Feb. 22.
- Crawford, Millard F., Natabany, La. Log-unloading machine. 1,636,619; July 9.
- Crawford, Ralph F., Salina, Kans. Self-oiling hub for radiator fans. 1,633,806; June 28.
- Crawford, Ralph F., Salina, Kans. Power hoist for dump trucks. 1,633,846; June 28.
- Crawford, Ralph F., Salina, Kans. Power take-off mechanism for motor vehicles. 1,633,847; June 28.
- Crawford, Stuart L., Rochester, N. Y. Preserving or canning fruit. 1,631,017; May 31.
- Crawford, Thomas, Philadelphia, Pa. Universal pulley. 1,628,491; May 10.
- Creamer, Isaac P. (See Joseph, F., and Creamer.)
- Creamery Package Mfg. Company, The. (See Gates, Grandon D., assignor.)
- Creamery Package Mfg. Company, The. (See Lindewig, Archie E., assignor.)
- Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)
- Creamery Package Mfg. Company, The. (See Valerius, T. and Larsen, assignors.)
- Creamery Package Mfg. Company, The. (See Williams, G. W., and Walstrom, assignors.)
- Creamette Company, The. (See Quiggle, Arthur W., assignor.)
- Creeluis, Carl F., Falmouth, Ky. Toilet appliance. 1,615,711; Jan. 25.
- Credo, Julius. (See Lissauer, A. W., and Credo.)
- Creed, Frederick G., Croydon, England. Electric transmitter for use in automatic telegraphy. 1,632,274; June 14.
- Creed, Frederick G., Croydon, England. Telegraphic receiving apparatus. 1,639,212; Aug. 16.
- Creed, Frederick G., Croydon, England. Telegraphic receiving apparatus. 1,639,213; Aug. 16.
- Creed, Frederick G., Croydon, England. Electromagnetic apparatus. 1,646,234; Oct. 18.
- Creed, Frederick G., Croydon, and A. Orling, Streatham, London, England. Apparatus for amplifying small movements. 1,639,839; Aug. 23.
- Creed, George E. (See Miller, William J., assignor.)
- Creed, Oliver, Cincinnati, Ohio. Filling attachment for gasoline tanks of automobiles. 1,626,789; May 3.
- Creek Chub Bait Co., The. (See Davenport, Sam F., assignor.)
- Creeg, Edwin J., Spokane, Wash. Method and apparatus for compression or expansion of a gas. 1,641,121; Aug. 30.
- Creedy, John L., New Orleans, La. Packing. 1,631,520; June 7.
- Cresan, John F., Pueblo, Colo., assignor to American Smelting and Refining Company, New York, N. Y. Treatment of furnace gases to recover zinc oxide. 1,628,952; May 17.
- Cresan, John F., Pueblo, Colo., assignor to American Smelting and Refining Company, New York, N. Y. Making zinc oxide. 1,628,953; May 17.
- Creger, Nathaniel B., Chicago, Ill. Photographic camera. 1,633,373; June 21.
- Cregor, Nathan M., Los Angeles, Calif., assignor to Ward Baking Company, New York, N. Y. Making food products. 1,640,182; Aug. 23.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,651,872; Dec. 6.
- Creighton, Henry J., Swarthmore, Pa., assignor to Atlas Powder Company, Wilmington, Del. Economical reduction of composite sugar-bearing solutions. 1,653,004; Dec. 20.
- Creighton, Thomas A., Long Beach, Calif. Releaseable drill collar. 1,621,583; Mar. 22.
- Cremieu, Victor, Colomieres-sur-Orb, France. Apparatus for cooling by the expansion of gases. 1,625,712; Apr. 19.
- Cremo, Aristide L. N., and A. J. Gordon, assignors of one-third to J. E. Gardner, Attleboro, Mass. Electric time switch for automobile lights. 1,624,539; Apr. 12.
- Crenshaw, John R. (See Schaeffer, J. A., Calbeck, and Crenshaw.)
- Crecent Brass Mfg. Co. (See Abrams, Herman, assignor.)
- Crecent Machine Company, The. (See Wilderson, Clinton G., assignor.)
- Crecent Pump Company. (See Hatcher, William A., assignor.)
- Crecent Stove Works. (See Pape, Edwin W., assignor.)
- Cresel, Anthony L., Vineland, N. J. Turntable. 1,640,982; Aug. 30.
- Crescent Creamery Supply Co. (See Goldberger, Morris, assignor.)
- Cresco Creamery Supply Co. (See Ratezenstein, William, assignor.)

- Cresmer, John H., Riverside, Calif. Automobile steering knee control. 1,626,331; Apr. 26.
- Cressler, Edward P., Newton, Kans. Interchangeable tooth. 1,613,744; Jan. 11.
- Cressler, Edward P., Newton, Kans. Artificial tooth. 1,616,232; Oct. 18.
- Cresson, Lionel, Singapore, Straits Settlements. Terra-couthouc block. 1,614,348; Jan. 11.
- Cresson-Morris Company. (See Stone, Edward N., assignor.)
- Crewdson, Eric, Kendal, England. Control of prime movers. 1,637,636; Aug. 2.
- Creves, James A., Indianapolis, Ind. Door opening and closing mechanism. 1,621,459; Mar. 15.
- Crews, Clarence M., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,647,274; Nov. 1.
- Crews, Lucenius M., Fairburn, S. Dak. Skidding-preventing device. 1,627,768; May 10.
- Crews, Robert H. (See Dager, Albert, assignor.)
- Crews, Thomas B., St. Louis, Mo. Combined safety razor and blade sharpener. 1,622,904; Mar. 29.
- Cribben & Sexton Company. (See Harter, Augustus F., assignor.)
- Cribben & Sexton Company. (See Wilkinson, George D., assignor.)
- Cribbs, Hyatt M. (See Gruber, Samuel A., assignor.)
- Cricchio, Paul, New York, N. Y., assignor to Royal Metal Lighting Fixture Company, Inc. Lighting-fixture bracket. Des. 71,956; Feb. 8.
- Cricchio, Paul, New York, N. Y., assignor to Royal Metal Lighting Fixture Co., Inc. Lighting-fixture part. Des. 72,308; Mar. 25.
- Cricchio, Paul, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Table ornament or analogous article. Des. 72,988; July 5.
- Cricchio, Paul, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Tray or analogous article. Des. 72,989; July 5.
- Cricchio, Paul, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Candlestick or analogous article. Des. 73,068; July 19.
- Crichton, Leslie N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. 1,617,377; Feb. 15.
- Crichton, Leslie N., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit breaker. 1,635,544; July 12.
- Crimmel, Alvie C., Hartford City, Ind. Jar. Des. 73,643; Oct. 18.
- Crimmel, Alvie C., Hartford City, Ind. Newspaper receptacle. 1,654,364; Dec. 27.
- Criner, Harry J., assignor to Clarinda Manufacturing Company, Clarinda, Iowa. Eccentric driving mechanism for power washing machines. 1,632,118; June 14.
- Criner, Harry J., Clarinda, Iowa, assignor to L. V. Kokes and E. L. Vogelzang, Ord, Nebr. Clothes wringer. 1,640,926; Aug. 30.
- Crippen, Herbert O., Chicago, Ill. Spike retainer. 1,621,768; Mar. 22.
- Crippen, Herbert O., Chicago, Ill. Spike retainer. 1,628,656; May 17.
- Crittall, Harry E., Chicago, Ill., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,621,106; Mar. 15.
- Criqui, Charles A. (See Larkin, Elwood T., assignor.)
- Criqui, Charles A., and E. T. Larkin, Buffalo, N. Y.; said Larkin assignor to said Criqui. Air controller for gas-engine carburetors. 1,614,106; Jan. 11.
- Criqui, Charles A., and E. T. Larkin, Buffalo, N. Y.; said Larkin assignor to said Criqui. Air controller for gas engines. 1,614,544; Jan. 18.
- Criqui, Charles A., and E. T. Larkin, Buffalo, N. Y.; said Larkin assignor to said Criqui. Power-transmission mechanism. 1,639,259; Aug. 16.
- Crisci, Arturo, New York, N. Y. Nonrefillable bottle. 1,623,923; Mar. 22.
- Crisberry, Benjohn F., Indianapolis, Ind., assignor of one-half to J. J. Davis, Pittsburgh, Pa. Cabinet oil burner. 1,648,981; Nov. 15.
- Crispin, Edward, New York, N. Y. Air cooler. 1,622,131; Mar. 22.
- Crisson, George, East Orange, N. J., assignor to American Telephone and Telegraph Company. Vacuum-tube-echo suppressor. 1,647,212; Nov. 1.
- Crisson, George, Hackensack, N. J., assignor to American Telephone and Telegraph Company. Telephone repeater station. 1,619,058; Mar. 1.
- Crisson, George, East Orange, N. J., and H. C. Silent, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Multiway connection. 1,623,095; Apr. 5.
- Crist, William C., Blue Island, Ill. Smoke deflector. 1,636,217; July 19.
- Cristallini, Charles O., assignor to Peck Shoe Company, Worcester, Mass. Shoe and method of manufacture. 1,631,919; June 7.
- Critchfield, Robert M., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Manufacturing Commutators. 1,641,414; Sept. 6.
- Critchley, James V., assignor to Walden-Worcester, Inc., Worcester, Mass. Cylinder-head-lifting tool. 1,645,259; July 12.
- Crittall, Richard G. and J. L. Musgrave, London, England. Heating and cooling of buildings. 1,625,987; Apr. 26.
- Croev, Jan, St. Louis, Mo. Necktie holder. 1,616,608; Feb. 8.
- Croan, Walter B., assignor to Drying Systems, Inc., Chicago, Ill. Sheet-metal oil-burning air heater. 1,619,567; Mar. 1.
- Croan, Walter B., assignor to Drying Systems, Inc., Chicago, Ill. Direct air heater. 1,644,180; Oct. 4.
- Crocker, Walter B., Chicago, Ill. Heat interchanger. 1,645,801; Oct. 18.
- Crockard, Frank H., Birmingham, Ala. Gas seal. 1,615,933; Feb. 1.
- Crocker, Alfred C., Chagrin Falls, Ohio. Chain and plug holder for bathtubs and basins. 1,645,986; Oct. 18.
- Crocker, Charles C., Newark, N. J., assignor of one-half to S. J. Wolf, New York, N. Y. Package opener. 1,646,348; Oct. 18.
- Crocker, Charles D. (See Cadwell, W. H., Ott, and Crocker.)
- Crocker, Clarence T., Schenectady, N. Y., assignor to General Electric Company. Fluid-pressure-operated device. 1,623,780; Apr. 5.
- Crocker, Elmer S., assignor to O. R. Fuller, Los Angeles, Calif. Four-wheel truck for motor vehicles. 1,615,360; Jan. 25.
- Crocker, Elmer S., assignor to O. R. Fuller, Los Angeles, Calif. Four-wheel truck for motor vehicles. 1,647,437; Nov. 1.
- Crocker, Thomas N., et al. (See Owen, John H., assignor.)
- Crocker-Wheeler Company. (See Aceves, Julius G., assignor.)
- Crocker-Wheeler Electric Manufacturing Company. (See Spencer, Millard C., assignor.)
- Crockett, Frank L., North Uxbridge, assignor to Whitin Machine Works, Whitinsville, Mass. Waste-removal apparatus. 1,629,092; May 17.
- Crockett, Guy B. (See Speakman, W. F., and Crockett.)
- Crockett, Thomas E., Eldorado, Kans. Water-elevating apparatus. 1,642,990; Sept. 20.
- Crockett, William P., Chicago, Ill. Call switch for hospital signal systems. 1,620,951; Mar. 15.
- Crockett, William P., Chicago, Ill. Electric-light fixture. 1,629,613; May 20.
- Croft, Dirk, London, England. Electric furnace. 1,642,359; Sept. 13.
- Crofoot, John B., Arlington Heights, Ill. Staple. 1,614,831; Jan. 18.
- Crofoot, John B., Arlington Heights, Ill. Stapler. 1,621,496; Mar. 22.
- Crofoot, John B., Chicago, Ill. Stapler. 1,638,831; Aug. 16.
- Croft, Hiram D. (See Perkins, J. L., and Croft.)
- Crofton, William M., Dublin, Ireland. Carburetor. 1,619,656; Mar. 1.
- Croker, Mark V., Newton Upper Falls, Mass. Insulating section for pipes. 1,630,657; May 31.
- Croll, Andrew G., Weatherly, Pa., assignor to The Atlas Portland Cement Company. Furnace lining. 1,647,083; Oct. 25.
- Crom, John M., Chicago, Ill., assignor to Cement Gun Contracting Company, Allentown, Pa. Device for use in and process of incasing structural members. 1,640,983; Aug. 30.
- Cromar Company, The. (See Crooks, Kenneth E., assignor.)
- Crombie, Charles G. (See Shields, B. F., Crombie, and Windell.)
- Crompton, Arthur, Manchester, England. Fabric-printing machine. 1,649,812; Nov. 22.
- Crompton Company. (See Nichols, John F., assignor.)
- Crompton, Francis M. (See Smith, Charles M., assignor.)
- Crompton & Knowles Loom Works. (See Arthur, Harrison, N., assignor.)
- Crompton & Knowles Loom Works. (See Bardsley, Henry, assignor.)
- Crompton & Knowles Loom Works. (See Blanchard, Harold L., assignor.)
- Crompton & Knowles Loom Works. (See Blanchard, H. L., and Wakefield, assignors.)
- Crompton & Knowles Loom Works. (See Brouwer, Benjamin V., assignor.)
- Crompton & Knowles Loom Works. (See Buckley, Charles E., assignor.)
- Crompton & Knowles Loom Works. (See Came, Samuel, assignor.)
- Crompton & Knowles Loom Works. (See Cederlund, A., and Turner, assignors.)
- Crompton & Knowles Loom Works, The. (See Chevette, Augustin J., assignor.)
- Crompton & Knowles Loom Works. (See Crutchlow, William, assignor.)
- Crompton & Knowles Loom Works. (See Dacey, E. J., and Robertson, assignors.)
- Crompton & Knowles Loom Works. (See Dacey, Edward J., assignor.)
- Crompton & Knowles Loom Works. (See Donnelly, Thomas H., assignor.)
- Crompton & Knowles Loom Works, The. (See Chevette, Augustin J., assignor.)
- Crompton & Knowles Loom Works. (See Crutchlow, William, assignor.)
- Crompton & Knowles Loom Works. (See Dacey, E. J., and Robertson, assignors.)
- Crompton & Knowles Loom Works. (See Dacey, Edward J., assignor.)
- Crompton & Knowles Loom Works. (See Donnelly, Thomas H., assignor.)
- Crompton & Knowles Loom Works. (See Findlay, G. F., and Johnston, assignors.)
- Crompton & Knowles Loom Works. (See Frechett, G., and Owen, assignors.)

- Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)
- Crompton & Knowles Loom Works. (See Haring, Paul, assignor.)
- Crompton & Knowles Loom Works. (See Hoffman, L. F., and Wakefield, assignors.)
- Crompton & Knowles Loom Works, The. (See Hollingworth, Edward, assignor.)
- Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
- Crompton & Knowles Loom Works. (See Holmes, E. R., and Wakefield, assignors.)
- Crompton & Knowles Loom Works. (See Howard, Charles R., assignor.)
- Crompton & Knowles Loom Works. (See Hume, John E., assignor.)
- Crompton & Knowles Loom Works. (See Hutchins, George F., assignor.)
- Crompton & Knowles Loom Works. (See Jennings, Victor H., assignor.)
- Crompton & Knowles Loom Works. (See Jennings, V. H., and Watson, assignors.)
- Crompton & Knowles Loom Works. (See King, William H., assignor.)
- Crompton & Knowles Loom Works. (See Lane, Edward L., assignor.)
- Crompton & Knowles Loom Works. (See McGuiness, Benjamin F., assignor.)
- Crompton & Knowles Loom Works. (See Needham, William H., assignor.)
- Crompton & Knowles Loom Works. (See Paine, Arthur H., assignor.)
- Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
- Crompton & Knowles Loom Works. (See Robertson, William W., assignor.)
- Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
- Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
- Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)
- Crompton & Knowles Loom Works. (See Unwin, K. J., and Wakefield, assignors.)
- Crompton & Knowles Loom Works. (See Verry, Irving H., assignor.)
- Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
- Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
- Cromwell, John C. (See Groeniger, W. C., and Cromwell.)
- Cron, Lon H. (See Brauer, H., and Cron.)
- Cron, James W., Portageville, Mo. Harness buckle. 1,625,389; Apr. 19.
- Crone, Francis G., Buffalo, N. Y. Carburetor. 1,637,104; July 26.
- Crone, Francis G., Buffalo, N. Y. Tire-deflation indicator. 1,638,983; Aug. 16.
- Cronenweth, Earl E., Wilkensburg, Pa. Antiskid chain. 1,621,398; Mar. 15.
- Cronenweth, Earl E., Glendale, Calif. Tire-chain applier. 1,630,111; May 24.
- Cronenweth, Earl E., Glendale, Calif. Tire-chain applier. 1,642,921; Sept. 20.
- Cronin, John H., assignor to The Enro Shirt Company, Louisville, Ky. Shirt and shirt pocket. 1,636,858; July 26.
- Cronin, Timothy P., St. Louis, Mo. Water heater. 1,641,532; Sept. 6.
- Cronk, David J., Poughkeepsie, N. Y. Netting handler. 1,624,394; Apr. 12.
- Cronk, David J., Poughkeepsie, N. Y. Measuring device. 1,646,275; Oct. 18.
- Cronquist, Albert B., Portland, Oreg. Tool holder. 1,645,319; Oct. 11.
- Cronshaw, Cecil J. T., and W. J. S. Naunton, assignors to British Dyestuffs Corporation Limited, Manchester, England. Vulcanization of rubber. 1,627,636; May 10.
- Cronshaw, Cecil J. T., and W. J. S. Naunton, assignors to British Dyestuffs Corporation Limited, Manchester, England. Manufacture of diaryguanidines. 1,639,724; Aug. 25.
- Cronshaw, Cecil J. T., and W. J. S. Naunton, assignors to British Dyestuffs Corporation Limited, Manchester, England. Manufacture of diaryguanidines. 1,639,725; Aug. 25.
- Crook, Louis H., Washington, D. C. assignor of one-half to G. M. Jakobsson, Takoma Park, Md. Inflating and injecting device. 1,643,945; Oct. 4.
- Crook, Louis H., Washington, D. C. assignor of one-half to G. M. Jakobsson, Takoma Park, Md. Nongrounded transmission line. 1,643,643; Oct. 18.
- Crook, Thomas L., Hicksville, Ohio. Tool handle. 1,648,798; Nov. 8.
- Crooke, Leonard, Hagerstown, Md. Gravity-dumping truck body. 1,652,000; Dec. 6.
- Crooks, Charles L., and F. M. Vandervoort, assignors to The Postal Lock Company, Pueblo, Colo. Latch or keeper means. 1,634,635; July 5.
- Crooks, Kenneth E., assignor to The Cromar Company, Williamsport, Pa. Prefinished flooring. 1,644,710; Oct. 11.
- Crooks, William, assignor to Belmont Packing & Rubber Company, Philadelphia, Pa. Machine for folding packing and the like. 1,644,416; Oct. 4.
- Croom, Hardy, Savannah, Ga. Ticket-holding device. 1,629,682; May 24.
- Cropp, Claude J., Detroit, Mich. Vehicle cab. 1,623,830; Apr. 5.
- Crosby, Arthur P., assignor of one-half to W. T. Price, Minneapolis, Minn. Radiator return trap. 1,646,686; Oct. 25.
- Crosby Company, The, et al. (See Klinger, A. E., and Burkhardt, assignors.)
- Crosby, Everett W. (See McNeely, Earl E., assignor.)
- Crosby, Herbert A., Stettler, Alberta, Canada. Gold-saving device. 1,616,784; Feb. 8.
- Crosby, J. D., Co. (See Crosby, Justin D., assignor.)
- Crosby, John J., assignor of one-half to P. F. Leahy, Detroit, Mich. Binding post. 1,645,854; Oct. 18.
- Crosby, Justin D., assignor to J. D. Crosby Co., Pawtucket, R. I. Finishing cold-rolled steel. 1,623,048; Apr. 5.
- Crosby, Ralph H., assignor to American Plumbing & Heating Company, Minneapolis, Minn. Gauge trap. 1,640,600; Aug. 30.
- Crosby Steam Gate & Valve Company. (See Clark, George H., assignor.)
- Crosgrove, William E., Jamestown, N. Y. Table. 1,651,586; Dec. 6.
- Crosley, Powell, Jr., Cincinnati, Ohio. Adapter. 1,627,077; May 3.
- Crosley, Powell, Jr., Cincinnati, Ohio. Rheostat. 1,640,025; Aug. 23.
- Cross, Alexander D., Irvington, N. J. Golf bag. 1,621,107; Mar. 15.
- Cross Bros. Co. (See Hill, Lynn E., assignor.)
- Cross Bros. Company. (See Philip, George R., assignor.)
- Cross, Charles H., Cheyenne, W. Okla. Safety catch for watch fob. 1,648,217; Nov. 8.
- Cross, Charles S., Brooklyn, and C. A. Smith, Flushing, N. Y., assignor to Circle F. Mfg. Co., Trenton, N. J. Electric switch socket. 1,644,990; Oct. 11.
- Cross, Claud, Stanford University, Calif. Mechanically-operated toy. 1,647,507; Nov. 1.
- Cross, Edward, Spring Arbor, Mich. Roof binding. 1,643,877; Sept. 27.
- Cross, Frank T. Louis, Mo., assignor of one-half to T. M. Hobbs, Carmi, Ill. Temple. 1,644,636; Oct. 4.
- Cross, Frank L., Port Washington, N. Y., assignor to Cross Paper Feeder Company. Sheet-feeding machine. 1,637,555; Aug. 2.
- Cross, Garrett P. S., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last-removing device. 1,636,288; July 19.
- Cross, Garrett P. S., Grand Rapids, Mich., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanical movement. 1,645,114; Nov. 8.
- Cross, Grosvenor M., Minneapolis, Minn. Spring-tension neutralizer. 1,618,516; Feb. 22.
- Cross, Harry E., assignor to Cross Motor Corporation, Indianapolis, Ind. Motor car. Re16,549; Feb. 15.
- Cross, Harry E., assignor to Cross Motor Corporation, Indianapolis, Ind. Automobile chassis. 1,638,292; Aug. 9.
- Cross, James A., Denver, Colo. Vulcanizer. 1,653,621; Dec. 27.
- Cross, John H., assignor to The Waterman-Waterbury Company, Minneapolis, Minn. Crescent radiator. 1,632,000; June 14.
- Cross, Lester H., assignor to C. M. Smilie & Company, Detroit, Mich. Tire cover. 1,625,593; Apr. 19.
- Cross Manufacturing Company. (See Bishop, S. H., and McNaught, assignors.)
- Cross Motor Corporation. (See Cross, Harry E., assignor.)
- Cross Paper Feeder Company. (See Cross, Frank L., assignor.)
- Cross Paper Feeder Company. (See Hallstream, Henning, assignor.)
- Cross, Roy, Kansas City, Mo. Treating petroleum. 1,623,018; Mar. 29.
- Cross, Roy, Kansas City, Mo. Treating coffee. 1,640,648; Aug. 30.
- Cross, Roy, Kansas City, Mo., assignor to Gasoline Products Company, New York, N. Y. Coking still. 1,622,573; Mar. 29.
- Cross, Roy, Kansas City, Mo., assignor to Gasoline Products Company, New York, N. Y. Process and apparatus for converting petroleum hydrocarbons. 1,624,778; Apr. 12.
- Cross, Roy, Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y. Making motor fuel. 1,631,401; June 7.
- Cross, Walter M., Kansas City, Mo. Method and apparatus for treating petroleum hydrocarbons. 1,621,475; Mar. 15.
- Cross, Walter M., Kansas City, Mo. Turbine. 1,637,105; July 26.
- Cross, Walter M., Kansas City, Mo., assignor, by means assignments, to Gasoline Products Company. Method of treating hydrocarbons. 1,624,889; Apr. 12.
- Cross, Walter M., Kansas City, Mo., assignor to Gasoline Products Company, New York, N. Y. Treating petroleum hydrocarbons. 1,643,446; Sept. 27.

- Cross, Walter M., Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y. Converting oil. 1,644,981; Oct. 11.
- Crossen, Edgar H. (See Sheasley, C. H., and Crossen.)
- Crossett, Homer M., Westmont Borough, Pa. Quenching coke. 1,614,456; Jan. 18.
- Crossland, George, assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Jack-spool-stripping machine. 1,631,920; June 7.
- Crossland, George, assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Spool support. 1,631,921; June 7.
- Crossland, George, assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Axminster loom. 1,651,809; Dec. 6.
- Crossland, George, assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Tube frame for looms. 1,651,947; Dec. 6.
- Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric-crystal apparatus. 1,619,854; Mar. 8.
- Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Radiofrequency choke circuit system. 1,627,638; May 10.
- Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Radio signaling system. 1,632,369; June 14.
- Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Amplifying system. 1,651,810; Dec. 6.
- Crossley, Moses L., Somerville, assignor to The Calco Chemical Company, Boundbrook, N. J. Salt of a quinolin carboxylic acid and producing the same. 1,618,172; Feb. 22.
- Crossley, Moses L., Boundbrook, and M. L. Dolt, Somerville, assignors to The Calco Chemical Company, Boundbrook, N. J. Lithium salt of 2-phenylquinoline-4-carboxylic acid and making the same. 1,638,832; Aug. 16.
- Crossley, Moses L., Boundbrook, and M. L. Dolt, Somerville, assignors to The Calco Chemical Company, Boundbrook, N. J. Mercury salt of 2-phenylquinoline-4-carboxylic acid and producing the same. 1,638,833; Aug. 16.
- Crossley, Moses L., Boundbrook, and M. L. Dolt, Somerville, assignors to The Calco Chemical Company, Boundbrook, N. J. Iron salt of 2-phenylquinoline-4-carboxylic acid and making the same. 1,638,834; Aug. 16.
- Crosthwaite, Ralph L., Chicago, Ill. Ventilator and the like. 1,630,691; May 31.
- Crosthwaite, Ralph L., Chicago, Ill. Ventilator. 1,630,692; May 31.
- Crosthwaite, Ralph L., Chicago, Ill. Ventilator. 1,646,853; Oct. 25.
- Crowell, Ernest L., Chicago, Ill. Automobile direction indicator. 1,646,445; Oct. 25.
- Crotto, Frank E., assignor to Western Supply Company, Tulsa, Okla. Liner for cable-engaging tools. 1,649,390; Nov. 15.
- Crouch, Homer H. (See Fichtner, J. B., and Crouch.)
- Crouch, Marion L., Milwaukee, Wis. Machine for molding soap and other material. 1,650,981; Nov. 29.
- Crouch, Walter L., assignor to The Blakesley Novelty Company, Bristol, Conn. Floor mop. 1,643,878; Sept. 27.
- Crouch, Walter T., San Antonio, Tex. Necktie adjuster. 1,647,882; Jan. 18.
- Crouch, William F., Oakland, Calif. Internal-explosion engine. 1,636,289; July 19.
- Crouse, Emory, Wichita, Kans. Liquid-dispensing device. 1,635,260; July 12.
- Crouse, Emory, Wichita, Kans. Liquid-dispensing apparatus. 1,650,152; Nov. 22.
- Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
- Crouse, Nathan H., assignor of one-half to O. Hayes, Akron, Ohio. Roller and like bearings. 1,652,766; Dec. 13.
- Crouse, Stedman P., West Somerville, Mass. Drafting implement. 1,633,163; June 21.
- Crowe, Lawrence M., Waco, Tex. Awning for closed cars. 1,640,949; Nov. 22.
- Crow, Marvin W., Fort Dodge, Iowa. Pipe wrench. 1,640,265; Aug. 23.
- Crow, William M., Cole, S. Dak. Four-horse-wagon evenner. 1,619,059; Mar. 1.
- Crowder, Clarence C., Best, Tex. Twist-pin bearing. 1,654,210; Dec. 27.
- Crowe, Charles V., St. Joseph, Mo. Auto lamp. 1,650,822; Nov. 29.
- Crowe, Douglas C., London, England. Electromagnetic relay. 1,645,897; Oct. 18.
- Crowe, John M., Covington, Ky. Rivet-cutting-gun valve. 1,615,934; Feb. 1.
- Crowe, John M., Kenton County, assignor to The Crowe Manufacturing Corporation, Covington, Ky. Portable motor-driven saw. 1,644,328; Oct. 4.
- Crowe, Leroy J., Monument, Kans. Foot scraper for automobiles. 1,619,404; Mar. 1.
- Crowe Manufacturing Corporation, The. (See Crowe, John M., assignor.)
- Crowe, Patrick M., Port Huron, Mich. Kitchen cabinet. Dec. 7, 1948; Dec. 13.
- Crowe, Paul L., Baltimore, Md. Ball mill. 1,627,487; May 3.
- Crowe, Paul L., Baltimore, Md. Ball mill. 1,627,488; May 3.
- Crowe, Paul L., Baltimore, Md. Grinding and separating apparatus. 1,639,214; Aug. 16.
- Crowe, Paul L., Baltimore, Md. Centripetal compressor. 1,644,565; Oct. 4.
- Crowe, Thomas B. (See Mills, L. D., and Crowe.)
- Crowell, Charles H., White Plains, N. Y. Corrugated-board container and blanks therefor. 1,631,521; June 7.
- Crowell, Charles H., Brooklyn, N. Y. Filled gummed cloth and making the same. 1,634,710; July 5.
- Crowell, Charles H., Brooklyn, N. Y. Cloth treating. 1,642,360; Sept. 13.
- Crowell, Charles H., White Plains, N. Y. Cylindrical drier. 1,642,361; Sept. 13.
- Crowell, Charles W., Salisbury, N. C. Steam boiler. 1,634,020; June 28.
- Crowell, Clarence P., assignor to Rochester Germicide Company, Inc., Rochester, N. Y. Liquid-dispensing apparatus. 1,633,519; June 21.
- Crowell, Emerson, Dalzell, S. Dak. Antislid chain tightening device. 1,632,644; June 14.
- Crowell, Erd V., Los Angeles, Calif. Apparatus for and method of cementing oil-well casings. Re16,516; Jan. 4.
- Crowell, Erd V., Los Angeles, Calif., assignor to The Guiberson Corporation, Dallas, Tex. Gas-emergency control for flowing oil or gas wells. Re16,577; Mar. 29.
- Crowell, Erd V., Los Angeles, Calif., assignor of one-half to The Guiberson Corporation, Dallas, Tex. Oil or gas well. Re16,607; May 3.
- Crowell, Erd V., Los Angeles, Calif. Gas-energy-control head for oil wells. 1,625,883; Apr. 26.
- Crowell, Erd V., Los Angeles, Calif., assignor of one-half to The Guiberson Corporation, Dallas, Tex. Combined casing head, oil saver, and tubing lander. 1,641,921; Sept. 6.
- Crowell, Erd V., Los Angeles, Calif., assignor of one-half to The Guiberson Corporation, Dallas, Tex. Control-head packer. 1,648,377; Nov. 8.
- Crowell, Frank M., Tulsa, Okla. Support for well casings. 1,646,639; Oct. 25.
- Crowell, Frank S., assignor to The Edward N. Riddle Company, Toledo, Ohio. Plate for lighting fixtures. Dec. 72, 1902; Feb. 15.
- Crowell, George H., Berlin, N. H. Oil burner. 1,621,313; Mar. 15.
- Crowell, Joyce H., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Making halogen derivatives of aromatic organic compounds. 1,646,235; Oct. 18.
- Crowell, Tracy M., assignor to Wilcox, Crittenden and Company, Incorporated, Middletown, Conn. Port-light screen and the like. 1,648,445; Nov. 8.
- Crowley, E. Chase. (See Holinger, Emil F., assignor.)
- Crowley, Edwin, Minneapolis, Minn. Gate latch. 1,640,394; Aug. 30.
- Crowley, James J. (See Rosenthal, U. L., and Crowley.)
- Crowley, John C., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Method and apparatus for vulcanizing rubber packing upon a cylindrical article. 1,621,000; Mar. 15.
- Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,626,395; Apr. 26.
- Crowley, Sylvester W. (See Hunter, F. L., Jr., and Crowley.)
- Crown Cork and Seal Company of Baltimore City, The. (See Goebel, George, assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Goebel, G., and Derby, assignors.)
- Crown Cork & Seal Company of Baltimore City, The. (See Varth, Albin H., assignor.)
- Crownover, Charles E., Yakima, Wash. Irrigation hydrant. 1,624,317; Apr. 12.
- Croxton, David T. (See Eaton, W., and Croxton.)
- Croy, Simeon W., Oak Park, Ill. Shoe-shining machine. 1,648,578; Nov. 8.
- Croyle, Frank C. (See Gowland, Fred W., assignor.)
- Cruible Steel Company of America. (See Johnson, Charles M., assignor.)
- Cruden, George W., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Football trousers. 1,636,553; July 19.
- Cruiger, Harold, New York, N. Y. Fabric-inspection apparatus. 1,615,216; Jan. 25.
- Cruikshank, J. W., Engineering Company. (See Cruikshank, James W., assignor.)
- Cruikshank, J. W., Engineering Company. (See Merian, Frederic, assignor.)
- Cruikshank, James W., Pittsburgh, Pa. Apparatus for grinding plane surfaces. 1,621,236; Mar. 15.
- Cruikshank, James W., Pittsburgh, Pa. Method and apparatus for surfacing sheet glass. 1,644,369; Oct. 4.
- Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Method and apparatus for grinding glass. 1,622,091; Mar. 22.
- Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Apparatus for grading sand and grinding glass. 1,634,254; July 5.
- Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Grinding and livering sand to glass-grinding machines. 1,640,029; Aug. 23.
- Cruikshank, Warburton K., Regina, Saskatchewan, Canada. Pulverizing machine. 1,633,164; June 21.

- Crum, John M., Johnstown, Pa. Door hanger. 1,647,610; Nov. 1.
- Crum, Milton W. (See Ashmore, F. E., and Crum.)
- Crumbach, Hubert, and J. H. Deal, Cleveland, Ohio. Load binder. 1,650,328; Nov. 22.
- Crumbaugh, Henry M., and H. M. Wilson, sr., Columbus, Ohio. Attachment for filling machines. 1,640,482; Aug. 30.
- Crumley, Le Roy A., assignor to H. M. Feltenstein, New York, N. Y., doing business as M. Eisenberg & Son. Lighting-fixture bracket. Des. 72,350; Apr. 5.
- Crumley, Le Roy A., assignor to H. M. Feltenstein, New York, N. Y., doing business as M. Eisenberg & Son. Lighting-fixture strap. Des. 72,351; Apr. 5.
- Crumley, Le Roy A., assignor to H. M. Feltenstein, New York, N. Y., doing business as M. Eisenberg & Son. Lighting-fixture bracket. Des. 72,352; Apr. 5.
- Crumley, Le Roy A., assignor to H. M. Feltenstein, New York, N. Y., doing business as M. Eisenberg & Son. Lighting-fixture strap. Des. 72,353; Apr. 5.
- Crumley, Le Roy A., assignor to H. M. Feltenstein, New York, N. Y., doing business as M. Eisenberg & Son. Lighting-fixture backplate. Des. 72,354; Apr. 5.
- Crumley, Le Roy A., assignor to H. M. Feltenstein, New York, N. Y., doing business as M. Eisenberg & Son. Hanging lantern. Des. 72,511; Apr. 26.
- Crumley, Le Roy A., New York, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Bracket back. Des. 72,668; May 17.
- Crumley, Le Roy A., New York, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Arm for lighting fixtures. Des. 72,761; May 31.
- Crumley, Le Roy A., assignor to J. H. White Manufacturing Company, New York, N. Y. Lighting-fixture plate. Des. 72,762; May 31.
- Crumley, Le Roy A., New York, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Lantern panel. Des. 73,069; July 19.
- Crumlish, William G., and W. F. Scott, Wilmington, Del. Radiocabinet. Des. 72,699; May 24.
- Crump, Ellen B., Nitta Yuma, Miss. Manicuring device. 1,643,295; Sept. 27.
- Crump, Ellen B., P. Nitta Yuma, Miss. Handkerchief vanity and powder puff holder. 1,652,611; Dec. 13.
- Crump, Frank H., Los Angeles, Calif. Temporary binder. 1,638,070; June 21.
- Crump, Frank H., Los Angeles, Calif. Label holder. 1,653,346; Dec. 20.
- Crumrine, Chester W. (See Thompson, R. G., and Crumrine.)
- Crumrine, Chester W., assignor, by mesne assignments, to North East Appliances, Inc., Rochester, N. Y. Power mechanism. 1,643,057; Sept. 20.
- Cruncleton, Fred L. (See Cruncleton, Lawrence, and F. L.)
- Cruncleton, Lawrence, and F. L. Pharr, Tex. Combined grating and spray for refrigerator cars. 1,632,370; June 14.
- Crupl, Frank J., assignor to H. Behr & Co., Inc., Brooklyn, N. Y. Waterproof abrasive fabric. 1,629,259; May 17.
- Cruz, Frank J., Brooklyn, assignor to Herman Behr & Co., Inc., Brooklyn, N. Y. Waterproof abrasive fabric and making the same. 1,642,766; Sept. 20.
- Crutchlow, William, Paterson, N. J., assignor, by mesne assignments, to Crompton & Knowles Loom Works, Worcester, Mass. Box-operating mechanism for looms. 1,626,728; May 3.
- Cruz, Jose, and P. Noguera, Shelton, Conn. Automobile tire rim. 1,621,460; Mar. 15.
- Cryder, Ray E. (See Holderman, S. J., and Cryder.)
- Crystal, David, Inc. (See Lemoine, René, assignor.)
- Crystal, David, Inc. (See Rochas, Marcel, assignor.)
- Crystal Fixture Co. (See Wanler, George R., assignor.)
- Crystalite Stone Co. (See Products Limited, The. (See Johns, Henry S., assignor.)
- Csanyi, Henry, New York, N. Y. Portable radio receiving set. 1,617,236; Feb. 8.
- Csonka, Frank A., Oak-Crest, Va. H. S. Bernton. Washington, D. C., and B. B. Jones, Bethesda, Md. Product adapted for use in the treatment of hay fever. 1,613,313; Jan. 4.
- Cuban-American Sugar Co., The. (See Spencer, Guilford L., assignor.)
- Cubley, James R., Empire City, Okla. Rotary drill bit. 1,641,321; Sept. 6.
- Curt, Gardner Company. (See Hathaway, Charles E., assignor.)
- Cudlipp, George R., Los Angeles, Calif. Toy casket. Des. 72,003; Feb. 15.
- Cuenin, Gilbert, assignor to Compagnie Internationale Trichromia, Paris, France. Apparatus for obtaining three-color photographs. 1,637,294; July 26.
- Cuff, James S., New London, Conn. Carburetor. 1,615,111; Jan. 18.
- Curnlin, George P., Erie, Pa. Amusement device. 1,636,356; July 19.
- Culbertson, Albert L., assignor to The Chapman-Stein Furnace Co., Mount Vernon, Ohio. Furnace and operating the same. 1,637,473; Aug. 2.
- Culbertson, Francis B. (See Carroll, E. E., and Culbertson.)
- Culhane, Patrick, Cleveland, Ohio, assignor, by mesne assignments, to W. T. Hensley, Indianapolis, Ind. Pulley. 1,639,499; Aug. 16.
- Culhane, Patrick, Cleveland, Ohio, assignor, by mesne assignments, to W. T. Hensley, Indianapolis, Ind. Pulley. 1,639,490; Aug. 16.
- Culhane, Patrick J., jr., assignor to The Hydraulic Steel Company, Cleveland, Ohio. Rivet heater. 1,641,122; Aug. 30.
- Cullen, Catherine F., New York, N. Y. Cooking utensil. 1,630,787; May 31.
- Cullen, Jesse R. (See Bevan, C. L., and Cullen.)
- Cullen, Julien F., Portland, Oreg., assignor to Columbia Tire Corporation. Pneumatic tire. 1,614,286; Jan. 11.
- Cullins, Michael F., Laredo, Tex. Glareshield for headlights. 1,637,895; Aug. 2.
- Cullinan, Thomas F., Providence, R. I. Draining system for mausoleums. 1,641,123; Aug. 30.
- Cullinan, Thomas F., Providence, R. I. Ventilating system for mausoleums. 1,641,124; Aug. 30.
- Culling, Amil F., Detroit, Mich. Combination ash and garbage receptacle. 1,618,366; Feb. 22.
- Cullison, Harvey L., St. Petersburg, Fla. Toy boat. 1,615,112; Jan. 18.
- Cullison, John F., Oberlin, Kans. Corn knife. 1,625,713; Apr. 19.
- Cullinan, Otto, Chicago, Ill. Electric low-speed unit. 1,633,106; July 26.
- Culp, Herbert, Willoughby, Ohio. Bottle receptacle. 1,620,079; Mar. 8.
- Culp, Herbert, Chicago, Ill. Steamboat construction. 1,622,994; Mar. 29.
- Culp, Jay S., Cleveland, Ohio. Tire carrier. 1,652,560; Aug. 30.
- Culver-Bevan Fruit Jar Company. (See Culver, Lewis O., assignor.)
- Culver, Carl H., Detroit, Mich., assignor to Culver Stearns Manufacturing Company, Worcester, Mass. Support for concealed dash lamps. 1,621,873; Mar. 22.
- Culver, Charles A., Northfield, Minn., assignor to Wired Radio, Inc., New York, N. Y. Microphone. 1,616,414; Feb. 1.
- Culver, Charles L., Olalla, Wash. Planetary gear drive for automobiles. 1,629,021; May 17.
- Culver, Edward. (See Watson, F. B., and Culver.)
- Culver, Edwin S. (See Oliver, W. H., and Culver.)
- Culver, Guy L., Scranton, Pa. Street barrier. 1,632,000; June 21.
- Culver, James J. C., Camden on Gauley, W. Va. Knife. 1,627,689; May 10.
- Culver, Lagar R., assignor to New-Comer Trailer Mfg. Co., Los Angeles, Calif. Automobile train. 1,613,345; Aug. 30.
- Culver, Lewis O., West Pittston, assignor to Culver-Bevan Fruit Jar Company, Wilkes-Barre, Pa. Cap-fastening means for preserving jars. 1,631,522; June 7.
- Culver, Lewis O., West Pittston, assignor to Culver-Bevan Fruit Jar Company, Wilkes-Barre, Pa. Fruit jar and closing mechanism. 1,636,684; July 26.
- Culver, Orin S. (See Fletcher, J. B., and Culver.)
- Culver Stearns Manufacturing Company. (See Culver, Carl H., assignor.)
- Cumfer, Harry A., Chicago, Ill., assignor of one-half to The Flintkote Company, Boston, Mass. Roofing element. 1,619,598; Mar. 1.
- Cumfer, Harry A., Chicago, Ill., assignor of one-half to The Flintkote Company, Boston, Mass. Shingle element. 1,619,599; Mar. 1.
- Cumfer, Harry A., Chicago, Ill., assignor of one-half to The Flintkote Company, Boston, Mass. Roofing element. 1,619,600; Mar. 1.
- Cumfer, Harry A., Chicago, Ill., assignor of one-half to The Flintkote Company, Boston, Mass. Shingle strip. 1,619,601; Mar. 1.
- Cumfer, Harry A., assignor to Guyton & Cumfer Mfg. Co., Chicago, Ill. Adjusting device for saturators and counters. 1,652,518; Dec. 13.
- Cumfer, Harry A., Chicago, Ill., assignor of one-half to A. D. Stewart, Hutchinson, Kans. Plaster-receiving board. 1,653,037; Dec. 20.
- Cuming, James S., St. Louis, Mo. Plural lamp socket. 1,616,528; Feb. 8.
- Cummer, Harry, deceased; J. W. Van Allen, Buffalo, N. Y., and H. W. Cummer, Detroit, Mich., executors. Indicator for measuring instruments. 1,615,572; Jan. 25.
- Cummer, Harry, deceased, Buffalo, N. Y.; H. W. Cummer and J. W. Van Allen, executors, assignors to The Cummer Scale Company, Inc. Weighing scale. 1,622,092; Mar. 22.
- Cummer, Harry W., et al., executors. (See Cummer, Harry, assignor.)
- Cummer Scale Company, The. (See Cummer, Harry, assignor.)
- Cunningham, Percy G. (See Snook, Diamond A., assignor.)
- Cummings, Alfred J., Kyabram, Victoria, Australia. Supporting attachment for trousers. 1,638,921; Aug. 16.
- Cummings, Earle W., assignor of one-half to Santa Barbara Lumber Company, Santa Barbara, Calif. Ironing board. 1,622,495; Mar. 29.
- Cummings, Earle W., Santa Barbara, Calif. Casement window mounting. 1,640,483; Aug. 30.
- Cummings, Earle W., assignor of one-half to Santa Barbara Lumber Company, Santa Barbara, Calif. Hinge. 1,635,462; July 12.
- Cummings, George A., assignor to Everette Signal Company, Spokane, Wash. Direction indicator. 1,648,579; Nov. 8.

- Cummings, George C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Contact device. 1,624,476; Apr. 12.
- Cummings, Helen J., Cleveland, Ohio, assignor to The Miller Company, Meriden, Conn. Glass globe. Des. 71,780; Jan. 4.
- Cummings, Helen J., Cleveland, Ohio, assignor to The Miller Company, Meriden, Conn. Glass globe. Des. 71,781; Jan. 4.
- Cummings, Irving, Los Angeles, Calif. Water-power utility. 1,635,820; July 12.
- Cummings, James D., El Campo, Tex. Winch attachment for tractors. 1,650,329; Nov. 22.
- Cummings, Robert L., Spokane, Wash. Sledged scoop. 1,635,878; Feb. 22.
- Cummings, Roy W. (See Bunker, D. W., and Cummings.)
- Cummings, Stanley R. (See Ewing, F. K., and Cummings.)
- Cummings, Valentine. (See Callaghan, W., Cummings, and Dunterman.)
- Cummings Vote Register Corporation. (See Schuessler, William J., assignor.)
- Cummings, Walter J. (See Asditt, Charles G., assignor.)
- Cummins Perforator Company. (See Swanson, Hjalmar, assignor.)
- Cummiskey, James. (See Thomson, C. H., Cummiskey, Miller, and Jones.)
- Cunner, Matthew S. (See Geissenhainer, F. W., and Cunner.)
- Cumpston, Ira E., and L. N. Pyzer, Tryon, Nebr. Stock guard. 1,646,476; Oct. 25.
- Cunley, Clarence E., Philadelphia, Pa. Fiber-head spool. 1,630,058; May 24.
- Cundy, Oscar R., Dormont, Pa., assignor to Sullivan Machinery Company, Compressor unloader mechanism. 1,614,491; July 8.
- Cunliffe, Wilfred, Stamford, Conn. Indicator. 1,634,176; June 28.
- Cunniff, Edward A., Waltham, assignor to Draper Corporation, Hopedale, Mass. Intermittent temple-thread cutter for automatic filling-replenishing looms. 1,615,441; Jan. 25.
- Cunniff, Edward A., Waltham, assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for shifting shuttle-box looms. 1,628,807; May 10.
- Cunniff, Edward A., Waltham, assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for shifting shuttle-box looms. 1,628,808; May 10.
- Cunniff, Edward A., Waltham, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,638,899; July 26.
- Cunniff, Edward A., Waltham, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,649,776; Nov. 15.
- Cunniff, Edward A., Waltham, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,654,478; Dec. 27.
- Cunningham, Arthur B., Chicago, Ill. Radial averaging planimeter. 1,638,984; Aug. 16.
- Cunningham, Arthur B., assignor to Republic Flow Meters Co., Chicago, Ill. Pressure indicator. 1,614,457; Jan. 18.
- Cunningham, Arthur B., assignor to Republic Flow Meters Co., Chicago, Ill. Pen lifter for recording instruments. 1,619,241; Mar. 1.
- Cunningham, Clyde F., Clarkburg, W. Va. Rope. 1,631,086; May 31.
- Cunningham, David F., Kansas City, Mo. Milk bottle. 1,639,398; Aug. 16.
- Cunningham, E. T. (See Danielson, Ernest G., assignor.)
- Cunningham, E. T. (See Wise, Roger M., assignor.)
- Cunningham, E. T. (See Wise, R. M., and Danielson, assignors.)
- Cunningham, Earl T., Lansing, Mich. Freight car. 1,619,920; Mar. 8.
- Cunningham, Earl T., Lansing, Mich. Automobile shipping deck. 1,644,713; Oct. 11.
- Cunningham, Katherine E., assignor to The H. W. Gossard Co., Chicago, Ill. Brassiere. 1,640,823; Aug. 30.
- Cunningham, Owen E. (See Cunningham, Thomas E. and O. E.)
- Cunningham, Percy C., Los Angeles, Calif. Front for an electrical flat-iron receptacle. Des. 73,027; July 12.
- Cunningham, Robert E., Fannin County, Ga. Clod-breaking attachment for plows. 1,612,908; Jan. 4.
- Cunningham, Roy S., assignor of one-third to F. J. Hassell and one-third to J. R. Kell, Los Angeles, Calif. Carburetor. 1,620,080; Mar. 8.
- Cunningham, T. S., et al. (See Hansen, John, assignor.)
- Cunningham, Thomas E. and O. E., Minneapolis, Minn. Undergarment. 1,638,922; Aug. 16.
- Cunningham, Thomas H., assignor to The Lamson Company, Syracuse, N. Y. Removable bumper for dispatch carriers. 1,650,982; Nov. 29.
- Cunningham, William H., and J. T. Rowan, Pittsfield, Mass. Water-cooled grate. 1,637,216; July 26.
- Cuno Engineering Corporation, The. (See Liebing, Howard C., assignor.)
- Cuppitt, Charles J., Uniontown, Pa. Vehicle brake. 1,633,001; June 21.
- Cupples Company, Manufacturers. (See Thener, Arthur F., assignor.)
- Cupples Company, Manufacturers. (See Thener, A. F., and Kountzman, assignors.)
- Curdy, Jay A., Cleveland, Ohio. Line traverser for fishing-reel lines. 1,649,154; Nov. 15.
- Cureton, Edward, Stockton, Calif. Masquerade novelty. 1,618,517; Feb. 22.
- Cureton, Samuel. (See Loftus, S. A., and Cureton, assignors.)
- Cureton, Thomas. (See Loftus, S. A., and Cureton.)
- Cureton, William, Chicago, Ill. Foundry sand. 1,614,659; Jan. 18.
- Curle, George L., Minneapolis, Minn. Cam stop strip for keyboard assemblies of machines for casting lines of type. 1,638,799; Aug. 9.
- Curry, Robert S. (See Whittier, J. K., Langevin, and Curley.)
- Curley, Robert S., Lowell, Mass., assignor, by mesne assignments, to Kitson Machine Shop. Cotton-distributing mechanism. 1,630,375; May 31.
- Curlis, Julius P., Coffeyville, Kans. Tire-patching machine. 1,628,122; May 10.
- Curme, George O., Jr., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Thermal decomposition of hydrocarbons. 1,646,849; Oct. 18.
- Curme, George O., Jr., and H. E. Thompson, Clendenin, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Gas apparatus. 1,638,434; Aug. 9.
- Curran, Edward T., Detroit, Mich. Automobile radiator thermometer. 1,626,790; May 8.
- Curran, Eugene, Cardiff, and J. J. Hickey, Llanishen, near Cardiff, Wales. Vehicle. 1,634,021; June 28.
- Curran, Harry L., New York, N. Y. Automobile radiator shield. 1,631,948; June 7.
- Curran, Jerome P., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 74,139; Dec. 27.
- Curran, John B., Westfield, Mass., assignor, by mesne assignments, to The Fuller Brush Company, Hartford, Conn. Collapsible receptacle. 1,620,803; Mar. 15.
- Curran, Raymond W., Kansas City, Mo. Order-carrying hoop and holder therefor. 1,652,429; Dec. 13.
- Curran, Stanley T. (See Mueller, E. C., Jr., and Curran.)
- Curran, Stanley T., Mountain Lakes, and E. C. Mueller, Jr., Elmhurst, N. J., assignors, by mesne assignments, to Western Electric Company, Incorporated. Telephone jack. 1,616,114; Feb. 1.
- Curree, Joseph A., Boston, Mass. Stiffening reinforcement for shirt neckbands. 1,645,946; Oct. 18.
- Currey, H. Wanda, et al. (See Seward, Ira W., assignor.)
- Currey, Pinney A., Baker, Oreg. Curette. 1,640,113; Aug. 23.
- Currie, Gail G., Los Angeles, Calif. Fan wheel. 1,620,875; Mar. 15.
- Currie, Robert A., Syracuse, assignor to R. E. Dietz Company, New York, N. Y. Bail fastening or attaching means for lanterns and the like. 1,648,446; Nov. 8.
- Currie, William, assignor to Chrome Steel Works, Carteret, N. J. Screen grate for ball mills. 1,637,986; Aug. 2.
- Currier, Bernard P., assignor to American Optical Company, Southbridge, Mass. Measuring instrument. 1,621,352; Mar. 15.
- Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Radio receiving set. 1,650,432; Nov. 22.
- Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 71,957; Feb. 8.
- Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 71,958; Feb. 8.
- Currier, Philip M., Ballston Lake, N. Y., assignor to General Electric Company. Transformer-voltage-regulating system. 1,620,619; Mar. 8.
- Currian, E. J., et al. (See Farmer, C. D., and Libby, assignors.)
- Currihan, John F., Cambridge, Mass. Automatic cutting device. 1,620,876; Mar. 15.
- Curry, Charles D., Henryetta, Okla. Rail tie. 1,626,517; Apr. 26.
- Curry, Clarence, Richmond, Va. Sausage-making machine. 1,629,655; May 24.
- Curry, Gordon C., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Nozzle adjustment for suction sweepers. 1,645,763; Sept. 27.
- Curry, P. Mfg. Co. (See Fowler, Henry B., assignor.)
- Curry, John K., Peoria, Ill. Fruit-juice extractor. 1,646,527; Oct. 25.
- Curry, Joseph, Jr. (See Curry, Joseph W., assignor.)
- Curry, Joseph W., assignor of one-half to J. Curry, Jr., Brewerton, N. Y. Collapsible crate. 1,618,062; Feb. 15.
- Curry, Malcolm, Scarsdale, assignor to American Thread Company, New York, N. Y. Wound sewing-machine bobbin. 1,649,289; Nov. 15.
- Cursons, Edward C., Buffalo, N. Y. Cashier's box. 1,647,275; Nov. 1.
- Curtain Supply Company. (See Holt, Thomas W., assignor.)
- Curti, Ernesto, Milan, Italy. Apparatus for generating, controlling, and utilizing air currents. 1,629,437; May 17.
- Curtin, David F., assignor, by mesne assignments, to The Vortex Mfg. Co., Chicago, Ill. Container for paper cups. 1,625,193; Apr. 19.

- Curtin, Leo P., Freehold, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Preserving wood and solutions therefor. 1,620,152; Mar. 8.
- Curtin, Leo P., Freehold, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Wood preservative. 1,624,930; Apr. 19.
- Curtis, Alfred S. (See Nordenstam, R. and Curtis.)
- Curtis, Alfred S., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave-transmission system and apparatus. 1,636,765; July 26.
- Curtis, Arthur H. S. R. Wright, and A. H. Mackley, Bedford, England. Coil holder for wireless signaling systems. 1,613,222; Jan. 4.
- Curtis, Arthur L., Chicago, Ill. Perpetual calendar. 1,635,927; July 12.
- Curtis, Arthur R., Cleveland, Ohio. Automatic releasing switch. 1,640,189; Oct. 3.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,624,395; Apr. 12.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling system. 1,624,396; Apr. 12.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,629,093; May 17.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Alarm system. 1,632,059; June 14.
- Curtis, Austen M., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Signaling system. 1,632,275; June 14.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated. Oscillation generating and supply system. 1,632,389; June 14.
- Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 1,639,929; Aug. 23.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vibrating device. 1,641,251; Sept. 6.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-current transmission. 1,646,811; Oct. 25.
- Curtis, Charles C., assignor to Halstead Specialties Co., Oakland, Calif. Liquid-dispensing device. 1,616,077; Feb. 1.
- Curtis Companies. (See Madsen, Sern, assignor.)
- Curtis, Edward E. (See Carman, E. S. and Curtis.)
- Curtis, Edward E., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Wire-base brush. 1,620,008; Mar. 8.
- Curtis Gas Engine Corporation. (See Newton, Earle R., assignor.)
- Curtis, George A., Framingham, Mass. Clincing wire and nail. 1,623,465; Apr. 5.
- Curtis, Harry D., Oshkosh, Wis. Snow remover. 1,623,910; Apr. 5.
- Curtis, Henry E., San Jose, assignor of one-half to J. H. Betts, Long Beach, Calif. Shackle assembly. 1,620,756; Mar. 15.
- Curtis, Henry E., San Jose, assignor of one-half to J. H. Betts, Long Beach, Calif. Motor-vehicle construction. 1,647,084; Oct. 25.
- Curtis, Jeremiah J., Wollaston, Mass. Trap. 1,652,702; Dec. 13.
- Curtis, John S., Oakland, Ill. Retaining the dumping elements of vehicles. 1,631,018; May 31.
- Curtis, Kenneth L. (See Bushman, E. L., Curtis, and Ward.)
- Curtis Leger Co. (See Burke, Lawrence J., assignor.)
- Curtis, Lewis E., Milwaukee, Wis., assignor to The Youngstown Pressed Steel Company. Continuous lath-expanding machine. 1,619,499; Mar. 1.
- Curtis, Lewis E., Milwaukee, Wis., assignor, by mesne assignments, to A. C. Paul, Minneapolis, Minn., and G. A. Chritton, River Forest, Ill., trustees. Apparatus for expanding metal corner beads. 1,624,542; Apr. 12.
- Curtis, Lewis E., Milwaukee, Wis., assignor, by mesne assignments, to A. C. Paul, Minneapolis, Minn., and G. A. Chritton, River Forest, Ill., trustees. Apparatus for expanding metal lath. 1,624,543; Apr. 12.
- Curtis, Lewis E., Warren, Ohio, assignor, by mesne assignments, to A. C. Paul, Minneapolis, Minn., and G. A. Chritton, River Forest, Ill., trustees. Corner bead. 1,624,544; Apr. 12.
- Curtis, Mabel B., et al. (See Kaufmann, Jacob L., assignor.)
- Curtis, Otto E., Pittsford, N. Y. Radio receiving system. 1,614,458; Jan. 18.
- Curtis, Robbins. (See Gray, B., and Curtis.)
- Curtis, Robert E., Benton Harbor, Mich. Indicator. 1,643,238; Sept. 20.
- Curtis, Ross E., Lincoln, Kans. Attachment for tractors. 1,636,628; July 19.
- Curtis, Thomas S., assignor, by mesne assignments, to Pacific-Southwest Trust & Savings Bank, trustee, Los Angeles, Calif. Grinding ball and process of making. 1,640,885; Aug. 30.
- Curtis, Thomas S., assignor, by mesne assignments, to Pacific-Southwest Trust & Savings Bank, trustee, Los Angeles, Calif. Nonslip floor tile. 1,640,886; Aug. 30.
- Curtis, Timothy H., Westminster, England. Ladder.
- Curtiss Aeroplane and Motor Co. (See Beisel, Rex B., assignor.)
- Curtiss Aeroplane & Motor Co. (See Ray, William A., assignor.)
- Curtiss Aeroplane and Motor Company. (See Birmingham, Thomas H., assignor.)
- Curtiss Aeroplane and Motor Company. (See Gilmore, William L., assignor.)
- Curtiss Aeroplane and Motor Company. (See Mummert, Harvey C., assignor.)
- Curtiss Aeroplane and Motor Company. (See Mummert, H. C., and Meade, assignor.)
- Curtiss, Aeroplane and Motor Company. (See Nutt, Arthur, assignor.)
- Curtiss Aeroplane and Motor Company. (See Thurston, Arthur L., assignor.)
- Curtner, Rolland, Marion, Ind. Cutter. 1,620,153; Mar. 8.
- Curtright, Amos F., Meeker, Colo. Insulator for antennae. 1,617,989; Feb. 15.
- Cushing, Daniel, Cambridge, Mass. Tapping plug for metallurgical furnaces. 1,651,445; Dec. 6.
- Cushing, William C., Bristow, Okla. Plug for oil wells. 1,633,078; Aug. 16.
- Cushman, Alerton S., Greenwich, Conn., assignor to The American Rolling Mill Company, Middletown, Ohio. Corrugated-metal culvert. 1,652,703; Dec. 13.
- Cushman, Charles S., Barre, Vt. Stone polisher. 1,617,578; Feb. 15.
- Cushman Chuck Company, The. (See Sloan, Harry E., assignor.)
- Cushman, David D., Wichita Falls, Tex. Oil separator. 1,647,344; Nov. 1.
- Cushman, Everett B., Lansing, Mich. Internal-combustion engine. 1,630,527; May 31.
- Cushman, Frederick B., assignor to H. T. Cushman Mfg. Co., North Bennington, Vt. Combined smoker's stand and magazine rack. Des. 72,820; June 14.
- Cushman, Frederick B., assignor to H. T. Cushman Mfg. Co., North Bennington, Vt. Combined smoker's stand and tilting table. Des. 73,028; July 12.
- Cushman, H. T., Mfg. Co., The. (See Barr, William J., assignor.)
- Cushman, H. T., Mfg. Co. (See Cushman, Frederick B., assignor.)
- Cushman, Joseph W. (See Groves, H. T., and Cushman.)
- Cushman Motor Works. (See Tanner, P. A., and Irgens, assignor.)
- Cushnyr, John P., Ashtabula, Ohio. Car-platform cradle for car wheels. 1,643,544; Sept. 27.
- Cuswa, Charles B., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Drying tile. 1,629,151; May 17.
- Cuswa, Charles B., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Grating. 1,636,592; July 19.
- Cuswa, Charles B., assignor to The Commercial Shearing and Stamping Company, Youngstown, Ohio. Pallet. 1,637,411; Aug. 2.
- Cusick, Joseph B. (See Forgey, J. A., and Cusick.)
- Custenbender, John M., MacKlawn, assignor to The Revco Manufacturing Co., East Peoria, Ill. Power take-off device. 1,639,630; Aug. 16.
- Custer, Arthur E., Los Angeles, Calif. Carpet, rug, and floor brush. 1,617,103; Feb. 8.
- Custer, Charles W., Quinter, Kans. Inclinoimeter. 1,630,172; May 24.
- Custer, James W., Westernport, Md. Flatiron handle. 1,629,200; May 17.
- Custer, Levitt L., Dayton, Ohio. Aerial cable transportation means. 1,628,827; May 17.
- Custer, Levitt L., Dayton, Ohio. Coin-controlled lock for electric switches of motor vehicles. 1,651,377; Dec. 6.
- Cuthbert, William R. and W. H. Lindemon, Fort Madison, Iowa, assignors to W. A. Sheaffer Pen Company. Pen. 1,653,151; Dec. 20.
- Cutler, David A., Wollaston, assignor to Alfred Hale Rubber Company, Atlantic, Mass. Rubber-sole shoe. 1,622,860; Mar. 29.
- Cutler, Elmer D., et al. (See Daugherty, Claude, assignor.)
- Cutler, Frank W., assignor to Cutler Manufacturing Company, Portland, Ore. Conveyor. 1,629,776; May 24.
- Cutler, Frank W., assignor to Cutler Manufacturing Company, Portland, Ore. Fruit grader. 1,633,002; June 21.
- Cutler, Frank W., assignor to Cutler Manufacturing Company, Portland, Ore. Sorting and grading device. 1,644,052; Oct. 4.
- Cutler-Hammer Mfg. Co. (See Cherry, Oscar A., assignor.)
- Cutler-Hammer Mfg. Co. (See Coldwell, John S., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Evans, Clarence T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Evans, C. T., and Holder, assignors.)
- Cutler-Hammer Mfg. Co., The. (See Horter, Bayard M., assignor.)
- Cutler-Hammer Mfg. Co. (See Hutton, Urie O., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Layman, Frank E., assignor.)

- Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Lockett, Ralph G., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Meuer, George J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Miller, William W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Mortensen, Niels L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Oberschmidt, Frederick H., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Packard, Horace N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Re Qua, Frederick L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Reed, Harrison P., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Rodman, T. H., and Darlington, assignors.)
- Cutler-Hammer Mfg. Co., The. (See Seeger, Edwin W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Stoelke, Erwin R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Stone, David, assignor.)
- Cutler-Hammer Mfg. Co., The. (See Taylor, Herman J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Wade, Henry N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry C., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Wilson, John C., assignor.)
- Cutler, Isabella M. (See Cutler, William C., assignor.)
- Cutler Manufacturing Company. (See Cutler, Frank W., assignor.)
- Cutler, Samuel R., administrator. (See Furber, Frederick M., assignor.)
- Cutler, William C., assignor to I. M. Cutler, Glendale, Calif. Selective vending machine for stacked articles. 1,619,292; Mar. 1.
- Cutler, William C., assignor to I. M. Cutler, Glendale, Calif. Selective dispensing machine. 1,619,293; Mar. 1.
- Cutler, William C., assignor to I. M. Cutler, Glendale, Calif. Rotary selecting mechanism for vending machines. 1,619,294; Mar. 1.
- Cutler, William C., assignor to I. M. Cutler, Glendale, Calif. Coin carrier for multiple-vending machines. 1,634,595; July 5.
- Cutler, William C., Glendale, assignor, by mesne assignments, to W. M. Armstrong, F. A. McBurney and F. C. Wolf, trustees, Los Angeles, Calif. Central-discharge selective vending machine. 1,653,347; Dec. 20.
- Cutler, William C., Los Angeles, assignor to I. M. Cutler, Glendale, Los Angeles, Calif. Pneumatic book. 1,640,448; Nov. 15.
- Cutshaw, Frank T., Indianapolis, Ind., assignor to O. Schellert. Athletic arch support. 1,627,596; May 10.
- Cutts, Georges E., assignor to the Société Anonyme des Anciens Etablissements Cutta & Cie., Paris, France. Turret lathe. 1,644,666; Oct. 4.
- Cutter, Charles W., Long Beach, Calif. Grade indicator. 1,623,234; Apr. 5.
- Cutter, Scott C., Oswego, Ill. Insulator. 1,620,804; Mar. 15.
- Cutts, Richard M., sr. (See Cutts, Richard M., jr., assignor.)
- Cutts, Richard M., jr., assignor to R. M. Cutts, sr., Washington, D. C. Anticlimb device. 1,636,357; July 19.
- Cutuli, Vincenzo, assignor of one-half to F. Perella, Pittsburgh, Pa. Lock. 1,649,512; Nov. 15.
- Cuyaboga Spring Company, The. (See Hoffman, John A., assignor.)
- Cuypers, Jean, Uerdingen-on-the-Rhine, Germany. Drum drying material. 1,635,542; Nov. 8.
- Cyclo Corporation. (See Honig, Frank, assignor.)
- Cyclo Corporation. (See Lee, J. H., and Honig, assignors.)
- Cyclone Fence Company. (See Harter, Noah S., assignor.)
- Cyclone Manufacturing Company, The. (See Speicher, Harold S., assignor.)
- Cyklop Akt. Ges. (See Staehle, Gustav, assignor.)
- Cylinder Top Oilers, Limited. (See Heywood, James H., assignor.)
- Cylkowski, Frank A., Detroit, Mich. Window-decorating device. 1,646,190; Oct. 18.
- Cyphers, James F., Baltimore, Md. Rectifying column. 1,640,068; Aug. 23.
- Cyphers, James F., Baltimore, Md. Rectifying column. 1,640,069; Aug. 23.
- Cyr, William A., Auburn, Me. Window fixture. 1,617,470; Feb. 15.
- Czakó, László, Budapest, Hungary. Holding films in spaced coil forms. 1,624,586; Apr. 12.
- Czapek, Emil, and R. Weingand, Bomlitz, near Walsrode, Germany. Production of film-like bands from cellulose solutions and similar initial materials. 1,641,322; Sept. 6.
- Czarnicki, Wladyslaw. (See Murphy, T. W., and Czarnicki.)
- Czech, Fred, Wichita Falls, Tex. Incandescent electric lamp. 1,641,068; Aug. 30.
- Czerniak, Casimir. (See Czerniak, Joseph and C.)
- Czerniak, Joseph and C., South Chicago, Ill. Railway-switch-operating device. 1,620,326; Mar. 8.
- Czizors, Paul A., Washington, D. C. Golf accessory. 1,634,692; July 5.
- Czochralski, Johann, Frankfurt-on-the-Main, Germany, assignor, by mesne assignments, to Allied Process Corporation, New York, N. Y. Aluminum alloy containing lithium. 1,620,082; Mar. 8.
- Czochralski, Johann, and G. Welter, Frankfurt-on-the-Main, Germany, assignors, by mesne assignments, to Allied Process Corporation, New York, N. Y. Alloy of lithium and aluminum. 1,620,081; Mar. 8.
- Czorhoy, Mihaly S., et al. (See Moinar, Zoltan, assignor.)
- Czortkowski, John, St. Johns, assignor to Vanderweghe Limited, Montreal, Quebec, Canada. Fur-dressing machine. 1,649,216; Nov. 15.
- D. & B. Pump and Supply Company. (See Burgess, L. P., and Stevenson, assignors.)
- D. P. Battery Company Limited. (See Waddell, John, assignor.)
- Dane, Arthur J., assignor to The Acme Printing Appliance Co., Chicago, Ill. Ink-distributing roller. 1,637,807; Aug. 2.
- Danbey, Lillian M., Kansas City, Kans. Window shelf. 1,607,419; Aug. 18.
- Dabrowsky, August, Washington, D. C. Semiautomatic rammer for guns. 1,629,683; May 24.
- Dacey, Edward J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Jacquard mechanism for looms. 1,631,523; June 7.
- Dacey, Edward J., and W. W. Robertson, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Movable grid for filling stop motion. 1,651,116; Nov. 20.
- Dachman, Samuel, Brooklyn, N. Y. Stewpan or similar article. Des. 73,070; July 19.
- Dachs, Artur. (See Siegfried, W., and Dachs.)
- Dackmine, Désiré, and H. Monier, Lewiston, Me. Thread carrier and stop motion for web-replenishing looms. 1,637,217; July 26.
- Daddin, Pasquale, New York, N. Y. Suction cleaner. 1,635,821; July 12.
- Daddisman, Reginald A. (See Barrymore, O. C., and Daddisman.)
- Dade, Thomas G., Dayton, Ohio. Wheel. 1,643,700; Sept. 2.
- Dandourian, Haroutune M., Hartford, Conn. Spectacle case. 1,638,727; Aug. 9.
- Dady, Arthur O., Highland Park, assignor, by mesne assignments to Conlon Corporation, Cicero, Ill. Ironing machine. 1,652,561; Dec. 13.
- Daeinick, Paul J., Company. (See Huenig, William T., assignor.)
- Dager, Albert, assignor of one-half to R. H. Crews, El Paso, Tex. Rotary roll-paper feeder for two-revolution cylinder presses. 1,645,094; Oct. 11.
- Dages, Urban J., Los Angeles, Calif. Automatically-adjustable base. 1,650,433; Nov. 22.
- D'Agostino, Antonio, Ozone Park, N. Y. Bottle closure. 1,647,794; Feb. 19.
- D'Aguanio, Angelo, Providence, R. I. Automobile safety device. 1,646,139; Oct. 18.
- Dahl, Christ, Chicago, Ill. Tire carrier and protector. 1,629,777; May 24.
- Dahl, Conrad, Springfield, Ohio, assignor to R. N. Burton, Chicago, Ill. Self-balancing kite. 1,632,822; June 21.
- Dahl, George B., New York, N. Y. Oil burner. 1,613,820; Jan. 11.
- Dahl, Jack F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,612,965; Jan. 4.
- Dahl, John, Pittsburgh, Pa. Roller skate. 1,616,952; Feb. 8.
- Dahl, Sigvald, Myrval P., Oslo, Norway, assignor of one-half to H. Carlsen, Brooklyn, N. Y. Safety device for burners. 1,630,926; May 31.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Lighting-fixture wall bracket. Des. 74,100; Dec. 20.
- Dahl, Thure, assignor to Corona Corporation, New York, N. Y. Lamp-shade holder. 1,637,739; Aug. 2.
- Dahlberg, Charles, Anaconda, Mont. Shaking screen. 1,648,543; Nov. 8.
- Dahlberg, Charles L., Des Moines, Iowa. Notebook holder. 1,623,235; Apr. 5.
- Dahlberg & Company. (See Lathrop, E. C., and Munroe, assignors.)
- Dahlberg & Company. (See Munroe, Treadway B., assignor.)
- Dahlin, Horace O., Harrisburg, Pa. Water storage and filter tank. 1,653,204; Dec. 20.
- Dahman, Alfred, Ripple, Ore. Undercutting-saw support. 1,632,727; June 14.
- Dahlquist, Ernest A., Long Beach, Calif. Fishing lure. 1,627,637; May 10.
- Dahlquist, Theodore W., Dedham, Mass. Boiler. 1,648,043; Nov. 8.
- Dahlstrand, Hans P., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Manipulative appliance. 1,641,415; Sept. 6.

- Dahlstrand, Hans P., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Coupling. 1,641,740; Sept. 6.
- Dahlstrom, Josef Y., Wellsville, N. Y. Rotary fluid motor. 1,616,983; Feb. 8.
- Dahlstrom, Alger. (See Chadwick, L. S., Resek, and Dahlstrom.)
- Dahlstrom, John J., assignor to Walkee Toy & Novelty Co., Inc., New Orleans, La. Toy. 1,621,353; Mar. 15.
- Dahlstrom Metallic Door Company, The. (See Johnson, Axel Z., assignor.)
- Dahmen, Josef, Dusseldorf, assignor to Dusseldorfer Werkzeugmaschinen-Fabrik und Eisengiesserei, Habersang & Zinnen G. m. b. H., Dusseldorf-Oberbilk, Germany. Head-spindle-stop guide. 1,622,375; Mar. 29.
- Dahne, Harry. (See Weistock, A. E., and Dahne.)
- Daiger, Charles V., Jr., Newton, Mass. Lamp stand. Des. 74,140; Dec. 27.
- Dalgic, Edward J., Sheridan, Wyo. Box or similar receptacle for candy. Dvs. 73,899; Nov. 22.
- Daliker, Richard, Fellbach-Wurtemberg, Germany. Micrometer gauge. 1,618,173; Feb. 22.
- Dailey, Frank L., assignor to Johnson & Johnson, New Brunswick, N. J. Toothbrush. 1,646,082; Oct. 13.
- Dailey, John A., and L. W. Gerth, Burlington, Iowa. Roadside crossroad crossing. 1,623,911; Apr. 5.
- Dailey, Owen R., Davenport, Iowa. Toy top. 1,644,182; Oct. 4.
- Dailey, Russell L., Kansas City, Mo. Selective power transmission. 1,613,646; Jan. 11.
- Dailey, Theodore W., Cleveland, Ohio. Boiler tube or fire cleaning implement. 1,641,375; Sept. 6.
- Daimler-Benz Aktiengesellschaft. (See Aichele, Gottlob, assignor.)
- Daimler-Benz Aktiengesellschaft. (See Klemm, Hans, assignor.)
- Daimler-Benz Aktiengesellschaft. (See Porsche, Ferdinand, assignor.)
- Daimler, Karl, F. Marschall, and G. Balke, Hochst-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Water-soluble condensation product and making same. 1,635,883; July 12.
- Daimler-Motoren-Gesellschaft. (See Porsche, Ferdinand, assignor.)
- Daimler-Motoren-Gesellschaft. (See Schwerdtfeger, Walter S., assignor.)
- Dains, Irven F., Monmouth, Ill., assignor to Western Stoneware Company. Loading device. 1,639,649; Aug. 23.
- Dair Equipment and Container Company. (See Barlow, William E., assignor.)
- Dairymen's League Co-Operative Association, Inc. (See Lewis, William W., assignor.)
- Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)
- Dake, Charles W. (See McGinnis, C. P., and Dake.)
- Dake, Charles W., Chicago, Ill. Lens clip. 1,616,306; Feb. 1.
- Dake, Charles W., Chicago, Ill. Electric-light housing. 1,634,399; July 5.
- Dake, Charles W., Chicago, Ill. Turbo blower. 1,637,474; Aug. 2.
- Dake, Charles W., and R. S. Lewis, assignors to The Pyle-National Company, Chicago, Ill. Glass-polishing machine. 1,626,025; Apr. 26.
- Dake, Charles W., and R. S. Lewis, assignors to The Pyle-National Company, Chicago, Ill. Glass-polishing machine. 1,626,026; Apr. 26.
- Dakin, Frederick W., Westmount, Quebec, Canada. Building enclosure. 1,648,724; Nov. 8.
- Dakin, John E., Milton, Pa. Hosiery. 1,651,677; Dec. 6.
- Dakota Koolaire Company. (See Sawdey, John M., assignor.)
- D'Ablora, John, Yonkers, N. Y. Scouring implement. 1,638,800; Aug. 9.
- Dale, Albert H., Columbus, Ohio. Apparatus for making tire. 1,634,740; July 5.
- Dale, Charles E., Barnsdall, Okla. Wrench. 1,634,610; July 5.
- Dale, Christopher C., et al. (See Smith, Lawrence F., assignor.)
- Dale, Oswald, assignor to The Acme Wire Co., New Haven, Conn. Translucent screen for projected pictures. Dvs. 73,315; June 21.
- Dalen, Gustaf, Lidlington, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Porous mass for storing explosive gases and process of making same. 1,623,169; Apr. 5.
- Dales, Lewis J., Mount Vernon, N. Y. Producing carbon black. 1,633,071; June 21.
- Daley, Dennis W., Parkersburg, W. Va. Building block. 1,650,695; Nov. 29.
- Daley, James A., Hanson, Mass. Meat hanger. 1,614,349; Jan. 11.
- Daley, James C., assignor to Jefferson Electric Manufacturing Company, Chicago, Ill. Making core laminas. 1,633,152; Dec. 20.
- Daley, Michael T. (See Booty, Philip C. P., assignor.)
- Daley, Robert H., et al. (See Woodward, Jesse H., assignor.)
- Dalgard, Edward Z., Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Grinding cement material, etc. 1,649,813; Nov. 22.
- Dalglish, John, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y. Apparatus for the manufacture of rubber or the like tubes. 1,620,521; Mar. 8.
- Dain, Arvid G., assignor to Burd High Compression Ring Company, Rockford, Ill. Shock absorber. 1,645,183; Oct. 11.
- Dain, David, and J. B. C. Lockwood, Seattle, Wash. Dam-gate-operating apparatus. 1,647,508; Nov. 1.
- Dalkner, Frank, Allentown, Pa. Coat. 1,623,781; Apr. 5.
- Dall, J. R., et al. (See Nill, E. A., and Acker, assignors.)
- Dallas, Charles D., Winnetka, Ill. Tube-cleaning apparatus for tinning purposes. 1,643,545; Sept. 27.
- Dallas, Charles D., Winnetka, Ill. Method of and machine for making tubing. 1,652,396; Dec. 13.
- Dallas, Granvil F., (See Fischer, F. W., and Dallas.)
- Dallimore, George W., Oakland, Calif. Variable-speed transmission mechanism. 1,634,138; June 28.
- Dallugue, Rudolph A., Los Angeles, Calif. Apparatus for television. 1,634,571; July 5.
- Dally, Charles A., and W. E. Nestor, Shreveport, La. Valve. 1,650,494; Nov. 22.
- Dalman, Chiles Company. (See Chiles, George S., assignor.)
- Dalmon, William P., Chicago, Ill. Pressure gauge. 1,645,184; Oct. 11.
- Dalton Adding Machine Company, The. (See Landslede, Harry, assignor.)
- Dalton Adding Machine Company, The. (See Tingley, Bruce H., assignor.)
- Dalton, Charles J., New York, N. Y. Tire remover. 1,638,476; Aug. 9.
- Dalton, Charles J., New York, N. Y. Vehicle wheel. 1,641,663; Sept. 6.
- Dalton, Harry, Sr., Philadelphia, Pa. Combined tank and carburetor. 1,634,022; June 28.
- Dalton, Harry M., assignor to The Hall's Safe Company, Cincinnati, Ohio. Locking mechanism for safes. 1,634,933; July 5.
- Dalton Hosiery Mills. (See Williams, James C., assignor.)
- Dalton, Hubert, New York, N. Y. Combined lathe, drilling and milling machine. 1,620,522; Mar. 8.
- Dalton, John T., Durham, N. C., and B. W. Corson, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y. Tobacco-stripping machine. 1,632,177; June 14.
- Dalton, Michael P. (See Owen, T. M., and Dalton.)
- Dalton, Raymond S., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Folding machine. 1,651,190; Nov. 29.
- Dalton, William, Glenville, N. Y., assignor to General Electric Company. Block flooring. 1,632,590; June 14.
- Dalton, William, Schenectady, N. Y. Railroad track. 1,643,701; Sept. 27.
- Daly, Charles W., Davenport, Iowa. Hot-plate auto cook. 1,620,094; May 17.
- Daly, John F., Drexel Hill, G. A. Coats, and G. H. Lutz, assignors to Good Road Equipment Corporation, Philadelphia, Pa. Snow melter. 1,652,767; Dec. 13.
- Daly, John J. (See Batterman, John J., assignor.)
- Daly, John J., West Newton, Mass. Manufacturing shoe stiffeners. 1,613,314; Jan. 4.
- Daly, John J., Newton, Mass. Box-toe shoe. 1,630,788; May 31.
- Daly, Joseph. (See Agrillo, J., and Daly.)
- Daly, Joseph P., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pressing machine. 1,620,071; May 17.
- Daly, Joseph P., Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc. Motion-transmitting mechanism. 1,639,428; Aug. 16.
- Daly, Joseph P., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Mechanism for pressing machines having a start and stop motor. 1,640,144; Aug. 23.
- Daly, Joseph P., assignor to The Prosperity Company Inc., Syracuse, N. Y. Clutch construction. 1,652,704; Dec. 13.
- Daly, Joseph P., assignor to The Prosperity Company Inc., Syracuse, N. Y. Automatic clutch-throw-out mechanism. 1,652,705; Dec. 13.
- Daly, Michael E., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Drum control for washers. 1,652,768; Dec. 13.
- Daly, Thomas J., New York, N. Y. Indicating device. 1,646,687; Oct. 25.
- Daly, Thomas J. M., Memphis, Tenn. Bale-band buckle. 1,631,402; June 7.
- Daly, Walter J., Conshohocken, Pa. Axle and driving wheel for locomotives. 1,642,409; Sept. 13.
- Daly, Walter J., Conshohocken, Pa. Axle and driving wheel for locomotives. 1,642,410; Sept. 13.
- Danzell, John P. (See Lowe, Harry W., assignor.)
- Dann, Henry M. R., Astoria, N. Y., assignor to H. Gattliker-Tanner, Rapperswil St. Gall, Switzerland. Dry battery. 1,613,588; Jan. 4.
- Dann, Henry M. R., Astoria, N. Y., assignor to H. Gattliker-Tanner, Rapperswil St. Gall, Switzerland. Dry battery. 1,613,588; Jan. 4.
- Dann, Henry M. R., Astoria, assignor to J. Block, Brooklyn, N. Y. Electric battery-cell unit and making the same. 1,653,600; Dec. 20.

- Dam, Henry M. R., Brooklyn, N. Y., assignor to Noma Electric Corporation, New York, N. Y. Christmas decorative lighting fixture. Des. 72,937; June 28.
- Dam, Henry M. R., Brooklyn, N. Y., assignor to Noma Electric Corporation, New York, N. Y. Christmas decorative lighting fixture. Des. 72,938; June 28.
- Dam, Henry M. R., Brooklyn, N. Y., assignor to Noma Electric Corporation, New York, N. Y. Christmas decorative lighting fixture. Des. 72,939; June 28.
- Daman, Arthur C., Denver, Colo. Oil feeder for dotation machines. 1,627,014; May 3.
- Daman, Arthur C., Denver, Colo. Educational and amusement device. 1,647,276; Nov. 1.
- Daman, Arthur C., Denver, Colo. Continuous filter. 1,650,434; Nov. 22.
- D'Amato, Dominic J., New Haven, Conn. Motor vehicle. 1,610,443; Jan. 4.
- Dame, Charles A., Providence, R. I. Stop-motion mechanism for braiding and like machines. 1,617,795; Feb. 15.
- Damerell, Mark H., assignor to Wyman-Gordon Company, Worcester, Mass. Shaft centering and marking machine. 1,640,395; Aug. 30.
- Dames, John P. (See Harmon, C. N., and Dames.)
- Damm, Arvid G., Ronninge, Sweden. Apparatus for deciphering cipher messages. 1,643,546; Sept. 27.
- Damm, Arvid G., Huddinge, Sweden. Apparatus for producing series of signs. 1,644,259; Oct. 4.
- Damon, Fred A., et al. (See Kurz, Robert F., assignor.)
- Damon, George B., Belvidere, N. J., assignor to Vulcan Iron Works, Wilkes-Barre, Pa. Briquetting apparatus. 1,650,495; Nov. 22.
- Damore, Antonio, Brooklyn, N. Y. Painter's scaffold. 1,642,333; Sept. 13.
- D'Amours, Leon, Trois-Pistoles, Quebec, Canada. Rail dumper. 1,622,183; Mar. 22.
- Darmy, George, See Neulands, A. B., and Darmy.)
- Dana, Leslie, St. Louis, Mo. Automatic regulator. 1,624,039; Apr. 12.
- Dana, Leslie, St. Louis, Mo., assignor to Charter Oak Stove & Range Company. Oven ventilator. 1,649,449; Nov. 15.
- Dana, J. W. (See Naiman, Julius, assignor.)
- Danker, Johann E. (See Bates, A. M., and Dancker.)
- Danda, Alfred A. (See Fabnestock, A. P., and Danda.)
- Dandeneau, Paul J., Lawndale, Calif. Cotter-pin tool. 1,649,513; Nov. 15.
- Dandridge, Lizzie, Wichita, Kans. Window barrier. 1,633,848; June 28.
- Danforth, George L., Jr., assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Open-hearth furnace. 1,647,213; Nov. 1.
- Danger, Etienne, assignor to Société Anonyme des Usines A. E. Decouffe, Paris France. Cutting device for cigarette machines. 1,621,834; Mar. 22.
- Dangerfield, Lewis, Philadelphia, Pa. Milk-bottle holder. 1,640,927; Aug. 30.
- Daneker, Theodore. (See Fecher, F. F., Danheiser, and Baldauf.)
- Daniel, Alexander, Cleveland, Ohio. Reversing-gear mechanism. 1,628,233; May 10.
- Daniel, Alexander, Cleveland, Ohio. Washing machine. 1,639,491; Aug. 16.
- Daniel, Aubrey W., New Orleans, La. Electric heater. 1,633,573; June 28.
- Daniel, Frederick W., sr., Jacksonville, Fla. Boltless sleeve coupling. 1,631,250; June 7.
- Daniel, Lester E., Croft, Kans. One-man hay or headed-grain picher. 1,649,450; Nov. 15.
- Daniel, Mina, administratrix. (See Daniel, Paul U.)
- Daniel, Olen D. (See McLain, R. E., and Daniel.)
- Daniel, Paul U., deceased, Brooklawn, N. J.; M. Daniel, administratrix, assignor of one-half to F. C. Rogers, Philadelphia, Pa. Amusement device. 1,629,570; May 24.
- Daniel, Rogers W., Indianapolis, Ind. Whistle-control valve. 1,646,646; Oct. 25.
- Daniel, Royal G., Denver, Colo., assignor to The Underwood Typewriter Company, New York, N. Y. Silencing device for typewriters. 1,619,602; Mar. 1.
- Daniel, Willie C., Lonisa, Va. Floor-laying device. 1,638,985; Aug. 16.
- Daniels, Cecil C., assignor of one-fourth to F. W. Stephens and one-fourth to L. Hughes, Weslaco, Tex. Vegetable-washing machine. 1,633,437; June 21.
- Daniels, Charles E., Atchison, Kans. Valve-spring removing and replacing tool. 1,636,046; July 19.
- Daniels, Charles E., assignor to The American Crayon Company, Sandusky, Ohio. Pencil mold. 1,635,261; July 12.
- Daniels, Charles E., assignor to The American Crayon Company, Sandusky, Ohio. Method and apparatus for making pencils. 1,649,892; Nov. 22.
- Daniels, Dwight C., Worcester, Mass. Card index. 1,626,027; Apr. 26.
- Daniels, Ernest S., Washington, D. C. Building joist and beam coupling. 1,652,612; Dec. 13.
- Daniels, Fred H., assignor to S. Riley Stoker Corporation, Worcester, Mass. Apparatus for burning powdered fuel. 1,647,727; Nov. 1.
- Daniels, Harry T., Providence, R. I. Lens-edge-grinding machine. 1,616,178; Feb. 1.
- Daniels, Lee G., Rockford, Ill. Oil and gas burner. Re16,601; Apr. 19.
- Daniels, Lee G., Rockford, Ill. Automatic machine tool. 1,651,948; Dec. 6.
- Daniels, Lee G., Rockford, Ill. Automatic machine tool. 1,651,949; Dec. 6.
- Danielson, Daniel B., Milwaukee, Wis. Building construction. 1,639,399; Aug. 16.
- Danielson, Edna, Berkeley, Calif. Butterfly ornament for garments. Re17,940; June 12.
- Danielson, Ernest G. (See Wise, R. M., and Danielson.)
- Danielson, Ernest G., assignor to E. T. Cunningham, San Francisco, Calif. Transformer. 1,630,693; May 31.
- Danielson, Gustav, Omaha, Nebr. Casement-window adjuster. 1,617,898; Feb. 15.
- Danielson, Martin J. (See Peterson, M., and Danielson.)
- Danielson, Robert C., Chicago, Ill. Composition for and coating metal surfaces. 1,629,072; May 17.
- Danielson, Rubin, Chicago, Ill. Concealable releasably-secured fishhook and bait. 1,638,923; Aug. 16.
- Danielsson, Axel U. S., Ulfunda, assignor to Aktiebolaget Atlas Diesel, Stockholm, Sweden. Arrangement for governing internal-combustion engines. 1,617,378; Feb. 15.
- Danielsson, Axel U. S., Ulfunda, assignor to Aktiebolaget Atlas Diesel, Stockholm, Sweden. Compressed air starting device of internal-combustion engines. 1,632,023; June 14.
- Danks, Alfred C., Cleveland, Ohio. Water-tube boiler. 1,614,948; Jan. 18.
- Danks, Roy L., and M. L. Baker, assignors to The Regal Silver Mfg. Co., New Haven Conn. Spoon or similar article. Des. 72,669; May 17.
- Danks, Roy L., and M. L. Baker, assignors to The Regal Silver Mfg. Co., New Haven, Conn. Spoon or similar article. Des. 73,282; Aug. 23.
- Danly, Philo H. (See Johnston, E. A., and Danly.)
- Danly, Philo H., assignor to International Harvester Company, Chicago, Ill. Tractor. 1,641,802; Sept. 6.
- Danly, Philo H., assignor to International Harvester Company, Chicago, Ill. Tractor. 1,641,803; Sept. 6.
- Danly, Robert C., assignor to Ludwig & Ludwig, Inc., Chicago, Ill. Tractor pin hook and making the same. 1,629,095; May 17.
- Danmar, William. (See Feeley, W. B., and Danmar.)
- Dann, Ernest G., Chicago, Ill., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Segmental spring bumper. 1,645,589; Oct. 18.
- Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-indicating device. 1,615,684; Jan. 25.
- Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer radiator. 1,619,332; Mar. 1.
- Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radiator. 1,619,333; Mar. 1.
- Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer radiator. 1,619,334; Mar. 1.
- Danna, Charles, New Orleans, La. Breather pump. 1,627,377; May 3.
- Dannehl, Otto, Berlin-Zehlendorf, Germany, assignor to Nassloose & Tennotschapp Maschinenleeren Apparaten Fabriek, Utrecht, Holland. Sash holder. 1,622,132; Mar. 22.
- Dannenberg, Walter, Hubbard, Iowa. Hog feeder. 1,642,944; Sept. 20.
- Danner, Edward, Toledo, Ohio. Method and apparatus for forming glassware. 1,627,428; May 3.
- D'Annunzio, Harry C. (See Amodio, Robert, assignor.)
- D'Annunzio, Harry C., Rochester, N. Y. Pressing iron. 1,615,072; Jan. 18.
- Dansk Pressefabrik A/S. (See Skov, Henry, assignor.)
- Dansk Pressefabrik A/S. (See Skov, Henry A., assignor.)
- Danubio, Joseph, East Weymouth, Mass. Device for delivering matches and like articles. 1,614,060; Jan. 11.
- Dapron, Joseph M., St. Louis, Mo., assignor to National Pneumatic Company, New York, N. Y. Air engine. 1,625,487; Apr. 19.
- Dapron, Joseph M., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,644,568; Oct. 4.
- Dapron, Joseph M., St. Louis, Mo., assignor to National Pneumatic Company, New York, N. Y. Safety car-control mechanism. 1,645,690; Oct. 18.
- Darby, Mike. (See Nary, Louis, assignor.)
- Darby, James K., Dayton, Ohio. Liquid-dispensing apparatus or the like. 1,616,785; Feb. 8.
- Darby, John, Philadelphia, Pa., assignor to Shur Loc Elevator Safety Co. Inc., New York, N. Y. Elevator. 1,635,264; July 12.
- Darby, John, Philadelphia, Pa., assignor to Shur Loc Elevator Safety Co. Inc., New York, N. Y. Elevator. 1,635,265; July 12.
- Darby, John, Summit, N. J., and H. C. Jones, Larchmont, assignors to Lithoprint Corporation, New York, N. Y. Photomechanical apparatus for transferring designs from flat to cylindrical surfaces. 1,646,392; Oct. 25.
- Darby, John K., and D. Lucas, Puyallup, Wash. Hen's nest. 1,654,415; Dec. 27.
- Darby, Scott R., Medford, Oreg. Tractor wheel. 1,643,702; Sept. 27.
- Darby, Wesley C., Des Moines, Iowa. Antiglare shield for motor vehicles and the like. 1,621,972; Mar. 22.
- Darco Sales Corporation. (See Mahler, Paul, assignor.)

- D'Arcy, Frank P., Kalamazoo, Mich. Spring construction. 1,618,579; Feb. 22.
- D'Arcy, George W., Boston, Mass. Vaporizing apparatus. 1,640,484; Aug. 30.
- D'Arcy, William A., Rochester, N. Y. Safety device for power presses. 1,615,617; Jan. 25.
- Darker, Alfred H., Upper Norwood, London, assignor to J. Stone & Company, Limited, Deptford, England. Electromagnetic switch for controlling the circuits of train-lighting and similar installations. 1,636,900; July 26.
- Darkins, Samuel P., Pittsburgh, Pa. Trunk hasp. 1,625,351; Apr. 19.
- D'Arizet, Roger M. G. M., Paris, France. Receiptacle. 1,627,233; May 3.
- Darling, Frank W., assignor to The L. A. Thompson Scenic Railway Company, New York, N. Y. Coaster for children. 1,618,272; Feb. 22.
- Darling, George F., Briarbrae, Cawnpore, British India. Axle-box cover for railway or like vehicles. 1,648,378; Nov. 8.
- Darling, James G., Norwood, Ohio. Cutting-blade attachment. 1,623,823; June 21.
- Darling, Nathan C., Orleans, Mass. Lawn mower. 1,617,045; Feb. 8.
- Darling, Theodore H., Long Beach, Calif. Casing-perforating device. 1,644,637; Oct. 4.
- Darlington, Homer T., West Chester, Pa., and R. M. Steffen, Lincoln, Neb., assignors to M. B. Schuster, trustee, Joliet, Ill. Cracking or treating oils and other similar hydrocarbons. 1,614,660; Jan. 18.
- Darlington, Paul W. (See Rodman, T. H., and Darlington.)
- Darlington, Philip J., Brookline, Mass. Micrometer calliper. 1,629,450; May 24.
- Darlington, Philip J., Brookline, Mass. Micrometer callipers. 1,631,019; May 31.
- Darlington, Philip J., Brookline, Mass. Internal micrometer calliper. 1,633,807; June 28.
- Darlington, Philip J., Brookline, Mass. Micrometer calliper. 1,632,554; Dec. 13.
- Darlo Company (See Loomis, Ormond E., assignor.)
- Darnell Walter R., Long Beach, Calif. Swivel caster with brake and lock. 1,632,435; June 14.
- Darnell, Walter R. (See Chesnut, John L., assignor.)
- Darr, Earl A., et al., executors. (See Kraft, Henry P., deceased.)
- Darrah, William A. (See Linn, Robert, assignor.)
- Darrasse, Etienne. (See Darrasse, Léon and E., and Dupont.)
- Darrasse, Léon and E., Paris, and L. Dupont, Vincennes, France. Manufacture of synthetic camphor by means of a liquid catalyst. 1,641,597; Sept. 6.
- Darrin, Marc, Pittsburgh, Pa., assignor to F. N. Burt Company, Limited, Toronto, Canada. Composition of matter and forming same. 1,644,711; Oct. 11.
- Darrow, Benjamin H., Woodstock, assignor to The Sani-Tabl-Tub Company, Alliance, Ohio. Tub. Re16,597; Apr. 19.
- Darrow, William W. (See Madland, G., and Darrow.)
- Darrow, William W. (See Wastge, A., and Darrow.)
- Darst, George H. (See Orth, W. G., and Darst.)
- Dart, Herbert W., deceased. M. S. Dart, executrix, assignor of one-half to W. H. Ziegler, Jr., Colbert, Wash. Vending machine. 1,640,396; Aug. 30.
- Dart, Mila S., executrix. (See Dart, Herbert W.)
- Darwin, Walton P., Washington, D. C. Method and apparatus for the manufacture of hollow articles. 1,648,475; Nov. 8.
- Dass, Banerwar, Bloomfield, N. J., assignor to Ellis-Foster Company. Milk-sugar biscuit. 1,635,972; July 12.
- Dastis, Louis H., Brooklyn, N. Y. Shoe-sole drier. 1,639,592; Aug. 16.
- Dath, Charles E., assignor to W. H. Miner, Inc., Chicago, Ill. Draft gear. 1,648,297; Nov. 8.
- Daubenmeyer, Homer, Detroit, Mich. Hydraulic drive for vehicles. 1,642,103; Sept. 18.
- Daubenspeck, Henry C. (See Winder, S. E., and Daubenspeck.)
- Daudt, Herbert W., Penns Grove, A. E. Parmelee, Carneys Point; and W. S. Calcott, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of tetra-ethyl lead. 1,645,375; Oct. 11.
- Dauer, Ernest I., assignor to A. Weiner, Providence, R. I. Mounting for articles of jewelry. 1,653,260; Dec. 20.
- Daugert, Peter, Wilkes-Barre, H. Frey, Kingston, and J. J. Dunleavy, Plymouth, Pa. Thread cleaner. 1,625,352; Apr. 19.
- Daughaday, Frank P. (See Matteson, Frederick R., assignor.)
- Daughaday, Frank P., Norton, Mass. Buckle. Des. 73,559; Oct. 4.
- Daughaday, Frank P., Norton, Mass. Belt buckle. 1,613,444; Jan. 4.
- Daughaday, Frank P., Norton, Mass. Belt buckle. 1,651,255; Nov. 29.
- Daugherty, Arthur H., Russellville, Tenn. Child's slide. 1,622,093; Mar. 22.
- Daugherty, Claude, Butler, assignor of one-fourth to L. A. Woods and one-fourth to E. D. Cutler, Smithville, Mo. Draft appliance. 1,628,123; May 10.
- Daugherty, George H., Berkeley, Calif. Signalling device. 1,630,730; May 31.
- Daugherty, Thomas E., Baltimore, Md. Signal for road vehicles. 1,617,671; Feb. 15.
- Daugherty, Thomas E., Baltimore, Md. Theft-preventing device. 1,621,925; Mar. 22.
- Daugherty, William F., Cleveland, Ohio. Rail bond. 1,617,836; Feb. 15.
- Daugs, Charles W., Alameda, Calif., assignor to Daugs Ship Crane Company, Method and apparatus for bundling lumber. 1,632,952; June 21.
- Daugs, Charles W., Portland, Ore. Steam connection. 1,650,787; Nov. 29.
- Daugs, Charles W., Portland, Ore., assignor to Daugs Ship Crane Company. Rotary pipe-connecting device. 1,650,788; Nov. 29.
- Daugh Ship Crane Company. (See Daugs, Charles W., assignor.)
- Daul Oil Burner Company. (See Swartz, H., and Mulligan, assignors.)
- Daulton, Ernest N., Fitchburg, Mass. Dandy-roll support for paper machines. 1,621,874; Mar. 22.
- Daumann, Wilhelm, assignor to C. H. F. Müller, Röntgen-Röhrenfabrik, Hamburg, Germany. Electron tube. 1,611,503; Jan. 4.
- Daun, Carl L., and P. E. Keller, assignors to American Electric Motor Company, Milwaukee, Wis. Removable stator for electric motors. 1,626,028; Apr. 26.
- Daun, Carl L., and P. E. Keller, assignors, by mesne assignments, to Splitdorf Electric Company of Wisconsin, Milwaukee, Wis. Inclosed and ventilated electric motor. 1,645,496; Oct. 11.
- Dauphinee, George S. (See Coffey, B. H., and Dauphinee.)
- Dauses, August B. (See Born, O. C., and Dauses.)
- Daussman, Charles F., Glendale, N. Y. Cylinder-grinding machine. 1,652,769; Dec. 13.
- Daveau, Edward W., St. Denis, France. Mud guard for motor vehicles. 1,618,919; Feb. 22.
- Davalos, Edward A., New York, N. Y. Valve lifter. 1,614,350; Jan. 11.
- Davens, Emile, Sierra Madre, Calif. Drying apparatus. 1,650,330; Nov. 22.
- Davenport, George R., Royal Oak, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,621,155; Mar. 15.
- Davenport, George R., Detroit, Mich., assignor to Studebaker Corporation. Fuel separator and vaporizer for the manifolds of internal-combustion engines. 1,627,597; May 10.
- Davenport, George R., Royal Oak, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,635,266; July 12.
- Davenport, Herman A. (See Winkley, E. E., and Davenport.)
- Davenport, Hugh McC., Los Angeles, Calif. Cigarette holder, damper, and preserver. 1,643,703; Sept. 27.
- Davenport Machine & Foundry Company. (See Seeman, Frederick, assignor.)
- Davenport Manufacturing Company. (See Hansen, John, assignor.)
- Davenport, Mayon S., Los Angeles, Calif. Piston-packing-removing appliance. 1,635,743; July 12.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Working substance for heat engines. 1,619,194; Mar. 1.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Heat engine. 1,619,195; Mar. 1.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Transforming heat. 1,619,196; Mar. 1.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Heat engine. 1,619,197; Mar. 1.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Apparatus for refrigerating systems. 1,622,376; Mar. 29.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Control circuits for motors. 1,630,731; May 31.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Cylinder lubrication. 1,632,119; June 14.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Refrigerating apparatus. 1,634,400; July 5.
- Davenport, Sam F., Auburn, assignor to The Creek Chub Bait Co., Garrett, Ind. Artificial bait. 1,645,644; Oct. 18.
- Davey, Albert I., et al. (See Leach, William W., assignor.)
- Davey, Francis A., et al. (See Leach, William W., assignor.)
- Davey, George W. (See Waite, F. H., and Davey.)
- Davey, Harold, et al. (See Leach, William W., assignor.)
- Davey, James A., Sound Beach, Conn., and P. H. Davey and C. L. Gaugler; said Gaugler assignor of his entire right to The Davey Tree Expert Company, Kent, Ohio. Shaft coupling. 1,636,290; July 19.
- Davey, James A., Sound Beach, Conn., and P. H. Davey and C. L. Gaugler; said Gaugler assignor of his entire right to The Davey Tree Expert Company, Kent, Ohio. Air compressor. 1,636,291; July 19.

- Davey, James A., Sound Beach, Conn., and P. H. Davey and C. L. Gaugler; said Gaugler assignor of his entire right to The Davey Tree Expert Company, Kent, Ohio. Power-appliance attachment for automotive vehicles. 1,636,292; July 19.
- Davey, James A., Sound Beach, Conn., P. H. Davey, and C. L. Gaugler; said Gaugler assignor of his one-third to The Davey Tree Expert Company, Kent, Ohio. Apparatus for excavating tree cavities. 1,646,812; Oct. 25.
- Davey, James A., Sound Beach, Conn., P. H. Davey, and C. L. Gaugler; said Gaugler assignor of his entire right to The Davey Tree Expert Company, Kent, Ohio. Apparatus for excavating tree cavities. 1,646,813; Oct. 25.
- Davey, James A. G. (See Davey, Paul H., assignor.)
- Davey, James G., et al. (See Leach, William W., assignor.)
- Davey, John, et al. (See Leach, William W., assignor.)
- Davey, Paul H. (See Davey, James A. and P. H., and Gaugler.)
- Davey, Paul H., Kent, Ohio, assignor of one-half to J. A. G. Davey, Sound Beach, Conn. Power-connecting device. 1,636,293; July 19.
- Davey, Samuel, et al. (See Leach, William W., assignor.)
- Davey, Schuyler, Stillwater, N. Y. Power fork. 1,625,526; Apr. 19.
- Davey Tree Expert Company, The. (See Davey, J. A. and P. H., and Gaugler, assignors.)
- Davey, William H., et al. (See Leach, William W., assignor.)
- Davies, Arthur R., Waterville, Me. Bird cage. 1,632,090; Dec. 6.
- David, Bruce W., Cleveland Heights, Ohio, assignor to Moonbeam Manufacturing Company. Signal-viewing attachment for automobiles. 1,637,309; July 26.
- David Crystal, Inc. (See Worth, Jean C., assignor.)
- David, Tanous H., Sacramento, Calif. Chiropractic adjusting and messaging device. 1,640,536; Aug. 30.
- David, Walter, et al. (See Krieger, Edward A., assignor.)
- Davidson, Alec S., London, England. Locomotive and other boiler or steam generator. 1,618,064; Feb. 15.
- Davidson, Benjamin S., Denton, Tex. Plow-attaching device for cultivators. 1,612,855; Jan. 4.
- Davidson, Charles L., New York, N. Y. Stoker. 1,626,791; May 3.
- Davidson, Charles W., Big Spring, Tex. Sash-pulley marker. 1,632,824; June 21.
- Davidson, Frederic A., Chicago, Ill., assignor to American Safety Device Company, New York, N. Y. Supporting structure. 1,646,725; Oct. 25.
- Davidson, Glenn, H. F., Rippee, C. N. Cone, I. F. Laucks, and H. P. Banks, assignors to I. F. Laucks Inc., Seattle, Wash. Cold rubber product, method of making a zone, and bodying soy-bean flour and process of making the same. 1,622,496; Mar. 29.
- Davidson, Harry O., assignor to Blaw Knox Company, Pittsburgh, Pa. Bridging. 1,642,945; Sept. 20.
- Davidson, Irving, Malden, Mass. Advertising device. 1,642,671; Sept. 20.
- Davidson, James, Montreal, Quebec, Canada. Draining rack for containers. 1,623,392; Apr. 5.
- Davidson, James L., Los Angeles, Calif. Support. 1,624,657; Apr. 12.
- Davidson, James M. (See Adams, R., Davidson, and Gubelmann.)
- Davidson, John F. St. Paul, Minn. Body exerciser. 1,618,273; Feb. 22.
- Davidson, Joseph, Jersey City, assignor of one-half to F. H. Luff, Palisade, N. J. Amusement device. 1,652,975; Dec. 13.
- Davidson, Joseph G., Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation. Making ethylene glycol monoalkyl ethers. 1,614,883; Jan. 18.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Cellulose-ester composition. 1,617,237; Feb. 8.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide & Carbon Chemicals Corporation. Ether of polyolefin glycol and making the same. 1,633,927; June 20.
- Davidson, Joseph G., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Solution of cellulose esters. 1,644,417; Oct. 4.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Solution of cellulose esters. 1,644,418; Oct. 4.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Solution of cellulose esters. 1,644,419; Oct. 4.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Solution of cellulose esters. 1,644,420; Oct. 4.
- Davidson, Louis, New York, N. Y. Arch or truss shoe. 1,639,930; Aug. 23.
- Davidson, Samuel T., St. Louis, Mo. Oil burner. 1,618,174; Feb. 22.
- Davidson, William B., A. C. Michie, and E. W. Muddiman, Newcastle-on-Tyne, England. Distillation of tar and the like. 1,626,588; Apr. 26.
- Davidson, William D. (See Goesser, E. W., and Davidson.)
- Davidson, William D., Los Angeles, assignor, by mesne assignments, of one-half to Emsco Derrick & Equipment Company, Los Angeles, Calif., and one-half to Titusville Forge Company, Titusville, Pa. Pipe slip. 1,630,732; May 31.
- Davidson, William W., Evanston, Ill., assignor to Davidson Manufacturing Company, Madison, Wis. Machine for separating and feeding blanks. 1,613,984; Jan. 11.
- Davidson, William W., Evanston, Ill., assignor to Davidson Manufacturing Company, Madison, Wis. Folding machine. 1,620,444; Mar. 8.
- Davidson, William W., Evanston, Ill., assignor to Davidson Manufacturing Company, Madison, Wis. Machine for separating and feeding blanks. 1,627,015; May 3.
- Davies, William W., assignor to The Ridgely Trimmer Company, Springfield, Ohio. Wire brush. 1,629,481; May 24.
- Davidson Manufacturing Company. (See Davidson, William W., assignor.)
- Davies, David B., and C. J. Thomas, Green Bay, Wis. Slice for paper machines. 1,623,095; Apr. 5.
- Davies, David B. (See Coates, W. A., and Davies.)
- Davies, David R., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Switch contact for circuit breakers. 1,618,969; Mar. 1.
- Davies, David R., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electric switch. 1,648,806; Sept. 27.
- Davies, Frederick, assignor to The Steel Construction Company Limited, Auckland, New Zealand. Bitumen boiler. 1,620,952; Mar. 15.
- Davies, Gilbert, and A. C. Mires, Montreal, Quebec, Canada. Electric-cord connector. 1,613,647; Jan. 11.
- Davies, Hector L., Goverton, near Swansea, England, and S. E. Pound, Aberavon, Wales. Rolling mill for the production of metal sheets or plates. 1,624,931; Apr. 19.
- Davies, Henry R., Valley Cottage, N. Y., assignor to Industrial Research Corporation, Toledo, Ohio. Light-control switch. 1,618,816; Feb. 22.
- Davies, James G., Sydney, New South Wales, Australia. Advertising wares. 1,618,869; Feb. 22.
- Davies, John T., Reading, Mass. Cover for containers. 1,615,442; Jan. 25.
- Davies, Richard D., Alhambra, assignor to Spengler Core Drilling Company, Los Angeles, Calif. Facing the cutting edges of drilling tools. 1,613,942; Jan. 11.
- Davies, W. Sanders, et al. (See Peale, Richard, assignor.)
- Davies, W. Sanders, et al., trustees. (See Davis, Kenneth W., assignor.)
- Davies, W. Sanders, et al., trustees. (See Peale, Richard, assignor.)
- Davies, William R. (See Thomas, H. S., and Davies.)
- Davin, S. V. (See Talbot, James A., assignor.)
- Davis, Albert J., New York, N. Y. Pasteurizing apparatus. 1,638,835; Aug. 16.
- Davis, Albert J., New York, N. Y. Pasteurizing apparatus. 1,647,035; Oct. 25.
- Davis, Alex B. (See Pennington, M. E., and Davis.)
- Davis, Alex B., Cincinnati, Ohio, assignor to A. B. Dick, Chicago, Ill. Stencil sheet. 1,633,072; June 21.
- Davis, Alex B., Cincinnati, Ohio, assignor to A. B. Dick Company, Chicago, Ill. Stencil sheet. 1,633,696; May 27.
- Davis, Alex B., Cincinnati, Ohio, assignor to A. B. Dick Company, Chicago, Ill. Manufacture of stencil sheets. 1,639,080; Aug. 16.
- Davis, Alex B., Cincinnati, Ohio, assignor to A. B. Dick Company, Chicago, Ill. Stencil sheet and producing the same. 1,649,058; Nov. 15.
- Davis, Alexis M., Baltimore, Md., and S. N. Buchanan, New York, N. Y., assignors to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,311; Oct. 4.
- Davis, Alfred B., Birmingham, England. Locomotive or hauling apparatus for railways and tramways. 1,618,918; Feb. 22.
- Davis, Arthur L., Alton, Ill. Cosmetic. 1,629,096; May 17.
- Davis, Arthur P., Brooklyn, N. Y. Electrical contact device for follow-up systems. 1,621,835; Mar. 22.
- Davis, Augustine, jr. (See Shield, Paul S., assignor.)
- Davis, Augustine, jr., Cincinnati, Ohio. Measuring bucket or vessel. 1,620,610; Mar. 8.
- Davis, Augustine, jr., Cincinnati, Ohio. Measuring bucket or vessel. 1,624,477; Apr. 12.
- Davis, Bennett, Inc. (See Davis, L., and Bennett, assignors.)
- Davis, Bernard H., Fullerton, Calif. Pitman end. 1,641,533; Sept. 6.
- Davis Boring Tool Company. (See Davis, Emery E., assignor.)
- Davis Boring Tool Company. (See Koeln, Christian C., assignor.)
- Davis Brick Machinery Company. (See McClelland, William H., assignor.)
- Davis, Cecil C., and G. I. Clarke, West Palm Beach, Fla. Cushioning means for tiltable automobile seats. 1,633,697; June 28.
- Davis, Charles B., New York, N. Y. Purifying carbohydrate solutions, etc. 1,618,148; Feb. 15.
- Davis, Charles B., New York, N. Y. Absorbent decolorizing medium. 1,618,149; Feb. 15.
- Davis, Charles C., Fenton, Mich. Loud speaker. 1,638,245; Aug. 9.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper. 1,614,551; Jan. 11.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,626,132; Apr. 26.

- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Power shovel. 1,643,704; Sept. 27.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Cutter chain. 1,644,181; Oct. 4.
- Davis, Charles H., Inverell, New South Wales, Australia. Tension-distributing means for machine-shear hand pieces. 1,617,436; Feb. 15.
- Davis, Charles H., Cheshire, assignor to The American Brass Company, Waterbury, Conn. Granular brazing solder and producing the same. 1,617,285; Feb. 8.
- Davis, Charles H. and H. W. Luck, Chicago, Ill. Protective garment. 1,642,670; Sept. 20.
- Davis, Charles V., Morganton, N. C. Electric warmer and wiper for windshields of automobiles. 1,640,887; Aug. 30.
- Davis, Clyvia C., Los Angeles, Calif. Pie conformer. 1,633,223; Jan. 4.
- Davis, Claud A., assignor, by mesne assignments, to The Hall Mfg. Company, Toledo, Ohio. Power tool. 1,635,463; July 12.
- Davis, Clawson, Ann Arbor, assignor of one-half to C. J. Seyfried, Morenci, Mich. Air-heating oil stove. 1,622,184; Mar. 22.
- Davis, Clio F., assignor to Davis, Herbert A. and C. F.)
- Davis, Cleveland G., Grand Rapids, Mich. Apparatus for washing ice-cream cans. 1,625,300; Apr. 19.
- Davis, Clifton L., et al. (See Thietten, Frank, assignor.)
- Davis, Clinton C., Pomona, Calif. Automobile top dressing. 1,614,282; Jan. 11.
- Davis, Cortland W., Oak Park, assignor to The Mantle Lamp Company of America, Chicago, Ill. Candle lamp. 1,653,256; Dec. 20.
- Davis, David. (See Adsit, G., and Davis.)
- Davis, David C., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade lashing. 1,618,274; Feb. 22.
- Davis, David C., Chester, Pa., assignor to Westinghouse Electric and Manufacturing Company. Auto-stop governor. 1,624,093; Apr. 12.
- Davis, David C., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Demand meter. 1,632,120; June 14.
- Davis, David C., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,634,897; July 5.
- Davis, David M., Whitestone, Va., and W. B. Freeman, Washington, D. C. Drying plate-printed sheets. 1,613,445; Jan. 4.
- Davis, David R. (See Coates, W. A., Gittins, and Davies.)
- Davis, Dwight C., Monterey Park, Calif. Envelope sealer. 1,633,698; June 28.
- Davis, Dwight F., Secretary of War. (See Ragsdale, Earl J. W., assignor.)
- Davis, Edgar B. (See Cameron, Forrest F., assignor.)
- Davis, Edward E., Chicago, Ill. Column-form clamp. 1,636,462; July 19.
- Davis, Elias V. O., assignor of one-half to J. T. Foody, Hornell, N. Y. Mail box. 1,640,888; Aug. 30.
- Davis, Elisha R., Hazard, Nebr. Calf weaner. 1,636,047; July 19.
- Davis, Emerson, assignor of one-half to G. P. Ruth, Indianapolis, Ind. Automatic vehicle spring controller. 1,631,087; May 31.
- Davis, Emerson, assignor of one-half to G. P. Ruth, Indianapolis, Ind. Shock absorber and rebound check. 1,639,631; Aug. 16.
- Davis, Emery E., assignor to Davis Boring Tool Company, St. Louis, Mo. Expansion reamer. 1,619,855; Mar. 8.
- Davis, Ernest, Chicago, Ill., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pressing-machine mechanism. 1,635,610; July 12.
- Davis, Ernest, Chicago, Ill., assignor, by mesne assignments, to Liberty National Bank, trustee. Pressing-machine-operating mechanism. 1,652,706; Dec. 13.
- Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,645,898; Oct. 18.
- Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating means. 1,649,153; Nov. 15.
- Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant-dispensing apparatus. 1,651,256; Nov. 29.
- Davis, Ernest W., Oak Park, and F. D. Reynolds, Hubbard Woods, assignors to The Bassick Manufacturing Company, Chicago, Ill. Lubricant-dispensing device. 1,646,477; Oct. 26.
- Davis, Francis C., Toronto, Ontario, Canada. Electric switch. 1,649,059; Nov. 15.
- Davis, Francis F., assignor to F. H. Davis, San Rafael, Calif. Wire-cable well-drilling device. 1,621,191; Mar. 15.
- Davis, Francis F., Mount Vernon, Ohio, assignor to F. H. Davis, Monterey, Calif. Drilling apparatus. 1,628,033; May 10.
- Davis, Francis H. (See Davis, Francis F., assignor.)
- Davis, Francis H., and J. W. Klohe, Monterey, Calif.; said Klohe assignor to said Francis H. Davis. Machine for scaling and grading fish. 1,620,953; Mar. 15.
- Davis, Frank, Portland, Oreg. Show case. 1,622,771; Mar. 29.
- Davis, Frank, Brooklyn, N. Y. Noise-making alarm. 1,635,985; July 19.
- Davis, Frank J., Clapham Park, London, England. Securing layers of rubber to layers of other material or to rubber, particularly with reference to footwear. 1,654,240; Dec. 27.
- Davis, Frank M., Milwaukee, Wis. Work feeding and clamping means for metal-working machines. 1,637,176; July 26.
- Davis, Frank M., Milwaukee, Wis. Pipe-cutting-off machine. 1,653,257; Dec. 20.
- Davis, Frank M., Milwaukee, Wis. Self-opening die for pipe-threading machines. 1,653,258; Dec. 20.
- Davis, Frank S. (See Beatty, W. T., Davis, and Wilson.)
- Davis, Frank W., Milford, Del., assignor to S. G. Allen, trustee. Blast-furnace method. 1,640,485; Aug. 30.
- Davis, Frederick B., Lincoln, Va., assignor to National Fruit Juice Extractor Company. Fruit press. 1,653,991; Dec. 27.
- Davis, Frederick C., San Francisco, Calif. Support and backing for terra cotta or other facing blocks. 1,642,842; Sept. 20.
- Davis & Furber Machine Company. (See Putnam, Walter T., assignor.)
- Davis, George B., Des Moines, Iowa, assignor of forty-one per cent to W. Orem, Chicago, Ill. Stopper and sprinkler cap for bottles and the like. 1,643,285; Sept. 20.
- Davis, George H., Orange, N. J. Automatic universal molding machine. 1,614,601; Jan. 18.
- Davis, George H., Newark, N. J. Molding press. 1,641,922; Sept. 6.
- Davis, George H., Newark, N. J. Molding apparatus and method. 1,641,923; Sept. 6.
- Davis, Glenn S., deceased, Rome, Ga.; R. M. Davis, administratrix. Valve-spring compressor. 1,621,237; Mar. 15.
- Davis, Hamilton L. (See Mettler, J. W., and Davis.)
- Davis, Harold M., Cambridge, Mass. Window-cleaning device. 1,627,318; May 3.
- Davis, Harold G., assignor to The Davis and Son Manufacturing Company, Denver, Colo. Display device for oils. 1,646,570; Oct. 25.
- Davis, Harry A. (See Burnham, E. C., and Davis.)
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Shuttle check for looms. 1,615,189; Jan. 18.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Lay assembly for looms. 1,616,890; Feb. 8.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Tension device for yarn-winding machines. 1,618,699; Feb. 22.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Stop mechanism for looms. 1,620,194; Mar. 8.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Loom frog. 1,620,954; Mar. 15.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Let-off mechanism for looms. 1,626,573; Apr. 26.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Drag roll and clearing plate for looms. 1,631,088; May 31.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Automatically-threading shuttle for looms. 1,631,089; May 31.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Automatically-threading shuttle for looms. 1,631,090; May 31.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Bobbin guide for filling-replenishing looms. 1,636,901; July 26.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Lay-actuating mechanism for looms. 1,642,769; Sept. 20.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Shuttle-feeler thread parter and clamp. 1,649,053; Oct. 26.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Loom shuttle. 1,651,191; Nov. 29.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Filling-replenishing-loom bobbin cleaner. 1,652,613; Dec. 13.
- Davis, Harry A., assignor to Draper Corporation, Hope-dale, Mass. Shuttle-feeler thread parter and clamp. 1,654,493; Dec. 27.
- Davis, Harry C., Brighton, Mass. Vacuum-tube socket. 1,651,257; Nov. 29.
- Davis, Harry G., St. Paul, Minn. Dandelion digger and puller. 1,619,856; Mar. 8.
- Davis, Harry W., East Liverpool, Ohio. Bench clamp. 1,650,331; Nov. 23.
- Davis, Henry O., Plymouth, Mass. Nailing plate for lasts. 1,631,581; June 7.
- Davis, Henry W., Rock Springs, Wyo. Switch for mine railroads. 1,651,192; Nov. 29.
- Davis, Herbert A. and C. F., Torrance, Calif. Cementing head. 1,629,022; May 7.
- Davis, Herbert A. and C. F., Torrance, Calif. Cement plug. 1,641,741; Sept. 6.
- Davis, Herbert S. (See Burns, J. G., and Davis.)
- Davis, Howard C., Elizabeth, N. J. Steam trap. 1,633,165; June 21.

Davis, Irving J., Syracuse, N. Y. License-plate holder. 1,630,558; May 31.

Davis, Isadore, Des Moines, Iowa, assignor to Interlocking Shingle Co., Des Moines, Iowa. Interlocking multiple shingle. 1,627,429; May 3.

Davis, Jacob. (See Granter, J., and Davis.)

Davis, Jake, Harlan, Ky. Bit holder. 1,613,693; Jan. 11.

Davis, James D., Los Angeles, Calif. Combination cane and sunshade. 1,618,065; Feb. 15.

Davis, James J. (See Crisbenry, Benjohn F., assignor.)

Davis, James M. (See Gowan, Lee L., assignor.)

Davis, James M., Newberry, S. C. Loom counter. 1,629,023; May 17.

Davis, Jasper N., Denver, Colo. Machine for the manufacture of storage-battery plates. 1,651,678; Dec. 6.

Davis, Jesse E., Cambridge, Iowa. Thermal controller for incubators. 1,616,307; Feb. 1.

Davis, John. (See Lorenz, E. H., and Davis.)

Davis, John, East Hartford, assignor to Hartford Empire Company, Hartford, Conn. Glassware-shaping machine. 1,642,722; Sept. 20.

Davis, John E., Brooklyn, N. Y. Transforming inaudible oscillations into audible oscillations. 1,644,992; Oct. 11.

Davis, John E., Cincinnati, Ohio. Flagpole. 1,645,645; Oct. 18.

Davis, John E., Cincinnati, Ohio. Protective housing for attachment to flagpoles. 1,645,691; Oct. 18.

Davis, John E., Cincinnati, Ohio. Flag protector. 1,646,015; Oct. 18.

Davis, John S., near Felton, Del. Cultivator attachment. 1,643,200; Sept. 20.

Davis, John W., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,617,326; Feb. 15.

Davis, Joseph B., Daytona Beach, Fla. Aerial delivery device. 1,648,759; Nov. 8.

Davis, Joseph L., Abingdon, Ill. Temperature regulator for incubators. 1,634,401; July 5.

Davis, Joseph L., Abingdon, Ill. Egg turner for incubators. 1,647,786; Nov. 1.

Davis, Joshua W., Sumter, S. C. Circuit closer. 1,628,579; May 19.

Davis, Kenneth, St. Benedict, Pa., assignor to Rembrandt Peale, New York, N. Y. Mining machine. 1,614,287; Jan. 11.

Davis, Kenneth, assignor, by mesne assignments, to R. Peale, St. Benedict, Pa., W. S. Davies, New York, N. Y., and W. S. Wallace, Philadelphia, Pa., trustees. Mining-machine carrier. 1,628,309; May 10.

Davis, Leslie W., and E. S. Bursley, Dexter, Me. Automatic speed control for motor cars. 1,638,836; Aug. 16.

Davis, Lewis, Worcester, and E. W. Bennett, Westboro assignors to Davis & Bennett, Inc., Worcester, Mass. Wax emulsion. 1,637,475; Aug. 2.

Davis, Lewis F. (See Schnepf, Louis W., assignor.)

Davis, Lewis F., Huntington Beach, Calif. Oil saver and antislplasher. 1,632,859; June 21.

Davis, Lewis F., Santa Ana, Calif. Deep-well pump-plunger attachment. 1,645,802; Oct. 18.

Davis, Lewis F., Los Angeles, Calif. Method of and apparatus for spirally winding wire in tubes. 1,645,803; Oct. 18.

Davis, Lewis F., and L. W. Schnepf, Huntington Beach, Calif. Water heater. 1,632,888; June 21.

Davis, Lewis H., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,638,246; Aug. 9.

Davis, Lewis W., Seattle, Wash. Driving mechanism for motor vehicles. 1,633,316; June 21.

Davis Lumber Co., The. (See Hall, Bernard E., assignor.)

Davis, Mansell A., et al. (See Savage, Basil H., assignor.)

Davis, Mansell A., Los Angeles, Calif. Folding table. 1,634,572; July 5.

Davis, Marvin B., Kansas City, Mo., assignor to G. Krell, Sapulpa, Okla. Draw works. 1,642,230; Sept. 13.

Davis, Marvin B., Kansas City, Mo., assignor to G. Krell, Sapulpa, Okla. Clamp. 1,647,688; Nov. 1.

Davis, Marvin B., Kansas City, Mo., assignor to G. Krell, Sapulpa, Okla. Pipe-elevating clamp. 1,649,451; Nov. 15.

Davis, Matthew J., Portland, Oreg. Log raft. 1,631,403; June 7.

Davis, Matthew J., Portland, Oreg. Log raft. 1,638,324; Aug. 9.

Davis, Merritt J., Wellsburg, W. Va. Bag-valve-forming mechanism. 1,623,170; Apr. 5.

Davis, Miriam L., assignor of nine-twentieths to J. H. Berry, Portland, Oreg. Sandal. 1,641,625; Sept. 6.

Davis, Monroe, Enid, Okla. Combined grain thrasher and cleaner. 1,653,153; Dec. 20.

Davis, Morris, Los Angeles, Calif. Branding device. 1,652,891; Dec. 15.

Davis, Moses J., Pueblo, Colo. Device for polishing buttons. 1,618,518; Feb. 22.

Davis, Norris K., San Francisco, Calif. Apparatus for treating fiber-bearing materials. 1,624,717; Apr. 12.

Davis, Olin E., Los Angeles, Calif. Silencer for valve-in-head motors. 1,613,346; Jan. 4.

Davis, Paul, Virginia City, assignor of one-third to J. W. Franks, one-eighth to J. S. and C. Horne, Coeburn, and one-half to S. Aston, Lebanon, Va. Steam turbine. 1,613,694; Jan. 11.

Davis, Paul H. (See Coates, S. D., Davis, and Jenks.)

Davis, Philip W., Cambridge, Mass. Refining lead. 1,640,486; Aug. 30.

Davis, Philip W., Cambridge, Mass. Refining lead. 1,640,487; Aug. 30.

Davis, Rae W., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power installation. 1,633,166; June 21.

Davis, Rae W., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power installation. 1,633,167; June 21.

Davis, Ralph C., Brocton, assignor of one-half to J. J. Moriarty, Boston, Mass. Card index. 1,637,856; Aug. 2.

Davis, Ralph J. (See Bartlett, F. A., and Davis.)

Davis, Ray W., Brownville, Pa. Runway. 1,652,614; Dec. 13.

Davis, Reginald M., London, England. Smoker's ash tray and like receptacle. 1,625,884; Apr. 26.

Davis, Rex E., assignor to Breco Corporation, Minneapolis, Minn. Electrically-actuated valve. 1,638,325; Aug. 9.

Davis, Richard C., New York, N. Y., and R. D. Conway, Bernardus, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manual telephone system. 1,615,935; Feb. 1.

Davis, Richard F. (See Chappell, M. L., Davis, and Moore.)

Davis, Richard T., Chicago, Ill. Grille for musical instrument. Des. 71,863; Jan. 18.

Davis, Richard T., Chicago, Ill. Base for a loud speaker. Des. 72,145; Mar. 8.

Davis, Robert, assignor to Elco Shoe Manufacturers, Inc., Brooklyn, N. Y. Shank stiffener. 1,642,362; Sept. 13.

Davis, Robert L. (See Little, D. G., and Davis.)

Davis, Robert L., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective system for hot-cathode devices. 1,649,391; Nov. 15.

Davis, Robert L., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Modulation system. 1,654,281; Dec. 27.

Davis, Robert R., assignor, by mesne assignments, to St. Louis Reaming Tool Co., St. Louis, Mo. Reaming or boring tool. 1,627,887; May 10.

Davis, Roberta M., administratrix. (See Davis, Glenn S.)

Davis, Roger C., Akron, Ohio. Fluid-pressure control for power transmissions. 1,633,981; June 23.

Davis, Roswell, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for treating shoes. 1,647,277; Nov. 1.

Davis, Roy P. M., Mount Union, Pa. Brick-making machine. 1,631,251; June 7.

Davis, Roy P. M., Mount Union, Pa. Inertia stripper. 1,639,840; Aug. 23.

Davis, Royall O. E., Chapel Hill, N. C., and L. B. Olmstead, Peru, Nehr. Recovering ammonia from gases containing same. 1,631,720; June 7.

Davis and Son Manufacturing Company, The. (See Davis, Harold G., assignor.)

Davis, Steve A., Detroit, Mich. Clamping mechanism for clamping openers. 1,629,482; May 24.

Davis, Steven G., Perrysville, Ind. Crossing. 1,629,778; May 24.

Davis, Taube, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 72,309; Mar. 29.

Davis, Taube, assignor to Franklin Simon & Co., Inc., New York, N. Y. Bathing suit. Des. 72,310; Mar. 29.

Davis, Taube, assignor to Franklin Simon & Co., Inc., New York, N. Y. Shoe. Des. 72,789; June 7.

Davis, Taube, assignor to Franklin Simon & Co., Inc., New York, N. Y. Shoe. Des. 72,790; June 7.

Davis, Taube, assignor to Franklin Simon & Co., Inc., New York, N. Y. Shoe. Des. 72,791; June 7.

Davis, Taube, assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 72,792; June 7.

Davis, Taube, assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 73,071; July 19.

Davis, Tenney L., Somerville, Mass. Colloiding agent for nitrocellulose. 1,654,114; Dec. 27.

Davis, Thomas E., Arlington, Mass. Liquid dispensing faucet. 1,641,534; Sept. 6.

Davis, Timon, Mauston, Wis. Rat-poison holder. 1,633,952; June 28.

Davis, Victor L. (See Olin, J. M., Davis, and Smith.)

Davis, Walter T., assignor to Wheeling Stamping Company, Wheeling, W. Va. Thread cutter for tube-working machines. 1,626,271; Apr. 26.

Davis, Walter T., and J. A. McGinnis, assignors to Wheeling Stamping Company, Wheeling, W. Va. Forming articles by extrusion. 1,646,854; Oct. 25.

Davis, Webster W., Canajoharie, N. Y. Hermetic closure for receptacles. 1,618,639; Feb. 22.

Davis, Willard A., Cranston, assignor to S. & B. Lederer Co., Providence, R. I. Connector for wrist-watch straps. 1,632,178; June 14.

Davis, William, Chicago, Ill. Decarbonizer. 1,622,705; Mar. 29.

Davis, William C., et al. (See Wilkinson, Stanley W., assignor.)

Davis, William H. H., San Francisco, Calif. Halprin. 1,621,924; Mar. 22.

- Davis, William H. H., and F. Colantino, assignors of one-half to said Davis and one-half to H. White, San Francisco, Calif. Hairpin. 1,637,766; Aug. 2.
- Davis, William L., Renton, assignor of one-half to F. A. and L. I. Wilson, Seattle, Wash. Buckle. 1,644,513; Oct. 4.
- Davis, William N., assignor to General Motors Corporation, Detroit, Mich. Latch-operating device. 1,616,609; Feb. 8.
- Davis, William R., Wallace, Idaho. Creel carrier. 1,635,928; July 12.
- Davis, William T., Comstock, Mich. Engine governor. 1,653,259; Dec. 20.
- Davis, Zeb W., Houston, Tex. Internal-combustion motor. 1,639,297; Feb. 15.
- Davison, Clarence M., assignor to Poole Engineering & Machine Company, Baltimore, Md. Pump. 1,634,023; June 28.
- Davison, David. (See Hosford, L. V., and Davison.)
- Davison, Gregory C., New London, Conn. Coin-operated gasoline pump. 1,619,657; Mar. 1.
- Davison, Vivian K. (See Carman, W. H., and Davison.)
- Day, George H., New York, N. Y. Sanding roller. 1,631,798; June 7.
- Day, Harry A., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Tension device for shuttles. 1,631,135; Dec. 27.
- Day, Ruber Company. (See Kaiche, P. A., Dowling, and Brides, assignors.)
- Davoran, Michael F., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Des. 72,990; July 5.
- Dawes, Willard C., Bozeman, Mont. Surgical instrument. 1,640,311; Aug. 23.
- Dawkins, George, Shavertown, Pa. Safety signal. 1,618,580; Feb. 22.
- Dawley, Clarence A., Plainfield, N. J. Pulsation compensated meter. 1,621,354; Mar. 15.
- Dawn, Richard W., Deer Lodge, Mont. Garment holder and protector. 1,618,066; Feb. 15.
- Dawn, Richard W., assignor to W. E. Castleton, Deer Lodge, Mont. Attachment for steam boards. 1,624,829; Apr. 12.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. 1,622,861; Mar. 29.
- Dawson, Carl B., Lakewood, assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Windshield construction. 1,629,439; May 17.
- Dawson, Cecil F., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Blank for conical vessels. 1,637,252; July 26.
- Dawson, Cecil F., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Method and apparatus for securing closure caps to paper receptacles. 1,641,742; Sept. 6.
- Dawson, Cecil F., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Apparatus for securing closure caps to paper receptacles. 1,641,743; Sept. 6.
- Dawson, Cecil F., East Orange, N. J., and E. G. Wesman, Boonton, N. J., assignors by mesne assignments, to Individual Drinking Cup Co. Inc., Easton, Pa. Dispensing cup carton. 1,633,983; June 28.
- Dawson, George H., Boston, Mass., and H. F. Frease, Canton, Ohio. Pressed structure. 1,613,788; Jan. 11.
- Dawson, George H., Boston, Mass., assignor, by mesne assignments, to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Card holder. 1,615,443; Jan. 25.
- Dawson, George H., Cambridge, Mass., assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y. Card-index tray. 1,640,397; Aug. 30.
- Dawson, Joseph W., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Retaining device. 1,652,272; Dec. 13.
- Dawson, Joseph W., and J. L. Herold, assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle cover. 1,633,073; June 21.
- Dawson, Oliver N., Rock Hill, S. C. Loom-beam lock. 1,628,709; May 17.
- Dawson, Paul A., Akron, Ohio. Goggles. 1,621,620; Mar. 22.
- Dawson, Robert K., Akron, N. Y. Furnace. 1,620,805; Mar. 15.
- Dawson, Sidney, assignor to E. J. Morse, Chicago, Ill. Lubricating system. 1,641,125; Aug. 30.
- Dawson, Sterling W., Chicago, Ill. Golf club. 1,618,640; Feb. 22.
- Dawson, William A., Kansas City, Mo. Valve mechanism. 1,621,712; Mar. 22.
- Day, Albert W. T., Paris, France. Telephonic and telegraphic repeater. 1,645,987; Oct. 18.
- Day, Charles, Glasgow, Scotland. Joint and jointing tool for tube wells. 1,652,562; Dec. 13.
- Day, Charles E. (See Grabler, Peter, assignor.)
- Day, Charles P., East Orange, N. J., assignor to Day-Elder, Inc. Oil burner. 1,618,067; Feb. 15.
- Day, Courtenay P., New York, N. Y. Carrier. 1,650,496; Nov. 22.
- Day, David L. (See Bacon, F. J., and Day.)
- Day, David T., deceased, Washington, D. C.; F. J. Goble, administrator. Insecticide and preparing the same. 1,647,214; Nov. 1.
- Day-Elder, Inc. (See Day, Charles P., assignor.)
- Day, Fred, Alcester, S. Dak. Carburetor. 1,631,923; June 7.
- Day, George H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle case. Des. 74,101; Dec. 20.
- Day, Harry I. (See Kirby, G. T., and Day.)
- Day, Harry S., Hawthorne, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,599; Oct. 11.
- Day, Harry S., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,600; Oct. 11.
- Day, Harry S., Hawthorne, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,966; Nov. 29.
- Day, Harry S., Hawthorne, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,967; Nov. 29.
- Day, Harry S., Hawthorne, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,968; Nov. 29.
- Day, Harry S., Hawthorne, assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 73,969; Nov. 29.
- Day, Harry S., Hawthorne, N. J., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 74,102; Dec. 20.
- Day, Harry S., Hawthorne, N. J., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 74,141; Dec. 27.
- Day, J. H., Company, The. (See Kirchhoff, William G., assignor.)
- Day, J. H., Company, The. (See Moores, Joel, assignor.)
- Day, J. H., Company, The. (See Schiff, Sigmund, assignor.)
- Day, Jacob, Duluth, Minn. Spirit level. 1,624,161; Apr. 12.
- Day, James B., Brooklyn, N. Y. Piston ring. 1,614,602; Jan. 18.
- Day, James C., Maplewood, N. J., assignor to The Whitehead & Hong Company, Newark, N. J. Badge. 1,636,333; Apr. 26.
- Day, James C., South Orange, assignor to The Whitehead & Hong Company, Newark, N. J. Button receptacle. 1,633,725; June 28.
- Day, L. B. (See Scott, Nelson H., assignor.)
- Day, Percy C., assignor to The Falk Corporation, Milwaukee, Wis. Power-transmission mechanism. 1,616,415; Feb. 1.
- Day, Percy C., assignor to The Falk Corporation, Milwaukee, Wis. Elevator drive. 1,637,476; Aug. 2.
- Day, Salisbury M., Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y. Universal A. C. relay. 1,624,478; Apr. 12.
- Day, Thurnham L., Indianapolis, Ind. Headlight glare shield. 1,623,831; Apr. 5.
- Day, Wallace H. (See Morgan, E. E., and Day.)
- Day, William H., East Haven, and C. R. Thomas, West Haven, Conn., assignors, by mesne assignments, to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Index or file. 1,628,124; May 10.
- Day, William M. (See Pryde, R. D., and Day.)
- Dayé, Alphonse, Colombes, France. Apparatus for nautical sports. 1,650,497; Nov. 22.
- Dayé, Jacques. (See Dayé, René and J.)
- Dayé, René and J., Paris, France. Rolling lift bridge. 1,613,504; Jan. 4.
- Dayé, Frederick E., Brooklyn, N. Y. Battery clamp and support. 1,651,753; Dec. 6.
- Daykin, Edward W., assignor, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Stripper for slitting machines. 1,650,193; Nov. 22.
- Daylight Motion Picture Co. (See Macbeth, Arthur L., assignor.)
- Dayton Engineering Laboratories Company, The. (See Bradford, Zerbe C., assignor.)
- Dayton Engineering Laboratories Company, The. (See Haas, Nelson K., assignor.)
- Dayton Engineering Laboratories Company, The. (See Hitzmann, J. H., Fitzsimmons, and Embshoff, assignors.)
- Dayton, Ernest L. (See Michaud, Elzeaz, assignor.)
- Dayton Irrigation Company, The. (See Keys, John H., assignor.)
- Dayton, James M., assignor to The Dayton Manufacturing Company, Torrington, Conn. Flow meter. 1,627,294; May 3.
- Dayton, William B., assignor to The Dayton Manufacturing Company, The. (See Runyan, William B., assignor.)
- Dayton Manufacturing Company, The. (See Dayton, James M., assignor.)
- Dayton, Max E., Hibbing, Minn. Windshield cleaner. 1,618,668; Feb. 15.
- Dayton, Paper Novelty Company, The. (See Neumann, Theodore L., assignor.)
- Dayton Pump & Manufacturing Company, The. (See Elckmeyer, Earl E., assignor.)
- Dayton Pump & Manufacturing Company, The. (See Huffnagle, Oliver C., assignor.)
- Dayton Scale Company. (See Bryce, James W., assignor.)
- Dayton Scale Company. (See Craig, Robert, assignor.)
- Dayton Scale Company. (See Gilbert, William N., assignor.)
- Dayton Scale Company. (See Hopkinson, Joseph, assignor.)
- Dayton Scale Company. (See Kepler, George W., assignor.)

- Dayton Scale Company. (See Strachan, Thomas H., assignor.)
- Dayton Scale Company. (See Wood, George R., assignor.)
- Day Steel Laundry Company, The. (See Walther, George, assignor.)
- Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)
- Dayton Steel Racquet Company, The. (See Norton, Harold W., assignor.)
- Dayton-Wright Company. (See Clark, Virgilus E., assignor.)
- Dayton-Wright Company. (See Geyer, Harvey D., assignor.)
- Dayton-Wright Company. (See Kettering, Charles F., assignor.)
- Deacon, Edward F., assignor to Gus V. Brecht Butchers' Supply Company, St. Louis, Mo. Refrigerator display case. 1,639,841; Aug. 25.
- Deacon, Robert E., Cleveland, Ohio. Safety key holder. 1,618,408; Feb. 22.
- Deady, Frederick W., assignor, by mesne assignments, to A. J. Gates, Cleveland, Ohio. Crane. 1,622,574; Mar. 29.
- Deagle, John M., Cataract, Ontario, Canada. Washing machine. 1,650,112; May 24.
- Deakin, Gerald, Antwerp, Belgium, assignor to Western Electric Company, Incorporated New York, N. Y. Selector switch. 1,612,966; Jan. 4.
- Deakin, Gerald, Antwerp, Belgium, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Party-line reversible ringing system. 1,651,017; Nov. 29.
- Deakin, Gerald, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,653,890; Dec. 27.
- Deal, Claude A. (See Amos, O., and Deal.)
- Deal, James H. (See Crumbach, H., and Deal.)
- Deal, Leonard C., Hampton, Iowa. Lacing device. 1,618,973; Jan. 13.
- De Alcocer, Eugenio N. and F. O., Mexico, Mexico. Spark plug. 1,633,435; June 21.
- De Alcocer, Francisco O. (See De Alcocer, Eugenio N. and F. O.)
- Deale, Robert C., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Electric switch. 1,640,755; Aug. 30.
- Dean, Albert E., Fall River, assignor to Draper Corporation, Hopedale, Mass. Shuttle-checking mechanism for looms. 1,620,195; Mar. 8.
- Dean, Albert E., and L. Grundy, Fall River, assignors to Draper Corporation, Hopedale, Mass. Lay-rock-shaft typewriter company, Hennepin County, Minn. Typewriter. 1,627,016; May 3.
- Dean Card Typewriter Company. (See Dean, Seward A., assignor.)
- Dean, Dolliver M., assignor of one-half to M. R. Deyo, for swaging machines. 1,619,971; Mar. 8.
- Dean, Edson A., Edgewood, R. I. Feeding mechanism gearing for looms. 1,617,286; Feb. 8.
- Dean, Elmer C., Frankfort, Ind. Universal flexible shaft. 1,636,925; July 12.
- Dean, George E. (See Seigle, P. G., and Dean.)
- Dean, George E., Scranton, Pa. Dredger. 1,643,201; Sept. 20.
- Dean, George J., Campbell, Tex. Cotton planter. 1,651,327; Nov. 29.
- Dean, Henry A., assignor to Towers & Sullivan Manufacturing Co., Rome, Ga. Heel sweep and making the same. 1,639,593; Aug. 16.
- Dean Hill Pump Company. (See Schleyer, Victor, assignor.)
- Dean, James H., Ludington, Mich., assignor to Northwestern Expanded Metal Company, Chicago, Ill. Manufacture of expanded metal. 1,635,662; July 12.
- Dean, James S., Sacramento, Calif. Convertible auditorium. 1,623,619; Apr. 5.
- Dean, John H., and R. G. and R. H. Mich. Tobacco stemming and booking machine. 1,619,461; Mar. 1.
- Dean, Mark, assignor of one-half to M. Farrell, Chicago, Ill. Valve and operating device therefor. 1,640,537; Aug. 30.
- Dean-Minnick Steel Wheel Company. (See Kemoe, E. W., and Price, assignors.)
- Dean, Seward A., Hastings, assignor to Dean Card Typewriter Co., Ill. Apparatus for molding articles from plastic substances. 1,618,864; Feb. 22.
- Dean, William E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Circuit-breaker device. 1,644,669; Oct. 11.
- De Araujo, Olavo, London, England. Vehicle wheel. 1,638,621; Aug. 9.
- Deauby, Company, The. (See Koehn, August W., assignor.)
- Dearborn, Morris L., San Diego, Calif. Camber-measuring means for vehicle wheels. 1,644,111; Oct. 4.
- Dearborn, Moses S., Oakland, Calif. Miter box. 1,640,312; Aug. 23.
- Dearborn, Moses S., Oakland, Calif. Grass-shears attachment. 1,647,085; Oct. 25.
- Deardorff, Ralph W. (See Affel, H. A., and Deardorff.)
- Deardorff, Ralph W. (See Carpe, Allen, and Deardorff.)
- Deardorff, Ralph W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier telegraph circuit. 1,614,546; Jan. 18.
- Deardorff, Ralph W., Kensington, Calif., assignor to American Telephone and Telegraph Company. Multiplex telegraphy with magnitude discrimination. 1,614,546; Jan. 18.
- Deardorff, Ralph W., Kensington, Calif., assignor to American Telephone and Telegraph Company. System of multifrequency circuits. 1,619,060; Mar. 1.
- De Armond, William C., and W. R. H. Watt, Philadelphia, Pa. Mixed-beverage-vending apparatus. 1,637,308; Aug. 2.
- De Armond, William C., and W. R. H. Watt, Philadelphia, Pa. Coin-controlled device. 1,638,682; Aug. 9.
- De Armond, William C., and W. R. H. Watt, Philadelphia, Pa. Water-carbonating apparatus. 1,645,320; Oct. 11.
- Dearsley, Irwin E., assignor to Walker Manufacturing Company, Racine, Wis. Lifting jack. 1,621,314; Mar. 15.
- Deatwood, Joseph, Sault Ste. Marie, Mich. Cabinet ironing board. 1,633,003; June 21.
- Deasy, William H., Richmond, Va. Metal-sheet fastener. 1,650,194; Nov. 22.
- De Back, William, San Leandro, assignor to Sprague-Sells Corporation, Hoopston, Ill. Exhaust box. 1,633,760; Aug. 9.
- De Bats, Jean H. L., East Orange, assignor to De Bats Metals Company, Bloomfield, N. J. Making alloys. 1,639,330; Aug. 16.
- De Bats Metals Company. (See De Bats, Jean H. L., assignor.)
- De Bellesize, Henri J. J. M. de R., Toulon, France. Wireless-telegraph station. 1,639,686; Aug. 23.
- De Benedetti, Francesco, Turin, Italy. Connecting member. 1,652,976; Dec. 13.
- De Boeise, Chas. R., Company. (See Baatz, Margaret C., assignor.)
- De Boer, Jan H. (See Van Arkel, A. E., and De Boer.)
- De Boer, Jan H., assignor to N. V. Philips' Gloeilampen-fabriek, Eindhoven, Netherlands. Converting hafnium and zirconium phosphates. 1,624,162; Apr. 12.
- De Boer, Jan H., Eindhoven, Netherlands, assignor to General Electric Company. Incandescent electric lamp. 1,648,677; Nov. 8.
- De Boer, Rudolph, Grand Rapids, Mich. Wall pocket or similar article. Des. 72,548; May 3.
- De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Wall pocket or similar article. Des. 72,892; June 21.
- De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Wall pocket or similar article. Des. 73,283; Aug. 23.
- De Borschevalier, Henri, Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France. Hot-air stove. 1,631,721; June 7.
- De Bonis, Michael, Abbotsford, British Columbia, Canada. Staple. 1,623,335; Apr. 5.
- Debor, Hermann, Munich, Germany. Shell-shaped body suitable for the allowance of high pressure stresses. 1,645,944; Oct. 18.
- De Bord, Bert A. (See Williamson, L. S., and De Bord.)
- De Botelho, Martin C., New York, N. Y. Vanity case. 1,636,211; June 21.
- De Both, Franciscus G. J., Nymegen, Netherlands. Preparing asphalt slabs and sheets. 1,643,059; Sept. 20.
- De Brey, Heinrich W. K., The Hague, Netherlands, Sound-damper. 1,631,924; June 7.
- Debrock, Adhemar A., Fairchance, Pa. Apparatus for drawing glass. 1,643,152; Sept. 20.
- Deby, André J. and J. A., Courbevoie, France. 1,644,638; Oct. 6.
- Deby, Jann A. (See Deby, André J. and J. A.)
- De Bus, Louis K., Cincinnati, Ohio. Measuring device. 1,648,956; Nov. 15.
- Debus, Sander, Hastings, Nebr. Box fastener. 1,621,630; Mar. 22.
- Deca-Disc Photograph Company. (See Bodwell, P. D., and Bellows, assignors.)
- Deal Products Company. (See De Ville, Walter, assignor.)
- Deed Products Company, The. (See Hughes, Robert S., assignor.)
- De Camp, Alfred J. (See De Camp, Louis C. and A. J.)
- De Camp, Louis C. and A. J., Molina, Colo. Measuring tape. 1,624,779; Apr. 12.
- De Camp, Ray E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,654,282; Dec. 27.
- De Camp, William H., Van Wert, Ohio. Pie-plate scoop. 1,621,355; Mar. 15.
- Decarie, Felix L., Montreal, Quebec, Canada. Boller. 1,651,446; Dec. 6.
- De Castro & Iznaaga, Sergio, Habana, Cuba. Combination-lock-operating key. 1,653,992; Dec. 27.
- Decatur Brick Mfg. Co. (See McCune, Herbert R., assignor.)
- Decatur Pump Company et al. (See Borneman, Herman A. P., assignor.)
- Decatur Rotary Display Company. (See Bell, C. L., and Kessler, assignors.)
- De Cause, Frank, New York, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Automobile-radiator or the like. Des. 72,821; June 14.
- De Cesare, Matteo, Newark, N. J., assignor, by mesne assignments, to Voices Incorporated. Sound-reproducing device. 1,642,767; Sept. 20.

- De Cesare, Matteo, Newark, N. J., assignor, by mesne assignments to Voices Incorporated. Voice-reproducing device. 1,642,768; Sept. 20.
- De Cesare, Matteo, assignor by mesne assignments, to Metal Novelty Corporation, Newark, N. J. Windmill. 1,643,058; Sept. 20.
- De Cew, Judson A., Mount Vernon, assignor to Process Engineers, Inc., New York, N. Y. Paper sizing. 1,621,399; Mar. 15.
- De Changy, Aimé, Epinay, France. Starting gear for fixed explosive motor engines and motor vehicles. 1,628,710; May 17.
- Deckel, Friedrich, Fabrik für Präzisionsmechanik und Maschinenbau. (See Brearen, Lorenz K., assignor.)
- Deckel, Friedrich, Präzisionsmechanik und Maschinenbau. (See Brearen, Lorenz K., assignor.)
- Decker, Alonzo G., Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Portable power-driven screw driver and wrench-clutch cup. 1,642,490; Sept. 13.
- Decker, Alonzo G., Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Rotary tool with key pocket. 1,647,396; Nov. 1.
- Decker, Alonzo G., Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Portable power-driven rotary tool with spindle latch and hand-operated chuck. 1,649,060; Nov. 15.
- Decker, Earl B., Cleveland, assignor to B. R. Deming, Cleveland Heights, Ohio. Ironing machine. 1,631,363; June 7.
- Decker, Earl B., Cleveland, assignor to B. R. Deming, Cleveland Heights, Ohio. Ironing machine. 1,631,364; June 7.
- Decker, Frank A., New York, assignor to L. G. Pacent, Winfield, N. Y. Boring tool. 1,622,094; Mar. 22.
- Decker, Frank L., Kimble, Pa. Building form. 1,639,594; Aug. 16.
- Decker, Frank W., Santa Barbara, Calif. Spring wheel. 1,622,905; Mar. 29.
- Decker, George E., Los Angeles, Calif. Flow meter. 1,641,744; Sept. 6.
- Decker, Harold E., Allentown, Pa., assignor of one-half to J. G. Fleck, Bala, Pa. Drain device. 1,646,994; Oct. 25.
- Decker, Hugh L., (See Adams, H. E., and Decker.)
- Decker, Hugh L., assignor to The W. G. Nagel Electric Company, Toledo, Ohio. Electrically-controlled indicating instrument. 1,653,947; Dec. 27.
- Decker, William W., Jr., Chicago, Ill. Culinary vessel. 1,625,847; Jan. 26.
- De Clairmont, Adolph, Los Angeles, Calif. Apparatus for generating radium water. 1,645,899; Oct. 18.
- De Clercq, George E. W., Montclair, N. J., assignor to Robert Gair Company, New York, N. Y. Caddle. 1,649,452; Nov. 15.
- De Clerque, Alvin W., (See Payne, H. D., De Clerque, and Stoberg.)
- De Corse, Charles F., (See Gocke, J. B., and De Corse.)
- De Corse, Charles F., (See Wilson, C. A., Gocke, and De Corse.)
- De Corse, Charles F., Los Angeles, Calif. Boiler-water-level control. 1,617,437; Feb. 15.
- De Corse, Charles F., Los Angeles, Calif. Automatic pump attachment. 1,648,799; Nov. 8.
- Decot, Theodore, Sauk City, Wis. Siren. 1,624,587; Apr. 12.
- Decoteau, William J., Claremont, N. H., assignor to Claremont Waste Manufacturing Company. Flock-cutting machine. 1,634,741; July 5.
- De Courseulles, Robert, assignor to Societe Schneider & Cie., and Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Fluid-tight arrangement for cannon mounted in fluid-tight turrets upon submarine vessels. 1,638,435; Aug. 9.
- De Craene, Felix, Pontivy, France. Push-button electric switch. 1,636,501; July 19.
- De Curtis, Frank, Medford, Mass. Permutation lock. 1,628,712; May 17.
- Deidman, Joseph M., (See Frakes, Frank F., assignor.)
- Deidman, Hanson H., Berkeley, Calif. Card-display receptacle for automobiles. 1,628,954; May 17.
- Deidolph, Eduard, Hedley, British Columbia, Canada. Fertilizer. 1,621,875; Mar. 22.
- De Doory, Ladislaus, New York, N. Y. Shirt board. Des. 72,355; Apr. 5.
- Deidouch, Joseph A., Oak Park, Ill. Expandible fastening. 1,619,508; Mar. 1.
- Deidouch, Joseph A., Oak Park, Ill. Expandible fastening. 1,619,569; Mar. 1.
- Dee, Donald, et al., (See Owenshire, Hattie R., assignor.)
- Dee, Simon, Chicago, Ill. Brake. 1,653,948; Dec. 27.
- Dee, Thomas L., Chicago, Ill., assignor to Sullivan Machinery Company. Core drill. 1,637,295; July 26.
- Dee, Thomas L., Chicago, Ill., assignor to Sullivan Machinery Company. Core drill. 1,637,296; July 26.
- Deenham, Henry V., assignor to J. H. Brunninga, trustee, St. Louis, Mo. Heater. 1,627,235; May 3.
- Deenham, James, Redondo Beach, Calif. Combined door holder and check device. 1,621,974; Mar. 22.
- Deer, Atlee C., Chattanooga, Tenn. Discharging device for rotary cylinders. 1,623,527; Apr. 5.
- Deer, John, Tractor Company. (See McCray, Harold E., assignor.)
- Deere & Company. (See Brown, Theophilus, assignor.)
- Deere & Company. (See Coultas, Wilbur J., assignor.)
- Deere & Company. (See Farrington, Frederick J., assignor.)
- Deere & Company. (See Holstein, John V., assignor.)
- Deere & Company. (See Livesay, Robert C., assignor.)
- Deere & Company. (See Neighbour, Leonard B., assignor.)
- Deere and Company. (See Paul, William L., assignor.)
- Deere & Company. (See Peterson, Julius, assignor.)
- Deere & Company. (See Silver, Walter H., assignor.)
- Deere & Company. (See Sklovsky, Max, assignor.)
- Deere & Company. (See Strandlund, Carl G., assignor.)
- Deere & Company. (See Strandlund, C. G., and Brown, assignor.)
- Deere & Company. (See Thomann, Frederick A., assignor.)
- Deere, John, Tractor Company. (See McCray, Harold E., assignor.)
- Deere, John, Tractor Company. (See Witry, Louis W., assignor.)
- Deery, Daniel H., assignor to The H. & H. Lamp Co., Bridgeport, Conn. Indicator for automobile lamps. 1,652,707; Dec. 13.
- Dees, Charles A., Pittsburgh, Pa. Washboard attachment. 1,650,696; Nov. 29.
- De Fazi, Fulvio, assignor of one-half to L. De Paola, Cleveland, Ohio. Sanitary noodle hand press. 1,653,154; Dec. 20.
- De Feen, Frank, (See Lenhardt, Lawrence, assignor.)
- De Festenburg, Arthur G., (See De Festenburg, Emile G. and A. G.)
- De Festenburg, Emile G. and A. G., New York, N. Y. Roller ball skate. 1,616,442; Feb. 8.
- Deffenbach, Chester S., Oroville, Calif. Tool. 1,651,258; Nov. 29.
- Defiance Sales Corporation. (See Oakley, Theophilus D., assignor.)
- De Filippis, Raymond, Brooklyn, N. Y. Toy vehicle. 1,627,150; May 3.
- De Florez, Luis, Pomfret, Conn., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Method and apparatus for the control of temperature. 1,650,887; Nov. 29.
- De Florez, Luis, Pomfret, Conn., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Temperature control. 1,650,888; Nov. 29.
- De Florez, Luis, Pomfret, Conn., assignor, by mesne assignments, to The Texas Company, New York, N. Y. System of regulation. 1,650,889; Nov. 29.
- De Ford, John W., Los Angeles, Calif. Attachment for steam pressing machine. 1,638,293; Aug. 9.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Phonofilm Corporation, Jersey City, N. J. Recording sound. 1,618,641; Feb. 22.
- De Forest, Lee, assignor to De Forest Phonofilm Corporation, New York, N. Y. Slot cleaner for motion-picture machines. 1,629,152; May 17.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Phonofilm Corporation, Jersey City, N. J. Electrical sound-reproducing apparatus. 1,641,664; Sept. 6.
- De Forest, Lee, assignor to De Forest Phonofilm Corporation, New York, N. Y. Telephone device. 1,642,363; Sept. 13.
- De Forest, Lee, assignor to De Forest Phonofilm Corporation, New York, N. Y. Talking-moving-picture equipment. 1,653,155; Dec. 20.
- De Forest, Lester C., Westfield, N. J., assignor to Hills Brothers Company, Inc. Date pitter. 1,622,309; Mar. 29.
- De Forest Phonofilm Corporation. (See De Forest, Lee, assignor.)
- De Forest Radio Company. (See Elenschneider, John B., assignor.)
- De Forest Radio Telephone & Telegraph Co. (See Dieges, Robert T., assignor.)
- De Forest Radio Telephone & Telegraph Company. (See Gowen, Robert F., assignor.)
- De Forest Radio Company. (See Taylor, Edward N., assignor.)
- De Forest Radio Telephone & Telegraph Co. (See Hunter, F. L., Jr., and Crowley, assignors.)
- De France, Murrell R., Bellevue, Pa., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Making brake shoes. 1,615,573; Jan. 25.
- De Francis, Emil, (See De Francis, Nicholas and E.)
- De Francis, Nicholas and E., New York, N. Y. Cheese cutter. 1,651,918; Dec. 6.
- De Frehn, Charles H., Johnstown, Pa. Chair. 1,650,697; Nov. 29.
- De Fries, Alfred, Cassel, Germany. Bolt-finishing machine. 1,615,361; Jan. 25.
- De Garkovenko, Windimir, Vallauris, and M. Fichler, Cannes, France. Cartridge-closing machine. 1,646,083; Oct. 18.
- Degen, Walter, Fresno, Calif. Oil burner. 1,639,167; Aug. 16.
- Degen, Gustave O., Brooklyn, assignor to Royal Typewriter Company, Inc. New York, N. Y. Additive attachment for typewriting machines. 1,624,318; Apr. 12.
- Degen, Gustave O., Brooklyn, assignor to Royal Typewriter Company, Inc. New York, N. Y. Additive attachment for typewriting machines. 1,624,319; Apr. 12.

- DeGENER, Gustave O., Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Adding attachment for typewriting machines. 1,633,242; June 21.
- De Graaf, Martin. (See Sealock, J. W., and De Graaf.)
- De Graaf, Antonius, Eindhoven, Netherlands, assignor to General Electric Company. Electric lamp. 1,644,712; Oct. 11.
- De Graf, Howard P., New York, N. Y. Radiospeaker. 1,638,391; Dec. 27.
- De Grahl, Gustav, Berlin-Zehlendorf-West, Germany. Feed valve for locomotives. 1,623,660; Apr. 5.
- De Grasse, Daniel J., New York, N. Y. Automatic window ventilator. 1,651,259; Nov. 29.
- De Grassi, Mario, Philadelphia, Pa. Ground excavator. 1,639,215; Aug. 16.
- De Groot, William, Ogden, Utah. Spring lock. 1,636,809; July 26.
- De Groote, Melvin, St. Louis, and W. C. Adams, University City, assignors to Wm. S. Barnickel & Company, Webster Groves, Mo. Breaking petroleum emulsions. 1,641,804. Sept. 6.
- De Guedalia, Mauricio M. A., Paris, France. Ornamenting glass and like transparent substances. 1,639,716; Aug. 23.
- Degueldre, Fernand, Brussels, and Léviene Demaret, née Degueldre, La Louvière, Belgium. Fastener. 1,629,779; May 24.
- Deguire, Adelaar. (See Thibedeau, J. F., Deguire, Turner, and McDermid.)
- De Dreu, Dan, Des Moines, Iowa. Shoe-string fastener. 1,629,684; May 24.
- De Haes, Jerome, Chicago, Ill. Film-shifting mechanism. 1,628,580; May 10.
- De Haven, Avery S. (See Fremon, J. A. and De Haven.)
- De Hertelendy, Andor, Washington, D. C. Ratchet wrench. 1,646,350; Oct. 18.
- Deiber, Otto, Boston, Mass. Apparatus for dyeing skeins. 1,621,238; Mar. 15.
- Dehne, Otto, Suhl, Germany. Combined handle bar and actuating device for the change-speed gears of motor cycles. 1,651,587; Dec. 6.
- Deibel, Cyril P., and W. G. Walitt, Lakewood, assignors to The Twin Dry Cell Battery Company, Cleveland. Dry cell battery unit and producing the same. 1,625,848; Apr. 26.
- Deibel, Cyril P., and W. G. Walitt, Lakewood, assignors to General Dry Batteries, Incorporated, Cleveland, Ohio. Dry cell and lining for same. 1,640,488; Aug. 30.
- Deibel, Cyril P., Lakewood, assignor to General Dry Batteries, Incorporated, Cleveland, Ohio. Lining for dry cells. 1,654,038; Dec. 27.
- Deibel, Frank. (See Emanuele, Charles, assignor.)
- Deichmiller, Alwin. (See Ware, C. A., and Deichmiller.)
- Deiders, Heinrich, Helmstedt, Germany. Rail butt connection with fishplate. 1,629,996; May 24.
- Deimel, Juliet E., New York, N. Y. Undergarment support. 1,653,550; Dec. 20.
- Deimer, William H. L., Cincinnati, Ohio. Door catch. 1,645,234; Oct. 11.
- Dein, George H., Babylon, N. Y. Cylinder for washing machines. 1,650,195; Nov. 22.
- Deissler, William, assignor to The Philadelphia Supplies Co., Inc., Philadelphia, Pa. Window ventilator. 1,615,444; Jan. 25.
- Deister, Emil. (See Deister, William F. and E.)
- Deister, Emil E., Fort Wayne, Ind. Screen. 1,628,455; May 10.
- Deister, Emil, Fort Wayne, Ind. Apparatus for concentrating materials such as coal. 1,644,112; Oct. 4.
- Deister, Emil, Fort Wayne, Ind. Concentrating table. 1,644,113; Oct. 4.
- Deister Machine Company. (See Deister, William F. and E., assignors.)
- Deister, William F. and E., assignors to Deister Machine Company, Fort Wayne, Ind. Concentrating table. 1,642,848; Sept. 20.
- Deister, William F. and E., assignors to Deister Machine Company, Fort Wayne, Ind. Concentrating table. 1,643,060; Sept. 20.
- Deitenbeck, Ernst, Berlin, Germany. Tire. 1,649,218; Nov. 8.
- Deitrick, Frank, assignor to Laurens Glass Works, Laurens, S. C. Bottle. 1,627,907; Jan. 25.
- Deitsch, Alan B., New York, N. Y. Traveling case. 1,614,108; Jan. 11.
- Deitsch, Alan B., assignor to Deitsch Brothers, New York, N. Y. Traveling case. 1,638,837; Aug. 16.
- Deitsch Brothers. (See Deitsch, Alan B., assignor.)
- Delemany, Edouard J. P. C., Bry-sur-Marne, France. Manufacturing condensation products from phenols and formaldehydes. 1,643,447; Sept. 27.
- De Jay Trading Corporation. (See De Journo, Ernest, assignor.)
- De Jong, Hendrik, and W. Koning, Eindhoven, Netherlands, assignors to General Electric Company. Hook forming and inserting machine. 1,620,523; Mar. 8.
- De Jong, Hendrik, Eindhoven, Netherlands, assignor to General Electric Company. Wire spool and carrier. 1,637,037; July 26.
- De Jong, Hendrik, assignor to Naamloze Vennootschap Philips' Gloeilampfabrieken, Eindhoven, Netherlands. Machine for securing plate-shaped electrodes to carriers. 1,639,687; Aug. 23.
- De Jong, Hendrik, Eindhoven, Netherlands, assignor to General Electric Company. Stem-making machine. 1,640,442; Aug. 30.
- De Jouette, Albert, Nanterre, France. Clutch device. 1,642,606; Sept. 13.
- De Journo, Ernest, New York, N. Y., assignor, by mesne assignments, to De Jay Trading Corporation. Die-molding apparatus for making articles of plastic material. 1,659,081; Aug. 16.
- De Products Co. (See Engstrom, Henry O., assignor.)
- De Kaiser, Isaac, Pittsburgh, Pa. Radio speaker stand. 1,633,370; Aug. 30.
- Delacommune, Charles E. E., Paris, France. Device for regulating the advance of a band with reference to a cinematographic apparatus controlling said band. 1,633,478; June 14.
- De La Concha, Thomas, New York, N. Y., assignor of one-half to P. A. Hughes, London, England. Composition of matter. 1,653,088; Dec. 20.
- Delage, Phileas. (See Roy, Joseph W., assignor.)
- Delahanty, Harland K. (See Brown, Stewart, assignor.)
- Delahanty, Harland K., et al. (See Wood, Joseph E., assignor.)
- De Laine, Verna, Wymore, Nebr. Locking device for spouts. 1,641,881; Sept. 6.
- Delalze, Paul C., New York, N. Y. Box or similar container. Des. 72,408; Apr. 12.
- Delalze, Paul C., New York, N. Y. Box or similar container. Des. 72,409; Apr. 12.
- Delalze, Paul C., New York, N. Y. Bottle or similar container. Des. 72,410; Apr. 12.
- Delalze, Paul C., New York, N. Y. Bottle or similar container. Des. 72,411; Apr. 12.
- Delalze, Paul C., New York, N. Y. Box or similar container. Des. 72,670; May 17.
- Delalze, Paul C., assignor to D'orsay Perfumeries Corporation, New York, N. Y. Bottle or similar container. Des. 71,782; Jan. 4.
- De La Lama, Raul, Mexico, Mexico. Highway lighting system and apparatus therefor. 1,635,611; July 12.
- De La Mare, Thomas, Tooele, assignor to P. F. McKendrick, Garfield, Utah. Contraction joint. 1,644,914; Oct. 11.
- De La Mare, Thomas, Tooele, assignor to P. F. McKendrick, Garfield, Utah. Forming and laying continuous concrete pipe. 1,648,982; Nov. 15.
- Delamater, George R., Harrisburg, Pa. Mineral separator. 1,634,898; July 5.
- De La Mater, Robert G., assignor to Reed Small Tool Works, Worcester, Mass. Micrometer gauge. 1,646,393; Oct. 25.
- De Lambert, Léonce, Lyon, France, assignor of one-half to P. Zucco, San Francisco, Calif. Producing a hydraulic aluminum binding material together with an iron alloy. 1,628,872; May 17.
- Delaney, John H., Los Angeles, Calif. Mold board for the formation of wall slabs. 1,648,874; Nov. 8.
- Delaney, William L. (See Ross, Joseph A., assignor.)
- Delange, Auguste, Rouen, France. Mud guard. 1,616,115; Feb. 1.
- Delano, William H., Saugus, Calif. Sanitary straw-vending machine. 1,637,767; Aug. 2.
- Delany, Charles M., assignor to Economy Tool Manufacturing Company, Green Bay, Wis. Tool holder. 1,652,196; Dec. 13.
- Delany, Edward L., Brooklyn, N. Y. Mixing valve. 1,624,479; Apr. 12.
- Delany, Edward L., Brooklyn, N. Y. Flush-valve float. 1,629,571; May 24.
- Delany, Edward L., assignor to Delany Realty Corporation, Brooklyn, N. Y. Float valve for flush tanks. 1,627,489; May 8.
- Delany, Edward L., assignor to Delany Realty Corporation, Brooklyn, N. Y. Flush-tank-operating lever. 1,653,799; Dec. 27.
- Delany, James H., South Orange, N. J. Chuck. 1,617,672; Feb. 15.
- Delany Realty Corporation. (See Delany, Edward L., assignor.)
- De Lape, David E., Boston, Mass. Retting tank. 1,621,058; Mar. 22.
- De Le Daux, E., Los Angeles, Calif. Apparatus for treating hydrocarbons and other materials. 1,652,563; Dec. 13.
- Delas, Albert, Paris, France, assignor to Delas Condenser Corporation, New York, N. Y. Condenser. 1,616,610; Feb. 8.
- Delas, Albert, Paris, France, assignor to "Delas Condenser Corporation," New York, N. Y. Refrigerating machine. 1,656,294; July 19.
- Delas Condenser Corporation. (See Delas, Albert, assignor.)
- De Lascki & Thropp Circular Woven Tire Company, The. (See Moreland, Lester A., assignor.)
- De Lascki & Thropp Circular Woven Tire Company, The. (See Nevius, James R., assignor.)
- De Lathauwer, Arthur, Flawinne, Belgium. Apparatus for braking railway vehicles. 1,646,900; Oct. 25.
- De La Torre, Calixto, Habana, Cuba. Apparatus for catching flies. 1,632,276; June 14.
- DeLaurier, Vetal, Jordan, assignor of one-fourth to B. B. Butts, Winner, S. Dak. Lister plow. 1,613,648; Jan. 11.

- De Luca, Francisco. Santiago de Chile, Chile. Wheel. 1,624,780; Apr. 12.
- De Lucia, John B., and W. A. Pellegrini, Clifton, N. J. Machine for forming and papering plastic material. 1,651,378; Dec. 6.
- De Lugo, Angelo, Englewood, N. J., and J. W. Robertson, Tuckahoe, N. Y. Reflector. Des. 73,251; Aug. 16.
- De Lutz, Edward R., assignor to Copeland Products, Inc., Flint, Mich. Compressor valve. 1,620,524; Mar. 8.
- De Luna, Arturo, Buffalo, N. Y. Sanitary bedpan. 1,632,646; June 14.
- De Luna, Arturo, Buffalo, N. Y. Sanitary toilet-seat cover. 1,635,072; July 5, 1927.
- De Luxe Clock and Manufacturing Company, The. (See Kohn, Rudolf V., assignor.)
- De Luxe Lamp Mfg. Co. (See Rekar, Jay J., assignor.)
- De Luxe Optical Co. Inc. (See Gaspari, John, assignor.)
- Delwiche, Jean, New York, N. Y. Gas-heated furnace. 1,650,498; Nov. 22.
- Demand, Joseph, New York, N. Y., assignor, by mesne assignments, to All Clear Windshields, Inc., Boston, Mass. Radio wipe. 1,623,808; Apr. 5.
- Demarchi, Mario Biela, Italy. Shield for use in the production of radiosopes or radiographs. 1,638,683; Aug. 9.
- De Mare, Douglas, assignor to Mohawk Corporation of Illinois, Chicago, Ill. Escutcheon plate for radio receiving sets. 1,727; Jan. 11.
- Demarest, Charles S., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Telephone system. 1,653,089; Dec. 20.
- Demarest, Charles S., Ridgewood, N. J., and M. L. Almquist, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Frequency-controlling system. 1,626,724; May 3.
- Demarest, Harry T., Waukegan, N. Y. Fruit scrubber and polisher. 1,631,925; June 7.
- Demarest, Thomas W., Pittsburgh, Pa., assignor to The Okadec Company, Chicago, Ill. Valve. 1,632,220; June 14.
- Demaret, Lieveine, née Degueudre. (See Degueudre, Ferdinand, assignor.)
- De Maras, Louis. (See Shields, P. W., and De Markus.)
- De Mars, Lee, Minneapolis, Minn. Cleaning and polishing compound. 1,652,931; Dec. 13.
- De Martin, C. (See Walder, John, assignor.)
- De Mattia, Barthold, Clifton, assignor to De Mattia Brothers, Inc., Garfield, N. J. Tire-building core. 1,631,855; June 7.
- De Mattia Brothers, Inc. (See De Mattia, Barthold, assignor.)
- De Mattia Brothers, Inc. (See De Mattia, Peter, assignor.)
- De Mattia, Peter, Passaic, assignor to De Mattia Brothers, Inc., Garfield, N. J. Tire-vulcanizing mold. 1,630,113; May 24.
- Dembitz, Isidor, New York, N. Y. Lamp shade. 1,618,978.
- Dement, Isaac S., assignor to Printing Indico Company, Dayton, Ohio. Registering device. 1,637,606; Aug. 2.
- Dement, Isaac S., East Orange, N. J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Computing machine. 1,641,126; Aug. 30.
- Demers, Arrestit, Sherbrooke, Quebec, Canada. Billiard cue, rod, and like article, rack hanger and locker. 1,638,004; June 21.
- Demers, Telephone C., Springfield, Vt. Warp-tension equalizer for looms. 1,641,024; Aug. 30.
- Demers, Telephone C., Lebanon, N. H. Warp-tension equalizer. 1,646,446; Oct. 25.
- De Meo, Vladimir, Waterbury, Conn. Line clamp. 1,628,235; May 10.
- De Mesquita, Julius B., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Box. 1,629,484; May 24.
- De Meyer, Emil, Brooklyn, N. Y. Cement-block pavement. 1,648,879; Sept. 27.
- De Mier, Ed, Fisher, Okla., assignor to W. A. Butchart, Joplin, Mo. Flotation machine. 1,648,351; Oct. 18.
- De Mier, John R., Los Angeles, Calif. Attachment for mail boxes. 1,628,034; May 10.
- Deming, Barton R. (See Decker, Earl B., assignor.)
- Deming, Charles E. (See Drabheim, M. E., and Deming.)
- Deming, Lucius F., Philadelphia, Pa. Camera-lens-focusing appliance. 1,640,694; Aug. 30.
- Deming, Rollin G., Manning, N. Dak. Educational device. 1,649,578; Nov. 15.
- De Minico, Frank, Woodcliff, N. J., assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Plate-chain-feeding mechanism. 1,649,021; Nov. 15.
- Demmel, Paul, Frankfurt-on-the-Main-Rodelheim, Germany. Device for milling polygonal holes. 1,631,582; June 7.
- Demmer, George, Herndon, Kans. Butcher's gmbrel. 1,624,320; Apr. 12.
- Demmerle, Walter F. (See Wickenden, L., and Demmerle.)
- Demming, William J., Lakewood, assignor to The American Multigraph Company, Cleveland, Ohio. Apparatus for removing printing strips from holders. 1,644,773; Oct. 11.
- Demnitz, Albert, Dresden, Germany. Pneumatic sole-laying machine. 1,625,527; Apr. 19.
- De Monte, Robert W., Jersey City, and T. E. Shea, Rutherford, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical wave filter. 1,654,071; Dec. 27.
- De Montmollin, Guillaume, and G. Bonhôte, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Stable diazo compound and making same. 1,629,906; May 24.
- De Montmorency, Beresford B., Detroit, Mich. Coffee retainer for urns. 1,628,394; May 10.
- De Moos, Charles, Fort Lee, N. J., assignor to Eastman Kodak Company, Rochester, N. Y. Process and apparatus for treating film. 1,623,528; Apr. 5.
- De Moos, Charles, Fort Lee, N. J., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film-developing machine. 1,631,476; June 7.
- De Mott, Richard H., Tenafly, N. J. Surgical device. 1,633,074; June 21.
- Dempewolf, Carl A., Henderson, Ky. Planter. 1,627,017; May 3.
- Dempier, George P., Pittsburgh, Pa. Fluid-control valve. 1,636,859; July 26.
- Dempsey, Irving L., Wilmington, Del. Game apparatus. 1,626,216; Feb. 13.
- Dempsey, James B., and L. E. Burton, Johnston City, Ill. Corn popper. 1,624,040; Apr. 12.
- Dempsey, Thomas, deceased, Proctor, Minn.; F. C. Mitchell, executor. Trailer coupler. 1,636,295; July 19.
- Dempsey, William L. (See Shickman, A. J., Thum, and Dempsey.)
- Demster, James B., Iowa City, Iowa. Condenser. 1,621,659; Mar. 22.
- Dempster Mill Manufacturing Co. (See Loeber, Herman M., assignor.)
- Dempster Mill Manufacturing Company. (See Thomas, William, assignor.)
- Demuth, Peter A., Colome, S. Dak. Brooder. 1,650,196; Nov. 22.
- Denao, James, Cambridge, Mass. Automatic machine for making cup pastry. 1,615,799; Jan. 25.
- Denaro, James, Cambridge, Mass. Edible container for ice cream. 1,637,556; Aug. 2.
- Denault, Albert H., Sault Ste. Marie, Ontario, Canada. Incubator. 1,639,025; Aug. 16.
- Den Besten, Gerrit, Holland, Mich. Safety hitch. 1,643,653; Sept. 27.
- Dendinger, Frank F., Norfolk, Neb. Traffic signal. 1,618,581; Feb. 22.
- De Neen, Albert W., assignor of one-half to C. L. Martin, St. Joseph, Mo. Refrigerator. 1,649,290; Nov. 15.
- Deneka, Stephen, Hubbard, Saskatchewan, Canada. Grain-car door. 1,649,815; Nov. 22.
- Denemarc, Jacob, Trenton, N. J. Pressing machine. 1,626,792; May 3.
- Denger, Arthur, Davenport, Iowa. Concrete form. 1,617,746; Feb. 15.
- Dengler, Benjamin F. (See Delsasso, L. P., Dengler, and Stauffacher.)
- Denham, Dan F., Laurel, Miss. Gang saw or other saw guide. 1,614,188; Jan. 11.
- Denham, Eugene L., Hampstead, London, England. Mounting vehicle wheels. 1,646,352; Oct. 18.
- Denis, Albert P., Springfield, Mass. Towrope. 1,640,183; Aug. 23.
- Denis, Charles A., et al. (See Dominguez, Manuel D., assignor.)
- Denison, Adam B. (See Woods, G. H., Denison, and Wiley.)
- Denison, Charles P., Mazeppa, Minn. Road grader. 1,641,580; Sept. 6.
- Denison, Frederick S., Minneapolis, Minn. Centrifugal fluid fuel burner. 1,627,690; May 10.
- Denison, Frederick S., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Thermoelectric switch. 1,620,806; Mar. 15.
- Denison, Frederick S., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Ignition-controlling means. 1,625,796; Apr. 26.
- Denison, Frederick S., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Centrifugal fluid-fuel burner. 1,631,404; June 7.
- Denison, George W. (See Denison, Leonard L. and G. W.)
- Denison, George W., Bay Village, Ohio. Mechanism for progressing cars in kilns. 1,646,901; Oct. 25.
- Denison, Howard P., et al. (See Ruoff, Leroy R., assignor.)
- Denison, Leonard L., Delaware, and G. W. Denison, Bay Village, Ohio; said G. W. Denison assignor to said Leonard L. Denison. Apparatus for producing brick. 1,618,582; Feb. 22.
- Deniston, Albert J., jr. (See Swangren, Edwin V., assignor.)
- Deniville, Otto E., Pleasantville, N. Y. Combination doll and toy nursing bottle. 1,618,845; Feb. 8.
- Denker, Charles T., assignor of one-fifth to O. M. MacLaren, Chicago, Ill. Apparatus for heating street pavements. 1,616,611; Feb. 8.
- Denger, William J. (See Chamberlain, Arthur E. C., assignor.)
- Denman, Earl W., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil cup for ceiling fans. 1,643,807; Sept. 27.
- Denman, Rene E. (See Nichols, Leonard O., assignor.)

- Denman, Rene E., Kansas City, Mo. Lingerie clasp. 1,619,242; Mar. 1.
- Denmead, John W., assignor of one-half to W. A. Johnson, Akron, Ohio. Pie-rolling machine. 1,628,828; May 17.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Machine for cutting fabric on the bias. 1,617,012; Feb. 8.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Fabric-cutting machine. 1,617,013; Feb. 8.
- Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Tire-making machine. 1,617,705; Feb. 15.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Apparatus for covering tire beads. 1,621,239; Mar. 15.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Bead-placing ring. 1,635,073; July 5.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Apparatus for use in the manufacture of pneumatic tires. 1,643,202; Sept. 20.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Tire-building machine. 1,647,104; Oct. 25.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Attachment for tire-making machines. 1,648,447; Nov. 8.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Method and apparatus for applying fabric to tire-building cores. 1,648,842; Nov. 8.
- Denne, Mark T., London, England. Evening and grading machine. 1,651,588; Dec. 6.
- Dennert, Edward C., assignor to F. Kuhn, Detroit, Mich. Safety attachment for bottles containing poison or the like. 1,648,165; Nov. 8.
- Denney, Milo, Tipton, Mich. Strainer and dirt collector. 1,632,699; June 14.
- Denney, William J., Malone, N. Y. Shade and curtain hanger. 1,643,061; Sept. 20.
- Denning, James M., assignor to The Conneaut Shovel Company, Conneaut, Ohio. Machine for making shovels. 1,615,326; Jan. 25.
- Denning, Joseph M., Denver, Colo. Fence machine. 1,625,244; Apr. 19.
- Dennis, Alfred A., Grand Rapids, Mich. Friction-drive mechanism. 1,629,452; May 17.
- Dennis, Alfred A., Grand Rapids, Mich. Treating veneers. 1,636,218; July 19.
- Dennis, Arthur C., Piedmont, Calif. Placer machine. 1,640,565; Aug. 30.
- Dennis, Calvin B., Glen Ridge, N. J. Fabric-testing machine. 1,632,591; June 14.
- Dennis, Ernest V., New York Mills, N. Y. Sanitary drinking fountain for poultry. 1,613,985; Jan. 11.
- Dennis, George, assignor of one-half to A. Messier, Blackstone, Mass. Knitting machine. 1,615,167; Jan. 18.
- Dennis, James H., Seattle, Wash. Horn button for steering posts. 1,627,769; May 10.
- Dennis, John E., London, Ontario, Canada. Sliding metal window. 1,636,593; July 19.
- Dennis, Kenneth W. (See Brown, Leeland F., assignor.)
- Dennis, Olive W., assignor to Baltimore & Ohio Railroad Company, Baltimore, Md. Plate. Des. 72,763; May 31.
- Dennis, Oliver C., Wilmette, Ill. Cigar lighter. 1,620,327; Mar. 8.
- Dennis, Raymond L., Los Angeles, Calif. Device for attaching cables to battery terminals. 1,650,064; Nov. 22.
- Dennis, Samuel K., assignor to International Harvester Company, Chicago, Ill. Implement hitch. 1,629,153; May 17.
- Dennis, Samuel K., assignor to International Harvester Company, Chicago, Ill. Elevating and depressing mechanism for cultivators. 1,643,153; Sept. 20.
- Dennis, Welcome C., Oakland, Calif. Ship governor. 1,624,178; Apr. 12.
- Dennis, William J., Attleboro, Mass. Vermifuge and insecticide. 1,621,240; Mar. 15.
- Dennis, William J., Ponemah, and J. S. Perry, assignors to Nashua Brass Company, Nashua, N. H. Closet hopper-seat hinge. 1,615,574; Jan. 25.
- Dennison, Frank G. (See Brown, G. A., and Dennison.)
- Dennison Manufacturing Company. (See Flood, C. A., and Gibbs, assignors.)
- Dennison, Robert L., New York, N. Y. Fluid-pressure regulator. 1,632,024; June 14.
- Denniston, Uriah R., Hammond, Ind. Hot-water heater. 1,650,612; Nov. 29.
- Denny, Frank E., assignor to Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y. Sprouting buds and plants. 1,628,035; May 10.
- Denny, Harold D. (See Lynn, John W., assignor.)
- De Nordiske Fabrikker, De-No-Fa A/S. (See Holmboe, Carl P., assignor.)
- De Noronha, Jacquin, Dusseldorf, Germany. Overshoe. 1,641,633; Sept. 6.
- Denser, Charles, New Brighton, Pa. Audible alarm. 1,638,374; June 21.
- Denslow, Ruth W., assignor of one-half to R. L. Cole, Houston, Tex. Sanitary caster. 1,641,127; Aug. 30.
- Densmore, William M., assignor of one-half to W. Monthe, Montevideo, Minn. Cam device. 1,620,445; Mar. 8.
- Dent Hardware Company, The. (See Schrader, Thomas O., assignor.)
- Dent, Ezekiah. (See Hawley, Thomas W.)
- Dent, Leonard M. E., and A. Mackenzie, London, and J. White, Sunningdale, England. Golf tee. 1,623,782; Apr. 5.
- Dentists' Supply Company, The. (See Off, Edward P., assignor.)
- Dentists' Supply Company, The. (See Sanders, Joseph A., assignor.)
- Dentler, Arnold E., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock absorbing mechanism. 1,620,634; Mar. 15.
- Denton, James T., Danbury, Conn. Wool-pulling device. 1,653,090; Dec. 20.
- Dentzel, William H. (See Strickler, William H., assignor.)
- Denver Ice & Cold-Storage Company. (See Kofford, Earl J., assignor.)
- Denver Rock Drill Manufacturing Company. (See Gustafson, Hjalmer C., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Katterhorn, August H., assignor.)
- Denver Rock Drill Mfg. Co., The. (See Naismith, William G., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Neil, Gustave M., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Nelson, Paul A., assignor.)
- Denver Rock Drill Mfg. Co., The. (See Skaer, Arthur H., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Skaer, A. H., and Clark, assignors.)
- Denver Rock Drill Manufacturing Company, The. (See Skaer, A. H., and Downing, assignors.)
- Denyess, Harry M., and W. A. Kull, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Steering gear. 1,627,839; May 10.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. 1,623,719; Apr. 5.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. 1,653,800; Dec. 27.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. 1,653,801; Dec. 27.
- De Orlow, Stephen, Detroit, Mich. Hood fastener. 1,647,509; Nov. 1.
- De Pamphils, Genaro, New York, N. Y. Wrist paste container and distributor. 1,632,890; June 21.
- De Panigua, Isabel. (See Neven, Hippolyte, assignor.)
- De Paoli, Bruno O. A., Palisade, N. J. Terrazzo flooring. 1,634,653; July 5.
- De Paolo, Joseph. (See Baker, Otis M. C., assignor.)
- De Passo, Bernard J., New York, N. Y. Plate or similar article. Des. 71,960; Feb. 8.
- De Passe, Bernard J., New York, N. Y. Badge or similar article. Des. 72,764; May 31.
- De Pavola, Louis. (See De Vazi, Fulvio, assignor.)
- Dependable Auto Parts Company. (See Marsden, George, assignor.)
- De Penning, John C., Portland, Ore. Forming strips. 1,614,720; Jan. 18.
- De Penning, John C., Portland, Ore. Sanding machine. 1,639,216; Aug. 16.
- De Penning, John C., assignor to Central Door and Lumber Company, Portland, Ore. Saw. 1,635,465; July 12.
- De Penning, John C., assignor to Central Door and Lumber Company, Portland, Ore. Wooden panel door. 1,635,466; July 12.
- De Penning, John C., assignor to Central Door and Lumber Company, Portland, Ore. Method of patching. 1,639,082; Aug. 16.
- De Penning, John C., assignor to Central Door and Lumber Company, Portland, Ore. Panel clamp. 1,639,083; Aug. 16.
- De Penning, John C., assignor to Central Door and Lumber Company, Portland, Ore. Making wooden doors. 1,645,892; Oct. 18.
- De Petris, Gianlo, Kewanee, Ill. Convertible automobile seat. 1,640,984; Aug. 30.
- De Pew, Herman E., Alameda, Calif. Antproof shelf bracket. 1,633,438; June 21.
- Depew, John, assignor to I. Lauter, New York, N. Y. Capacitatively-actuated loud speaker. 1,631,583; June 7.
- Deppe, William P. (See Parsons, C. E., and Stevenson, assignors.)
- Deppermann, Hermann, Nowawes, near Potsdam, Germany. Support and brake for bobbins of spinning machines. 1,630,610; May 31.
- De Fries, John W., McCoy, Ore. Oil filter. 1,628,955; May 17.
- Depto, Paul B., Montville, N. J. Riveting tool. 1,652,770; Dec. 13.
- Depue, Roy, Milford, Iowa. Barber's dispensing bottle. 1,637,557; Aug. 2.
- De Puy Manufacturing Company. (See Foulke, Roy D., assignor.)
- Dequer, John H., Los Angeles, Calif. Electromagnetic therapeutic-compress-heating appliance. 1,624,397; Apr. 12.

- De Ram, Georges H. F., Boulogne-sur-Seine, France. Universal joint for shafts. 1,625,410; Apr. 19.
- De Ram, Georges H. E., Boulogne-sur-Seine, France. Suspension of automobiles and other vehicles. 1,626,188; Apr. 26.
- De Ram, Georges H. E., Boulogne, France. Connecting rod for the suspension of vehicles. 1,647,438; Nov. 1.
- Derby, Charles M. (See Brant, A. P., and Derby.)
- Derby, Frank H., assignor to Erie Foundry Company, Erie, Pa. Power hammer. 1,620,525; Mar. 8.
- Derby, John H., New York, assignor of one-half to H. D. Spencer, White Plains, N. Y. Valve. 1,616,742; Feb. 8.
- Des, William V. (See Goebel, G., and Derby.)
- De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Rotary switch. 1,637,038; July 26.
- De Remer Blatchford Company. (See May, Maxwell F., assignor.)
- Derk, Joseph, assignor to The Derk Manufacturing Company, Philadelphia, Pa. Valance for window draperies. Des. 71,793; Jan. 4.
- Derk, Joseph, assignor to The Derk Manufacturing Company, Philadelphia, Pa. Valance for window draperies or similar article. Des. 71,959; Feb. 8.
- Derk, Joseph, assignor to The Derk Manufacturing Company, Philadelphia, Pa. Table scarf. Des. 72,250; Mar. 22.
- Derk, Joseph, assignor to The Derk Manufacturing Company, Philadelphia, Pa. Table scarf. Des. 72,549; May 3.
- Derk, Joseph, assignor to The Derk Manufacturing Company, Philadelphia, Pa. Pillow top. Des. 72,992; July 5.
- Derk, Joseph, assignor to The Derk Manufacturing Company, Philadelphia, Pa. Table scarf. Des. 72,993; July 5.
- Derk, Joseph, Philadelphia, Pa., assignor to The Derk Manufacturing Company, Doylestown, Pa. Table cover. Des. 73,644; Oct. 18.
- Derk, Joseph, Philadelphia, assignor to The Derk Manufacturing Company, Doylestown, Pa. Pillow cover or similar article. Des. 73,740; Nov. 1.
- Derk, Joseph, Philadelphia, assignor to The Derk Manufacturing Company, Doylestown, Pa. Table scarf. Des. 73,778; Nov. 8.
- Derk, Joseph, Philadelphia, assignor to The Derk Manufacturing Company, Doylestown, Pa. Table scarf. Des. 73,779; Nov. 8.
- Derk, Joseph, Philadelphia, assignor to The Derk Manufacturing Company, Doylestown, Pa. Table scarf. Des. 73,780; Nov. 8.
- Derk, Joseph, Philadelphia, assignor to The Derk Manufacturing Company, Doylestown, Pa. Pillow cover or similar article. Des. 73,970; Nov. 29.
- Derk Manufacturing Company, The. (See Derk, Joseph, assignor.)
- Derleth, Charles P., Chicago, Ill., assignor, by mesne assignments, to The Celite Company. Disposal of sewage. 1,617,014; Feb. 8.
- Desha, Joseph W., Sanford, Me. Power-transmitting mechanism. 1,639,260; Aug. 16.
- De Roehn, Clarence L., Waterville, Me. Indicator for automobile radiators. 1,622,095; Mar. 22.
- De Roo, William C., assignor to The Dreeses Machine Tool Company, Cincinnati, Ohio. Friction clutch. 1,623,286; Apr. 5.
- De Roo, William C., and J. E. Larsh, assignors to The Dreeses Machine Tool Co., Cincinnati, Ohio. Variable-speed mechanism. 1,647,087; Oct. 25.
- De Roode, Trimble, New York, N. Y. Car. 1,635,467; July 12.
- De Roos, Milton J., New York, N. Y. Electrical cooking apparatus. 1,628,310; May 10.
- De Rosa, Ronald M., San Francisco, Calif. Hand lift for harrows. 1,626,793; May 3.
- De Rosa, Steve, Brooklyn, N. Y. Window-cleaning device. 1,633,479; June 21.
- De Roysancour, Otto G. J. S., Delft, Netherlands. Twisting device. 1,618,519; Feb. 22.
- Derr, Ralph B., Flushing, assignor to General Chemical Company, New York, N. Y. Fungicide. 1,638,089; Aug. 9.
- Derrick, John P., Carmine, Tex. Plowing device. 1,624,041; Apr. 12.
- Derry, Mary E., Los Angeles, Calif. Toothpick dispenser. 1,648,448; Nov. 8.
- Derry Damask Mills. (See Gunter, William K., assignor.)
- Derry, Jasper, Medford, assignor to Andrew-Terkelsen, Boston, Mass. Wrapping machine. 1,613,986; Jan. 11.
- Derry, Jasper, Medford, assignor to A. Terkelsen, Boston, Mass. Tension mechanism. 1,630,376; May 31.
- Derry, Jasper, Medford, assignor to A. Terkelsen, Boston, Mass. Tire-wrapping machine. 1,630,834; May 31.
- Derry, Jasper, Medford, assignor to A. Terkelsen, Boston, Mass. Toggle press. 1,633,317; June 21.
- Derry, Jasper, Medford, assignor to A. Terkelsen, Boston, Mass. Driving and controlling mechanism. 1,650,197; Nov. 22.
- Derry, Jasper, Medford, assignor to A. Terkelsen, Boston, Mass. Strip-edge folder. 1,650,198; Nov. 22.
- Derry, Jasper, Medford, assignor to A. Terkelsen, Boston, Mass. Work supporting and rotating means for wrapping machines. 1,650,199; Nov. 22.
- Derujinsky, Gleb W., assignor to Sterling Bronze Company, New York, N. Y. Emblem for automobile hoods and radiators. Des. 73,161; Aug. 2.
- Derus, John, East St. Louis, Ill. Awning-roller center support. 1,619,530; Feb. 1.
- De Salamanca, Marquis Madrid, Spain, assignor to Societe Electromecanique d'Appareillage pour l'Essence, Bois-Colombes, France. Unleakable and unflammable gasoline tank. 1,616,116; Feb. 1.
- Des Allimes, Carlos, Jerez de la Frontera, Spain. Sporting cartridge. 1,624,649; Apr. 12.
- Desautels, Charles A. H., Westbury, assignor to American Smelting and Refining Company, New York, N. Y. Recovering zinc oxide. 1,647,279; Nov. 1.
- De Saussure, William P., jr., Englewood, N. J. Index rack. 1,643,547; Sept. 27.
- De Saussure, William P., jr., Englewood, N. J. Index rack. 1,650,890; Nov. 29.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Pocket-building table. 1,615,445; Jan. 25.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead mold. 1,619,102; Mar. 1.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Fabric-feeding device for bead-wire-covering machines. 1,624,544; Apr. 12.
- Desbarats, Charles H. H., Montreal, Quebec, Canada. Advertising medium. 1,622,223; Mar. 22.
- D'Escayrac, Bernard, assignor to Suerlain Perfumery Corporation of New York, New York, N. Y. Compact case. Des. 72,700; May 24.
- Desmaulles, Louis, Le Havre, France. Sporting shoe. 1,634,611; June 1.
- Deschenes, Adelard G., Lisbon, Me., assignor of one-half to E. A. Brunelle, Somersworth, N. H. Machine for frying peanuts and the like. 1,625,797; Apr. 26.
- Desha, Orville U., assignor of one-fifth to The Desha Typex Trust Estate, Fort Collins, Colo. Key action and key mechanism. 1,643,203; Sept. 20.
- Desha Typex Trust Estate, The. (See Desha, Orville U., assignor.)
- Design Laboratories, Incorporated. (See Wilson, Edwin B., assignor.)
- Design Laboratories, Incorporated. (See Wilson, E. B., and Spencer, assignors.)
- Des Jardins, Clarence B. (See Trout, W. M., and Des Jardins.)
- Deslauriers, Albert J., St. Paul, Minn. Milk-can cover. 1,653,261; Dec. 20.
- Desmond, James D., South Norwalk, Conn. Hat. 1,626,272; Apr. 26.
- Desmond, Joseph E., Swissvale, assignor of one-half to C. M. Clarke, Pittsburgh. Automobile parking device. 1,614,233; Jan. 11.
- Desnoyers, Joseph A. (See McCleave, Arthur S., assignor.)
- Desoutter, Charles, London, England. Beading and the like. 1,632,247; June 14.
- Despard, Victor R., assignor to McGill Manufacturing Company, Valparaiso, Ind. Insulated mounting for electrical contacts. 1,633,005; June 21.
- De Sperati, Mariano, Turin, Italy, assignor to Argento-graphical (U. S. A.), Limited, London, England. Photographic printing plate and producing the same. 1,625,714; Apr. 19.
- D'Espuljols, Robert L., La Varenne St. Hilaire, France. Roller. 1,647,960; Nov. 1.
- Des Rosiers, John A., Toronto, Ontario, Canada. Signal. 1,640,266; Aug. 23.
- Des Rosiers, John B., assignor to Des Rosiers Patents Company, Inc., Providence, R. I. Transmission tool. 1,614,426; Jan. 11.
- Des Rosiers Patents Company. (See Des Rosiers, John B., assignor.)
- Dessem, Elwood C. (See Schroyer, C. T., and Dessem.)
- De Stefani, Tully, assignor to Liquid Carbonic Company, Chicago, Ill. Cooler cabinet for soda fountains. 1,651,782; Dec. 6.
- De Stefani, Tully, assignor to Liquid Carbonic Company, Chicago, Ill. Cooler cabinet for soda fountains. 1,651,783; Dec. 6.
- Dester, William F., Newark, assignor to U. S. Tool Co., Inc., East Orange, N. J. Safety lighter for gas stoves. 1,618,979; Mar. 24.
- De Stubner, Emil, New York, N. Y. Filter. 1,620,083; Mar. 8.
- De Suarez, Laura M. (See Marino, Francesco, assignor.)
- De Suarez, Laura M., Brooklyn, N. Y. Shoe for rheumatism. 1,616,254; Feb. 1.
- Dethier, Joseph. (See Linon, I., and Dethier.)
- Detmer, Ralph G., assignor to The American Frog & Switch Company, Hamilton, Ohio. Switch-point protector. 1,629,817; May 24.
- Detmers, Fred E., Los Angeles, Calif. Electric audible signal. 1,622,862; Mar. 29.
- Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Sem Mathias O., assignor.)
- Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Westly, Jens, assignor.)
- Det Norske Aktieselskab for Elektrokemisk Industrie. (See Söderberg, Carl W., assignor.)

- De Trairun, Martin K., London, England, and H. Jüster-
nitz, Vienna, Austria. Process and apparatus for im-
proving the efficiency of internal-combustion engines.
1,614,234; Jan. 11.
- Detrick, M. H., Company. (See Hosbein, L. H., and
Foltz, assignors.)
- Detrick, M. H., Company. (See Stevens, N. D., and
Hosbein, assignors.)
- Detroit Bolt Lacer Co. (See Knott, Frank W., assignor.)
- Detroit Core Manufacturing Company. (See Emery,
Earle A., assignor.)
- Detroit Dental Manufacturing Company. (See Kerr,
Robert M., assignor.)
- Detroit Gear and Machine Company. (See Blood, How-
ard E., assignor.)
- Detroit Hoist and Machine Company. (See Watson,
Archibald S., assignor.)
- Detroit Insulated Wire Company. (See Hunter, Joseph
H., assignor.)
- Detroit Lubricator Company. (See Duffield, George B.,
assignor.)
- Detroit Lubricator Company. (See Lanning, John G., as-
signor.)
- Detroit Specialty Products Corporation. (See Ross,
Rufus R., assignor.)
- Detroit Steel Products Company. (See Barclay, G. Ivar,
assignor.)
- Detroit Steel Products Company. (See Barclay, Gustaf I.,
assignor.)
- Detroit Steel Products Company. (See Franzen, Tore, as-
signor.)
- Detroit Stoker Company. (See Beers, Royce L., assignor.)
- Detroit Stoker Company. (See Trotter, Walter F., as-
signor.)
- Detroit Trailer Company. (See Hartwick, Ernest F., as-
signor.)
- Detroit Vapor Stove Company, The. (See Sherman, Alvin
G., assignor.)
- Detroyes, Theodore, Villeneuve-sur-Yonne, France. Se-
curing leather disks to the ends of billiard cues.
1,630,417; May 31.
- Deutsches Forstgasktiesskab. (See Goldschmidt, Ru-
dolf, assignor.)
- Dettner, George W., San Francisco, Calif. Rule miter and
cut-off. 1,613,087; Jan. 4.
- Detwiler, Forest V., Philadelphia, Pa. Broiler. 1,614,661;
Jan. 18.
- Deviler, Forest V., Pottstown, Pa. Fireless cooker.
1,652,300; Dec. 13.
- Deubel, Karl, Newark, N. J. Beautifying set for ladies'
hand bags. 1,652,771; Dec. 13.
- Deubener, Walter H. (See Sandin, David A., assignor.)
- Deucher, Eugene G., Cleveland, assignor to The Universal
Frame Company, Cuyahoga, Ohio. Propelling mechanism
for cranes. 1,630,377; Mar. 31.
- Deuschle, Carl, Cincinnati, Ohio. Display rack.
1,634,456; July 5.
- Deutsch, David. (See Dunnagan, Albert L., assignor.)
- Deutsch, Hans. (See Friedmann, L. and Deutsch.)
- Deutsch, Hans. (See Herrmann, W. O., and Deutsch.)
- Deutsch, Hans. (See Herrmann, W. O., Deutsch, and
Haehnel.)
- Deutsch, Leo, and F. A. Pfeifer, Springfield, Ohio; said
Pfeifer assignor to said Deutsch. Apparatus for clean-
ing containers and the like. 1,635,115; July 5.
- Deutsch, Walther, Frankfurt-on-the-Main, Germany, as-
signor to International Precipitation Company, Los
Angeles, Calif. Insulator for high-tension electric cur-
rent. 1,654,212; Dec. 27.
- Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b.
H. (See Lichtenstein, Edmund, assignor.)
- Deutsche Post- und Eisenbahn-Verkehrswesen Aktienges-
ellschaft (Dapag-Efubag). (See Ramdor, Leopold, as-
signor.)
- Deutsche Werke Aktiengesellschaft. (See Altwickler,
Carl, assignor.)
- Deutsche Wollewaren Manufaktur Aktiengesellschaft.
(See Rossmann, Rudolf, assignor.)
- Deutschmann, Walter, assignor to Siemens & Halske
Aktiengesellschaft, Siemensstadt, near Berlin, Ger-
many. Artificial line. 1,647,985; Nov. 8.
- Deutz, Annette. (See Shamberg, Herbert L., assignor.)
- Devary, Sturgis, Estherville, Iowa. Fuel-supply means
for internal-combustion engines. 1,613,789; Jan. 11.
- Devaud, Albert J., Schenectady, N. Y.; assignor to General
Electric Company. Turbine nozzle diaphragm.
1,641,665; Sept. 6.
- Develay, Marie N. A., Paris, France. Tire for vehicle
wheels. 1,619,812; Mar. 8.
- Devens, H. F., et al. (See Carpenter, Charles U., as-
signor.)
- Deverlin, Charles N., Buffalo, assignor to The Rudolph
Wurlitzer Manufacturing Company, North Tonawanda,
N. Y. Combination stop mechanism for organs.
1,621,973; Mar. 22.
- Deverlin, Charles N., Buffalo, assignor to Rudolph Wurlitzer
Manufacturing Company, North Tonawanda,
N. Y. Contact block for electric organs and the like.
1,623,095; Mar. 22.
- Devereaux, William C., Detroit, Mich. Door latch.
1,621,497; Mar. 22.
- Devereaux, William C., Detroit, Mich. Door latch.
1,629,614; May 24.
- Devereaux, William C., Detroit, Mich. Door latch.
1,639,400; Aug. 16.
- Devereaux, William C., Detroit, Mich. Rotary bolt and
striker plate for automobile door latches. 1,639,401;
Aug. 16.
- Devereau, William C., Detroit, Mich. Door-lock construc-
tion. 1,643,764; Sept. 27.
- Devereaux, William C., Detroit, Mich. Door latch.
1,644,240; Oct. 4.
- Devereaux, William C., Detroit, Mich. Lock construc-
tion. 1,652,660; Dec. 13.
- Devers, Philip K. (See Berry, E. R., and Devers.)
- Devers, Philip K., Lynn, Mass., assignor to General Elec-
tric Company. Electrical discharge device. 1,640,443;
Aug. 30.
- Deviatkoff, Arcady, San Francisco, Calif. Telephone re-
lay. 1,640,267; Aug. 23.
- Devices Corporation of New Jersey. (See Boettcher,
Jacob H. L., assignor.)
- Devigny, Michel, Paris, France. Manufacture of cut
matrices adapted for the production of photographic
surfaces comprising refracting elements. 1,626,134;
Apr. 26.
- De Vilbiss, John M., Modesto, Calif. Wrench. 1,652,977;
Dec. 13.
- De Vilbiss Manufacturing Company, The. (See Bailey,
Frank A., assignor.)
- De Vilbiss Manufacturing Company, The. (See Gradolph,
W. F., and Mueller, assignors.)
- De Ville, Walter, assignor to The Decal Products Com-
pany, East Liverpool, Ohio. Plate or similar article.
Des. 73,072; July 19.
- De Ville, Walter, assignor to East Liverpool Potteries
Company, East Liverpool, Ohio. Plate or similar ar-
ticle. Des. 73,162; Aug. 2.
- Devine, Edward P., Indianapolis, Ind., assignor, by mesne
assignments, to Continental Optical Corporation, New
York, N. Y. Lens-grinding machine. 1,624,655; Apr. 12.
- Devine, Joseph P., Buffalo, N. Y. Vacuum pump and com-
pressor for milking machines. 1,643,296; Sept. 27.
- Devine, William P., assignor to H. K. Hallikman, Boston,
Mass. Manufacturing compressed spectacle-frame
blanks. 1,649,516; Nov. 15.
- De Vinney, Floyd W., assignor to The Foote Company,
Inc., Nunda, N. Y. Distributing bucket for concrete
paving. 1,614,980; Jan. 18.
- De Vivo, Aniello, Bayonne, N. J. Razor hone. 1,617,015;
Feb. 8.
- De Vleeschouwer, Camille, Amsterdam, Netherlands.
Automatic door-latching device. 1,646,688; Oct. 25.
- Devlin, Bertha T., administratrix. (See Devlin, John P.)
- Devlin, John P., deceased, Albany; B. T. Devlin, adminis-
tratrix, assignor of one-half to A. Polakoff, Albany,
N. Y. Bathing cap. 1,648,603; Nov. 8.
- D'Evlyn, Elizabeth, assignor of one-half to E. J. Brown,
Chicago, Ill. Baking pan. 1,621,315; Mar. 15.
- De Voe, Albert H., Westfield, N. J., assignor, by mesne
assignments, to The Cleveland Trust Company, Cleve-
land, Ohio. Round fabric belting and its manufacture.
1,624,932; Apr. 19.
- De Voe, Albert H., Westfield, assignor to The Singer
Manufacturing Company, Elizabeth, N. J. Hemmer.
1,631,956; June 14.
- De Vooght, Gustave, Herenthals, Belgium. Machine for
the manufacture of footwear. 1,638,186; Aug. 9.
- De Vore, Ernest E., Mount Wilson, Calif. Wind motor.
1,645,855; Oct. 18.
- Devoto, George J., et al. (See Gloss, Alois A., assignor.)
- De Vries, Andrew, South Bend, Ind., assignor to Westing-
house Electric & Manufacturing Company. Spreader
arm for transmission wires. Des. 73,496; Sept. 20.
- De Vries, Benjamin S., Portland, Oreg. Display apparat-
us. 1,653,304; Dec. 20.
- Devrigan, Stephen. (See Yessain, Alexander, assignor.)
- De Vry Corporation, The. (See De Vry, Herman A., as-
signor.)
- De Vry, Herman A., Chicago, Ill. Film spool. 1,620,605;
Mar. 8.
- De Vry, Herman A., assignor to The De Vry Corporation,
Chicago, Ill. Film spool. Re16,762; Oct. 4.
- De Waard, Adrianus C., The Hague, Netherlands. Stamp-
ing or printing device. 1,652,709; Dec. 13.
- De Wald, Daniel, Rawlins, Wyo. Retractable vehicle
runner. 1,627,151; May 8.
- Dewald, Edward A., Massillon, Ohio. Jar closure.
1,613,383; Jan. 4.
- Deward, Edward A., Massillon, Ohio, assignor to The
Griscorn Russell Company, New York, N. Y. Vehicle
dumping mechanism. 1,630,257; May 31.
- Deward, Edward A., Massillon, Ohio, assignor to The
Griscorn Russell Company, New York, N. Y. Double
pivot support for dump bodies. 1,653,038; Dec. 20.
- De Wallace, Harry, Syracuse, assignor to W. M. Weeks
and A. Pease, Skaneateles, N. Y. Bottle closure.
1,625,594; Apr. 19.
- De Wallace Harry, Syracuse, assignor to R. L. Carter,
Phoenix, N. Y. Mortising machine. 1,642,723;
Sept. 20.
- De Wallace, Harry, Syracuse, N. Y. Flush-valve-operat-
ing mechanism. 1,647,088; Oct. 25.
- De Wandre, Albert, assignor to Societe Anonyme Servo-
Froin Dewandre, Liege, Belgium. Motor brake.
Re16,723; Aug. 30.
- Dewandre, Albert, assignor to Societe Anonyme Servo-
Froin Dewandre, Liege, Belgium. Power brake.
Re16,724; Aug. 30.

- De Waters, Enos A., Flint, assignor to General Motors Corporation, Detroit, Mich. Transmission lock for motor vehicles. 1,619,972; Mar. 3.
- Dewend, William D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Disk harrow. 1,619,857; Mar. 8.
- Dewes, Arthur B., St. Louis, Mo. Bowling game. 1,644,466; Oct. 4.
- Dewey and Almy Chemical Company. (See Dewey, Bradley, assignor.)
- Dewey & Almy Chemical Company. (See Dewey, B., and Miller, assignors.)
- Dewey, Bradley, assignor to Dewey and Almy Chemical Company, Cambridge, Mass. Colloidal adhesive composition. 1,627,278; May 3.
- Dewey, Bradley, Cambridge, Mass., and T. T. Miller, Orange, N. J., assignors to Dewey & Almy Chemical Company, Cambridge, Mass. Apparatus for applying lining material to covers. 1,623,529; Apr. 5.
- Dewey, Clarence L., Elkhart, Ind. Folding table. 1,618,327; Feb. 22.
- Dewey, Clarence L., Elkhart, Ind. String instrument. 1,633,574; June 28.
- Dewey, Clarence L., Elkhart, Ind. Rod and reel. 1,640,350; Aug. 30.
- Dewey, Clarence L., Michigan City, Ind., assignor to Cement-Gun Company, Inc., Allentown, Pa. Holding clip for concrete reinforcement. 1,629,485; May 24.
- Dewey, Elvira M., Junction City, Kans. Combination garment. 1,648,580; Nov. 8.
- Dewey, Fred G., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Manufacture of armatures. 1,622,185; Mar. 22.
- Dewey, Frederick L., Canton, Ill., assignor to International Harvester Company. Rolling colter. 1,636,810; July 26.
- Dewey, Haywood G. (See Jones, J. G., and Dewey.)
- Dewey, John, Perry, N. Y. Antiskidding device. 1,624,861; Dec. 12.
- Dewey, Ritchie P., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Milling cutter. 1,614,288; Jan. 11.
- Dewhurst, Frank, assignor to Baker Perkins Limited, Peterborough, England. Apparatus for the drying and pressing or shaping of garments and the like. 1,653,761; Dec. 27.
- Dewhurst, John. (See Baker, W. H., and Dewhurst.)
- Dewire, John A., assignor to The Kingsley-Miller Company, Chicago, Ill. Self-locking gear-shaft-lever ball. 1,614,603; Jan. 18.
- De Witt, Charles E., Dallas, Tex., assignor to V. H. Barwood Manufacturing Co., Lynn, Mass. Burnishing and rearing tool for bearings. 1,627,152; May 3.
- De Witt, William J., Auburn, N. Y. Hollow shoe form. 1,632,953; June 21.
- De Witt, William J., Auburn, N. Y. Shoe form. 1,632,955; June 21.
- De Witt, William J., Auburn, N. Y. Heel for footwear and attaching the same. 1,649,291; Nov. 15.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Shoe form. 1,632,954; June 21.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Preparing footwear. 1,633,075; June 21.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Expandible shoe form. 1,646,016; Oct. 18.
- Dewoitine, Emile, Toulouse, France. Construction of aeroplane wings. 1,636,902; July 26.
- Dexdale Hosier Mills. (See Schulz, Albert E., assignor.)
- Dexter, C. H., & Sons, Incorporated. (See Osborne, Fay H., assignor.)
- Dexter, Edward R., Goshen, N. Y. Tire flap. 1,646,191; Oct. 18.
- Dexter, Edward R., Goshen, N. Y. Making compound fabrics. 1,650,266; Nov. 22.
- Dexter Folder Company. (See Christophel, Carl E., assignor.)
- Dexter Folder Company. (See Kast, Edward R., assignor.)
- Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine. 1,628,125; May 10.
- Dexter, Wallace J. (See Macbeth, C., and Dexter.)
- De Ybarrodo, Vincent C., Los Angeles, Calif. Apparatus for handling motion-picture films. 1,629,097; May 17.
- De Ybarrodo, Vincent C., Los Angeles, Calif. Pneumatic puller for motion-picture films. 1,629,154; May 17.
- De Ybarrodo, Vincent C., Los Angeles, Calif. Motion-picture-film-developing machine. 1,653,451; Dec. 20.
- Dey, Gilbert S. (See Clement, H., and Dey.)
- Dey, Gilbert S., Mount Vernon, N. Y., assignor to General Optical Company, Inc. Optical test chart. 1,625,076; Apr. 19.
- Deve, Edwin G., Newport, Ky., and H. F. Haverbusch, Cincinnati, Ohio. Device for use with routing mills. 1,627,153; May 3.
- Deyo, Mark R. (See Dean, Dolliver M., assignor.)
- De Young, Palmer L., Greer, S. C. Grave monument. 1,643,154; Sept. 20.
- Dezendorf, Richard L., Richmond Hill, N. Y. Meter and indicating means therefor. 1,645,321; Oct. 11.
- De Zeng, Henry L., Moorestown, assignor to De Zeng Standard Company, Camden, N. J. Diagnostic instrument. 1,618,970; Mar. 1.
- De Zeng, Henry L., Moorestown, assignor to De Zeng Standard Company, Camden, N. J. Diagnostic instrument. 1,618,971; Mar. 1.
- De Zeng, Henry L., Geneva, N. Y., assignor to American Optical Company, Southbridge, Mass. Diagnostic instrument. 1,621,461; Mar. 15.
- De Zeng, Henry L., Geneva, N. Y., assignor to De Zeng Standard Company, Camden, N. J. Diagnostic instrument. 1,635,822; July 12.
- De Zeng, Henry L., Moorestown, assignor to De Zeng Standard Company, Camden, N. J. Otoloscope. 1,636,463; July 19.
- De Zeng, Henry L., Geneva, N. Y., assignor to De Zeng Standard Company, Camden, N. J. Diagnostic instrument. 1,638,988; Aug. 16.
- De Zeng Standard Company. (See De Zeng, Henry L., assignor.)
- De Zonia, Robert E., Denver, Colo. Meat block and table cleaner. 1,650,698; Nov. 29.
- De Zubiria, José R., Bilbao, Spain. Electric induction furnace. 1,647,787; Nov. 1.
- Dezurik, Mathias, Sartell, Minn. Nozzle for paper-making machines. 1,617,673; Feb. 15.
- De Zure, John, and R. E. assignors, one-third to G. W. Walker, Columbus, Ohio. Checkrow planter. 1,635,359; July 12.
- Dhume, Roy. (See Dhume, Ross and R.)
- D'Humy, Fernand E., Englewood, N. J. Storage building. Re16,738; Sept. 20.
- D'Humy, Fernand E., Englewood, N. J. Airship. 1,641,323; Sept. 6.
- D'Humy, Fernand E., Englewood, N. J. Airship. 1,641,324; Sept. 6.
- D'Humy, Fernand E., Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y. Storage building. 1,626,602; May 3.
- Diago, Federico G., Habana, Cuba. Airplane launching and landing apparatus. 1,625,020; Apr. 19.
- Diago, Federico G., Habana, Cuba. Ticket seller. 1,644,639; Oct. 4.
- Diago, Federico G., Habana, Cuba. Voting machine. 1,654,457; Dec. 27.
- Dial, James M., Athens, Ga. Liquid-fuel burner. 1,650,065; Nov. 22.
- Diamond and Chalmers Manufacturing Company. (See Kottowski, Clarence P., assignor.)
- Diamond, Charles L. A., Newburgh, N. Y. Amusement device. 1,633,397; June 21.
- Diamond Electric Specialties Corp. (See Ramsay, Karl H. W., assignor.)
- Diamond Expansion Bolt Company. (See Hubener, Wilfrid, assignor.)
- Diamond Expansion Bolt Company. (See Penney, Harold D., assignor.)
- Diamond Expansion Bolt Company. (See Pleister, Henry W., assignor.)
- Diamond, Henry, Brooklyn, N. Y. Hat-block clamp. 1,639,331; Aug. 16.
- Diamond, James K., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Fastener-setting machine. 1,623,783; Apr. 5.
- Diamond, Louis, New York, N. Y. Combination bed and chloroform. 1,618,642; Feb. 22.
- Diamond Match Company, The. (See Donnelly, Joseph C., assignor.)
- Diamond Match Company, The. (See Linebaugh, Edward R., assignor.)
- Diamond Match Company, The. (See Paridon, Michael, assignor.)
- Diamond Match Company, The. (See Ross, B. C., and Zomnir, assignors.)
- Diamond Match Company, The. (See Snyder, Eugene, assignor.)
- Diamond Match Company, The. (See Wright, Charles E., assignor.)
- Diamond Match Company, The. (See Zomnir, Joseph E., assignor.)
- Diamond, Phillip. (See Rigby, Albert, assignor.)
- Diamond Power Specialty Corporation. (See Bowers, Frank, assignor.)
- Diamond Power Specialty Corporation. (See Herman, Samuel J., assignor.)
- Diamond Power Specialty Corporation. (See Rawson, Grant I., assignor.)
- Diamond Power Specialty Corporation. (See Snow, Norman L., assignor.)
- Diamond Power Specialty Corporation. (See Thomas, Willis F., assignor.)
- Diamond Power Specialty Corporation. (See Varian, Howard M., assignor.)
- Diamond State Fibre Company. (See McIntosh, James, assignor.)
- Diamond State Fibre Company. (See McIntosh, J., and Wolford, assignors.)
- Diamond State Fibre Company. (See Taylor, John M., assignor.)
- Diaz, Ernesto, New York, and I. Englander, Brooklyn, assignors to Oxzyon Company, New York, N. Y. Powder puff and making the same. 1,654,161; Dec. 27.
- Diaz, Vicente F., Lowell, Ariz. Device for making waffles. 1,642,062; Sept. 13.
- Dible, Albert C., Southwich, Mass. Leaf-lifting device for raising cultivators. 1,622,497; Mar. 21.
- Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Stove construction. 1,619,243; Mar. 1.

- Dihle, Frank W., et al. (See Snyder, James R., assignor.)
 Dimer, Abraham B., Brooklyn, N. Y. Electrical T connector. 1,642,492; Sept. 13.
 Dimer, Bernard, Brooklyn, N. Y. Electrical T connector. 1,642,491; Sept. 13.
 Dice, Andrew F., assignor of one-third to G. Dice and one-third to M. Dice, Joliet, Ill. Fishing device. 1,625,988; Apr. 26.
 Dice, George, et al. (See Dice, Andrew F., assignor.)
 Dice, Minnie, et al. (See Dice, Andrew F., assignor.)
 Dicely, Lee W., Richmond, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Can pairing and incasing machine. 1,623,393; Apr. 5.
 Dick, A. B., Company. (See Campion, Paul, assignor.)
 Dick, A. B., Company. (See Davis, Alex B., assignor.)
 Dick, A. B., Company. (See Green, Charles F., assignor.)
 Dick, Arthur, and J. A. Dirschauer, Evansville, Ind. Agricultural machine. 1,635,612; July 12.
 Dick, Charles F., executor. (See Dick, Joseph.)
 Dick, Charles O., assignor of one-half to C. Saar, Glenwood, Iowa. Nail-driving attachment for pneumatic hammers. 1,618,387; Feb. 22.
 Dick, Frank J., Canton, Ohio. Figure toy. 1,617,899; Feb. 15.
 Dick, Hermann, Roseburg, Germany. Two-stroke-cycle motor. 1,612,968; Jan. 4.
 Dick, James. (See Hanton, P. S., and Dick.)
 Dick, Joseph, deceased, by C. F. Dick executor, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Fodder cutter. 1,625,194; Apr. 19.
 Dick, Joseph, Manufacturing Company, The. (See Dick, Joseph, assignor.)
 Dick, M. Everett. (See Buss, W. R., and Dick.)
 Dick, Oscar H., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,615,203; Jan. 18.
 Dicke, Oscar H., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,654,116; Dec. 27.
 Dickens, Charles, Oakland, Calif. Pigment and making the same. 1,615,816; Jan. 25.
 Dickens, James R., E. O. Harris, and T. A. Warner, Thomasville, N. C. Air heater. 1,638,187; Aug. 9.
 Dickens, William R., Copperhill, Tenn. Lead plating of metals. 1,614,662; Jan. 18.
 Dickerman, John A., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Mushrooming bullet. 1,633,168; June 21.
 Dickerson, Arthur, Salt Lake City, Utah. Valve-regulating device. 1,616,078; Feb. 1.
 Dickerson, Arthur, Salt Lake City, Utah, assignor to Dickerson Carburetor Company. Carburetor. 1,645,945; Oct. 18.
 Dickerson Carburetor Company, The. (See Dickerson, Arthur, assignor.)
 Dickerson, Charles L., Clinton, Ill. Storage battery. 1,652,097; Dec. 6.
 Dickerson, Walter H., East Orange, N. J., assignor to Industrial Waste Products Corporation, Dover, Del. Product obtained from molasses and preparing same. 1,631,252; June 7.
 Dickerson, Walter H., East Orange, N. J., assignor to Industrial Waste Products Corporation, Dover, Del. Spray-drying apparatus. 1,648,937; Nov. 15.
 Dickerson, Walter H., East Orange, N. J., assignor to Industrial Waste Products Corporation, Dover, Del. Preparing pyrophosphates. 1,654,283; Dec. 27.
 Dickey, Alexander, Honeyville, Utah. End wrench. 1,641,252; Sept. 6.
 Dickey, Cephus H., Kansas City, Kans. Dust-preventing device for rear platform of vehicles. 1,621,356; Mar. 15.
 Dickey, Ernest. (See Keitholtz, L. S., and Dickey.)
 Dickey, George I., Toledo, Ohio. Tent. 1,636,594; July 19.
 Dickey, Samuel J., Los Angeles, Calif., assignor to General Petroleum Corporation of California. Process of and apparatus for treating one liquid by another. 1,625,195; Apr. 19.
 Dickey, Samuel J., Los Angeles, Calif., assignor to General Petroleum Corporation of California. Method of and apparatus for treating one fluid by another. 1,652,399; Dec. 13.
 Dickey, Samuel J., and R. C. Wheeler, Los Angeles, Calif., assignors to General Petroleum Corporation of California. Purifying petroleum products. 1,639,988; Aug. 23.
 Dickhaut, Charles A., Saugerties, N. Y. Sheet straightener. 1,634,984; July 5.
 Dickie, James, Berwick, assignor of two-thirds to W. I. Huntley and P. Borden, Nova Scotia, Canada. Wrench. 1,646,140; Oct. 18.
 Dickie, William A. (See Small, F. T., and Dickie.)
 Dickie, William A., and J. H. Rooney, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of ornamental or effect materials. 1,641,962; Sept. 13.
 Dickinson, Edward F., Jr., Brooklyn, N. Y. Piston ring. 1,618,520; Feb. 22.
 Dickinson, Albert, Company, The. (See Stump, Daniel M., assignor.)
 Dickinson, Albert G. (See Simpson, Ward T., assignor.)
 Dickinson, Bernard L., El Campo, Tex. Camera and tripod fastener. 1,647,986; Nov. 8.
 Dickinson, Frederick S., et al. (See Dieterich, Ludwig M., assignor.)
 Dickinson, Harry E., San Antonio, Tex. Internal-combustion engine. 1,620,446; Mar. 8.
 Dickinson, Harry S. (See Yancey, S. H., and Dickinson.)
 Dickinson, Harry S., Moline, Ill., assignor, by mesne assignments, to Berry Shocker Incorporated, Wilmington, Del. Grain shocker. 1,614,778; Jan. 18.
 Dickinson, Harry S., Moline, Ill., assignor, by mesne assignments, to Berry Shocker Incorporated, Wilmington, Del. Grain shocker. 1,627,888; May 10.
 Dickinson, Harry S., Moline, Ill., assignor to The Dunham Company, Berea, Ohio. Double-roller pulverizer. 1,650,891; Nov. 29.
 Dickinson, Herbert. (See Lamont, John W. F., and Dickinson, John A., East Angus, Quebec, Canada. Pulp screen. 1,639,797; Aug. 28.
 Dickinson, Merian H., Seattle, Wash., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Hoisting and conveying device. 1,624,545; Apr. 12.
 Dickinson, Paul, Incorporated. (See Filkins, Arthur J., assignor.)
 Dickinson, Raymond A., Appleton, N. Y. Machine for wrapping fruit and other articles. 1,635,055; July 5.
 Dickinson, Robert E., Jr., Memphis, Tenn. Golf-club shaft. 1,631,926; June 7.
 Dickinson, Stella B., assignor to Ginzkey-Maffersdorf, Inc., Belleville, N. J. Eng. Des. 73,645; Oct. 18.
 Dickinson, Tom, assignor to Entwistle & Kenyon Limited, Accrington, England. Carpet sweeper. 1,645,739; Oct. 18.
 Dickinson, Walter H., assignor to United Steel Block Corporation, Chester, Pa. Logging block. 1,635,781; July 12.
 Dickinson, William W., Jr., Little Rock, Ark. Brick-kiln construction. 1,627,598; May 10.
 Dickman, John T., and T. L. Wheeler, Los Angeles, Calif. Automatic paper feeder. 1,648,115; Nov. 8.
 Dickow, Karl, Gorlitz, Germany. Watering apparatus for cars. 1,640,649; Aug. 30.
 Dickson, Charles F., London, assignor, by mesne assignments, to C. Gold, Ravens, Stansted, England. Advertising device. 1,646,689; Oct. 25.
 Dickson, Ensign E., assignor to Johnson & Johnson, New Brunswick, N. J. Emergency dressing. 1,643,926; Sept. 27.
 Dickson, Frank H., assignor to Henry & Allen, Auburn, N. Y. Knife head and manufacture of the same. 1,618,920; Feb. 22.
 Dickson, George F., et al. (See Guenther, Bernard B., assignor.)
 Dickson, George H., Chicago, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler baffle. 1,619,463; Mar. 1.
 Dickson, James T., Los Angeles, Calif. Centrifugal clutch. 1,618,643; Feb. 22.
 Dickson, James T., Los Angeles, Calif. Centrifugal clutch. 1,618,644; Feb. 22.
 Dickson, James T., Los Angeles, Calif. Control for sand reels, hoists, and the like. 1,652,661; Dec. 13.
 Dickson, James T., Los Angeles, Calif. Reverse gear. 1,653,262; Dec. 20.
 Dickson, Robert L., Long Beach, Calif. Automobile signal. 1,622,996; Mar. 22.
 Dickson, Walter W., Milwaukee, Wis. Sound director. 1,647,439; Nov. 1.
 Di Cristina, Nunzio R., Palermo, Italy. Apparatus to render possible the inhalation of medicinal powders. 1,643,983; Oct. 4.
 Dictaphone Corporation. (See Bodine, Alfred V., assignor.)
 Dictaphone Corporation. (See Carpenter, David E., assignor.)
 Dictaphone Corporation. (See Goldsborough, Washington L., assignor.)
 Dictaphone Corporation. (See Hinckley, Frank C., assignor.)
 Dictaphone Corporation. (See Johnson, Arthur A., assignor.)
 Dictaphone Corporation. (See Lucarelle, Joseph M., assignor.)
 Dictaphone Corporation. (See Lucarelle, J. M., and Frykman, assignors.)
 Dictaphone Corporation. (See Renholdt, John E., assignor.)
 Dictaphone Corporation. (See Roberts, Theodore C., assignor.)
 Dictaphone Corporation. (See Woodbridge, Charles K., assignor.)
 Dictograph Products Corporation. (See Koch, Henry, assignor.)
 Dictograph Products Corporation. (See Koch, H., and Wohlers, assignors.)
 Dieck, Clarence C. (See McCarty, E. E., Dicus, and Langkop.)
 Didion, Jacob, Valley Park, Mo. Runner bar for plate-glass-grinding machines. 1,643,928; Sept. 27.
 Diebold, Charles J., Winnipeg, Manitoba, Canada. Whistling ball. 1,632,825; June 21.
 Diebold, Leo A., Stuart, Iowa. Display box. 1,646,902; Oct. 25.
 Die Cast Art Bronze Corporation, The. (See Richardson, James D., assignor.)

- Dieckman, Edward H., Florissant, Mo. Tractor. 1,643,375; Sept. 27.
- Dieckmeyer, Leo M. (See Roop, C. E., Dieckmeyer, and Barutic.)
- Diedrich, Fred C., Tacoma, Wash. Closet valve. 1,638,436; Aug. 9.
- Dieges, Charles J., Brooklyn, assignor to Dieges & Clust, New York, N. Y. Ring. Des. 72,412; Apr. 12.
- Dieges & Clust, (See Dieges, Charles J., assignor.)
- Dieges, Robert T., New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Co., Jersey City, N. J. Engraving apparatus. 1,612,967; Jan. 4.
- Diehl, Adam, Springfield, Ohio. Overjacket for molds. 1,635,074; July 5.
- Diehl, Frederick, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electrical connector and terminal block. 1,635,312; July 12.
- Diehl, Harry L., Chicago, Ill. String-maker's peg. 1,639,026; Aug. 16.
- Diehl Manufacturing Company. (See Karle, John D., assignor.)
- Diehm, Ernst F., assignor to XXth Century Heating and Ventilation Company, Akron, Ohio. Auxiliary heater for furnaces. 1,636,173; July 19.
- Diel Watch Case Company. (See Dinstman, Isidor, assignor.)
- Diener, Geo. W., Mfg. Co. (See Waggoner, Albert E., assignor.)
- Diener, Hyman, Washington, D. C., assignor to United States Rubber Company, Akron, Ohio. Pad for pressing machines. 1,616,356; Feb. 19.
- Diener, Riley M., assignor, by mesne assignments to Chicago Telephone Supply Company, Elkhart, Ind. Jack box. 1,632,788; June 21.
- Diennen, John A. (See Ringwald, Clarence, assignor.)
- Diennen, John A., Chicago, and A. C. Mabee, Villa Park, Ill. Controller for fish aures. 1,627,078; May 3.
- Diescher, Samuel E., Pittsburgh, Pa. Swaging mill roll. 1,634,352; July 5.
- Diete, Gustave, Chicago, Ill. Doorlock. 1,613,023; Jan. 4.
- Dieter, William, Newark, N. J. Hydrostatic mine. 1,617,674; Feb. 15.
- Dieter, William, Newark, N. J. Automobile torpedo. 1,623,099; Apr. 5.
- Dieter, William, Newark, N. J. Automobile torpedo and contact mine. 1,626,794; May 3.
- Dieter, William, Newark, N. J. Automobile torpedo. 1,627,154; May 3.
- Dieter, William, Newark, N. J. Automobile torpedo. 1,627,155; May 3.
- Dieter, William, Newark, N. J. Automobile torpedo. 1,640,889; Aug. 30.
- Dietrich, Ludwig M., New Brunswick, N. J., assignor of sixteen per cent to R. S. Blair, Stamford, Conn., and twenty-four per cent to W. T. Kniesner, New York, N. Y. System of distribution of intelligence. 1,628,126; May 10.
- Dietrich, Ludwig M., New Brunswick, N. J., assignor of one-fourth to P. S. Dickinson and one-fourth to L. Vinton, New York, N. Y. Nut-locking device. 1,635,313; July 12.
- Dietrich, William, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 73,688; Oct. 25.
- Dietle, Thomas S., Pawhuska, Okla. Casing ripper. 1,618,368; Feb. 22.
- Dietle, Thomas S., Pawhuska, Okla. Well-drilling apparatus. 1,629,024; May 17.
- Dietly, Philip W., Erie, Pa. Paying roller and steering mechanism. 1,638,294; Aug. 9.
- Dietrich, Claus, St. Paul, Minn. Lock. 1,634,825; July 5.
- Dietrich, Frank and J., and W. Miner, Chicago, Ill. Direct mixer. 1,631,584; Jan. 7.
- Dietrich, Frederick, New York, N. Y., and W. H. Gerns, East Orange, assignors to Brandes Laboratories, Inc., Newark, N. J. Electromagnetic sound reproducer. 1,645,231; Oct. 11.
- Dietrich, Harry W. (See Martin, E. E., and Dietrich.)
- Dietrich, John. (See Dietrich, Frank and J., and Miner.)
- Dietrich, Paul, Apperson, Okla. Combined collar buster and casing spear. 1,628,833; May 10.
- Dietrich, William S., assignor to The Greenville Steel Car Company, Greenville, Pa. Sawing apparatus and method. Re. 67,747; Sept. 27.
- Dietrich, William S., assignor to Greenville Steel Car Company, Greenville, Pa. Sawing apparatus and method. 1,611,927; June 7.
- Dietrich, William S., assignor to The Greenville Steel Car Company, Greenville, Pa. Method and apparatus for cooling friction saws. 1,648,938; Nov. 15.
- Dietrichs, Charles, Little Ferry, N. J. Game board. 1,644,514; Oct. 4.
- Dietrichson, William F., Webster Groves, Mo., assignor to American Car and Foundry Company, New York, N. Y. Hatch-cover operating means for refrigerator cars. 1,621,500; June 7.
- Dietrick, Herman T., Philadelphia, Pa. Combined receptacle opener and fluid conductor. 1,619,708; Mar. 1.
- Dietz, Frank L., Brooklyn, N. Y. Fuel oil. 1,620,635; Mar. 15.
- Dietz, Joseph M., Ridgway, Pa. Arctic. 1,632,390; June 14.
- Dietz, R. E., Company. (See Currie, Robert A., assignor.)
- Dietze, Eginhard. (See McKown, F. W., and Dietze.)
- Dietze, Eginhard, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electrical wave filter. 1,636,737; July 26.
- Dietze, Emil, Richmond Hill, N. Y. Spark plug. 1,648,449; Nov. 8.
- Dietze, Emil, New York, assignor to American Casting and Manufacturing Corporation, Brooklyn, N. Y. Self-locking seal. 1,626,273; Apr. 26.
- Dietzgen, Eugene, Co. (See Langsner, Adolph, assignor.)
- Dietzsch, Ferdinand, Kingston-on-Thames, England. Treatment of ores for the extraction of values. 1,648,760; Nov. 8.
- Dietzsch, Ferdinand, Kingston-on-Thames, England. Treatment of ores for the extraction of values. 1,648,761; Nov. 8.
- Diendoune, Albert E., New Iberia, La. Name plate and sign frame. 1,638,761; Aug. 9.
- Diffenderfer, J. K. E., et al. (See McMullen, Joseph B., assignor.)
- Diggs, Joseph H. (See Young, C. W., and Diggett.)
- Diggs, Dudley M., assignor of one-half to H. E. Butler, Schenectady, N. Y. Paper fastener. 1,640,398; Aug. 30.
- Di Giulio, Ernesto, Lynn, Mass. Parachute. 1,635,823; July 12.
- Digna, Léon, Mons, assignor to Acleries de Haine St. Pierre, et Lesquins, Société Anonyme, Haine St. Pierre, Belgium. Railway rail for detaching brake skids. 1,648,379; Nov. 8.
- Di Ianni, Frank, Brooklyn, N. Y., assignor to American Machine and Foundry Company. Mount for the tongues of cigarette rod-forming mechanism. 1,630,488; May 31.
- Di Ianni, Frank, Brooklyn, N. Y., assignor to American Machine & Foundry Company. Cigarette-machine catcher. 1,647,280; Nov. 1.
- Di Ianno, Frank, Millburn, N. J. Penholder or similar article. Des. 72,603; May 10.
- Dileo, Dominic, Utica, N. Y. Pipe fitting. 1,647,036; Oct. 25.
- Dilger, Frank S., Yankton, S. Dak. Legging. 1,643,020; Sept. 27.
- Dill and Collins Co. (See Topper, Plus A., assignor.)
- Dill, John. (See Shmyroff, A., Bogoslawsky, and Dill.)
- Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
- Dill Manufacturing Company, The. (See Bronson, A. E., and Tobold, assignors.)
- Dill Manufacturing Company. (See Crowley, John C., assignor.)
- Dill Manufacturing Company, The. (See Hansen, Henry J., assignor.)
- Dill Manufacturing Company, The. (See Tobold, Ewald F., assignor.)
- Dillahunt, John W., Hartford, Conn. Snow-cleaning apparatus. 1,621,156; Mar. 15.
- Dillman, Daniel S., Hastings, Nebr. Twine and rope cutter. 1,620,357; Mar. 15.
- Dillenbach, Daniel S., Hastings, Nebr. Mail box. 1,640,268; Aug. 23.
- Dille, Fred M., and C. F. Hallberg, Oelwein, Iowa. Pressure oil can. 1,620,595; Mar. 8.
- Dillhoefer, Henry M., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Gear-sent cone construction. 1,618,603; Mar. 1.
- Dillingham, Frederick A., assignor to The Troy Sunshade Company, Troy, Ohio. Windshield. 1,630,330; May 31.
- Dillon, John W., Los Angeles, Calif. Ash tray. 1,616,117; Feb. 1.
- Dillon Bank Protection Service. (See Dillon, William J., assignor.)
- Dillon-Gaw Motor Company. (See Gaw, Luther A., assignor.)
- Dillon, Harry L. (See Poling, G. N., and Dillon.)
- Dillon, James E. P., South Bend, Ind. Trash receptacle. 1,632,542; June 14.
- Dillon, Joseph F. (See Enright, S. P., and Dillon.)
- Dillon, Joseph H., Wilmette, assignor to Dillon Pulley Co., Chicago, Ill. Pulley. 1,625,640; Apr. 19.
- Dillon, Laurence F. (See Casper, G. H., and Dillon.)
- Dillon, Oscar L., Jr., Hernando, Miss. Preparing road-building material. 1,648,106; Nov. 8.
- Dillon Pulley Co. (See Dillon, Joseph H., assignor.)
- Dillon, Stephen V., Tulsa, Okla. Automatic catching device for well tubing. 1,629,261; May 17.
- Dillon, Stephen V., Tulsa, Okla. Catching device for well tubing. 1,629,262; May 17.
- Dillon, Stephen V., Tulsa, Okla. Catching device for well tubing. 1,629,263; May 17.
- Dillon, Stephen V., Tulsa, Okla. Tubing catcher. 1,640,756; Aug. 30.
- Dillon, Walter H., Indianapolis, Ind. Telephone signal light. 1,650,699; Nov. 29.
- Dillon, William A., Ithaca, N. Y. Dust collector and controller for ash receptacles. 1,652,615; Dec. 13.
- Dillon, William C., Fort Dodge, Iowa, assignor to Dillon Bank Protection Service. Combined electrical and mechanical safety lock for vault doors. 1,635,075; July 5.
- Di Lorenzo, Antonio, Astoria, N. Y. Flour sifter. 1,617,797; Feb. 15.

- Di Martino, Carmelo, and E. Lindquist, Paterson, N. J. Coin-controlled mechanism. 1,623,466; Apr. 5.
- Di Marzio, Francis, Tufo, Italy, assignor to M. Gannaco, Lawrence, N. Y. Tricycle. 1,645,609; Nov. 8.
- Dimitos, Archie, and G. D. Michal, Sydney, New South Wales, Australia. Combined laundry washing machines and hydro-extractor. 1,637,930; Aug. 2.
- Dimitos, Archie, and G. D. Michal, Sydney, New South Wales, Australia. Machine for washing table utensils. 1,640,114; Aug. 23.
- Di Matteo, James. (See Luisa, F. and Di Matteo.)
- Dimberg, Paul C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Manufacturing turbines. 1,621,001; Mar. 15.
- Dimberg, Paul C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Manufacturing turbines. 1,621,002; Mar. 15.
- Dimberg, Paul C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Uniting blades. 1,641,745; Sept. 6.
- Dimelew, Thomas E., Philadelphia, assignor to J. W. McKinnon, York, Pa. Dental facing. 1,634,612; July 5.
- Dimes, Richard, Co. (See Dimes, Richard, Jr., assignor.)
- Dimes, Richard, Jr., Everett, assignor to Richard Dimes Co., South Boston, Mass. Dish or analogous article. Des. 73,284; Aug. 23.
- Dimmig, Howard, Chicago, Ill., assignor to The Texas Company, New York, N. Y. Soluble oil. 1,621,483; Mar. 15.
- Dimond, Clark W., Minneapolis, Minn. Manifold heat retainer. 1,637,768; Aug. 2.
- Dinesen, Laurits, Minneapolis, Minn. Reciprocating pump. 1,632,436; June 14.
- Dinge, George W., Utica, N. Y. Expandable and contractible mandrel. 1,627,729; May 10.
- Dingman, Thomas C., South Bend, Ind., assignor to The White Motor Company, Cleveland, Ohio. Instrument panel. Des. 73,163; Aug. 2.
- Dingman, Thomas C., assignor to The White Motor Company, Cleveland, Ohio. Instrument panel. 1,620,328; Mar. 8.
- Dinhofer, Julius, New York, N. Y. Finger ring. Des. 72,204; Mar. 15.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,356; Apr. 5.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,357; Apr. 5.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,358; Apr. 5.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,359; Apr. 5.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,360; Apr. 5.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,413; Apr. 12.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,414; Apr. 12.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,415; Apr. 12.
- Dinhofer, Julius, New York, N. Y. Watchcase. Des. 72,416; Apr. 12.
- Dinhofer, Julius, New York, N. Y. Cigar lighter. 1,646,276; Oct. 18.
- Dinin, Alfred, Nanterre, France. Portable battery of electric accumulators. 1,653,949; Dec. 27.
- Dinkel, Andrew J. (See Cooper, C. G., and Dinkel.)
- Dinkel, Frank J. L., North Bergen, N. J. Multiple bending apparatus. 1,625,581; May 10.
- Dinkelspiel & Co. (See Dinkelspiel, Lawrence, assignor.)
- Dinkelspiel, Lawrence, assignor to Dinkelspiel & Co., Inc., West New York, N. J. Lace. Des. 73,515; Sept. 27.
- Di-Noc Manufacturing Company, The. (See Reese, Thomas S., assignor.)
- Dinsmore, Oliver R., Olympia, Wash. Motor-vehicle signal device. 1,648,581; Nov. 8.
- Dinspel, William H., assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Closure device for pneumatic dispatch carriers. 1,647,788; Nov. 1.
- Dinstman, Isidor, assignor to Diel Watch Case Co., Inc., New York, N. Y. Watchcase. Des. 73,646; Oct. 18.
- Dinstman, Isidor, assignor to Diel Watch Case Co., Inc., New York, N. Y. Combined wrist-watch case, strap, and buckle. Des. 73,647; Oct. 18.
- Dinstman, Isidor, New York, N. Y. Watchcase. Des. 73,651; Nov. 29.
- Dinstman, Isidor, New York, N. Y., assignor to Diel Watch Case Company. Making watchcases. 1,633,661; June 28.
- Dinwiddie, Joseph G., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Indophenol and producing the same. 1,628,554; May 19.
- Dinwiddy, Ralph G., et al. (See Howell, George B., assignor.)
- Dinzi, Richard W., Bywood, assignor to Southward Foundry & Machine Company, Philadelphia, Pa. Rubber-coating machine. 1,646,447; Oct. 25.
- Dion, Alfred, Indian Orchard, Mass. Automatic signal indicator for creeling frames. 1,633,439; June 21.
- Dion, Pierre E., Gardena, Calif. Attachment for shovel cultivators. 1,636,219; July 19.
- Dippel, William T., New York, assignor to H. S. Martin, Brooklyn, N. Y. Visual annunciator. 1,626,795; May 3.
- Dippert, Charles W., Kenmore, N. Y. Apparatus for use in assembling radiator cores. 1,629,780; May 24.
- Di Rebayle, Leo, Bloomfield, N. J. Multicolor pencil case. 1,632,047; Dec. 6.
- Directoplate Corporation. (See Koppe, Alexander T., assignor.)
- Dirschauer, Jacob A. (See Dick, A., and Dirschauer.)
- Disbro, Roger W., Cleveland Heights, assignor to The W. S. Trier Company, Cleveland, Ohio. Door hanger. 1,650,435; Nov. 22.
- Disbro, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Composite wear plate for rail joints. 1,634,742; July 5.
- Disbro, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Flexible rail joint. 1,641,416; Sept. 6.
- Disbro, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Track liner. 1,642,334; Sept. 13.
- Disbro, Clarkson A., New Rochelle, N. Y., and W. E. Gadd, Philadelphia, Pa., assignors to The Rail Joint Company, New York, N. Y. Track-lining device. 1,627,356; May 3.
- Disenza, Sylvester B. (See Driscoll, Ben B., assignor.)
- Disch, William A., Chicago, Ill. Valve-guide bushing. 1,641,963; Sept. 13.
- Discola, Inc. (See Jenkins, Charles E., assignor.)
- Dishong, William, Johnstown, Pa. Welding and article produce and thereby. 1,629,655; May 24.
- Disibio, Joseph, Detroit, Mich. Tilting stand for crocks. 1,627,490; May 3.
- Disney, Keppel, Vancouver, British Columbia, Canada. Storage building for motor cars and the like. 1,627,959; May 10.
- Dissette, John W., assignor to Ward's Products Co., Inc., Chicago, Ill. Bottle. Des. 72,604; May 10.
- Distance-Spacer Rording Company. (See Walbillech, Anthony F., assignor.)
- Di Stanislaw, Joseph, Camden, N. J. Combination radio and phonograph cabinet. 1,616,217; Feb. 1.
- Di Stefano, Salvatore, Troy, N. Y. Automobile lamp. Des. 73,164; Aug. 2.
- Dietrich, Hans, near Stuttgart, assignor to the firm Spezial-Werkzeug-Fabrik Feuerbach & Co. m. b. H., Feuerbach, Germany. Wrench with head guided on the shaft and with reversible ratchet mechanism. 1,629,205; May 17.
- District of Columbia Paper Manufacturing Company. (See Smith, D. A., and Stirling, assignors.)
- Ditcham, William T., Colchester, England, assignor to Radio Corporation of America. Electrical condenser. 1,614,459; Jan. 18.
- Ditcham, William T., Twickenham, England, assignor to Radio Corporation of America, New York, N. Y. Wireless telephony. 1,629,665; May 24.
- Dittlinger, Alphonse, N., and E. V., Jr., St. Louis, Mo. Electric liquid-quantity indicator. 1,616,529; Feb. 8.
- Dittlinger Crow Process Company, The. (See Dittlinger, Hippolyt, assignor.)
- Dittlinger, Emil V., Jr. (See Dittlinger, A., N., and E. V., Jr.)
- Dittlinger, Hippolyt, assignor, by mesne assignments, to The Dittlinger Crow Process Company, New Braunfels, Tex. Hydration of lime. 1,640,502; Aug. 30.
- Dittlinger, Nicholas. (See Dittlinger, A., N., and E. V., Jr.)
- Dittman, William F., Arlington, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Indicator. 1,645,513; Oct. 18.
- Ditzler, Guy E., Hinsdale, assignor of one-third to J. T. Cochran and one-third to R. M. Krieser, Chicago, Ill. Surprise device. 1,648,500; Nov. 8.
- Diven, Thomas M., sr., Baltimore, Md. Acid or sea-water resisting alloy. 1,652,301; Dec. 13.
- Dixie Culvert & Metal Company, The. (See Willard, assignor.)
- Dixie Dental Manufacturing Co. (See Pecker, Joseph S., assignor.)
- Dixie Gin Compress Company, The. (See Taft, John A., assignor.)
- Dixon, Abner F., assignor of one-third to T. C. Bannon and one-third to D. Upham, New York, N. Y. Apparatus for orienting geological specimens in bore holes. 1,630,694; May 31.
- Dixon, Gustave G., et al. (See Koehn, Daniel W., assignor.)
- Dixon, James, Phoenix, Ariz. Snubber. 1,643,927; Sept. 27.
- Dixon, James and T. Barnoldswick, England. Mop and the like. 1,645,043; Oct. 11.
- Dixon, John W., Maywood, Ill. Machine for making metal binding strips. 1,626,227; Apr. 26.
- Dixon, Joseph, Crucible Company. (See Erdoes, Julius, assignor.)
- Dixon, Mark C. (See Brown, E. B., and Dixon.)
- Dixon, Paul, Atlanta, Ga. Card protector. 1,624,719; Apr. 12.
- Dixon, Robert, Newark, N. J. Barber pole. Des. 73,425; Sept. 13.
- Dixon, Thomas. (See Dixon, James and T.)
- Dixon, Walter L., assignor to Reece Folding Machine Company, Boston, Mass. Folding method and product. 1,633,849; June 28.

- Dixon, Walter L., assignor to Reece Folding Machine Company, Boston, Mass. Folding machine. 1,648,450; Nov. 8.
- Djildes, Alexander, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. High-explosive detonator. 1,617,675; Feb. 15.
- Dlouhy, August, Wallingford, Conn., assignor to H. L. Judd Co., Inc., New York, N. Y. Curtain-pole end. Des. 72,004; Feb. 15.
- Dlouhy, August, Wallingford, Conn., assignor to H. L. Judd Co., Inc., New York, N. Y. Curtain-pole end. Des. 72,005; Feb. 15.
- Dlouhy, August, Wallingford, Conn., assignor to H. L. Judd Co., Inc., New York, N. Y. Curtain-pole end. Des. 72,251; Mar. 22.
- Dlouhy, August, Wallingford, Conn., assignor to H. L. Judd Company, Inc., New York, N. Y. Curtain crane. Des. 73,165; Aug. 2.
- Dlouhy, August, Wallingford, Conn., assignor to H. L. Judd Company, Inc., New York, N. Y. Curtain crane. Des. 73,166; Aug. 2.
- Doak, Leonard W., Dravosburg, Pa. Suspension apparatus for steamboat rudders. 1,618,175; Feb. 22.
- Doak, Lester, McMinnville, Tenn. Fountain mop. 1,628,956; May 17.
- Doak, Russell, Pine Bluff, Ark. Cigar and cigarette lighting container. 1,631,020; May 31.
- Doan, Arthur, Berkeley, Calif. Third-railway electric-current-feeding system for electric railways. 1,629,025; May 17.
- Doane, John A., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling lathe. 1,618,275; Feb. 22.
- Doane, John A., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel head for machine tools. 1,634,402; July 5.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Lighting unit. 1,612,856; Jan. 4.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Floor lamp. 1,628,395; May 10.
- Doane, Leroy C., Meriden, assignor to The Miller Company, Meriden, Conn. Shade holder. 1,632,391; June 14.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,654,162; Dec. 27.
- Dobbin, Albert J., Excelsior, Minn. Piece-goods-display support. 1,617,676; Feb. 15.
- Dobbins, George R., Alhambra, assignor of one-fourth to H. H. Hammond and one-fourth to W. R. H. Miller, Los Angeles, Calif. Hold-up alarm. 1,645,185; Oct. 11.
- Dobbins, Oliver B., Champaign, Ill. Closure operator. 1,613,649; Jan. 11.
- Dobbins, Ray H. (See Perkins, L. B. C. and Dobbins.)
- Doberstein, Edward J., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper-loading apparatus. 1,622,823; Mar. 29.
- Doberstein, Edward J., Blue Island, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine skid. 1,630,472; May 31.
- Doberstein, Edward J., Blue Island, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,644,183; Oct. 4.
- Doberstein, Edward J., Blue Island, assignor to Goodman Manufacturing Company, Chicago, Ill. Flitting device. 1,644,241; Oct. 4.
- Doble, Frank C., Cambridge, Mass. Apparatus for indicating voltage stress. 1,644,421; Oct. 4.
- Doble, Frank C., Cambridge, Mass. Apparatus for testing insulators. 1,644,422; Oct. 4.
- Doble Laboratories. (See Doble, William A., assignor.)
- Doble, William A., assignor to Doble Laboratories, San Francisco, Calif. Oil-burner ignition device. 1,617,677; Feb. 15.
- Dobrik, Samuel, Brooklyn, N. Y. Dental molding plate. 1,613,584; Jan. 4.
- Dobson, Weronika, Milwaukee, Wis. Under-sea-illumination means for submarines. 1,622,189; Mar. 22.
- Dobrowski, Nikolaus, and O. Günther, Esslingen-on-the-Neckar, Germany. Driving gear for locomotives equipped with internal-combustion engines. 1,628,492; May 10.
- Dobrowsky, Emmanuel, assignor to Motor Car Advertising Device Co., Inc., New York, N. Y. Taxi advertising device. 1,645,804; Oct. 18.
- Dobson, Marion L., Kevin, Mont. Pump jack. 1,620,009; Mar. 8.
- Dobson, Percy R., Rockyford, Ontario, Canada. Door-operating mechanism. 1,650,332; Nov. 22.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,614,604; Jan. 18.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. 1,642,196; Sept. 13.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,643,114; Sept. 20.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,643,654; Sept. 27.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,646,952; Oct. 25.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,647,125; Nov. 1.
- Dock Engine Company, The. (See Dock, Herman, assignor.)
- Dock, Herman, Pleasantville, N. Y. Rotary valve for internal-combustion engines. 1,616,030; Feb. 1.
- Dock, Herman, Pleasantville, assignor to The Dock Engine Company, Inc., New York, N. Y. Internal-combustion engine. 1,616,029; Feb. 1.
- Dod, Gerald, Southport, England. Rope or belt drive for sprocket wheels and the like. 1,627,018; May 3.
- Dod, Gerald, Southport, England. Multiple-cylinder drying machine. 1,630,331; May 31.
- Dodd, James, Brisbane, Queensland, Australia. Casting reel. 1,621,003; Mar. 15.
- Dodd, James A., Lexington, Ky. Gate. 1,623,394; Apr. 5.
- Dodd, John W. (See McLaughlin, M. B. and Dodd.)
- Dodd, John W., Brookline, assignor to George T. McLaughlin Company, Boston, Mass. Electrically-released brake. 1,629,781; May 24.
- Dodd, John W., Brookline, assignor to George T. McLaughlin Company, Boston, Mass. Brake. 1,652,400; Dec. 18.
- Dodd, James M., Milton, Ind. Grave cover. 1,622,995; Mar. 29.
- Doddsbridge, James M., Milton, Ind. Cemetery tent. 1,642,648; Sept. 13.
- Dodds, Ethan I., Central Valley, N. Y., assignor to H. F. Gilg, Pittsburgh, Pa. Metal car end. 1,643,204; Sept. 20.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Union Metal Products Company, Chicago, Ill. Sheet structure. 1,649,453; Nov. 15.
- Dodds, Ethan I., jr., Central Valley, N. Y., assignor, by mesne assignments, to Flannery Bolt Company, Pittsburgh, Pa. Lubricator. 1,652,098; Dec. 6.
- Dodds, Ethan I., Pittsburgh, Pa., assignor to Union Metal Products Company, Chicago, Ill. Car part. 1,653,091; Dec. 20.
- Dodds, Homer L., Pasadena, Calif. Mechanism for rendering vehicle headlights dirigible. 1,650,115; Nov. 22.
- Dodds, James B., Denver, Colo. Concentrator. 1,627,157; May 3.
- Dodds, John H., Elizabeth, N. J. Wrench. 1,616,612; Feb. 8.
- Dodds, Joseph J. (See Larkin, Arthur J., assignor.)
- Dodds, Samuel R., Pittsburgh, Pa. Differential driving mechanism. 1,624,589; Apr. 12.
- Doddy, Edward A. (See Maley, F. T. and Doddy.)
- Dodelin, Emil A. (See Shetzline, S. R., jr., and Dodelin.)
- Dodge, Adiel Y., South Bend, Ind. Brake-applying connection. 1,651,195; Nov. 29.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,613,024; Jan. 4.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,614,460; Jan. 18.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Pressed brake shoe. 1,622,138; Mar. 22.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-drum oil guard. 1,624,220; Apr. 12.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,628,957; May 17.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,630,059; May 24.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Universal joint. 1,632,121; June 14.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,634,369; July 5.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Pivoted brake shoe. 1,634,370; July 5.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Ball joint. 1,635,468; July 12.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,636,554; July 19.
- Dodge, Adiel Y., South Bend, Ind., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill. Brake-control-lubricating means. 1,636,903; July 26.
- Dodge, Adiel Y., South Bend, Ind., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill. Brake-control-actuating mechanism. 1,637,520; Aug. 2.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,638,326; Aug. 9.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Braking and steering mechanism. 1,642,063; Sept. 13.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,643,548; Sept. 27.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,647,397; Nov. 1.

- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,654,241; Dec. 27.
- Dodge, Adiel Y., and E. G. McDonald, South Bend, Ind., assignors to Bendix Brake Company, Chicago, Ill. Brake. 1,642,844; Sept. 20.
- Dodge, Arthur H., assignor to The J. G. Wilson Corporation, New York, N. Y. Offsetting support for Venetian blinds. 1,625,021; Apr. 19.
- Dodge Brothers, Inc. (See Goddard, George E., assignor.)
- Dodge Brothers, Inc. (See Walter, Robert C., assignor.)
- Dodge, Gordon F. (See Tuttle, F. J., and Dodge.)
- Dodge, Lysander H., Huntington Beach, Calif. Follower lock for filing drawers. 1,639,987; Aug. 16.
- Dodge, Martha F., Winfield, Kans. Garment. 1,635,036; July 5.
- Dodge, Merton L. (See Troyer, N., and Dodge.)
- Dodge, Owen, assignor to The Automatic Electric Control Company, Colorado Springs, Colo. Overtemperature control for electric sadrions. 1,644,875; Oct. 11.
- Dodge, Susan J., et al. (See Brown, George W., assignor.)
- Dodge, Waldo C., Winthrop, Mass. Smoking appliance. 1,623,661; Apr. 5.
- Dodds, Will K., Fort Bragg, Calif. Tool-sharpening machine. 1,652,469; Dec. 13.
- Dodds, William W., Jr., Asheville, N. C. Electric outlet. 1,648,582; Nov. 8.
- Dodkin, William J., Chicago, Ill. Coin-controlled lock. 1,628,711; May 17.
- Dodman, Alfred C., Jr., Summit, N. J. Wall paper. Des. 73,829; Nov. 15.
- Dodman, Alfred C., Jr., Summit, N. J. Preparing wall covering. 1,623,620; Apr. 5.
- Dodunski, Peter F., Solon, Ohio. Thermostat diaphragm. 1,630,733; May 31.
- Doe, Alfred G., Quincy, assignor to American Boiler Life Company, Inc., Boston, Mass. Antiscale material for boilers. 1,639,027; Aug. 16.
- Doebler, Charles F., Austin, Tex., assignor to Perfect Point Pencil Corporation, New York, N. Y. Pencil. 1,650,116; Nov. 22.
- Doehler Die-Casting Company. (See Morin, Louis H., assignor.)
- Doelcher, Jacob, Hillsdale, Mich. Portable elevator. 1,643,448; Sept. 27.
- Doelckner, Max A., and A. P. Fanelli, Louisville, Ky. Tire liner. 1,628,582; May 10.
- Doellner, William, Jersey City, N. J. Safety feed means. 1,627,491; May 3.
- Doering, Albert L., Germantown, assignor to J. S. Thorn Company, Philadelphia, Pa. Sash frame. 1,644,645; Oct. 4.
- Doering, Charles J. (See Doering, William W. and C. J.)
- Doering, Julius E., Minneapolis, Minn. Boiler-water-level indicator. 1,652,001; Dec. 6.
- Doering, William M. and C. J., Cincinnati, Ohio. Advertising device and reflector therefor. 1,625,798; Apr. 28.
- Doerr, Fred H., and G. E. Roedding, Grand Rapids, Mich., assignors to Cheney Talking Machine Company, Chicago, Ill. Phonograph mechanism. 1,622,423; Mar. 29.
- Doerr, Georg L., Mannheim, assignor to I. G. Farben-Industrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Roller for calendaring machines. 1,644,819; Oct. 11.
- Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Car-truck side frame. 1,652,002; Dec. 6.
- Doerr, Louis H., Ventura, Calif. Flow nipple. 1,621,876; Mar. 22.
- Doerre, Otto J., Chicago, Ill. Game. 1,616,443; Feb. 8.
- Doerschel, Victor G., Massena, N. Y. Safety steering wheel for automobiles. 1,650,499; Nov. 22.
- Doggett, Reginald L. S., East Orange, N. J. Door knocker or similar article. Des. 72,060; Feb. 22.
- Doherty, Henry, Jr., Clifton, N. J. Stop motion. 1,646,642; Oct. 25.
- Doherty, Henry L. (See Laird, Wilbur G., assignor.)
- Doherty, Henry L., New York, N. Y. Apparatus for generating steam. 1,619,244; Mar. 1.
- Doherty, Henry L., assignor to Doherty Research Company, New York, N. Y. Storage reservoir. 1,646,641; Oct. 25.
- Doherty, Henry L., & Company. (See Griswold, John W., assignor.)
- Doherty, Patrick, Gary, Ind. Vehicle headlight dimming device. 1,628,036; May 10.
- Doherty Research Company. (See Bjerrgaard, August P., assignor.)
- Doherty Research Company. (See Borden, Edmund G., assignor.)
- Doherty Research Company. (See Brandt, David G., assignor.)
- Doherty Research Company. (See Coast, John W., Jr., assignor.)
- Doherty Research Company. (See Doherty, Henry L., assignor.)
- Doherty Research Company. (See Fisher, James P., assignor.)
- Doherty Research Company. (See Griswold, Robert G., assignor.)
- Doherty Research Company. (See Truesdell, Arthur E., assignor.)
- Doherty, Robert E., Scotia, N. Y., assignor to General Electric Company. Regulating system for dynamo-electric machines. 1,633,808; June 28.
- Dohmann, Edward A., Weesatche, Tex. Automatic return gate. 1,628,622; May 10.
- Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Alkyl resorcinol. 1,649,667; Nov. 15.
- Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Iso-alkyl resorcinol. 1,649,668; Nov. 15.
- Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Hexyl resorcinol. 1,649,669; Nov. 15.
- Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Hexyl resorcinol. 1,649,670; Nov. 15.
- Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Hexyl resorcinol composition. 1,649,671; Nov. 15.
- Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. N-butyl resorcinol. 1,649,672; Nov. 15.
- Dol, Gennosuke, New York, N. Y. Fountain brush. 1,614,441; Jan. 18.
- Doignon, Louis A., Malakoff, France. Centrifugal regulator. 1,655,314; July 12.
- Dolan, David J., Cleveland, Ohio. Make and break device. 1,622,424; Mar. 29.
- Dolan, David J., Cleveland, Ohio. Steering-wheel lock mechanism. 1,622,575; Mar. 29.
- Dolan, Francis M., St. Paul, Minn. Slicing board. 1,623,100; Apr. 5.
- Dolan, David R., Mount Vernon, N. Y., and J. P. Shea, Greenwich, Conn., assignors to United Ammonia Company, Inc., Port Chester, N. Y. Bottle. 1,636,174; July 19.
- Dolan, Joseph V. (See Stubblebine, R. F., and Dolan.)
- Dolbear, Samuel H., San Francisco, Calif., and B. L. Eastman, New York, N. Y., assignors, by mesne assignments, to Selective Treatment Company Limited, Montreal, Canada. Concentrating fibrous materials. 1,624,163; Apr. 12.
- Dold, Joseph H., Philadelphia, Pa. Extension table. 1,652,772; Dec. 13.
- Dole, John A., Ironton, Ohio. Drier. 1,618,176; Feb. 22.
- D'Olier, Henry, Jr., Bridgeport, Conn. Lighting fixture. 1,613,025; Jan. 4.
- D'Olier, William L., Philadelphia, Pa. Screen-cleaning apparatus. 1,624,221; Apr. 12.
- D'Olier, William L., and T. Toblin, Philadelphia, Pa.; said Toblin assignor to said D'Olier. Screen plate. 1,631,585; June 7.
- D'Olive, Eugene R. (See Graves, R. M., and D'Olive.)
- Doll, Charles E. (See Holcroft, C. T., and Doll.)
- Dollar Savings and Trust Company, The, et al., executors. (See Burt, Harry B., assignor.)
- Dolley, Paul T. (See Poindexter, R. W., and Dolley.)
- Dollmann, Hans, Berlin-Waldmannslust, Germany. Driving means for electrolocomotives. 1,629,206; May 17.
- Dollod, Eugene D., Boston, Mass. Automobile tail. Des. 74,049; Dec. 13.
- Dolly, Bernard B., Superior, Ariz. Automatic safety switch. 1,640,695; Aug. 30.
- Dolman, Henry J., assignor to Brecknell, Munro & Rogers Limited, Bristol, England. Coin-freeed apparatus. 1,646,277; Oct. 18.
- Dolon, Alice J. L. (See Hoffmann, William H., assignor.)
- Dols, Theodore, Hopkins, Minn. Sash fastener. 1,613,315; Jan. 4.
- Dolt, Maurice L. (See Crossley, M. L., and Dolt.)
- Doman, John P., Los Angeles, Calif. Ironing board. Des. 72,909; Jan. 4.
- Doman, Lewis B., East Syracuse, N. Y. Engine-controlled pneumatically-operated circuit controller. 1,619,103; Mar. 1.
- Domestic Electric Company, The. (See Spielman, Milton H., assignor.)
- Domestic Stoker Company. (See Hall, C. H., and Lloyd, assignor.)
- Dominelli, Frank, Olean, N. Y. Wrench. 1,639,798; Aug. 23.
- Dominguez, José A., Mayaguez, P. R. Watch charm or similar article. Des. 73,648; Oct. 18.
- Dominquez, Manuel D., assignor to C. A. Denis and G. Sany, New Orleans, La. Automobile turning device. 1,614,289; Jan. 11.
- Dominick, Franklin, New York, N. Y. Electric-circuit-closing plug. 1,628,636; May 10.
- Dominick, Theodore, Wenatche, Wash. Subsoil ditcher. 1,623,530; Apr. 5.
- Dombrowski, John, Braddock, Pa. Electrical switch. 1,627,158; May 3.
- Domizi, David F., Cleveland, Ohio. Gear-testing machine. 1,644,876; Oct. 11.
- Dommer, John A., Euclid, Ohio. Brake-band-adjusting device. 1,621,004; Mar. 15.
- Dommer, Otto, Karlsruhe, Germany. Device for indicating and recording the specific gravity of gases. 1,640,313; Aug. 23.

- Domere Chair Company. (See Adams, Arthur J.)
- Domscheit, Frederick E., Brooklyn, N. Y. Window. 1,632,789; June 21.
- Donachy, Darwin H., Williamsport, Pa. Automobile window. 1,614,189; Jan. 11.
- Donaghy, Edward, Lisburn, Ireland. Vehicle wheel. 1,638,622; Aug. 9.
- Donahoe, John A., Pittsburgh, Pa. Container for foods. 1,625,192; Apr. 19.
- Donahoe, John T., Chicago, Ill. Electric signaling system. 1,628,493; May 10.
- Donahoo, Jesse L., Minneapolis, Minn. Liquid-fuel burner. 1,643,062; Sept. 20.
- Donald, Forrest V., assignor, by mesne assignments, to New Beeman Tractor Company, Minneapolis, Minn. Four-wheeled tractor. 1,633,850; June 28.
- Donald, Forrest V., assignor to Gilson Manufacturing Company, Port Washington, Wis. Garden tractor. 1,638,762; Aug. 9.
- Donald, Forrest V., assignor to Gilson Manufacturing Company, Port Washington, Wis. Tractor-cultivator combination. 1,641,158; Sept. 6.
- Donald, William, Glasgow, Scotland. Steam-boiler and evaporator. 1,633,398; June 21.
- Donald, William H., assignor of one-half to J. P. Jagy and one-half to C. Kloos, Cincinnati, Ohio. Slicing machine. 1,636,811; July 26.
- Donald, William H., assignor of one-half to F. A. Knowles, Cincinnati, Ohio. Chopping and slicing machine. 1,652,132; Dec. 6.
- Donaldson, Alfred S., Newark, N. J., assignor to Du Pont Viscoid Company, Wilmington, Del. Toilet box. Des. 72,793; June 7.
- Donaldson, Frank A., Minneapolis, Minn. Air cleaner. 1,641,746; Aug. 22.
- Donaldson, George H., West Hartford, Conn. Nipple for nursing bottles. 1,620,329; Mar. 8.
- Donaldson, John S., New York, N. Y. Inclinator. 1,634,934; July 5.
- Donaldson Manufacturing Company Limited. (See Hadden, William J., assignor.)
- Doner, Frank L., Eden Prairie, Minn. Antiskid device for automobile tires. 1,642,807; Sept. 20.
- Donath, Harry, Philadelphia, Pa. Window. 1,634,985; July 5.
- Donathan, William F., Poteau, Okla., assignor to S. J. Graham, Tuckerman, Ark. Vending machine. 1,619,245; Mar. 1.
- Donathan, William F., Memphis, Tenn., assignor to S. J. Graham, Tuckerman, Ark. Coin-controlled vending machine. 1,619,245; Mar. 1.
- Donathan, William F., Winchester, Tenn., assignor to S. J. Graham, Tuckerman, Ark. Fraud preventer for coin-controlled devices. 1,619,247; Mar. 1.
- Donathan, William F., Winchester, Tenn., assignor to S. J. Graham, Tuckerman, Ark. Vending machine. 1,619,248; Mar. 1.
- Donor, Joseph B., Cleveland, Ohio. Combination curtain and shadeholder. 1,623,578; Apr. 5.
- Doncheff, Demetre, East St. Louis, Ill. Airship. 1,623,865; Apr. 5.
- Donegan, William W., Los Angeles, Calif. Automobile bumper and support. 1,640,145; Aug. 23.
- Donegan, William W., Los Angeles, Calif. Combination automobile bumper and trunk rack. 1,640,146; Aug. 23.
- Dongan Electric Manufacturing Co. (See Osborne, Robert L., assignor.)
- Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Condenser. 1,644,242; Oct. 4.
- Donley, Harold B., assignor to The John W. Brown Company, Columbus, Ohio. Lamp. 1,648,167; Nov. 8.
- Donley, Harold B., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Automobile head lamp. 1,650,500; Nov. 22.
- Donley, Harold B., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Vehicle head lamp. 1,650,501; Nov. 22.
- Donnell, Peter O. (See Walker, James, assignor.)
- Donnelley, R. R., & Sons Company. (See Ackley, Raymond E., assignor.)
- Donnelly, Edward F., Malden, Mass. Ball-cock valve. 1,612,857; Jan. 4.
- Donnelly, Edward F., Malden, Mass. Vacuum valve. 1,627,840; May 10.
- Donnelly, James, Philadelphia, Pa. Electric stop motion for looms. 1,621,358; Mar. 15.
- Donnelly, James J., Alexandria, S. Dak. Vapor condenser for motor vehicles radiators. 1,613,873; Jan. 11.
- Donnelly, James O., Herndon, and F. D. Simminger, Lehigh, Kans. Hole-digging mechanism. 1,643,549; Sept. 27.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Mechanism for filling match safes and the like. 1,621,316; Mar. 15.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. 1,635,262; July 12.
- Donnelly, George F., Lemont, Ill. Apparatus for controlling fluids. 1,619,335; Mar. 1.
- Donnelly, R. R., & Sons Company. (See Ackley, Raymond E., assignor.)
- Donnelly, Richard O., Victoria, British Columbia, Canada. Fuel-regulation device for internal-combustion engines. 1,633,928; June 28.
- Donnelly, Thomas H., Dover, N. H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tool for Knowles looms. 1,639,844; Aug. 23.
- Donnelly, Walter W., Fort Worth, Tex. Lift for sucker rods, pipes, and the like. 1,634,935; July 5.
- Donnelly, William T., Brooklyn, N. Y. Dry dock. 1,617,990; Feb. 15.
- Donnellson, Blanche, Pratt, Kans., assignor of one-tenth to F. Goyen, one-tenth to W. Pedigo, one-tenth to W. B. Hess, one-tenth to J. E. Harder, and one-tenth to A. S. Farmer, Pipe wrench. 1,641,025; Aug. 30.
- Donner, Philip C., Summit, N. J. Carrotting fur and treating the same. 1,625,453; Apr. 19.
- Donnigan, Edward W. (See Knowlton, D. E., and Donnigan.)
- Donohue, Michael J. (See Mahoney, John P., assignor.)
- Donora, Pierre, Paris, France. Transmission device for vehicles provided with two motors. 1,641,253; Sept. 6.
- Donovan, Alfred, Barking, London, England. Rectal appliance. 1,640,928; Aug. 30.
- Donovan, Daniel S., and J. R. Brown, Dallas, Tex. Producing commercial baking dough. 1,617,514; Feb. 15.
- Donovan, John F., East Cleveland, Ohio, assignor to Donora Electric Company, Apparatus for making incandescent lamps and similar articles. 1,620,447; Mar. 8.
- Donovan, John J., Waterbury, Conn. Shaving mirror. 1,615,936; Feb. 1.
- Donovan, John J., Lynn, Mass. Sewing machine. 1,618,410; Feb. 22.
- Donovan, John J., Kansas City, Mo. Cutting device. 1,636,812; July 26.
- Donovan, William J., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Locating valve parts in rubber tubes. 1,646,953; Oct. 25.
- Donowho, Robert W., and H. M. Ballweber, Home Gardens, Calif. Liner pulley. 1,640,489; Aug. 30.
- Donoy, Henry W., assignor to N. A. Hallauer, trustee, Rochester, N. Y. Recovering the oil from mineral oil emulsions. 1,617,201; Feb. 8.
- Doody, Walter J., Boston, Mass. Testing device for ignition systems. 1,617,617; Feb. 15.
- Doolan, James E. Manufacturing Corporation. (See Smith, Arthur J., assignor.)
- Doolley, William, assignor to The Alliance Toy & Specialty Company, Alliance, Ohio. Shears. 1,618,817; Feb. 22.
- Doolittle, Harold L., Pasadena, Calif. Instrument for indicating tensile strain. 1,650,789; Nov. 29.
- Doolittle, Warren P., Hamden, Conn. Door stop and holder. 1,645,186; Oct. 11.
- Dootson, Norman L., San Francisco, Calif. Hatband. 1,643,335; Sept. 27.
- Doppke, Bert P., Hamtramck, Mich. Multiple distributing plate. 1,615,168; Jan. 18.
- Dopyera, John, Taft, Calif. Violin. 1,647,510; Nov. 1.
- Dopyera, John, Taft, Calif. Banjo. 1,649,101; Nov. 15.
- Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,614,235; Jan. 11.
- Doran, Maude M., Spokane, Wash. Counter and heel guard. 1,631,310; June 7.
- Dore, Frank M., Butte, Mont. Roller skate. 1,618,069; Feb. 15.
- Dorer, Primus O., Lee, London, assignor to A. G. Smith, London, England. Operating auxiliary apparatus on motor-driven vehicles. 1,621,769; Mar. 25.
- Dorey, George B., Evanston, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,612,803; Jan. 4.
- Dorey, George B., Montreal, Quebec, Canada, assignor, by mesne assignments, to W. H. Miner, Inc. Friction draft gear. 1,613,874; Jan. 11.
- Dorey, George B., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door operating mechanism. 1,635,177; July 12.
- Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, New York, N. Y. Luminary. 1,612,804; Jan. 4.
- Dorey, William A., Newark, Ohio, assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y. Luminaire. 1,644,877; Oct. 11.
- Dorey, William A., Newark, Ohio, assignor to Holophane Company, New York, N. Y. Luminaire. 1,644,915; Oct. 11.
- Dorland, F. N. (See Robinson, George W., assignor.)
- Dorman, George W., assignor to Sumner Iron Works, Everett, Wash. Saw shifter. 1,650,613; Nov. 29.
- Dorman, Lewis L., and W. V. Gage, Worland, Wyo. Cigar stand. 1,647,693; Nov. 1.
- Dorman, Neal W., and M. R. Hatch, assignors to The Toledo Machine and Tool Company, Toledo, Ohio. Toggle press. 1,621,713; Mar. 22.
- Dorman, William R., assignor to Johnson & Johnson, New Brunswick, N. J. Surgical dressing and making it. 1,637,857; Aug. 2.
- Dornand, Garry J., assignor to Lion Collars & Shirts, Inc., Troy, N. Y. Collar and making same. 1,646,192; Oct. 18.
- Dormann, August, jr., et al. (See Wilson, John H., assignor.)

- Dormert, Frank C., Wellington, Ohio. Applicator. 1,635,176; July 12.
- Dormer, John A. (See Malone, J. G., and Dormer.)
- Dorn, Carl, Halle-on-the-Saale, Germany. Dough-dividing machine. 1,619,104; Mar. 1.
- Dorn, Conrad, Trautenfurt, near Spalt, Germany. Lift-mechanism for stampers in stamping mills. 1,617,379; Feb. 15.
- Dorn, Edward C. (See Vogt, F. P., and Dorn.)
- Dorn, Harry P., assignor to The Cleveland Trust Company, Cleveland, Ohio. Phonometer. 1,641,136; Aug. 30.
- Dorn, Henry, Echo, Oreg. Impaling animal trap. 1,616,786; Feb. 8.
- Dorn, R. J., Company. (See Dorn, René, assignor.)
- Dorn, René, assignor to R. J. Dorn Company, Inc., New York, N. Y. Fastening for wall coverings. 1,650,117; Nov. 22.
- Dornbrook, Fred, Milwaukee, Wis., assignor to Riley Stoker Corporation, Worcester, Mass. Coal-feeding hopper. 1,639,931; Aug. 23.
- Dorner, Hermann I. A., Hannover, Germany. High-pressure pump for Diesel engines. 1,628,657; May 17.
- Dornes, George, Jr., Long Island City, N. Y. Drilling tool. 1,634,322; July 6.
- Dorner, Claudius, Friedrichshafen-on-the-Bodensee, Germany, assignor to Firm Zeppelinwerk Lindau, Gesellschaft mit beschränkter Haftung, Lindau-Reutin, Germany. Landing gear for flying machines. 1,623,961; Apr. 12.
- Dorner, Claudius, assignor of one-half to Dorner-Metalbauten Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Landing chassis for flying machines. 1,628,332; Apr. 26.
- Dorner, Claudius, assignor of one-half to the Firm Dorner Metalbauten Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Flying machine. 1,627,019; May 3.
- Dorner, Claudius, Friedrichshafen-on-the-Bodensee, assignor to the Firm: Dorner Metalbauten Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Hollow light metal girder. 1,643,577; Sept. 27.
- Dorner Metalbauten Gesellschaft mit beschränkter Haftung. (See Dorner, Claudius, assignor.)
- Dorn, Werner, Berlin-Steglitz, Germany. Electrical frequency-multiplying system. 1,618,411; Feb. 22.
- Dornin, George A., assignor to The Gathmann Engineering Company, Baltimore, Md. Ingot mold. 1,620,010; Mar. 8.
- Dornin, George A., assignor to The Gathmann Engineering Company, Baltimore, Md. Making ingot molds. 1,620,011; Mar. 8.
- Dorozynski, Casimir, Chicago, Ill. Roasting oven. 1,639,168; Aug. 16.
- Dorr Company, The. (See Bachmann, Frank, assignor.)
- Dorr Company, The. (See Blomfield, A. L., and Ramsey, assignors.)
- Dorr Company, The. (See McHugh, Philip M., assignor.)
- Dorr, George P. (See Bates, A. M., Dorr, and Danker.)
- Dörr, Wilhelm E. (See Baumeister, H., Dörr, and Hürtel.)
- Dorris, Henry C. (See Faunce, B. F., and Dorris.)
- D'Orsay Perfumeries Corporation. (See Delaize, Paul C., assignor.)
- Dorsey, Arthur. (See Ford, Seth B., jr., assignor.)
- Dorsey, Arthur. (See Shapiro, Sam A., assignor.)
- Dorsey, Arthur, New York, N. Y., assignor to Martin-Copeland Co., Providence, R. I. Radio dial plate. Des. 73,816; Nov. 8.
- Dorsey, Edgar O., Montpelier, Ind. Sanitary poultry roost. 1,631,799; June 7.
- Dorsey, Farnum F., Rochester, N. Y. Duster. 1,633,076; June 21.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Electric switch. 1,613,266; Jan. 4.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Fuel-supply system. 1,623,049; Apr. 5.
- Dorsey, Farnum F., assignor to North East Appliances Inc., Rochester, N. Y. Power mechanism. 1,628,037; May 10.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Engine-starter mechanism. 1,646,643; Oct. 25.
- Dorsey, Herbert G. (See Lapp, Claude J., assignor.)
- Dorsey, Herbert G., assignor to J. H. Hammond, jr., Gloucester, Mass. Receiving system for compressional waves. 1,625,245; Apr. 19.
- Dorsey, Herbert G., Gloucester, Mass., assignor to Submarine Signal Company, Portland, Me. Variable condenser. 1,636,503; July 19.
- Dorsey, Herbert G., assignor to J. H. Hammond, jr., Gloucester, Mass. Alternating-current selector. 1,637,442; Aug. 22.
- Dorsey, William H., New Brighton, assignor, by mesne assignments, to Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,640,351; Aug. 30.
- Dorton, John M., Bonner Springs, Kans. Dirigible headlight. 1,623,395; Apr. 5.
- Dorward, John G., Alameda, Calif. Sealing ring. 1,618,412; Feb. 22.
- Dosch, Henry C. (See Magnus, E. G., and Dosch.)
- Doscher, George, Mount Vernon, N. Y. Envelope container for toothpicks. 1,634,096; June 28.
- Doser, Theodore, St. Anthony, Iowa. Collapsible roost. 1,623,171; Apr. 5.
- Dostal, Gustave A., Dallas, S. Dak. Lacing cutter. 1,646,141; Oct. 18.
- Dostal, John R., assignor to Dostal & Lowey Hydro Company, Inc., Milwaukee, Wis. Bottle-washing machine. 1,629,155; May 17.
- Dostal, John R., assignor to Dostal & Lowey Hydro Company, Inc., Milwaukee, Wis. Bottle-washing machine. 1,644,515; Oct. 4.
- Dostal & Lowey Hydro Company. (See Dostal, John R., assignor.)
- Dostal, Fritz, White Plains, N. Y. Hydraulic brake. 1,631,800; June 7.
- Dotterweh, Andrew J., Pittsburgh, Pa. Apparatus for softening water. 1,652,710; Dec. 13.
- Doty, Dennis D., Garden City, Kans. Well casing. 1,647,907; Nov. 1.
- Doty, John H., Akron, Ohio. Fabric disk wheel. 1,631,923; June 7.
- Doty, John W., Olney, Ill. Mop-handle fastener. 1,627,960; May 10.
- Doty, Vernon A., West Springfield, Mass. Vegetable washer. 1,646,690; Oct. 25.
- Doty, William W., Staten Island, assignor of one-half to S. Rosenbaum, New York, N. Y. Resilient member. 1,630,893; May 31.
- Doud, Louis N., Norwalk, Ohio. Traveling bag. 1,641,747; Sept. 6.
- Dougal, John W., Edinburgh, Scotland. Facing or preservation of walls and other surfaces. 1,636,629; July 19.
- Dougan, William R., Somerset, Pa. Toothbrush. 1,650,200; Nov. 22.
- Dougherty, Charles T., Lemore, assignor of six fifty-fifths to H. B. Dougherty, six fifty-fifths to E. H. Dougherty, six fifty-fifths to F. C. Dougherty, Huntington Beach, six fifty-fifths to C. C. Campbell, Coalinga, six fifty-fifths to R. L. Johnston, Santa Barbara, three fifty-fifths to P. A. Campbell, Long Beach, three twenty-fifths to W. W. Smith, two twenty-fifths to J. H. Dunaway, two twenty-fifths to R. M. Wagner, two twenty-fifths to C. Wagner, and one twenty-fifth to E. G. Smith, Fresno County, Calif. Oil-well-tool operator. 1,617,303; Aug. 14.
- Dougherty, Charles T., deceased, Huntington Beach, Calif.; W. W. Smith, administrator, Coalinga, Calif., assignor to Revolutionary Oil Well Tool Company. Oil-well-tool operator. 1,647,961; Nov. 1.
- Dougherty, Daniel A., Philadelphia, Pa. Cleaning containers. 1,629,486; May 24.
- Dougherty, F. C., et al. (See Dougherty, Charles T., assignor.)
- Dougherty, F. C., et al. (See Dougherty, Charles T., assignor.)
- Dougherty, George, assignor to Economy Glass Company, Morgantown, W. Va. Tumbler or similar article of glassware. Des. 73,426; Sept. 18.
- Dougherty, Glenn O., Los Angeles, Calif. Pedal-actuated faucet. 1,627,020; May 3.
- Dougherty, Hattie E., et al. (See Dougherty, Charles T., assignor.)
- Dougherty, John J., assignor of one-half to W. P. Boland, San Francisco, Pa. Dumping appliance. 1,621,462; Mar. 15.
- Dougherty, John W., and W. E. Townley, Owensboro, Ky. Toilet article. 1,632,392; June 14.
- Dougherty, Luke B. (See Johnson, John W., assignor.)
- Doughnut Machine Corporation. (See Bleier, William D., assignor.)
- Doughty, George E., New York, and H. Forth, Ridge-wood, N. Y. File, binder, and the like. 1,636,408; July 19.
- Doughty, James P., jr., trustee. (See Weathers, Henry W., assignor.)
- Doughty, William E., Detroit, Mich. Display container. Des. 73,689; Oct. 25.
- Doughty, William E., assignor to James Vernon Company, Detroit, Mich. Carbonated-beverage-dispensing apparatus. 1,634,457; July 6.
- Douglas, Charles E., Hoquiam, Wash. Rim jack. 1,616,891; Feb. 8.
- Douglas, Charles E., Nashua, N. H. Sheet metal snow guard. 1,647,345; Nov. 1.
- Douglas, Elizabeth J., Crete, Nebr. Paper holder for toilet-seat covers. 1,638,247; Aug. 9.
- Douglas, George, San Francisco, Calif. Nonwarping socket top. 1,632,060; June 14.
- Douglas, Harry A. (See Cragg, George L., assignor.)
- Douglas, Harry A. (See Nelson, John H., assignor.)
- Douglas, Harry A. (See Schmid, William, assignor.)
- Douglas, Harry A., Bronson, Mich. Locking mechanism for internal-combustion engines. 1,613,875; Jan. 11.
- Douglas, Harry A., Bronson, Mich. Lock. 1,616,265; Feb. 1.
- Douglas, Harry A., Bronson, Mich. Electric condenser. 1,617,618; Feb. 15.
- Douglas, Harry A., Bronson, Mich. Combined lighting and ignition switch. 1,622,706; Mar. 29.
- Douglas, Harry A., Bronson, Mich. Combined lighting and ignition switch. 1,622,707; Mar. 29.
- Douglas, Harry A., Bronson, Mich. Cow lamp. 1,634,403; July 5.
- Douglas, Harry A., Bronson, Mich. Circuit-continuing device. 1,634,404; July 5.

- Douglas, Harry A., Bronson, Mich. Circuit-continuing device. 1,634,405; July 5.
- Douglas, Harry A., Bronson, Mich. Terminal connector. 1,634,406; July 5.
- Douglas, Harry A., Bronson, Mich. Contact carrier. 1,634,407; July 5.
- Douglas, Harry A., Bronson, Mich. Electric switch. 1,634,408; July 5.
- Douglas-Pectin Corporation. (See Douglas, R., and Loesch, assignors.)
- Douglas, Robert, and H. G. Loesch, assignors to Douglas-Pectin Corporation, Rochester, N. Y. Emulsification of oils and fats and products made therefrom. 1,625,641; Apr. 19.
- Douglas, Robert W., Chico, Calif. Egg-beater holder. 1,617,747; Feb. 15.
- Douglas, Theodore, Scarborough, assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y. Safety attachment for aircraft. 1,626,921; May 3.
- Douglas, Theodore, Scarborough, assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y. Mechanism for safely controlling internal-combustion engines upon aircraft. 1,651,919; Dec. 6.
- Douglas, William H., assignor to Healey Aeromarine Bus Co. Inc., Keyport, N. J. Universal joint. 1,617,016; Feb. 8.
- Douglas, William H., Keyport, N. J., assignor to Healey-Aeromarine Bus Company, Inc. Universal joint. 1,651,379; Dec. 6.
- Douglas, William H., Chicago, Ill. Steam-heating apparatus. 1,645,522; Oct. 18.
- Dougllass, Joseph, Okmulgee, Okla. Header for oil tanks. 1,613,876; Jan. 11.
- Dougllass, Leon F., Menlo Park, Calif. Method and apparatus for producing variable image effects in photography. 1,632,221; June 14.
- Douglas, Lester M., San Diego, Calif. Producing colored photographic films. 1,632,273; June 14.
- Dougllass, Neale, Brooklyn, N. Y. Chain wrench. 1,626,518; Apr. 26.
- Dougllass, Samuel E., Raleigh, N. C. Toothbrush. 1,620,330; Mar. 8.
- Dougllass, Thomas L., and L. F. Bell, Orange Cove, Calif. Beach-cutting saw. 1,649,950; Nov. 22.
- Dougllass, William A., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentrating ores and minerals by flotation. 1,652,099; Dec. 6.
- Doujak, Maria, New York, N. Y. Automobile safety attachment. 1,619,709; Mar. 1.
- Downs, Alexander, Philadelphia, Pa. Saddle seat. 1,622,448; Mar. 8.
- Down Chemical Corporation. (See Weiss, Morris L., assignor.)
- Dovel, James P., Birmingham, Ala. Pig-breaking machine. 1,622,029; Mar. 22.
- Dover, Delmar S. (See Dover, George W. and D. S.)
- Dover, George W., Longmeadow, R. I., assignor to The Montgomery Tool and Machinery Company. Knurling tool. 1,623,662; Apr. 5.
- Dover, George W., Longmeadow, R. I., assignor to The Montgomery Tool and Machinery Company. Tool holder. 1,648,380; Nov. 8.
- Dover, George W. and D. S., assignors to Dovercraft Company, Inc., Providence, R. I. Curtain holder. 1,652,662; Dec. 13.
- Dover, Samuel M., Chicago, Ill., assignor of one-half to F. J. Roessler, Chicago, Ill. Folding base or support. 1,642,231; Sept. 13.
- Dovercraft Company. (See Dover, George W. and D. S., assignors.)
- Dovidlaitis, Mathew, Philadelphia, Pa. Finger attachment. 1,640,491; Aug. 30.
- Dow, Alva M. (See Haskins, Arthur G., assignor.)
- Dow, Charles F., Poughkeepsie, N. Y. Pipe wrench. 1,619,604; Mar. 1.
- Dow Chemical Company, The. (See Dow, H. H., and Barstow, assignors.)
- Dow Chemical Company, The. (See Gann, John A., assignor.)
- Dow Chemical Company, The. (See Hoy, John E., assignor.)
- Dow Chemical Company, The. (See Nelson, Elving O., assignor.)
- Dow Chemical Company, The. (See Smith, A. K., and Prutton, assignors.)
- Dow, Herbert H., and E. O. Barstow, assignors to The Dow Chemical Company, Midland, Mich. Recovery of bromine. 1,614,663; Jan. 18.
- Dow, Louis F., Company. (See Vierling, F. J., and Cook, assignors.)
- Dow, Percival E. (See Bishop, B. S. T., and Dow.)
- Dowd, Andrew D., Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraph. 1,645,805; Oct. 18.
- Dowd, Raymond E., Springfield, Mass. Flying toy. 1,652,519; Dec. 13.
- Dowd, Raymond E., Ithaca, N. Y., assignor of one-fourth to W. T. Thomas. Toy airplane. 1,653,039; Dec. 20.
- Dowdell, Noble G., assignor to United Electric Co., Chicago, Ill. Radiofrequency transformer. 1,651,515; Dec. 6.
- Dowell, Jesse E. and J. F., Glendale, and M. O. Dowell, San Diego, Calif. Metal strip for window and door openings. 1,648,336; Nov. 8.
- Dowell, John F. (See Dowell, Jesse E., J. F., and M. O.)
- Dowell, John H. (See Smith, T., and Dowell.)
- Dowell, Manley O. (See Dowell, Jesse E., J. F., and M. O.)
- Dowey, Thomas L., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Synchronizing system. 1,617,991; Feb. 15.
- Dowey, Thomas L., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Synchronizing mechanism. 1,653,843; Dec. 27.
- Dowley, Jesse E., Jackson, Mich., assignor to Jackson Machine & Tool Company. Perch pulley. 1,620,084; Mar. 8.
- Dowling, Andrew J., Haverhill, Mass. Receptacle closure. 1,617,202; Feb. 8.
- Dowling, Francis J., New York, N. Y. Rotary bolt lock. 1,617,678; Feb. 15.
- Dowling, Francis J., New York, N. Y. Doorlock. 1,623,579; Apr. 5.
- Dowling, John J., Rathgar, Dublin, Ireland. Thermionic indicating means responsive to light variations. 1,631,021; May 31.
- Dowling, Joseph, Chicago, Ill. Can punch. 1,612,910; Jan. 4.
- Dowling, Thomas B. (See Raiche, P. A., Dowling, and Bride.)
- Down, Sidney G., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Motor-vehicle brake device. 1,626,670; May 3.
- Downes, Andrew, assignor to Cartier Limited, London, England. Fastening for bracelets, necklaces, and other articles of jewelry. 1,628,494; May 10.
- Downey, Harry C. (See Fish, Herbert L., assignor.)
- Dowling, Edwin J. (See Skær, A. H., and Dowling.)
- Dowling, James Y., Jackson, Miss. Dry-goods-measuring machine. 1,631,405; June 7.
- Dowling, John, New York, N. Y. Mold-form hanger. 1,615,362; Jan. 25.
- Downing, Robert H., St. Louis Park, Minn. Denture grinder. 1,652,818; Dec. 13.
- Downs, Charles F., Cleveland, Ohio. Culinary apparatus. 1,632,222; May 3.
- Downs, Charles H., Yonkers, N. Y. Production of catalyst carrier. 1,636,685; July 26.
- Downs, Mary G., administratrix. (See Downs, William F., assignor.)
- Downs, Mona, Glendale, Ohio. Musical-instruction toy apparatus. 1,637,478; Aug. 2.
- Downs, William F., deceased, Chatham, N. J., M. G. Downs, administratrix. Method and apparatus for distilling liquid. 1,616,079; Feb. 15.
- Dowrie, Frank, Oakland, Calif. Brake tester. 1,639,854; Aug. 23.
- Dowse, John T., Toronto, Ontario, Canada. Woodworking machine. 1,615,575; Jan. 25.
- Dowsett, Harry M., Colchester, England, assignor to The Radio Corporation of America, New York, N. Y. Crystal detector. 1,645,523; Jan. 18.
- Dowsett, Harry M., Colchester, England, assignor to Radio Corporation of America, New York, N. Y. Crystal detector of electric currents. 1,645,523; Oct. 18.
- Dox, Arthur W., assignor to Parke, Davis & Company, Detroit, Mich. Secondary butyl allyl barbituric acid. 1,615,870; Feb. 1.
- Dox, Arthur W., Windsor, Ontario, Canada, assignor to Parke, Davis & Company, Detroit, Mich. Ethyl-normal-hexyl-barbituric acid. 1,624,546; Apr. 12.
- Doyle, Frank M., Brooklyn, N. Y. Surface condenser and method. 1,637,558; Aug. 2.
- Doyle, Frank M., Brooklyn, N. Y. Cooling tower. 1,647,281; Nov. 1.
- Doyle, James S. (See Hedley, F., and Doyle.)
- Doyle, John W., Seattle, Wash. Drill mechanism. 1,630,523; May 31.
- Doyle, John W., Seattle, Wash. Utilizing expanding air. 1,630,835; May 31.
- Doyle, Thomas, Chicago, Ill. Combination lamp and loud speaker. Des. 73,427; Sept. 13.
- Doyle, William P., Maplewood, Mo. Separable rim. 1,642,143; Sept. 13.
- Drabenstott, Glenn H., Wooster, Ohio. Parachute escape for airships. 1,626,796; May 3.
- Drebing, Henry E., Mounds, Ill. Automatic electric and air switch. 1,643,239; Sept. 20.
- Drachenberg, August T., Freeport, Tex. Sulphur mining. 1,628,873; May 17.
- Dräger, Alexander B., Lubeck, Germany. Check valve for respirating apparatus. 1,621,498; Mar. 22.
- Dräger, Alexander B., Lubeck, Germany. Protective cover for breathing apparatus. 1,635,545; July 12.
- Dräger, Alexander B., Lubeck, Germany. Carrying device or belt for breathing apparatus, particularly self-rescuing apparatus. 1,636,766; July 26.
- Dragon, Joseph, McKees Rocks, Pa. Work-handling device. 1,618,700; Feb. 22.
- Draheim, Max E., and C. E. Deming, Beaver Dam, Wis. Package tie. 1,647,398; Nov. 1.
- Draher, John, and A. J. Krieger, Waterbury, Conn. Separable fastener. 1,615,113; Jan. 13.
- Draher, John, and A. J. Krieger, Waterbury, Conn. Setting members of separable fasteners. 1,642,411; Sept. 13.

- Drake, Alden M., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Spindle attachment. 1,622,234; Mar. 22.
- Drake, Alden M., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass. Wheel-truing device. 1,638,623; Aug. 9.
- Drake, Bert E., assignor of one-half to H. D. Tracy, Rockville Center, N. Y. Display device. 1,619,658; Mar. 1.
- Drake, Charles W., assignor to the Pyle-National Company, Chicago, Ill. Hook device. 1,629,438; May 17.
- Drake, Herbert W., East Orange, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Synchronizing clocks over simplex circuits having central-battery telephone signaling. 1,646,354; Oct. 18.
- Drake, John L. (See Blackshire, L. D. and Drake).
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing apparatus. 1,626,396; Apr. 26.
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Draw-table rail. 1,634,827; July 5.
- Drake, John L., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,639,452; Aug. 16.
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Mirror. 1,653,040; Dec. 20.
- Drake, Rollin L., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Can. 1,617,992; Feb. 15.
- Drake, Rollin L., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Grease-gun cartridge. 1,642,770; Sept. 20.
- Drake, Warren C. (See Priebe, E. B., and Miner, assignors).
- Drake, Warren C., Inwood, N. Y. Furnace. 1,621,241; Mar. 15.
- Dray, John J., et al. (See Weaver, J. C., and Ames, assignors).
- Draper, Arthur F., assignor to Chrysler Corporation, Detroit, Mich. Automobile instrument panel. Des. 73,073; July 19.
- Draper, Charles H., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Sheet-metal drum. 1,649,292; Nov. 15.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Composite closure for sheet-metal containers. 1,651,342; Nov. 29.
- Draper, Clare H., Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Welt-replenishing loom. 1,613,650; Jan. 11.
- Draper, Clare H., Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Harness mechanism for looms. 1,613,651; Jan. 11.
- Draper, Clare H., Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Welt-replenishing loom. 1,621,242; Mar. 15.
- Draper, Clare H., Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Shuttle-box tension-controlling mechanism for looms. 1,639,595; Aug. 16.
- Draper, Clare H., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom. 1,654,039; Dec. 27.
- Draper Corporation. (See Brannon, Nem W., assignor.)
- Draper Corporation. (See Brown, Frederick K., assignor.)
- Draper Corporation. (See Brown, L. H., and Repass, assignors.)
- Draper Corporation. (See Burdett, Horace H., assignor.)
- Draper Corporation. (See Burnham, Edward C., assignor.)
- Draper Corporation. (See Burnham, E. C., and Davis, assignors.)
- Draper Corporation. (See Burton, Harry H., assignor.)
- Draper Corporation. (See Cunliff, Edward A., assignor.)
- Draper Corporation. (See Davis, Harry A., assignor.)
- Draper Corporation. (See Dean, Albert E., assignor.)
- Draper Corporation. (See Draper, Clare H., assignor.)
- Draper Corporation. (See Giles, John W., assignor.)
- Draper Corporation. (See Johnson, Arthur S., assignor.)
- Draper Corporation. (See Keegan, Patrick, assignor.)
- Draper Corporation. (See Kirk, John T., assignor.)
- Draper Corporation. (See La Chapelle, Adelard J., assignor.)
- Draper Corporation. (See Leonard, Harry A., assignor.)
- Draper Corporation. (See McGowan, Thomas H., sr., assignor.)
- Draper Corporation. (See McRae, George H., assignor.)
- Draper Corporation. (See Merrill, Charles E., assignor.)
- Draper Corporation. (See Miller, Joseph A., assignor.)
- Draper Corporation. (See Mintel, William F., assignor.)
- Draper Corporation. (See Moore, E. S., and Garner, assignors.)
- Draper Corporation. (See Nix, W. H., and McDaniel, assignors.)
- Draper Corporation. (See Northrop, Jonas, assignor.)
- Draper Corporation. (See Rheault, George, assignor.)
- Draper Corporation. (See Rhoades, Alonzo E., assignor.)
- Draper Corporation. (See Shaw, John P., assignor.)
- Draper Corporation. (See Skedgell, John A., assignor.)
- Draper Corporation. (See Stimpson, Wallace L., assignor.)
- Draper Corporation. (See Willard, George H., assignor.)
- Draper, Jesse F., Seattle, Wash. Butt hook. 1,653,092; Dec. 20.
- Draper, Lawrence P., Mesa, Ariz. Buck-rake attachment for tractors. 1,654,323; Dec. 27.
- Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
- Drath, Wilfred H., Butler, Pa. Method and apparatus for handling cement and bulk material. 1,634,255; July 5.
- Drauden, Artur, Brooklyn, N. Y. Toy whirlingig. 1,646,278; Oct. 18.
- Draver, Emil R., assignor of one-half to O. Draver, Richmond, Ind. Frictional window-sash holder. 1,650,011; Nov. 29.
- Draver, Orrin. (See Draver, Emil R., assignor.)
- Dravers, Louis A., Ealing, assignor to Marchal Ruchon & Company Limited, London, England. Pipe and the like for smoking tobacco. 1,652,564; Dec. 13.
- Dravo Equipment Company. (See Connelly, Bush W., assignor.)
- Draycott, William P., London, England. Manufacture of artificial silk and the like from viscose solutions. 1,626,454; Apr. 26.
- Dredge, William, Manchester, England. Baker's oven. 1,635,824; July 12.
- Dredge, William, Manchester, England. Heating oven for baking, roasting, drying, and like purposes. 1,636,504; July 19.
- Drees, Arnold E. (See Drees, Charles E. and A. E.)
- Drees, Charles E. and A. E., St. Louis, Mo. Combination lock knob. 1,651,018; Nov. 29.
- Dreesen, Jerome J. B., Jefferson, Tex. Tool. 1,633,077; Jan. 22.
- Drefahl, Louis C., Lakewood, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Distilling hydrochloric acid. 1,628,829; May 17.
- Dreffeln, Henry A., Chicago, Ill. Apparatus for producing and treating gas. 1,650,614; Nov. 29.
- Dreger, William, Kausal, N. Dak. Quack-grass digger. 1,636,043; July 19.
- Dreger, Julius, Sutter County, Calif. Article stacker. 1,617,149; Feb. 8.
- Dregge, Chas., et al. (See Glasspell, Herbert, assignor.)
- Dreher, Albert J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Timing device for centrifugal machines. 1,616,031; Feb. 1.
- Dreher, Albert J., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Norwood, Ohio. Shirt-ironing machine. 1,634,654; July 5.
- Dreher, Gustave B., Schenectady, N. Y., assignor to General Electric Company, Waterproof cementing composition. 1,631,671; June 7.
- Dreibelbis, Milton W., Leesport, Pa. Automatic air-brake coupler. 1,635,782; July 12.
- Dreibuss, Harry C., assignor to Scullin Steel Co., St. Louis, Mo. Separable journal box. 1,615,074; Jan. 18.
- Dreibuss, Harry C., assignor, by mesne assignments, to Scullin Steel Co., St. Louis, Mo. Separable journal box. 1,636,767; July 26.
- Dreisbach, Charles A., New Haven, Conn., assignor to Dreisbach Motors Inc. Engine. 1,629,686; May 24.
- Dreisbach Motors Inc. (See Dreisbach, Charles A., assignor.)
- Drenan, James B., Portland, Oreg. Automobile body spring control apparatus. 1,632,728; June 14.
- Drenning, Percy R. (See Symington, T. H., and Drenning.)
- Drennon, William M., Anaheim, Calif. Universal bench motorstand. 1,626,923; May 3.
- Dreos, Theodore H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Bifocal lens. Re16,541; Feb. 8.
- Drees Machine Tool Company, The. (See De Roo, William C., assignor.)
- Drees Machine Tool Co., The. (See De Roo, W. C., and Larsh, assignors.)
- Dresner, Emanuel, Chicago, Ill. Fastener. 1,620,611; Mar. 8.
- Dresser, Clarence G., St. Francois, Mo., and F. S. Yontsey, Collinsville, Ill. Sampling apparatus and system. 1,641,748; Sept. 6.
- Dresser, Elmer C., Duluth, Minn. Concrete cribbing. 1,627,599; May 10.
- Dresser, S. R., Manufacturing Company. (See Clark, James, assignor.)
- Dresser, S. R., Manufacturing Company. (See Clark, J., Smith, and Meese, assignors.)
- Dressler, Conrad, assignor to American Dressler Tunnel Kils, Inc., New York, N. Y. Continuous kiln and drier. 1,627,841; May 10.
- Dressler, Conrad, assignor to American Dressler Tunnel Kils, Inc., Cleveland, Ohio. Tunnel kiln. 1,646,279; Oct. 18.
- Dressler, Philip D., assignor to American Dressler Tunnel Kils, Inc., Cleveland, Ohio. Open-fire kiln. 1,651,380; Dec. 6.
- Dressler, Philip D.H., assignor to American Dressler Tunnel Kils, Inc., Cleveland, Ohio. Tunnel-kiln-heating means. 1,615,217; Jan. 25.
- Dressler, Philip D.H., assignor to American Dressler Tunnel Kils, Inc., Cleveland, Ohio. Reciprocating car kiln. 1,638,985; Aug. 16.
- Drevestedt, Amy, assignor to John Wanamaker New York, New York, N. Y. Box cover paper or similar article. Des. 72,512; Apr. 26.
- Dröw, Eric S., London, England, and A. B. S. Laidlaw, Buckhridge, Scotland. Liquid-fuel burner. 1,636,464; July 19.

- Drew, George W. (See Grant, W. C., Thomas, and Drew.)
- Drew, Harry A. (See Lazar, D. and Drew.)
- Drew, Henry J., Brunswick, J. A. H. Drew, Elsternwick, and J. F. Gardiner, Gardenvale, Victoria, assignors to Wing Clothes Peg Proprietary, Limited, Elsternwick, Australia. Clothes peg. 1,621,108; Mar. 15.
- Drew, Herbert H., assignor to Watertown Tableslide Co., Watertown, Wis. Table slide. 1,626,189; Apr. 26.
- Drew, John, Binghamton, N. Y. Milk strainer. 1,647,562; Jan. 1.
- Drew, John A. H. (See Drew, Henry J. and J. A. H., and Gardiner.)
- Drew, Paul, and L. C. Zabriskie, Ridgewood, N. J. Radio loud speaker. Des. 73,741; Nov. 1.
- Drew, Thomas, West Springfield, Mass. Dirt-ejecting vacuum cleaner. 1,633,561; June 21.
- Dreus, Henry, Otto, Tex. Choker-rig latch. 1,651,874; Dec. 8.
- Drewsen, Viggo, Brooklyn, assignor to West Virginia Pulp and Paper Company, New York, N. Y. Process and apparatus for making concentrated carbon dioxide. 1,619,336; Mar. 1.
- Drewsen, Viggo, Larchmont, N. Y., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Making magnesium and calcium pentasulphide. 1,628,311; May 10.
- Drewsen, Viggo, Brooklyn, N. Y., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Making ligno tanning material from waste sulphite liquors. 1,629,448; May 17.
- Dreux, Charles, assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Spring clutch. 1,629,098; May 17.
- Drexler, Earl J., Chicago, Ill. Pipe-line strainer. 1,640,070; Aug. 23.
- Dreyer, Bruno W., Chicago, Ill. Folding seat for window cleaning. 1,623,962; Apr. 12.
- Dreyer, Otto, Essen-on-the-Ruhr, Germany. Thermal protective device for electric circuits. 1,636,953; July 26.
- Dreyer, Otto, Essen-on-the-Ruhr, Germany. Safety device for electrical circuits. 1,647,282; Nov. 1.
- Dreyfus, Camille, Basel, Switzerland, assignor to Celanese Corporation of America. Manufacture of textiles. 1,634,613; July 5.
- Dreyfus, Henry, London, England. Manufacture of textile fabrics. 1,614,832; Jan. 18.
- Dreyfus, Henry, London, England. Manufacture of artificial textile products. 1,616,787; Feb. 8.
- Dreyfus, Henry, London, England. Manufacture of artificial threads and filaments. 1,620,636; Mar. 15.
- Dreyfus, Jesse, New York, N. Y. Hat box. 1,638,568; Aug. 9.
- Dreyfus, Walter L., San Francisco, Calif. Automatic controlling mechanism for oil burners. 1,614,918; Jan. 18.
- Drinkhahn, Louis F. (See Couchman, A., and Phillips, assignors.)
- Drinkhahn, Louis F. (See Couchman, A., Drinkhahn, and Phillips.)
- Driscoll, Bartholomew L., Watsonville, Calif. Plow. 1,630,085; Mar. 8.
- Driscoll, Ben B., assignor of one-half to S. B. Disenza, Hartford, Conn. Motor cycle support. 1,643,006; Sept. 20.
- Driscoll, Dennis L. (See Montgomery, G. A., and Driscoll.)
- Driscoll, James F., Buffalo, N. Y. Pavement. 1,653,395; Dec. 20.
- Drish, Frank W., Hollywood, Calif. Garden implement. 1,633,318; June 21.
- Drissner, Alfred E., assignor to The National Acme Company, Cleveland, Ohio. Metal-working machine. 1,618,583; Feb. 22.
- Dri-Steam Valve Corporation. (See Pascale, Pasquale, assignor.)
- Dritz, Arthur M., New York, N. Y. Racket string. 1,624,720; Apr. 12.
- Dritz, Arthur M., New York, N. Y. Amusement device. 1,639,596; Aug. 16.
- Driver, William, assignor to Hamilton Beach Mfg. Co., Racine, Wis. Motor controller. 1,644,820; Oct. 11.
- Droma, Karl, Portland, Ore. Radiator cover. 1,630,829; May 31.
- Droge, William H., Detroit, Mich. Dice shaking or throwing device. 1,627,492; May 3.
- Drohan, Francis P., Jacksonville, Fla. Tube holder and paste ejector. 1,620,955; Mar. 15.
- Drohan, Francis P., Jacksonville, Fla. Light. 1,622,187; Mar. 22.
- Drohn, James L., Dunkirk, N. Y. Vehicle curtain. 1,627,297; July 26.
- Droitcour, Michael A., Providence, R. I. Method and mechanism for delivering and stacking sheets. 1,625,642; Apr. 19.
- Drolshammer, Ivar O. G., Hamar, Norway. Brake valve. 1,653,842; Dec. 27.
- Dromgold, Loy S. (See Glenn, H. A., and Dromgold.)
- Drouin, Joseph A., Williamantic, Conn. Automobile door latch. 1,652,616; Dec. 13.
- Druck, Herman, Brooklyn, N. Y. Mechanical toy book. 1,640,399; Aug. 30.
- Drucker, Julius. (See Lueg, P., Drucker, and Thiene.)
- Drucklieb, Jeanne L., New York, N. Y. Automobile radiator cap ornament or similar article. Des. 74,003; Dec. 6.
- Drucklieb, Jeanne L., New York, N. Y. Candlestick or similar article of manufacture. Des. 74,103; Dec. 20.
- Druff, Ernest, Birmingham, England. Stopper or closure member for containers. 1,614,236; Jan. 11.
- Drumbeller, William P., Springfield, assignor to The William Carter Company, Needham Heights, Mass. Yarn-control mechanism. 1,636,409; July 19.
- Drumm, Charles F., and E. R. Gurney, assignors to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,616,613; May 3.
- Drummond, Henry E. M., Frankton Junction, New Zealand. Grease and oil pump for motor cars and machinery. 1,621,109; Mar. 15.
- Drummond, Katherine L., assignor to T. Buettner & Co., Inc., Chicago, Ill. Footwear case. Des. 72,550; May 3.
- Drummond, Katherine L., assignor to T. Buettner & Co., Inc., Chicago, Ill. Utensil mitt. Des. 72,551; May 3.
- Drummond, Robertson P., assignor to Pacific Cast Iron Pipe & Foundry Company, Los Angeles, Calif. Composition of matter. 1,620,877; Mar. 15.
- Drummond, Thomas N., Hamilton, assignor of one-half to L. B. Maunsell, Edridge, Masterton, New Zealand. Ring member for milking-machine teat-cup inflections. 1,629,207; May 17.
- Drushel, William A., Grand Rapids, Mich., assignor to Haskellite Manufacturing Corporation. Insecticide. 1,630,836; May 31.
- Drushel, William A., Grand Rapids, Mich., assignor to Haskellite Manufacturing Corporation. Container for dispersing a fumigant. 1,630,837; May 31.
- Dryden, Helen, New York, N. Y. Theatrical scenery. 1,612,858; Jan. 4.
- Dryden Rubber Company. (See Brown, William H., assignor.)
- Dryden Rubber Company. (See Kintzele, Julius H., assignor.)
- Dryer, Evelyn H., assignor of one-half to G. H. Dryery, Rochester, N. Y. Reversible drier. 1,630,838; May 31.
- Dryer, Gerald H. (See Dryer, Beulah H., assignor.)
- Dry Ice Corporation of America. (See Campbell, Robert B., assignor.)
- Dry Ice Corporation of America. (See Josephson, Walter S., assignor.)
- Drying Systems, Inc. (See Bolling, John E., assignor.)
- Drying Systems, Inc. (See Cron, Walter B., assignor.)
- Drying Systems, Inc. (See Szekely, Ernest, assignor.)
- Dry-Zero Corporation. (See Lindsay, Harvey B., assignor.)
- Dual Oil Burner, Inc. (See Swartz, H., and Mulligan, assignors.)
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Treating petroleum and other hydrocarbons. 1,627,159; May 3.
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbon oils. 1,628,127; May 10.
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for converting oils. 1,628,236; May 10.
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbons. 1,638,112; Aug. 9.
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Cracking oils. 1,638,113; Aug. 9.
- Dubbs, Carbon P., Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill. Converting petroleum oils. 1,652,166; Dec. 13.
- Dubbs, Carbon P., Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbon oils. 1,652,167; Dec. 13.
- Dube, Hector, and R. X. Dupuis, Manchester, N. H. License-plate holder. 1,653,497; Dec. 20.
- Dübelwerke G. m. b. H. (See Rüping, Max, assignor.)
- Dubilier Condenser Corporation. (See Aull, Wilson Jr., assignor.)
- Dubilier Condenser Corporation. (See Capicotto, James V., assignor.)
- Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
- Dubilier Condenser Corporation. (See Fried, Joseph A., assignor.)
- Dubilier Condenser Corporation. (See Nyman, Alexander, assignor.)
- Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)
- Dubilier Condenser Corporation. (See Warren, Joseph A., assignor.)
- Dubilier Condenser Corporation. (See Warren, Robert M., assignor.)
- Dubilier, William. (See Mountford, William S., assignor.)
- Dubilier, William, New York, N. Y. Method and apparatus for interrupting electrical circuits. 1,623,531; Apr. 5.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation, Electrical structure. 1,628,827; May 10.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Condenser. 1,639,597; Aug. 16.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. High-potential condenser. 1,639,650; Aug. 23.

- Dubilier, William, New York, N. Y., assignor to Duublier Condenser Corporation. Variable condenser. 1,646,236; Oct. 18.
- Dubilier, William, New York, N. Y., assignor to Duublier Condenser Corporation. Insulating structure for high-potential condenser terminals and the like. 1,650,983; Nov. 29.
- Dubilier, William, New Rochelle, assignor to Duublier Condenser Corporation, New York, N. Y. Electrical condenser. 1,627,493; May 3.
- Dubin, Harry E. (See Funk, C. and Dubin.)
- Dubin, Harry E., assignor, by mesne assignments, to H. A. Metz Laboratories, Inc., New York, N. Y. Edible fat composition. 1,624,164; Apr. 12.
- Dubin, Harry E., and H. B. Corbitt, assignors, by mesne assignments, to H. A. Metz Laboratories, Inc., New York, N. Y. Making a hypoglycemia-producing substance and product. 1,653,452; Dec. 20.
- Du Bois, Harry D., West Orange, N. J., assignor to Louis Wolf & Co. Inc., New York, N. Y. Musical doll. 1,621,157; Mar. 15.
- Du Bois-Reymond, Alard. (See Rudolph, W., and du Bois-Reymond.)
- Du Bois-Reymond, Alard, Plon, near Kiel, Prussia, assignor to the Firm Signal Gesellschaft m. b. H. Kiel, Germany. Sound apparatus. 1,610,538; Aug. 30.
- Du Bois, Virgil L. (See Moody, J. F., and Du Bois.)
- Dubost, Michel, Paris, France, assignor to F. Ducharme Silk Co. Inc., New York, N. Y. Textile fabric. Des. 72,475; Apr. 19.
- Du Breuil, Winfield R., Elmhurst, Ill. Headlight. 1,635,116; July 5.
- Dubuc, Louis M. C. A., Toulouse, assignor to B. Sirven, Paris, France. Printing machine. 1,652,470; Dec. 13.
- Duchard, Henri M. (See Eeles, F. H., and Duchard.)
- Ducharme, F., Silk Co. Inc. (See Dubost, Michel, assignor.)
- Duchateau, Jean I., St. Omer, France. Elastic wheel. 1,638,583; May 1.
- Duchatel, Emile E. H. (See Mestre, C. A., and Duchatel.)
- Duchemin, George W., Newark, N. J. Lathe. 1,630,333; May 31.
- Duchemin, Howard A., Los Angeles, Calif. Building hollow-wall constructions. 1,619,570; Mar. 1.
- Ducheneu, Alfred P., Winslow, Me. Shoe heel. 1,645,187; Oct. 11.
- Duchesne, Ernest, Schenectady, N. Y., assignor to Landis Machine Company, Waynesboro, Pa. Cutting threads. 1,647,037; Oct. 25.
- Duck, Lawrence, Company. (See Flett, William, assignor.)
- Duckwall, Esther M. (See Signer, M., and Duckwall.)
- Duckworth, Chain & Manufacturing Company. (See Boutin, Stanley, assignor.)
- Duckworth, Harold, et al. (See Boutin, Stanley, assignor.)
- Duckworth, Joseph J., assignor of fifty-two per cent to T. O. Duckworth, Salt Lake City, Utah. Lifting device. 1,638,090; Aug. 9.
- Duckworth, T. O. (See Duckworth, Joseph J., assignor.)
- Duchaux, Jacques, Paris, France. Clarification of beverages. 1,619,016; Mar. 1.
- Ducondu, Paul, Montreal, Quebec, Canada. Loading and unloading device for vehicles. 1,630,473; May 31.
- Dudas, Andrew, and A. P. Wasil, Homestead, Pa. Safety pin with bayonet point. 1,623,533; Apr. 5.
- Dudas, Michael M., Chicago, Ill. Door latch. 1,629,379; May 17.
- Dudley, Benjamin B., Visalia, and E. R. Dudley, Piedmont, Calif. Collapsing oil drill. 1,625,247; Apr. 19.
- Dudley, Colon J., Hamburg, and M. H. Holmwood, Orchard Park, N. Y. Basket-cover fastener. 1,651,381; Dec. 6.
- Dudley, Edward B. (See Dudley, Benjamin B. and E. R.)
- Dudley, Frank R. (See Proctor, W. G., and Dudley.)
- Dudley, Frank R., Fitchburg, Mass. Pump attachment. 1,617,017; Feb. 8.
- Dudley, George E., Roseville, Calif. Vehicle wheel. 1,653,348; Dec. 20.
- Dudley, James G., New York, N. Y. Awning casement window. 1,633,375; June 21.
- Dudley, Samuel W., New Haven, Conn., and C. S. Bushnell, assignors to General Railway Signal Company, Rochester, N. Y. Brake-applying apparatus. 1,628,312; May 10.
- Dudley, William A., and K. B. Duerr, Brooklyn, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y. Multiplex-channel repeater system. 1,617,993; Feb. 13.
- Ducker, Charles, Fort Dodge, Iowa. Clearing device for corn-snapping mechanisms. 1,627,021; May 3.
- Duerden, Samuel. (See Robertson, J. K., and Duerden.)
- Duerr, Karl B. (See Dudley, W. A., and Duerr.)
- Dufay, Louis, Versailles, France. Photographic printing in colors. 1,631,524; June 7.
- Duff, Leo P., Los Angeles, Calif. Blade holder. 1,619,249; Mar. 1.
- Duff Manufacturing Company, The. (See Schwerin, Frank H., assignor.)
- Duff, Samuel E. (See Heine, Albert W., assignor.)
- Duffie, Allen M., assignor to W. H. Robinson, Buffalo, N. Y. Electric heater. 1,625,989; Apr. 26.
- Duffield, George B., assignor to Detroit Lubricator Company, Detroit, Mich. Valve-operating device. 1,629,449; May 17.
- Duffield, William S., Hamilton, Ontario, Canada. Instep-arch supporter. 1,626,725; May 3.
- Duffin, James R., Louisville, Ky. Self-serving store. 1,633,886; June 28.
- Duffing, George, Hamburg, Germany. Lubricating device for axle bearings. 1,641,417; Sept. 6.
- Duffner, Leonard J., Lynchburg, Va. Union suit. 1,629,687; May 24.
- Dufford, Herbert, Butler, Pa. Rail anchor. 1,654,458; Dec. 27.
- Duffy, Edward E., San Antonio, Tex. Antifriction draw-bar support. 1,628,356; May 10.
- Duffy, James J., Memphis, Tenn. Gate valve. 1,643,063; Sept. 20.
- Duffy, James T., San Antonio, Tex. Pressure gauge. 1,616,032; Feb. 1.
- Duffy, James W., Maywood, Ill. Automobile bumper. 1,647,611; Nov. 1.
- Duffy, Patrick J., Holyoke, Mass. Pliers. 1,626,274; Apr. 26.
- Duffy, Ralph E., et al. (See Underwood, Walter O., assignor.)
- Dugan, Thomas, Grand Island, Nebr. Vaporizer. 1,649,392; Nov. 15.
- Duffy, William J. (See Gilday, F., and Duffy.)
- Dufresne, Oliver J. (See Marsh, L., and Dufresne.)
- Dufwa, Frederick W., Mexico, Mexico. Internal-combustion engine. 1,639,217; Aug. 16.
- Dugan, Hugh G., Hinsdale, Ill. Clothes-washing apparatus. 1,626,397; Apr. 26.
- Dugan, Lonie, Midland, Ark. Stove. 1,617,046; Feb. 8.
- Dugan, Thomas, Wichita, Kans., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Straw spreader. 1,625,353; Apr. 19.
- Dugway, Eugene, Tacoma, Wash. Grain door. 1,628,958; May 17.
- Dugan, Richard W., Dickens, Nebr. Hay sweep. 1,652,350; Dec. 13.
- Duggins, Charles F., Richmond, Va. Radiator cover. 1,624,042; Apr. 12.
- Du Grenier, Arthur H., Haverhill, Mass., assignor to Remington Arms Company, Inc. Vending machine. 1,648,476; Nov. 8.
- Duhamel, Francois X. A., Ottawa, Ontario, Canada. Camera. 1,623,534; Apr. 5.
- Duisberg, Walter, Leverkusen, near Cologne, W. Henrich, L. Zeh, and J. Huismann, Wiesdorf, near Cologne, Germany, assignors to Grassell Dyestuff Corporation, New York, N. Y. Omega-aminoalkyl-amino-naphthalenes. 1,633,929; June 28.
- Duisberg, Walter, Leverkusen, near Cologne, W. Henrich and L. Zeh, Wiesdorf, near Cologne, Germany, assignors to Grassell Dyestuff Corporation, New York, N. Y. Azo esters of nitro amino benzene sulphonic acids. 1,646,755; Oct. 25.
- Duisburger-Kupferhuetten. (See Mattenklodt, K., and Schramm, assignors.)
- Duke, Charles A., New York, N. Y. Knockdown stand. 1,624,721; Apr. 12.
- Duke, Charles A., New York, N. Y. Knockdown stand. 1,624,722; Apr. 12.
- Duke, Harold H., Rockdale, Sydney, Australia. Article of manufacture suitable for floor covering. 1,642,845; Sept. 20.
- Duke, Harold H., Rockdale, Sydney, assignor of one-half to J. Harris, Brighton le Sands, New South Wales, Australia. Road-paving block. 1,642,846; Sept. 20.
- Dulany, George W., Jr. (See Page, C. B., and Burton, assignors.)
- Duley, Harley H., Chicago, Ill. Detectors. 1,633,930; June 28.
- Dulzo, Edward W., assignor to All-American Radio Corporation, Chicago, Ill. Radio loud speaker. Des. 71,784; Jan. 17.
- Dumars, Horace, New Suffolk, and W. S. Bowen, New York, assignors to Bowen-Dumars Power Corporation, New York, N. Y. Gas separation. 1,622,134; Mar. 22.
- Dumas, Georges, assignor to The Société Anonyme des Chaux et Ciments de Lafarge et du Teil, Viviers, Ardeche, France. Manufacture of fused cement and apparatus therefor. 1,615,260; Jan. 25.
- Du Mazuel, Edmond G., New York, N. Y., assignor to Kae-So Kitch-E-Mon-E-Too So-Ne-Ah Limited. Breach-like bearing. 1,615,810; Jan. 25.
- Dumblough, Harold P., Cleveland, assignor to The Republic Rubber Corporation, Youngstown, Ohio. Apparatus for and process of making tires. 1,636,595; July 19.
- Dumke, Willy, assignor to High Frequency Laboratories, Chicago, Ill. Transformer and mounting therefor. 1,647,612; Nov. 1.
- Dumm, Clifford S., Winnemucca, Nev. Measuring and cutting apparatus. 1,647,689; Nov. 1.
- Dumond, Edmond J. E., Paris, France. Purifying, enriching, or refining crude graphite. 1,614,352; Jan. 11.
- Dumont, Guillaume, Esneux, near Liège, Belgium. Electric switch. 1,613,446; Jan. 4.
- Dumont, Joseph, Gardner, Mass. Double carving cutter. 1,630,173; May 24.
- Dumont, Joseph R., assignor to M. F. Dumont, Kansas City, Mo. Directory rack. 1,614,799; Jan. 18.

- Dumont, Margaret, Waco, Tex. Cabinet. 1,636,738; July 26.
- Dumont, Maude F. (See Dumont, Joseph R., assignor.)
- Dunaime, Georges, Paris, France, assignor to Cheramy, Inc., New York, N. Y. Bottle. Des. 73,428; Sept. 13.
- Dunaway, Clarence, assignor to Hopedale Manufacturing Company, Milford, Mass. Protector mechanism for looms. 1,648,261; Nov. 8.
- Dunaway, J. H., et al. (See Dougherty, Charles T., assignor.)
- Dunbar, Alexander G., Glasgow, Scotland. Piston. 1,637,987; Aug. 2.
- Dunbar, Calvin D., Buckeye, Tex. Lamp extinguisher. 1,641,254; Sept. 6.
- Dunbar, Ernest W., Hudson, and H. Westling, Boston, assignors to Cambridge Rubber Company, Cambridge, Mass. Manufacturing rubber shoes. 1,641,128; Aug. 30.
- Dunbar, Francis F. (See Holcombe, J. R., and Dunbar.)
- Dunbar, Francis W., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Co. Telephone system. 1,623,336; Apr. 6.
- Dunbar, Francis W., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. 1,623,337; Apr. 5.
- Dunbar, Frank H. (See Allen, Frank B., assignor.)
- Dunbar, Frank H., Cleveland, Ohio. Ash gate. 1,630,378; May 31.
- Dunbar, Thomas, Pittsburgh, Pa. Power-transmission mechanism. 1,652,819; Dec. 13.
- Dunbar, Thomas, assignor to Stebbins Engineering and Manufacturing Company, Watertown, N. Y. Method and apparatus for treating fibrous materials. 1,646,084; Oct. 18.
- Dunbaugh, George J., jr., assignor to Champion Manufacturing Company, Chicago, Ill. Liquid-level gauge. 1,654,384; Mar. 22.
- Dunn, Arthur L., Oakland, Calif. Removing the pit from and bisecting single-stone fruit. 1,653,552; Dec. 20.
- Duncan, Charles H., assignor of one-third to F. C. Richardson and one-third to W. F. Johnson, Erie, Pa. Valve. 1,645,900; Oct. 18.
- Duncan, Daniel E., Far Rockaway, N. Y., assignor of one-half to J. M. McDonnell, San Francisco, Calif. Vehicle spring. 1,635,360; July 12.
- Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)
- Duncan, Floyd E., Escondido, Calif. Ditching plow. 1,620,250; Mar. 3.
- Duncan, George W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Welding tool. 1,639,688; Aug. 23.
- Duncan, J. W., et al. (See Thompson, William H., assignor.)
- Duncan, James H., and S. Rogow, New York, N. Y. Concrete joist floor forms. 1,616,846; Feb. 8.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. 1,613,355; Jan. 4.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing machine. 1,623,396; Apr. 5.
- Duncan, Joseph S., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing device. 1,654,040; Dec. 27.
- Duncan, Joseph S., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing device. 1,654,041; Dec. 27.
- Duncan, Joseph S., and H. E. Hubbard, assignors to Addressograph Company, Chicago, Ill. Ribbon spool. 1,638,989; Aug. 16.
- Duncan, Robert D., jr., Bronxville, assignor to Wired Radio, Inc., New York, N. Y. Wired radio broadcasting system. 1,622,135; Mar. 22.
- Duncan, Robert D., jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Polyphase high-frequency-current generator. 1,643,405; Sept. 27.
- Duncan, William, Los Angeles, Calif. Facial massage device. 1,635,744; July 12.
- Duncan, William M., Alton, Ill. Chain grate. 1,613,316; Jan. 4.
- Duncan, William M., Alton, Ill. Mechanical stoker. 1,625,077; Apr. 19.
- Duncan, William M., Alton, Ill. Mechanical stoker. 1,625,078; Apr. 19.
- Duncan, William M., Alton, Ill. Mechanical stoker. 1,625,079; Apr. 19.
- Duncanson, Walter E., assignor to The J. G. Wilson Corporation, New York, N. Y. Automatic fire shutter. 1,617,438; Feb. 15.
- Duncanson, Walter E., assignor to The J. G. Wilson Corporation, New York, N. Y. Fire shutter. 1,617,439; Feb. 15.
- Duncanson, Walter E., assignor to The J. G. Wilson Corporation, New York, N. Y. Automatic fire-shutter mechanism. 1,617,440; Feb. 15.
- Duncanson, Walter E., assignor to The J. G. Wilson Corporation, New York, N. Y. Venetian blind. 1,630,114; May 24.
- Duncanson, Walter E., assignor to The J. G. Wilson Corporation, New York, N. Y. Blind or awning construction. 1,645,947; Oct. 18.
- Duncombe, Charles M. (See Harris, Charles J., assignor.)
- Dundas, James W., Detroit, Mich. Auxiliary lifting arrangement for aeroplanes. 1,633,006; June 21.
- Dundon, John H. (See Farragher, J., and Dundon.)
- Dunham, A. H., et al. (See Rysstedt, Ingemar K., assignor.)
- Dunham, Bert G., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,619,250; Mar. 1.
- Dunham, Bert G., Hawthorne, and W. T. Haines, Mountain Lakes, N. J.; said Haines assignor to American Telephone and Telegraph Company and said Dunham assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,620,012; Mar. 8.
- Dunham, C. A., Company. (See Dunham, Clayton A., assignor.)
- Dunham, Charles E., Los Angeles, Calif. Waste-pipe tool. 1,643,638; Sept. 27.
- Dunham, Charles W., Wilkesburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric signal. 1,647,858; Nov. 1.
- Dunham, Clayton A., Glencoe, assignor to Dunhameter Corporation, Chicago, Ill. Temperature indicator for automobiles. 1,613,745; Jan. 11.
- Dunham, Clayton A., Glencoe, assignor to Dunhameter Corporation, Chicago, Ill. Temperature indicator for engines. 1,614,919; Jan. 18.
- Dunham, Clayton A., Glencoe, Ill., assignor to C. A. Dunham Company, Marshalltown, Iowa. Heating by steam. 1,644,114; Oct. 4.
- Dunham Company, The. (See Dickinson, Harry S., assignor.)
- Dunham Company, The. (See Dunham, Wiley J. and R. E., assignor.)
- Dunham, Franklin G., Brooklyn, N. Y., assignor to The Aeolian Company. Music roll for automatic pianos and the like. 1,652,003; Dec. 6.
- Dunham, Henry V., Bainbridge, N. Y. Adhesive and making same. 1,653,551; Dec. 20.
- Dunham, Ray E. (See Dunham, Wiley J. and R. E.)
- Dunham, Wiley J. and R. E., assignors to The Dunham Company, Berea, Ohio. Tillage implement. 1,653,349; Dec. 20.
- Dunham, William G., assignor to Weber Electric Company, Schenectady, N. Y. Chain pendant. Des. 74,050; Dec. 13.
- Dunhameter Corporation. (See Dunham, Clayton A., assignor.)
- Dunkel, Phillip A., Denver, Colo. Resilient vehicle wheel. 1,638,801; Aug. 9.
- Dunkelsberg, Louis, Brooklyn, N. Y. Spectacle frame. Des. 71,864; Jan. 18.
- Dunkelsberg, Louis, New York, N. Y. Eyeglass frame. Des. 73,900; Nov. 22.
- Dunlap, Bernard M., Rockford, Ill., assignor to H. L. Fischer, St. Paul, Minn. Writing pad. 1,631,192; June 7.
- Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Paper tube. 1,634,492; July 5.
- Dunlap, Frederick L., Chicago, Ill., and N. T. Ewer, Swarthmore, Pa., assignors to Amdyco Corporation, New York, N. Y. Fire-extinguishing composition. 1,624,398; Apr. 12.
- Dunlap, Harley M., deceased, and D. M. Putnam, Battle Creek, Mich.; R. S. Dunlap, executrix. Air compressor. 1,638,114; Aug. 9.
- Dunlap, James E., and E. M. Horn, Wichita Falls, Tex. Single control means for steam-engine supply valves and reverse levers. 1,647,859; Nov. 1.
- Dunlap, John W., Modesto, Calif. Direction-signal casing. Des. 72,476; Apr. 19.
- Dunlap, Ralph S., Chicago, Ill. Saucepan. 1,623,397; Apr. 5.
- Dunlap, Rhoda S., executrix. (See Dunlap, H. M., and Putnam.)
- Dunleavy, John J. (See Daugert, P., Frey, and Dunleavy.)
- Dunlop, James, assignor to Kaestner & Hecht Company, Chicago, Ill. Elevator. 1,619,405; Mar. 1.
- Dunlop, James, Chicago, Ill., and J. F. Clancy, East Troy, Wis., assignors to Kaestner & Hecht Company, Chicago, Ill. Floor selector for elevators. 1,627,320; May 3.
- Dunlop Rubber Company, Limited. (See Macbeth, Colin, assignor.)
- Dunlop Rubber Company, The. (See Paul, Wallace H., assignor.)
- Dunlop Rubber Company Limited. (See Penfold, Albert E., assignor.)
- Dunlop Tire and Rubber Corporation. (See Young, H. C., and Burr, assignors.)
- Dunlop Tire and Rubber Corporation of America. (See Dalglish, John, assignor.)
- Dunlop Tire and Rubber Corporation of America. (See Macbeth, C., and Dexter, assignors.)
- Dunlop Tire and Rubber Corporation of America. (See Willshaw, Harry, assignor.)
- Dunlop, William, New York, N. Y. Dental chuck. 1,626,519; Apr. 26.
- Dunmire, Russell P., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit box. 1,647,511; Nov. 1.
- Dunmore, Francis W., Washington, D. C. Signal-receiving system. 1,635,117; July 5.

- Dunn, Digby S., Kew, Melbourne, Victoria, Australia. Apparatus for measuring and dispensing lubricating oils and other liquids. 1,617,748; Feb. 15.
- Dunn, Edward L. (See Lindquist, D. L., Dunn, and Larsson.)
- Dunn, Frank J., Elmira, N. Y. Filing cabinet. 1,628,128; May 10.
- Dunn, Gertrude E., et al., executrices. (See Garber, D. H.)
- Dunn, J. Struthers. (See Trent, Harold E., assignor.)
- Dunn, James P., San Francisco, Calif. Shoe-shining cabinet. 1,624,480; Apr. 12.
- Dunn, John T., North Attleboro, Mass. Flexible shafting. 1,622,772; Mar. 29.
- Dunn, Lorraine, assignor to G. O. Jarvis, San Francisco, Calif. Electrotherapeutic apparatus. 1,647,512; Nov. 1. Dunn Manufacturing Company. (See Grant, John, assignor.)
- Dunn Manufacturing Company. (See Rick, Edward L., assignor.)
- Dunn, Patrick P., and G. Shoenfeld, Great Falls, Mont. Typewriter-key remover. 1,623,912; Apr. 5.
- Dunn Road Machinery Company. (See Rathmell, John M., assignor.)
- Dunn, Walter D. (See Bergonzoni, Joseph E., assignor.)
- Dunn, William G., Clarinda, Iowa. Condenser control for radios. 1,613,088; Jan. 4.
- Dunn, William G., Clarinda, Iowa. Vehicle inclosure heating and ventilating means. 1,622,498; Mar. 29.
- Dunn, William G., Clarinda, Iowa. Controlling means for radio sets. 1,622,499; Mar. 29.
- Dunn, William G., Clarinda, Iowa. Valve silencer. 1,650,823; Nov. 29.
- Dunn, William L. (See Mauney, W. C., and Dunn.)
- Dunn, William L., sr., Martinsburg, W. Va. Snubber for automobiles. 1,651,679; Dec. 6.
- Dunn, Winslow W., Jr., St. Paul, Minn. Electric-light shade. Des. 73,371; Aug. 30.
- Dunnagan, Albert L., Waco, Tex., assignor to D. Deutch, New York, N. Y. Insect destroyer. 1,624,321; Apr. 12.
- Dunne, William H., Toronto, Ontario, Canada. Holding device. 1,629,488; May 24.
- Dunnegan, Edward E., Pine Bluff, Ark. Toy gun. 1,652,892; Dec. 13.
- Dunning, Carroll D., Los Angeles, Calif. Producing composite photographs. 1,613,163; Jan. 4.
- Dunning, Duncan, Berkeley, Calif., assignor to the Government and the People of the United States. Measuring instrument. 1,653,892; Dec. 27.
- Dunning, Elmer D., Philadelphia, Pa. Pump. 1,652,565; Dec. 13.
- Duplex Engine Governor Company. (See Douglas, Theodore, assignor.)
- Dupont, Paul C. (See Hamilton, William J., assignor.)
- Dunning, William E., and J. Bachofen, assignors to The McCaskey Register Company, Alliance, Ohio. Adding machine. 1,629,615; May 24.
- Dunnoch, John L., and C. R. Nixon, Baltimore, Md. Apparatus for removing waste glass from blowpipes. 1,623,581; Apr. 5.
- Dunston, Wayne E., Kalamazoo, assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,613,695; Jan. 11.
- Dunston, Wayne E., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,623,398; Apr. 5.
- Dunton, Charles J. (See Marsh, H. E., and Dunten.)
- Dunterman, John. (See Callaghan, W., Cummings, and Dunterman.)
- Dunwoody, Henry H. C., Washington, D. C. Telephone transmitter. 1,638,188; Aug. 9.
- Dunzweller, Carl J., assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage-battery container. 1,639,492; Aug. 16.
- Dunzweller, Carl J., and M. W. Severance, assignors to Willard Storage Battery Company, Cleveland, Ohio. Storage-battery container. 1,634,284; July 5.
- Duo-Run Reversible Window Company. (See Whipps George, L., assignor.)
- Du Paul, George H., Southbridge, Mass., assignor to Shur-On Standard Optical Company, Inc., Geneva, N. Y. Ophthalmic mounting. 1,625,885; Apr. 26.
- Duplan, Francis, Arcueil, France. Distillation and carbonization retort and operating the same. 1,618,865; Feb. 22.
- Dupler, Raymond E., Toledo, Ohio. Plowing device. 1,642,144; Sept. 13.
- Duplex Dilator Corporation. (See Newton, Frank H., assignor.)
- Duplex Electric Company. (See Williams, John P., assignor.)
- Duplex Engine Governor Company. (See Douglas, Theodore, assignor.)
- Duplex Motor Company. (See Nordwick, Henry A., assignor.)
- Duplex Motor Company. (See Nordwick, H. A., and Marchetti, assignor.)
- Duplex Motion Picture Industries, Inc. (See Badgley, Gerald J., assignor.)
- Duplex Printing Press Company. (See Bechman, Henry P., assignor.)
- Duplex Transmission Company. (See Stumpenhorst, John A., assignor.)
- Du Pont Cellophane Company. (See Webster, Paul F., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bergelme, Frank H., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bishop, Oakley M., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Booge, James E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bradner, Donald B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bridge, water, E. R., and Powers, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Burke, Charles E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., Hitch, and Mahr, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Calcott, W., and English, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Caswell, R. G., and Marshall, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Clewell, John H., Jr., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Daudt, W. F., Parles, and Calcott, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Dinwiddle, Joseph G., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Douglass, William A., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Elley, Harold W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Elley, H. W., and Powers, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Elley, Harold W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Engelmann, Max, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Engelmann, M., and Albright, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Essex, H., and Ward, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Flaherty, Edmund M., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Gibbs, H. D., and Frederick, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Haon, H. J., and Boice, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Jacobs, Charles B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Kessler, Johannes M., assignor.)
- Du Pont, E. I., de Nemours & Co. (See Lawrie, James W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Mauss, Walter A., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Marshall, John, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Monroe, Kenneth P., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Moran, Robert C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See O'Barr, Thomas A., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Pitman, Earle C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Pratt, L. S., Weltz, and Mills, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Reid, E. E., and Schwartz, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Sachs, John H., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Schanche, Herman G., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Schwartz, George L., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Scott, Winfield, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Sherts, James H., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Smith, Carroll C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Spotswood, J. B., and Gulick, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Steers, Newton E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Taylor, G. B., and Richardson, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Thomson, Norman W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Varnes, S. K., assignor.)
- Du Pont, Ernest. (See du Pont, Francis I. and E.)
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Liquid-vending device. 1,638,189; Aug. 9.
- Du Pont, Francis I. and E., assignors to U. S. F. Powder Company, Wilmington, Del. Making a smokeless explosive powder. 1,627,638; May 10.
- Du Pont, Francis I. and E., assignors to U. S. F. Powder Company, Wilmington, Del. Flashless cannon powder. 1,627,639; May 10.
- Du Pont, Francis I. and E., assignors, by mesne assignments, to U. S. F. Powder Company, Wilmington, Del. Smokeless explosive powder and making same. 1,627,691; May 10.

- Du Pont, Francis I. and E., assignors, by mesne assignments, to U. S. F. Powder Company, Wilmington, Del. Smokeless explosive powder and making same. 1,627,692; May 10.
- Du Pont, Francis I. and E., assignors, by mesne assignments, to U. S. F. Powder Company, Wilmington, Del. Smokeless explosive powder and making same. 1,627,693; May 10.
- Du Pont, Francis I. and E., assignors to U. S. F. Powder Company, Wilmington, Del. Smokeless explosive powder. 1,627,694; May 10.
- Dupont, Georges H., Bordeaux, France. Purification of abietic acid. 1,628,535; May 10.
- Dupont, Lucien. (See Darrasse, Léon and E., and Dupont.)
- Du Pont Viscoid Company. (See Burke, Charles E., assignor.)
- Du Pont Viscoid Company. (See Donaldson, Alfred S., assignor.)
- Dupont Viscoid Company. (See Person, Earl R., assignor.)
- Dupré, Wilfred, Worcester, Mass. Reversible broom. 1,631,253; June 4.
- Duprey, Louis J., Dorchester, assignor of one-half to H. S. James, Brookline, Mass. Massage vibrator. 1,630,115; May 24.
- Durand, Henry, Manchester, N. H. Game. 1,615,218; Jan. 25.
- Dupuis, René X. (See Dube, H., and Dupuis.)
- Dupuy, Arthur O., Cleveland, Ohio, assignor to Lancaster Iron Works, Inc., Lancaster, Pa. Brickmaking machinery. 1,627,079; May 3.
- Dupuy, John W., assignor to The Cleveland Co-Operative Store Company, Cleveland, Ohio. Mounting for a closure member. 1,615,937; Feb. 1.
- Duquenne, Camille, Paris, France. Steam generator. 1,624,481; Apr. 12.
- Dura Company, The. (See Buggie, Horace H., assignor.)
- Dura Company, The. (See Cook, Everett J., assignor.)
- Dura Company, The. (See Graff, George, assignor.)
- Dura Company, The. (See Nicholson, Stanley W., assignor.)
- Dura Company, The. (See Nicholson, Stanley W., assignor.)
- Durable Floor Corporation. (See Boelkow, F. E., and Listing, assignors.)
- Durable Knitting Mills. (See Sack, Leo S., assignor.)
- Durand, Eugène H. M. E., Paris, France. Circular-knitting machine. 1,624,482; Apr. 12.
- Durand & Huguenin S. A. (See Peterhauser, Fritz, assignor.)
- Durand & Huguenin S. A. (See Wolfram, Arthur, assignor.)
- Durand, Nelson C., Newark, assignor, by mesne assignments, to Thomas Edison, Incorporated, West Orange, N. J. Phonograph. 1,615,114; Jan. 18.
- Durand, Paul, Paris, France. Automatic weighing machine. 1,625,799; Apr. 26.
- Durand Steel Locker Company. (See Vance, Walter N., assignor.)
- Durand, Victor Jr., Vineland, N. J. Glass-molding machine. 1,616,308; Feb. 1.
- Durant, Edward. (See Schane, E. H., and Durant.)
- Durant, John D., assignor to The Schaap-Durant Control Corporation, New York, N. Y. Indicator for fuel supply tanks and the like. 1,623,832; Apr. 5.
- Durant Motors Incorporated. (See Sturt, Alfred T., assignor.)
- Durant Motors Incorporated. (See Sturt, A. T., and Pfander, assignors.)
- Durant, William C. (See Pfander, Walter F., assignor.)
- Duratex Corporation. (See Wilson, John A., assignor.)
- Durchin, Andro, Kelayres, Pa. Direction indicator. 1,632,437; June 14.
- Durdin, Augustus C., jr., assignor to Chicago Pump Company, Chicago, Ill. Centrifugal pump. 1,645,498; Oct. 11.
- Durell, Edward. (See Melanowski, Leo, assignor.)
- Durfee, Charles H. (See Szandrowsky, Anton, assignor.)
- Durgin, Edgar R., Newark, N. J., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Eyeglass and spectacle frame. 1,630,258; May 31.
- Durgin, Edgar R., Newark, N. J., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Combination metal and nonmetal spectacle and eyeglass frame. 1,640,824; Aug. 30.
- Durham, Donald. (See Stevens, Harry S., assignor.)
- Durban, Edward, jr., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Motor-driven traveling-crane mechanism. 1,615,115; Jan. 18.
- Duriron Company, The. (See Hough, Arthur, assignor.)
- Duriron Company, The. (See Jacobsen, Oystein, assignor.)
- Duriron Company, The. (See Schenck, Peirce D., assignor.)
- Durkee, Chauncey H., Bronx, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Apparatus for processing foodstuffs and the like. 1,627,770; May 10.
- Durkee, Eugene W. (See Alexanderson, Charles A., assignor.)
- Durkee, Henry E., Glastonbury, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Worm-grinding machine. 1,622,628; Mar. 29.
- Durkee, Henry E., Glastonbury, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Tap grinder. 1,624,935; Apr. 19.
- Durkin, John T., et al. (See St. Jacques, Emile J. M., assignor.)
- Durlacher, Hermann, Hamburg, assignor to the Firm: Vereinigte Celluloidwarenfabriken Gesellschaft mit beschränkter Haftung, Krefeld, Germany. Hairdressing implement. 1,654,117; Dec. 27.
- Durnell, Harold G., Bartlesville, Okla. Roller box. 1,633,520; June 21.
- Durnell, Harold G., assignor of one-half to S. T. Steel, Bartlesville, Okla. Pumping beam. 1,635,118; July 5.
- Durnerin, Suzanne, Los Angeles, Calif. Hair Curler. 1,612,911; Jan. 4.
- Duro Company, The. (See Eisenbauer, Charles P., assignor.)
- Duro Company, The. (See Nicholson, Stanley W., assignor.)
- Durr, Fritz, Munich, Germany. Internal-combustion engine. 1,633,851; June 28.
- Durr, Louis, Milwaukee, Wis. Floor sander. 1,628,129; May 10.
- Durr, Ludwig, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gas-cell protection for airships. 1,623,663; Apr. 5.
- Durr, Ludwig, assignor to the Firm: Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Auxiliary device for assembling airships. 1,651,754; Dec. 6.
- Durr, Ludwig, Bodensee, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Fin and rudder of airships. 1,651,755; Dec. 6.
- Durr, Ludwig, Friedrichshafen, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Airship. 1,620,449; Mar. 5.
- Duryea, Charles E., Philadelphia, Pa. Tractor. 1,648,298; Nov. 8.
- Duryea, William F., Hackensack, N. J. Dust cap. 1,610,710; Mar. 1.
- Duschnes, William. (See Blumenthal, R. L., and Duschnes.)
- Dutsch, Saul, Schenectady, N. Y., assignor to General Electric Company. Vacuum discharge apparatus. 1,631,672; June 7.
- Dusinberre, George B. (See Callahan, J. W., and Dusinberre.)
- Dusinberre, George B., Wellsboro, Pa. Jew's-harp. 1,651,448; Dec. 6.
- Dusseldorf Werkzeugmaschinen-Fabrik und Eisengieserei Habersang & Zinzen G. m. b. H. (See Dahmen, Josef, assignor.)
- Dustin, Blanche K. (See Sprague, Edward, jr., assignor.)
- Dustin, George E. (See Friend, O. A., and Dustin.)
- Dustin, George E., Woodcliff, N. J., assignor to American Telephone and Telegraph Company. Automatic telephone system. 1,632,025; June 14.
- Dutess Theatrical Promotion Company, The. (See Noble, Newell J., assignor.)
- Dutcher, Frank, Versailles, Pa., assignor to Standard Fuses Corporation, Boston, Mass. Railway signal torpedo. 1,631,857; June 7.
- Dutchess Bleachery, Inc. (See Tice, Merlin E., assignor.)
- Dutchess Tool Company. (See Van Houten, Frank H., assignor.)
- Duttlinger, Emil, Detroit, and H. Speyer, Dearborn, Mich. Horn. 1,645,044; Oct. 11.
- Dutton, Frederick O., jr., Yonkers, N. Y. Pane wiper. 1,647,513; Nov. 1.
- Duty Air Brake Co., The. (See Duty, Dorsey G., assignor.)
- Duty, Dorsey G., Pennsboro, assignor to The Duty Air Brake Company, Janelaw, Va. Air brake for motor vehicles. 1,629,997; Mar. 24.
- Duval, William J., assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Metal folding bed. 1,624,222; Apr. 12.
- Dux Dr. H. Company. (See Rieffert, Wilhelm, assignor.)
- Dvilsnky, Abraham, Brockton, Mass. Welded shoe and welt therefor. 1,632,768; June 14.
- Dvorak, Anton, Berwyn, assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Lighting fixture. 1,619,061; Mar. 1.
- Dvorak, Anton, Berwyn, assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Lighting fixture. 1,629,489; May 24.
- Dvorkovitz, Paul, London, England. Destructive distillation of solid carbonaceous materials. 1,627,321; May 3.
- Dwight & Lloyd Metallurgical Company. (See Hyde, Reed W., assignor.)
- Dwight & Lloyd Sintering Co. (See Knox, John, assignor.)
- Dwight, Ralph W. (See Fricke, C. A., and Dwight.)
- Dworack, Charles W., Dayton, Ohio. Self-feeding rotating lubricating system. 1,622,136; Mar. 22.
- Dworack, Charles W., Dayton, Ohio. Target-glider release mechanism. 1,650,615; Nov. 29.

- Dwork, Joseph H., Newark, N. J. Garment. 1,627,771; May 10.
- Dworkin, David. (See Greenberg, J., and Dworkin.)
- Dworkin, Harry. (See Fine, S., and Dworkin.)
- Dwyer, Arthur J., Auburn, N. Y. Device for removing putty from window sashes. 1,648,610; Nov. 8.
- Dwyer, Jerry T., Youngstown, Ohio. Game apparatus. 1,629,907; May 24.
- Dwyer, John B. (See Benham, W. T., and Dwyer.)
- Dwyer, Martin, and R. J. Boyle, Waterbury, Conn. Rivet-making machine. 1,637,107; July 26.
- Dwyer, Willard B., Bennington, Vt. Bracket hanger. 1,627,494; May 3.
- Dwyer, William C., and J. I. Mitchell, Auburn, N. Y., assignors to International Harvester Company, Chicago, Ill. Tractor harrow. 1,632,122; June 14.
- Dwyer, William S., Devon, Conn. Universal joint. 1,622,425; Mar. 29.
- Dyal Company, The. (See Lauritsen, Charles C., assignor.)
- Dyball, Edward C., Wichita Falls, Tex., assignor of one-half to O. K. Herndon, Kansas City, Mo. Oil-distilling apparatus and method. 1,646,448; Oct. 25.
- D'Yarmett, Edward C., assignor of one-half to O. K. Herndon, Kansas City, Mo. Oil distillation. 1,646,449; Oct. 25.
- Dybeck, Carl W. (See Jonsson, J., and Dybeck.)
- Dyck, Herbert F., Ness City, Kans. Gas-line coupling. 1,649,673; Nov. 15.
- Dyck, Lionel, Chicago, Ill. Internal-combustion engine. 1,627,160; May 3.
- Dyckerhoff, Adolph H., Chicago, Ill. Device for measuring the temperature of fluids. 1,613,877; Jan. 11.
- Dye, Boyde H., Tipton, Calif. Coring device. 1,629,026; May 17.
- Dye, Glen M., Minneapolis, Minn. Method and apparatus for handling photographs. 1,624,781; Apr. 12.
- Dyer, Ben B., Clarksdale, Miss. Fuel mixer for internal combustion engines. 1,614,664; Jan. 15.
- Dyer, Ben B., Clarksdale, Miss. Ball-bearing fuel mixer. 1,614,665; Jan. 18.
- Dyer, Frank L., Montclair, N. J. Talking-machine record. 1,628,658; May 17.
- Dyer, George F., Sierra Madre, Calif. Separable hinge. 1,614,584; Jan. 15.
- Dyer, Grover L., Richmond, Va. Gang-board cleat. 1,638,477; Aug. 9.
- Dyer, Harry W. (See Loughridge, Matthew H., assignor.)
- Dyer, Harry W., New York, N. Y. Child's vehicle. Des. 72,361; Apr. 5.
- Dyer, Harry W., New York, N. Y. Figure wheeled toy. 1,628,396; May 15.
- Dyer, Hugh T., Auburn, Calif. Rope clamp. 1,652,351; Dec. 13.
- Dyer, James, Winsper, Idaho. Parking check. 1,650,616; Nov. 29.
- Dyer, Joseph G., and J. C. Thomas, Parkerton, Wyo. Bull-wheel attachment. 1,621,714; Mar. 22.
- Dyer, Leonard H., New York, N. Y. Internal-combustion engine. 1,631,120; June 7.
- Dyer, Matt, Whittenburg, Tex. Sign holder. 1,634,743; July 5.
- Dyer, Orville K., assignor to Buffalo Forge Company, Buffalo, N. Y. Fan bracket or support. 1,614,190; Jan. 11.
- Dyett, James H., Brooklyn, N. Y. Luggage guard. 1,612,859; Jan. 4.
- Dyke, Darrell F., assignor to The Seng Company, Chicago, Ill. Bed davenport. 1,620,086; Mar. 8.
- Dyke, Herbert J., St. Lambert, Quebec, Canada. Railway switch. 1,626,520; Apr. 26.
- Dyke, Rhos A., Myrtle Point, Oreg. Combination square and bevel. 1,621,192; Mar. 15.
- Dykes, Bertram J., Gleadless near Sheffield, England. Calendering or ironing machine. 1,640,491; Aug. 30.
- Dykes, Hugh T., Berkeley, Calif. Wall furnace. 1,643,705; Sept. 27.
- Dykes, John L. G., Chicago, Ill. Molding and vulcanizing apparatus. 1,644,327; Oct. 2.
- Dykes, John L. G., Chicago, Ill. Process and apparatus for vulcanizing articles. 1,616,954; Feb. 8.
- Dykes, John L. G., Chicago, Ill. Boat of the canoe type. 1,618,409; Feb. 22.
- Dykes, John L. G., Chicago, Ill. Auxiliary sole for footwear. 1,637,809; Aug. 2.
- Dydrick, Didrick, Malden, Mass. Fastener. 1,654,118; Dec. 27.
- Dyresen, Didrick, Malden, Mass. Fastener. 1,654,510; Dec. 27.
- Dyson, Charles E., et al. (See Lockwood, Virgil, assignor.)
- Dyshe, Martinus. (See Roberts, G., and Dyshe.)
- Dzierzenga, Frank, Brooklyn, N. Y. Electric window-closing device. 1,637,740; Aug. 2.
- Dzuba, Wojciech, and M. Golinski, Bayonne, N. J. Utensil lifter. 1,635,119; July 5.
- Dziuk, Edmund, Detroit, Mich. Needle. 1,633,726; June 28.
- E. and T. Fairbanks and Company. (See Starr, Morton H., assignor.)
- E. H. Way Co. (See Boynton, Kinnison S., assignor.)
- Eadie, John W. (See Brown, Claude D., assignor.)
- Eagan, John S., Providence, R. I. Curtain fixture. 1,621,243; Mar. 15.
- Eagle, Henry Y., Brooklyn, assignor of one-half to A. E. Wheeler, New York, N. Y. Leaching apparatus. 1,651,680; Dec. 6.
- Eagle Lites, Inc. (See Horowitz, Julius, assignor.)
- Eagle Lock Co. (See Murphy, James J., assignor.)
- Eagle Pencil Company. (See Hanle, Benjamin W., assignor.)
- Eagle Pencil Company. (See Solinger, Leo, assignor.)
- Eagle Pencil Company. (See Stauby, John, assignor.)
- Eagle, Peter, Wallington, N. J. Hair-retaining comb. 1,642,364; Sept. 13.
- Eagle-Picher Lead Company, The. (See Schaeffer, J. A., Calbeck, and Crenshaw, assignors.)
- Eagle Wagon Works. (See Avery, Courtney C., assignor.)
- Eagles, Joseph, Kansas City, Mo., assignor to S. Kilmnick, Picher, Okla. Laundry clothes holder. 1,650,824; Nov. 29.
- Eagleshead, Frederick R., assignor to The Kawneer Company, Niles, Mich. Seat molding. 1,652,302; Dec. 13.
- Eagon, Lloyd. (See Johnson, H. B., and Eagon.)
- Eagon, Lloyd L., New York, N. Y. assignor to American Telephone and Telegraph Company. Trunk signaling system. 1,632,826; June 21.
- Eald, John R., Chicago, Ill., assignor to The Peoples Trust and Savings Bank of Chicago, trustee. Spring wheel. 1,617,441; Feb. 15.
- Eald, John R., Chicago, Ill., assignor to The Peoples Trust and Savings Bank of Chicago, trustee. Wheel. 1,617,442; Feb. 15.
- Eakin, Henry M., Seattle, Wash. Emergency brake-setting device. 1,635,825; July 12.
- Eakin, Willard D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Festooning rack. 1,624,223; Apr. 12.
- Ealy, Grover C. (See Knorre, William J., assignor.)
- Eames Company. (See Nielsen, Hans P., assignor.)
- Eanes, Hugh P., Asheville, N. C., assignor to Paramount Lumber Co., Company. Rack for holding warp threads. 1,625,715; Apr. 13.
- Earle, Baylus E., Danville, Ill. Mixer. 1,649,816; Nov. 22.
- Earle, Eldon A., Bloomfield, N. J. Device for promoting combustion. 1,637,741; Aug. 2.
- Earle, Horatio S., Detroit, Mich. Animal trap. 1,613,652; Jan. 13.
- Earley, James J., Brooklyn, N. Y. Safety razor. 1,617,238; Feb. 8.
- Early, Harry H., Oshkosh, Wis. Changeable sign. 1,620,450; Mar. 8.
- Early, John N., Pittsburgh, Pa. Alloy. 1,622,576; Mar. 29.
- Early, Reese B., Riverside, Calif. Loom lock. 1,633,727; June 28.
- Easley, Jackson Z., et al. (See McKenney, F. Y., and Cheney, assignors.)
- Eason, R. C., et al. (See Nesmith, Samuel D., assignor.)
- East, R. C., et al. (See Ratharnham, Ireland. Saddle panel. 1,637,810; Aug. 2.
- East, Harry R., Los Angeles, Calif. Vehicle steering-wheel attachment. 1,643,706; Sept. 27.
- East Liverpool Potteries Company. (See De Ville, Walter, assignor.)
- Eastburn, Samuel L., Sloatsburg, N. Y. Water-closet seat. 1,625,830; May 23.
- Eastburn, Walter D., Elkins Park, Pa. Folding seat. 1,652,100; Dec. 6.
- Easter, George J. (See Hartmann, M. L., and Easter.)
- Easter, John W., San Jose, Calif. Car coupling. 1,632,222; June 14.
- Easter, John W., San Jose, Calif. Wheel. 1,648,762; Nov. 8.
- Easterlin, Douglas L., assignor to Lincoln Rubber Key Company, New York, N. Y. Apparatus for making caps for typewriter keys and the like. 1,624,224; Apr. 12.
- Easterling, H. B. (See Counts, Charles B., assignor.)
- Eastern Finishing Works, Inc. (See Adams, William H., and Neal, assignors.)
- Eastern Machine Screw Corporation, The. (See Bettscher, Carl W., assignor.)
- Eastern Manufacturing Company. (See Callan, John G., assignor.)
- Eastern Manufacturing Company. (See Ladd, F. C., and Neal, assignors.)
- Eastern Tool & Mfg. Co. (See Anderson, Carl E., assignor.)
- Eastern Tool & Mfg. Co. (See Falstrom, Henry W., assignor.)
- Eastern Tool & Mfg. Company. (See Montan, A., and Falstrom, assignors.)
- Eastern Tool & Mfg. Co. (See Montan, Adolph, assignor.)
- Eastern Tool & Mfg. Company. (See Montan, A., and Falstrom, assignors.)
- Easternwood, Henry W. (See Brassert, H. A., Wagman, and Easternwood.)
- Easternwood, Henry W. (See Waggaman, W. H., and Easternwood.)
- Eastes, James A., Mount Comfort, Ind. Farm pulverizer. 1,628,874; Apr. 17.
- Eastgate, Frederick L. (See Wood, H. J., and Eastgate.)
- Eastin, Henry T., Kingston, Mo. Fastener. 1,642,105; Sept. 13.

- Eastlack, Oscar A., Camden, N. J. Lock and latch 1,625,595; Apr. 19.
- Eastman, Byron L. (See Dolbear, S. H., and Eastman.)
- Eastman, Floyd K., assignor to Concealed Door Check Company, Kokomo, Ind. Doorcheck. 1,646,580; Oct. 25.
- Eastman, Ivan L., assignor to L. E. Eastman, Toledo, Ohio. Oil purifier. 1,632,001; June 14.
- Eastman, James H., Detroit, Mich. Spark-gap device. 1,626,030; Apr. 26.
- Eastman Kodak Company. (See Baybutt, R., and Farrow, assignors.)
- Eastman Kodak Company. (See Benth, Walter G., assignor.)
- Eastman Kodak Company. (See Blyth, John, assignor.)
- Eastman Kodak Company. (See Cameron, James A., assignor.)
- Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
- Eastman Kodak Company. (See Chamberlin, Benjamin D., assignor.)
- Eastman Kodak Company. (See Christie, John, assignor.)
- Eastman Kodak Company. (See Clarke, H. T., and Malm, assignors.)
- Eastman Kodak Company. (See De Moos, Charles, assignor.)
- Eastman Kodak Company. (See Farrow, Edward S., Jr., assignor.)
- Eastman Kodak Company. (See Favour, Paul, assignor.)
- Eastman Kodak Company. (See Folmer, William F., assignor.)
- Eastman Kodak Company. (See Frederick, Charles W., assignor.)
- Eastman Kodak Company. (See Frederick, C. W., and Altman, assignors.)
- Eastman Kodak Company. (See Frederick, C. W., and Wood, assignors.)
- Eastman Kodak Company. (See Folmer, William F., assignor.)
- Eastman Kodak Company. (See Fritts, Edwin C., assignor.)
- Eastman Kodak Company. (See Green, Newton B., assignor.)
- Eastman Kodak Company. (See Hewitson, Edward H., assignor.)
- Eastman Kodak Company. (See Hickman, Kenneth C. D., assignor.)
- Eastman Kodak Company. (See Jones, John G., assignor.)
- Eastman Kodak Company. (See Jones, J. G., and Dewey, assignors.)
- Eastman Kodak Company. (See Jones, Loyd A., assignor.)
- Eastman Kodak Company. (See Kroedel, Robert, assignor.)
- Eastman Kodak Company. (See Kroedel, R., and Speidel, assignors.)
- Eastman Kodak Company. (See Lehr, Norman F., assignor.)
- Eastman Kodak Company. (See Malm, Carl J., assignor.)
- Eastman Kodak Company. (See Marler, Harry I., assignor.)
- Eastman Kodak Company. (See Marshall, Walter D., assignor.)
- Eastman Kodak Company. (See Meyerling, Bernard H., assignor.)
- Eastman Kodak Company. (See Ohlau, George H., assignor.)
- Eastman Kodak Company. (See Riddell, William A., assignor.)
- Eastman Kodak Company. (See Rutan, Alfred A., assignor.)
- Eastman Kodak Company. (See Scott, John W., Jr., assignor.)
- Eastman Kodak Company. (See Seel, Paul C., assignor.)
- Eastman Kodak Company. (See Sheppard, S. E., and Eberlin, assignors.)
- Eastman Kodak Company. (See Sheppard, S. E., and Punnett, assignors.)
- Eastman Kodak Company. (See Sheppard, S. E., and Punnett, assignors.)
- Eastman Kodak Company. (See Sheppard, Samuel E., assignor.)
- Eastman Kodak Company. (See Smith, George A., assignor.)
- Eastman Kodak Company. (See Speidel, Charles F., assignor.)
- Eastman Kodak Company. (See Stinchfield, Ray L., assignor.)
- Eastman Kodak Company. (See Stuber, Adolph, assignor.)
- Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
- Eastman Kodak Company. (See Tessier, Julien, assignor.)
- Eastman Kodak Company. (See Underwood, Ernest E., assignor.)
- Eastman Kodak Company. (See Van Derhoef, Henry E., assignor.)
- Eastman Kodak Company. (See Wittel, Otto, assignor.)
- Eastman, Le Roy E. (See Eastman, Ivan L., assignor.)
- Eastman Machine Company. (See Sackerman, M. G., and Heller, assignors.)
- Easton Car & Construction Company. (See Coffey, Sylvester V., assignor.)
- Eastwood, Benjamin, Company. (See Adsit, George, assignor.)
- Eastwood, Benjamin, Company. (See Wells, William S., assignor.)
- Eastwood, Benjamin, Company. (See Adsit, G., and Davis, assignors.)
- Eatiger, Clyde B., Carroll, Iowa. Heating system. 1,646,786; Oct. 25.
- Eaton Axle and Spring Company, The. (See Cox, William G., assignor.)
- Eaton Axle & Spring Company, The. (See Veale, George W., assignor.)
- Eaton Axle and Spring Company, The. (See Weymouth, George G., assignor.)
- Eaton, Charles F., et al. (See Eaton, Malcolm H., assignor.)
- Eaton, Ezra S., et al. (See Eaton, Malcolm H., assignor.)
- Eaton, George M., Pittsburgh, Pa. Pipe stem. 1,615,618; Jan. 25.
- Eaton, George M. (See Bouslough, J. A., and Eaton.)
- Eaton, George M. Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for making insulators. 1,615,800; Jan. 25.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear. 1,632,520; Dec. 13.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cab-supporting structure. 1,654,324; Dec. 27.
- Eaton, George R., Oak Park, and M. E. Stazak, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,638,295; Aug. 9.
- Eaton, George, assignor to M. C. Eaton, Cleveland, Ohio. Electric heater. Des. 73,560; Oct. 4.
- Eaton, Horace M. (See Hansen, Sinius M., assignor.)
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor-control system. 1,631,673; June 7.
- Eaton, Leslie E., assignor of one-half to C. E. Griffin, Kansas City, Mo. Artificial denture. 1,649,517; Nov. 15.
- Eaton, Malcolm H., Brookline, assignor of one-third to E. S. Eaton, Newton, and one-third to C. F. Eaton, Brookline, Mass. Device for handling cups and the like. 1,640,184; Aug. 23.
- Eaton, May C. (See Eaton, George, assignor.)
- Eaton, Robert E., La Pine, Oreg. Handy top for fish baskets. 1,617,394; Feb. 15.
- Eaton Spring Corporation, The. (See Wallace, William H., assignor.)
- Eaton, William D., and W. T. Lamb, Jacumba, Calif. Positioning pavement reinforcing. 1,643,578; Sept. 27.
- Eaton, William S., Sag Harbor, N. Y. Engraving or like machine. 1,621,317; Mar. 15.
- Eaton, Wyman, Chicago, Ill., and D. T. Croxton, Cleveland, Ohio, said Eaton assignor of his entire interest to Freyn Engineering Company, Chicago, Ill. Blast-furnace construction. 1,630,474; May 31.
- Daves, Ralph E., and W. C. Keen, Allston, Mass. Glare eliminator. 1,631,022; May 31.
- Ebarle, Patricio L., San Francisco, Calif. Container for table service. Des. 72,936; June 28.
- Ebaugh, Albert E., Baltimore, Md. Extensible and contractible bumper for vehicles. 1,646,055; Oct. 18.
- Ebbert, Charles W., Quincy, Ill. Cleaning cloth. 1,644,053; Oct. 4.
- Ebel, Charles M., Windsor, Ontario, Canada. Axle arrangement. 1,653,156; Dec. 20.
- Ebel, George F., and F. M. Zink, Canton, Ohio, assignors, by mesne assignments, to The Union Metal Manufacturing Company. Base for lamp standard. 1,627,640; May 10.
- Ebel, Siegfried S., Vienna, Austria. Electrotherapeutic device. 1,648,116; Nov. 8.
- Ebell, Helen, assignor to Bullock's, Los Angeles, Calif. Wrapping paper. Des. 72,513; Apr. 26.
- Eberhard Faber Pencil Co. (See Kappes, Carl H., assignor.)
- Eberhard Faber Pencil Co. (See Turner, Joseph N., assignor.)
- Eberhard Faber Rubber Co. (See Faber, Eberhard L., assignor.)
- Eberhard Manufacturing Company, The. (See Hennicke, Charles A., assignor.)
- Eberhardt, Ernest, Waterloo, Iowa. Snow remover. 1,638,150; Aug. 9.
- Eberhardt, Frank E., assignor to Newark Gear Cutting Machine Co., Newark, N. J. Hobbing machine. 1,615,537; Jan. 25.
- Eberhart, Felix, Arlington, N. J., assignor to American Can Company, New York, N. Y. Decorated box. Des. 73,400; Sept. 6.
- Eberhart, Felix, Arlington, N. J., assignor to American Can Company, New York, N. Y. Decorated box. Des. 73,971; Nov. 29.
- Eberhart, Felix, Arlington, N. J., assignor to American Can Company, New York, N. Y. Decorated box. Des. 73,972; Nov. 29.
- Eberle, Anton. (See Jones, W. H., and Eberle.)
- Eberle, John A., St. Louis, Mo. Folding gear. 1,618,328; Feb. 22.
- Eberlin, Leon W. (See Sheppard, S. E., and Eberlin.)

- Eberling, Charles M., assignor to The Eberling Machine Sales Company, Cleveland, Ohio. Gearing. 1,637,142; July 26.
- Eberling Machines Sales Company, The. (See Eberling, Charles M., assignor.)
- Ebersbach, Otto, Berlin-Wilmersdorf, assignor to Ebrovergaszer Gesellschaft mit beschränkter Haftung, Düsseldorf, Germany. Apparatus for supplying combustible mixture to internal-combustion engines. 1,641,964; Sept. 13.
- Ebersol, Eugène, assignor to Society Frères Koechlin, Mulhouse, Haut-Rhin, France. Printing upon textile fabrics. 1,639,218; Aug. 16.
- Ebert, Albert G. (See Ebert, William H., and Albert.)
- Ebert, Gus, Egg Harbor, N. J. Weapon. 1,614,353; Jan. 11.
- Ebert, John W., Frederick, Md. Smoke and gas collector. 1,630,927; May 31.
- Ebert, Oswald G., Hamlin, Tex. Traller-coupling device. 1,616,788; Feb. 8.
- Ebert, William H., and A. G. Ebert, Buffalo, N. Y. Bevel. 1,628,713; May 17.
- Ebling, Paul F. (See Brockel, T. W., and Ebling.)
- Elmeyer, Harry E., Bertraud, Nebr. Seed-corn sheller. 1,633,365; June 21.
- Elmer, Alfred J., assignor to Freyn, Brassier & Company, Chicago, Ill. Fire-tube boiler. 1,622,577; Mar. 29.
- Euro-Vergaser Gesellschaft mit beschränkter Haftung. (See Ebersbach, Otto, assignor.)
- Elburne, Robert, Somerville, assignor to The Housh Company, Inc., Boston, Mass. Loose-leaf binder. 1,653,498; Dec. 20.
- Eby, Eugene D., Pittsfield, Mass., assignor to General Electric Company. High-potential cable joint and in stallation. 1,652,893; Dec. 13.
- Ecco Manufacturing Company. (See Nelson, John H., as- sor.)
- Echaniz, Jose L., and F. G. Mansilla, assignors of one- third to M. L. Echaniz, one-third to J. L. Echaniz, and one-third to P. G. Mansilla, Buenos Aires, Argentina. Weighing machine. 1,647,038; Oct. 25.
- Echaniz, Manuel L., et al. (See Echaniz, J. L., and Mansilla, assignors.)
- Echelberger, Clark C., Hutchinson, Kans. Battery-termi- nal lifter. 1,637,687; Aug. 2.
- Echols, Francis G., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Rotary cutting tool. 1,623,953; Apr. 5.
- Eckardt, Richard, Forschereuth, Germany. Harrow. 1,651,086; Nov. 29.
- Eckart, Charles F., Oakland, Calif. Enhancing the growth of plants. 1,654,242; Dec. 27.
- Eckart, George F., Cincinnati, Ohio, assignor, by mesne assignments, to J. M. Zane, Chicago, Ill. Flexible coupling. 1,623,582; Apr. 5.
- Eckart, George F., South Bend, Ind., assignor to G. A. Britton, trustee. Flexible coupling. 1,633,243; June 21.
- Eckart, Jacob, Furth, Bavaria, Germany. Container. 1,644,821; Oct. 11.
- Ecke, William R., and J. H. Matthews, assignors to Jas. H. Matthews & Company, Pittsburgh, Pa. Embossing die. 1,653,802; Dec. 27.
- Eckenwiler, Cleo W. (See Whaley, M. H., and Ecken- wiler.)
- Eckerlin, Eugene L., Paris, France. Toilet seat. 1,639,219; Aug. 16.
- Eckerman, Allen H., Sioux City, Iowa. Hog spray. 1,620,013; Mar. 8.
- Eckert, Frank. (See Senville, E. M., and Eckert.)
- Eckert, Grandon E., assignor to The R. Thomas & Sons, Co., East Liverpool, Ohio. Insulator fitting. 1,633,399; June 21.
- Eckert, Otto, assignor to Präzisionsguss-Fabrik Gebr. Ebert, Nürnberg, Germany. Automatic machine for casting metal under pressure. 1,644,054; Oct. 4.
- Eckert, William A., Buffalo, N. Y. Signal-control mecha- nism for automobiles. 1,637,218; July 26.
- Eckert, William A., Buffalo, N. Y. Signal-controlling mechanism for automobiles. 1,638,091; Aug. 9.
- Eckert, William F. (See Whitcomb, W. C., and Eckert.)
- Eckert, Roe, et al. (See Coughlin, Joseph D., assignors.)
- Eckhardt, Walter L., Philadelphia, Pa. Radioreproducer. 1,653,158; Dec. 20.
- Eckhardt, Walter L., Philadelphia, Pa. Radioreproducer. 1,653,159; Dec. 20.
- Eckhart, Albert P., Shohola, Pa. Radiator. 1,629,440; May 17.
- Eckhouse, Edgar A., Cleveland, Ohio, assignor to The Central Brass Manufacturing Company, Cleveland, Ohio. Bibcock or faucet. 1,626,031; Apr. 26.
- Eckl, Edward, Los Angeles, Calif. Insect destroyer. 1,631,121; June 7.
- Eckland, Charles J., Minneapolis, Minn. Vase ventilator. 1,621,770; Aug. 22.
- Eckland, Emil O., Menominee Falls, Wis., and W. H. Young, Chicago, Ill. Fluid feeding and conducting means. 1,635,663; July 12.
- Eckland, Oscar J., Owosso, Mich. Internal-combustion engine. 1,640,696; Aug. 30.
- Eckles, Noble, assignor of three-fourths to L. W. Rhode, San Diego, Calif. Vacuum fuel system for carburetors. 1,623,237; Apr. 5.
- Eckles, Noble, San Diego, assignor of three-fourths to L. W. Rhode, Los Angeles, and one-fourth to C. Spreck- els, San Diego, Calif. Carburetor. 1,632,279; June 14.
- Eckley, James W. (See Hamer, Sylvester G., assignor.)
- Eckley, Paul, Walnut Creek, Calif. Spading tool. 1,621,715; Mar. 22.
- Eckmann, Aron, Bern-Wabern, assignor to Schweiz. Serum- & Impfstitut Bern, Bern, Switzerland. Con- verting medicaments, antiseptic agents, and cauteriza- tion means into a stable and readily-dosable form. 1,650,333; Nov. 22.
- Eckschlager, Heinrich, Berlin-Friedenau, Germany. Light projector. 1,654,243; Dec. 27.
- Eckstein, Andreas, Waldassen, Germany. Device for preventing boiling over of milk and for indicating the boiling of the milk. 1,646,017; Oct. 15.
- Eckstein, George H., Los Angeles, Calif. Toy piano. 1,626,275; Apr. 26.
- Eckstein, George H., Beverly Hills, Calif. Toy piano. 1,638,327; Aug. 9.
- Eckstein, Reuben, New York, N. Y. Branch connector. 1,622,708; Mar. 29.
- Eckstein, Reuben, New York, N. Y. Electric-miniature- lamp holder. 1,625,245; Apr. 19.
- Eclipse Air Brush Company. (See Reichenbach, Carl L., assignor.)
- Eclipse Cigar Stemming Machinery Company. (See Morris, John O., assignor.)
- Eclipse Interchangeable Counterbore Company. See Smith, John H., assignor.)
- Eclipse Machine Company. (See Ferguson, Malcolm P., assignor.)
- Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
- Eclipse Machine Company. (See McGrath, William L., assignor.)
- Eclipse Machine Company. (See Wild, M., and Gold- berg, assignors.)
- Eclipse Textile Devices, Inc. (See Hasbrouck, Louis B., assignor.)
- Eclipse Textile Devices, Inc. (See Van Ness, Henry E., assignor.)
- Eclipse Tool Company. (See Ferguson, David, assignor.)
- Econom, Louis G., North Plainfield, N. J. Portable re- ciprocating power saw. 1,623,309; Apr. 5.
- Economic Machinery Company. (See Ekvall, Arvid P., assignor.)
- Economides, Michael J., Brooklyn, N. Y. Hinge. 1,633,480; June 21.
- Economides, Michael J., Brooklyn, N. Y. Hinge. 1,646,644; Oct. 25.
- Economy Baler Company. (See Barrows, Alfred C., as- signor.)
- Economy Baler Company. (See Hill, Hermann, assignor.)
- Economy Baler Company. (See Langford, George W., assignor.)
- Economy Baler Company. (See Williams, T., and Swart, assignors.)
- Economy Barrel Corporation. (See Bell, Robert J., as- signor.)
- Economy Dispenser Corporation. (See Page, Charles E., assignor.)
- Economy Engineering Company. (See Young, Wilfred S., assignor.)
- Economy Fuse & Manufacturing Company. (See Feld- kamp, Frederick A., assignor.)
- Economy Fuse and Manufacturing Company. (See Gor- don, David D., assignor.)
- Economy Fuse and Manufacturing Company. (See Gor- don, D. D., and Lindsay, assignors.)
- Economy Fuse & Manufacturing Co. (See McDonnell, George P., assignor.)
- Economy Glass Company. (See Dougherty, George, as- signor.)
- Economy Glass Company. (See Schrader, Ernest C., as- signor.)
- Economy Products Corporation. (See Keas, Charles E., assignor.)
- Economy Products Corporation. (See Volgt, George F., assignor.)
- Economy Tool Manufacturing Company. (See Delany, Charles M., assignor.)
- Economy Vaporizer Company. (See May, Harry E., assignor.)
- Econopoly, Peter D., Port Jefferson, N. Y. Automatic cut-off for pressure-fluid-supply lines. 1,619,500; Mar. 1.
- Eddie, Edward C., et al. (See Zimmer, Samuel B., as- signor.)
- Eddington, William R., assignor of one-half to The Mor- gan Canning Company, Morgan, Utah. Selective dump- ing device for bucket conveyors. 1,636,220; July 19.
- Eddins, Sextus A., assignor to Cordo-Hyde Co., Quincy, Mass. Shoe-upper support. 1,637,896; Aug. 2.
- Eddins, Sextus A., assignor to Cordo-Hyde Co., Quincy, Mass. Shoe and making the same. 1,637,897; Aug. 2.
- Eddy, Albert H., Pawtucket, assignor to A. L. Newman Company, Cranston, R. I. Securing name plates and the like. 2,634,936; July 5.
- Eddy, Albert H., Pawtucket, assignor to A. L. Newman Company, Cranston, R. I. Attaching means for name plates and other articles. 1,634,937; July 5.
- Eddy, George H., Foster, Wash. Golf tee. 1,616,983; Feb. 8.

- Edelmann, Lazar, K. Pfeiffer, K. Gress, and P. Jodeck, Berlin, Germany. Arrangement for redning heavy minerals. 1,651,328; Nov. 29.
- Edelman, Philip E. (See Lytton, W., and Edelman.)
- Edelman, Samuel, Philadelphia, Pa. Lighting fixture. Des. 71,828; Jan. 11.
- Edelmann, E. & Co. (See Edelmann, Leo, assignor.)
- Edelmann, Leo, Chicago, Ill. Window airfiltrer. 1,635,553; Dec. 20.
- Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Hydrometer suction bulb or the like. Des. 73,401; Sept. 6.
- Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Hydrometer bulb. 1,637,219; July 26.
- Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Automobile clock. 1,639,598; Aug. 16.
- Edelmann, Louis A., assignor to Unico-Motor Products Corporation, St. Louis, Mo. Chuck. 1,634,536; July 6.
- Edelmann, Oskar, Schlettau, Erzgebirge, Germany. Spinning machine. 1,621,158; Mar. 15.
- Edelson, Leon. (See Haederer, Gustave A., assignor.)
- Edson, Samuel, New York, N. Y. Door lock. Des. 72,822; Jan. 14.
- Edson, Samuel, New York, N. Y. Door lock. 1,653,157; Dec. 20.
- Edelstein, Edwin, assignor to Illinois Watch Case Company, Elgin, Ill. Watch holder. Des. 71,785; Jan. 4.
- Edon, Francis R. Montclair, N. J. Playing ball. 1,653,893; Dec. 27.
- Edeu, Harold W., Davenport, Iowa. Wringer drain board. 1,613,026; Jan. 4.
- Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Cutter head. 1,639,028; Aug. 16.
- Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Machine for threading or turning bolt blanks or the like. 1,646,954; Oct. 25.
- Edens, Henry N., New Holstein, assignor, by mesne assignments, to Waukesha Motor Company, Waukesha, Wis. Device for regulating temperature of air in carburetors. Re1,6528; Jan. 11.
- Eder, Phanor J. (See Richardson, Gordon, assignor.)
- Ederer, Lothar. (See Sanner, Hubert, assignor.)
- Edgar, Charles E., Los Angeles, Calif. Stove or furnace. 1,618,276; Feb. 22.
- Edgar, Frank M. (See Archer, T. P., and Edgar.)
- Edgar, David. (See Suttis, A. E., and Edgar.)
- Edgar, George B., and L. R. Melvin, assignors of fifty-eight per cent. to said L. R. Melvin, thirty per cent. to said George B. Edgar, six per cent. to E. B. Melvin, and two per cent. to R. A. Melvin, Lawrence, Kans. Card holder. 1,638,328; Aug. 9.
- Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Grinding hobs. 1,617,798; Feb. 15.
- Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Gear-roughening machine. 1,641,666; Sept. 6.
- Edgerton, George M., Boston, Mass. Shock absorber. 1,638,092; Aug. 9.
- Edge, George V. M. (See Barnes, E., and Edge.)
- Edge Moor Iron Company. (See Falla, Fernando, assignor.)
- Edge Moor Iron Company. (See Vennum, George C., assignor.)
- Edge, Walter S., and R. C. Olmsted, New York, N. Y. Reinforced concrete construction. 1,637,742; Aug. 2.
- Edgemont Cement Company, The. (See Anglemeyer, C. M., and Coffman, assignors.)
- Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Sleeping berth for poultry cars. 1,641,376; Sept. 6.
- Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Car ventilator. 1,643,765; Sept. 27.
- Edgewater Steel Company. (See Caughey, Edward G., assignor.)
- Edison Electric Appliance Company. (See Lutzler, Dorothea E., assignor.)
- Edison Electric Appliance Company. (See McCormick, Francis H., assignor.)
- Edison Electric Appliance Company. (See Randolph, Charles P., assignor.)
- Edison Electric Appliance Company. (See Rankin, William A., assignor.)
- Edison Electric Appliance Company. (See Simmons, Albert H., assignor.)
- Edison, Karl, New York, N. Y. Illuminating device. 1,619,198; Mar. 1.
- Edison, Thomas A., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Storage battery. Re1,614; May 3.
- Edison, Thomas A., assignor to Thomas A. Edison Incorporated, West Orange, N. J. Cabinet. 1,644,670; Oct. 11.
- Edison, Thomas A., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Storage-battery electric element and production thereof. 1,649,579; Nov. 15.
- Edison, Thomas A., Llewellyn Park, West Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Storage battery. 1,651,196; Nov. 29.
- Edison, Thomas A., Incorporated. (See Durand, Nelson C., assignor.)
- Edison, Thomas A., Incorporated. (See Edison, Thomas A., assignor.)
- Edlund, Ivar, San Francisco, Calif. Direction indicator. 1,615,746; Jan. 25.
- Edman, John, assignor to Masterbilt Motor Company, Minneapolis, Minn. Internal-combustion engine. 1,649,817; Nov. 22.
- Edmunds, John W., Newton, Mass. Railway signal torpedo. 1,632,464; June 14.
- Edmonds, Courtenay H. W., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Illuminated railway signal. 1,628,714; May 17.
- Edmonds, William B. (See Edwards, Walter, assignor.)
- Edmondson, John H., Pine Bluff, Ark. Carpenter's gauge. 1,634,178; June 28.
- Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car. 1,644,009; Oct. 4.
- Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car. 1,644,010; Oct. 4.
- Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car. 1,644,011; Oct. 4.
- Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car. 1,644,012; Oct. 4.
- Edmunds, Howard M., Brighton, England. Machine for producing three-dimensional figures from two-dimensional records of the same. 1,615,261; Jan. 26.
- Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
- Edna Brass Manufacturing Company, The. (See Grantland, John W., assignor.)
- Edsen, Edward, North Milwaukee, Wis. Burner controlling means. 1,616,955; Feb. 8.
- Edson, Edwin. (See Fowler, S., and Edser.)
- Edson, Bert, Pawtucket, R. I. Signal box. Des. 72,061; Feb. 22.
- Edson, William W., Newtonville, Mass., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,626,603; May 3.
- Edwards, Albert V., Hackettsburg, N. J. Mortising machine. 1,634,097; June 28.
- Edwards, Alvin H., Big Springs, Tex. Tire-inflating gauge. Des. 71,829; Jan. 11.
- Edwards, Artist A., and R. L. McDonald, Wilson, Okla. Ant trap. 1,621,318; Mar. 15.
- Edwards, C. Elmer, Co. (See Edwards, Charles E., assignor.)
- Edwards, Charles. (See Smith, C. F., and Edwards.)
- Edwards, Charles, Lansford, Pa. Protector fence for highways. 1,625,716; Apr. 19.
- Edwards, Charles E., Manchester, N. H., assignor to C. Elmer Edwards Co., Inc. Method of and apparatus for marking shoe-upper sections. 1,639,332; Aug. 16.
- Edwards, Charles M., Washington Court House, assignor of one-half to M. A. Harsh, Columbus, Ohio. Gate. 1,640,757; Aug. 30.
- Edwards, Charles R., Houston, Tex. Collapsible tape thread-cutting tool. 1,622,097; Mar. 22.
- Edwards, Charles R., Houston, Tex. Device for unscrewing and withdrawing pipe. 1,627,842; May 10.
- Edwards, Daniel D., Takoma Park, Md., and J. H. Mansfield, assignors to Greenlee Bros. & Co., Rockford, Ill. Incising machine. 1,646,955; Oct. 25.
- Edwards, Donald V., Troy, N. Y., assignor to Pittsburgh Transformer Company. Casing for electrical apparatus. 1,622,030; Mar. 22.
- Edwards, Donald V., Troy, N. Y., assignor to Pittsburgh Transformer Company. Corrugating machine. Des. 71,867; Apr. 5.
- Edwards, Edward J., assignor to S. Karpen & Bros., Chicago, Ill. Upholstered furniture and protecting same. 1,636,465; July 19.
- Edwards, Edwin, C. Jones, and R. Hanson, Warrington, England. Apparatus for making wire, hemp, or other ropes, cables, and the like. 1,636,466; July 19.
- Edwards, Ernest, Stoke-on-Trent, England. Locking means for pottery molds. 1,653,396; Dec. 20.
- Edwards, Frank K., Lockland, assignor to The Nivison-Weiskopf Company, Cincinnati, Ohio. Bottle. Des. 73,901; Nov. 22.
- Edwards, George A., assignor of one-half to F. Henderson, Bisbee, Ariz., and one-half to N. V. Edwards. Elevator support. 1,622,943; Mar. 29.
- Edwards, George E., Alameda, Calif. Automobile license plate holder. 1,659,688; May 24.
- Edwards, Henry J., Elroy, assignor to The Willys-Overland Company, Toledo, Ohio. Cooling system for gas engines. 1,645,188; Oct. 11.
- Edwards, Howard A., Cedarhurst, Ga., assignor to Sonoco Products Company, Hartsville, S. C. Cone-winding mandrel. Re1,6553; Feb. 22.
- Edwards, Isaac L., Aurora, Ill. Nut lock. 1,634,744; July 5.
- Edwards, Isaac L., Aurora, Ill. Overalls. 1,653,554; Dec. 20.
- Edwards, John, Swansea, England. Agitating and stirring molten metal in open-hearth and like furnaces. 1,635,037; July 5.
- Edwards, John, et al. (See Knofe, Karl R., assignor.)
- Edwards, John C. (See Bossert, W. F., and Edwards.)
- Edwards, John F., Warren, Ark. Process and compound for tempering steel. 1,648,044; Nov. 8.
- Edwards, John R., Vancouver, British Columbia, Canada, assignor to American Can Company, New York, N. Y. Can-cover-counting machine. 1,641,476; Sept. 6.

- Edwards, Leroy, Stanley, N. Dak. Folding camp bed. 1,622,188; Mar. 22.
- Edwards, Lewis, Philadelphia, Pa. Badge or similar article. Des. 72,006; Feb. 15.
- Edwards, Lindsay E., Turnbridge Wells, England. Magnetic T square. 1,642,232; Sept. 13.
- Edwards, Nellie V., et al. (See Edwards, George A., assignor.)
- Edwards, O. M., Company Inc., The. (See Axe, Roy T., assignor.)
- Edwards, O. M., Company, The. (See Chaffee, Edward F., assignor.)
- Edwards, Walter, Kokomo, Ind. Stool and chair construction. 1,641,129; Aug. 30.
- Edwards, Walter, assignor of 49 per cent to W. B. Edmonds, Terre Haute, Ind. Self-oiling pulley. 1,618,123; Feb. 15.
- Edwards, William, Rock Springs, Wyo. Automatic switch. 1,633,521; June 21.
- Edwards, William A., Chicago, Ill. Homogenizing Fluid-Fuel Mixtures. 1,627,161; May 3.
- Edwards, William A., Bartlett, Ill. Supplying a combustible mixture to internal-combustion motors. 1,628,357; May 10.
- Edwards, William H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Headband telephone receiver. 1,650,865; Nov. 29.
- Edwards, William H., Brooklyn, and R. S. Tucker, New York, N. Y., assignors to American Telephone and Telegraph Company. Coin collector. 1,652,239; Dec. 13.
- Edwards, William K., Big Spring, Tex. Grip tester. 1,640,030; Aug. 23.
- Edwards, William S., Lockland, Ohio. Gasket-seating machine. 1,625,800; Apr. 26.
- Edwards, Wilson D., assignor to Turner Glass Company, Terre Haute, Ind. Jug. Des. 73,601; Oct. 11.
- Edwardson, Robert, Irvine's Landing, British Columbia, Canada. Sealing device for jars. 1,616,614; Feb. 8.
- Edwin, Emil, Trondhjem, assignor to Aktieselskapet Norsk Staal Elektricitets-Reduktion, Oslo, Norway. Reduction process using circulating reducing gases. 1,638,684; Aug. 9.
- Eeles, Frederick H., and H. M. Duchard, Paris, France; said Eeles assignor to said Duchard. Luminous electric sign. 1,616,309; Feb. 1.
- Eells Milton M. (See Lewis, W. T., and Eells.)
- Egan, Milton M., Chicago, Ill. assignor to Western Coil & Electrical Co., Racine, Wis. Variable inductance unit. 1,628,237; May 10.
- Efaw, La Forrest, Seattle, Wash. Camping bed. 1,651,681; Dec. 6.
- Ecolite Corporation. (See Von Nessen, Walter, assignor.)
- Effley, Michael P., assignor of one-half to E. H. Barnes, Louisville, N. Y. Bush or plant support. 1,627,495; May 3.
- Egan, Daniel J., Picher, Okla. Automatic oiler. 1,621,771; Mar. 22.
- Egan, George F., Jersey City, N. J. Vehicle fender. 1,620,196; Mar. 8.
- Egan, George F., Jersey City, N. J. Display device. 1,654,244; Dec. 27.
- Egan, George F., Jersey City, N. J. Display device. 1,654,245; Dec. 27.
- Egan, George F., Jersey City, N. J. Sewer construction. 1,654,246; Dec. 27.
- Egan, George F., Jersey City, N. J. Sewer construction. 1,654,247; Dec. 27.
- Egan, James, Chicago, Ill. Oil burner. 1,641,581; Sept. 6.
- Egnn, Mathew M., Fort Worth, Tex. Jack. 1,649,674; Nov. 15.
- Egan, Nellie N., et al. (See Gallagher, Philip J., assignor.)
- Egan, Patrick D., Fort Smith, Ark. Sign. 1,637,988; Aug. 2.
- Egbert, Clio S., Dayton, Ohio. Propeller case. 1,622,137; Mar. 22.
- Ege, Egbert L. (See Holman, C. B., and Ege.)
- Egelhoff, Charles H., Columbus, Ohio. Forming an artistic paint finish. Re16,760; Oct. 4.
- Esenhoff, William D., Maricopa, Calif. Pressure-relief mechanism for wells. 1,623,866; Apr. 5.
- Eggen, Jacob F., Maywood, Ill. assignor to American Can Company, New York, N. Y. Bail for containers. 1,646,856; Oct. 25.
- Egert, Benjamin J., Brookfield, Ill. assignor to Western Electric Company, Incorporated, New York, N. Y. Measuring device. 1,614,605; Jan. 18.
- Egg Patents Limited. (See Bellamy, Archibald J., assignor.)
- Egan, Alfred J., Chicago, Ill. Soap container. 1,619,105; Mar. 1.
- Eggenweller, Charles W., and W. J. Fiegel, Detroit, Mich., assignors, by mesne assignments, to Bohn Aluminum and Brass Corporation. Machine for trimming the edges of bearing or like sections. 1,626,924; May 3.
- Eggers, Henry W., Prescott, Wis. Pump jack. 1,650,825; Nov. 29.
- Eggers, William M., and G. Mahr, Jr., assignors of one-third to T. R. Townsend, Los Angeles, Calif., and two-thirds to said Mahr. Spring-opened clipping shears. 1,637,607; Aug. 2.
- Eggert, Hans, Woltersdorf, near Erkner, Germany. Making substitutes for horn and ivory from viscose. 1,652,711; Dec. 13.
- Eggerth, Alfred, McCammon, Idaho. Legging. 1,651,589; Dec. 6.
- Eggiman, Alfred, and A. Perea, Paris, France. Coating process. 1,640,185; Aug. 23.
- Eggimann, Alfred, and A. Perea, Paris, France. Manufacturing translucent article. 1,644,115; Oct. 4.
- Eggleston Drilling Corporation. (See Smith, Eggleston, assignor.)
- Eggleston Spiral Drill Corporation. (See Smith, Eggleston, assignor.)
- Egglestone, James F., Youngstown, Ohio. Score-sheet holder for golf clubs. 1,649,293; Nov. 15.
- Egholm, James P., Chicago, Ill. Dumping truck. 1,631,627; June 7.
- Egler, Nicklas F., Canton, Ohio, assignor of one-third to H. B. Groninger, Port Royal, and one-third to E. R. Vorhis, Beaver, Pa. Hot top for molds. 1,650,700; Nov. 29.
- Egler, Charles, Rochester, N. Y. Heating or ventilating register. 1,640,566; Aug. 30.
- Egley, Bertram. (See Adams, John B., assignor.)
- Egli, Arnold A., Bern, assignor, by mesne assignments, to Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland. Key controller. 1,652,430; Dec. 13.
- Egloff, Frank S., Riverside, Ill. assignor, by mesne assignments, to The Phoenix Burner Corporation. Air control for oil burners. 1,626,228; Apr. 26.
- Egloff, Frank S., Riverside, Ill. Furnace. 1,647,987; Nov. 8.
- Egloff, Gustav. (See Morrell, J. C., and Egloff.)
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Cracking petroleum oil. 1,619,921; Mar. 8.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treating oil shale. 1,627,162; May 3.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treating oil shale. 1,627,163; May 3.
- Egloff, Gustav, Independence, Kans., assignor to Universal Oil Products Company, Chicago, Ill. Cracking oil. 1,638,093; Aug. 9.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Process of and apparatus for cracking oil. 1,638,115; Aug. 9.
- Egloff, Gustav, and J. G. Alther, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for cracking hydrocarbons. 1,638,116; Aug. 9.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for cracking oil. 1,617,619; Feb. 15.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating hydrocarbons. 1,618,645; Feb. 22.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for cracking oil. 1,619,922; Mar. 8.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Treating emulsified oils. 1,649,102; Nov. 15.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating emulsified oil. 1,649,103; Nov. 15.
- Egloff, Gustav, Chicago, Ill., and W. R. Howard, Washington, D. C., assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating oils. 1,627,164; May 3.
- Egloff, Gustav, Chicago, Ill., and R. T. Pollock, New York, N. Y., assignors to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbon oils. 1,649,104; Nov. 15.
- Egloff, Gustav, and H. P. Benner, Independence, Kans., assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for cracking oil. 1,649,105; Nov. 15.
- Egry Register Company, The. (See Jackson, Philip A., assignor.)
- Egry Register Company, The. (See Johnson, Arthur A., assignor.)
- Egry Register Company, The. (See Neth, George J., assignor.)
- Egry Register Company, The. (See Pfeiffer, Frank E., assignor.)
- Eggleck, Albert H., assignor to Heine Boiler Company, St. Louis, Mo. Water-tube boiler. 1,615,006; Jan. 18.
- Ehinger, Carl F., Cleveland, Ohio. Automobile fan. 1,635,315; July 12.
- Ehinger, Fred C., Palmyra, Mich. Maul. 1,633,007; June 21.
- Ehlicke, Carl H., Penfield, assignor to The Atlantic Refining Company, Philadelphia, Pa. Filling unit. 1,614,780; Jan. 18.
- Ehlers, Walther, Berlin-Grunau, Germany, assignor to General Electric Company. Magnetic core. 1,615,685; Jan. 25.
- Ehlers, Walther, Berlin-Grunau, Germany, assignor to General Electric Company. Making magnetic cores. 1,618,818; Feb. 22.
- Ehlers, Walther, Berlin, Germany, assignor to General Electric Company. Composite metal article. 1,648,678; Nov. 8.

- Ehlig, Harry, Pearl River, assignor to George R. Swart & Company, Inc., New York, N. Y. Sheet feeder. 1,618,584; Feb. 22.
- Elmsen, Heinrich, Munich, assignor to J. Stern, Geisenkirchen, Germany. Angulating chisel between frictionally engaging surfaces. 1,651,766; Dec. 8.
- Elms, Frederic H., Germantown, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Washing machine. 1,627,730; May 10.
- Ehnts, Frederic H., Germantown, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Cleaning machine. 1,650,777; Aug. 29.
- Elmer, Conrad, Oklahoma City, Okla. Closure for man-holes, water-meter holes and the like. 1,614,781; Jan. 18.
- Ehret, Cornelius D. (See Appleby, Thomas, assignor.)
- Ehrgott, Karl. (See Keene, A. D., and Ehrgott.)
- Ehrgott, Karl, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heating unit. 1,628,875; May 17.
- Ehrgott, Karl, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating unit. 1,628,876; May 17.
- Ehrgott, Karl, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor-supporting means. 1,647,346; Nov. 1.
- Ehrlert, Karl, Erie, assignor to Bernard Gloekler Company, Pittsburgh, Pa. Waffle iron. 1,646,726; Oct. 25.
- Ehrgott, Karl, Erie, assignor to Bernard Gloekler Company, Pittsburgh, Pa. Electric waffle iron. 1,646,727; Oct. 25.
- Ehrhardt, Paul G., Frankfort-on-the-Main, Germany. Press-ring washer. 1,640,650; Aug. 30.
- Ehrlert, Raymond N., East Pittsburgh, Pa., assignor to Elliott Company, Pittsburgh, Pa. Water-heating system for power plants. 1,620,807; Mar. 15.
- Ehrhart, Raymond N., Edgewood, assignor to Elliott Company, Pittsburgh, Pa. Condenser control. 1,634,256; July 5.
- Ehrhart, William, Lancaster, Pa. Pretzel-cooking apparatus. 1,607,518; Oct. 2.
- Ehrlen, Harry W., Bellevue, and J. H. Matthews, assignors to Jas. H. Matthews & Company, Pittsburgh, Pa. Fountain inkling roll. 1,643,488; Sept. 27.
- Ehrier, Albert, assignor of forty-nine one-hundredths part to E. Guerdi, New York, N. Y. Automobile tire valve for multiple air tubes. 1,650,502; Nov. 22.
- Ehlich, Adolf, Budapest, Hungary. Aircraft with swinging wings. 1,622,629; Mar. 29.
- Ehrlich, Adolf, Budapest, Hungary. Tugboat moved by means of two-limbed oars. 1,643,838; Sept. 27.
- Ehrlich, Frederick W., Newark, N. J. Automobile radiator ornament. Des. 71,865; Jan. 18.
- Ehrlich, Jacob M. (See Quait, Robert, jr., assignor.)
- Ehrlichman, Albert A., Milwaukee, Wis. Antiglare attachment. 1,627,606; Aug. 27.
- Ehrman, Edwin H. and W. D. Corlett, Oak Park, Ill., assignors to Standard Screw Company, Jersey City, N. J. Slotting machine. 1,615,538; Jan. 25.
- Eichel, Nellie, St. Louis, Mo. Bandeau. 1,637,177; July 26.
- Eichelberger, John C., Stockton, Calif. Header reel. 1,628,856; Oct. 18.
- Eichenberger, Eugene F., Plymouth, Wis. Shoe-repair stand. 1,628,130; May 10.
- Eichenlaub, Edward S., North Fairfield, Ohio. Toy-balloon frame. 1,620,331; Mar. 8.
- Eichhorn, Albert, & Son. (See Huebner, Harry G., assignor.)
- Eichhorn, Charles, assignor to V. Toabolla, Chicago, Ill. Train-pipe coupling. 1,619,464; Mar. 1.
- Eichorst, Franz, Treptow-on-the-Rega, Germany, assignor of one-half to F. Schmehl, Mount Clemens, Mich. Rocking-horse. 1,621,193; Mar. 15.
- Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 72,146; Mar. 8.
- Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 73,690; Oct. 25.
- Eichorn, Arthur M., assignor, by mesne assignments, to Evernu Corporation, New York, N. Y. Rubber heel. 1,649,294; Nov. 15.
- Eichstadt, Arthur, Falls City, Nebr. Shield-lifting mechanism for cultivators. 1,617,239; Feb. 8.
- Eickmeyer, Carl, Brooklyn, N. Y. Rail joint. 1,640,985; Aug. 30.
- Eickmeyer, Earl E. (See Hatmaker, W. T., and Eickmeyer.)
- Eickmeyer, Earl E., assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Gasoline pump casing. Des. 72,701; May 24.
- Eickworth, Regnier, Dortmund, Germany. Oven. 1,636,989; July 26.
- Eidemann, Frank L., North Bergen, assignor to H. S. Germond, jr., Bayonne, N. J. Safety device for elevating trucks. 1,644,328; Oct. 4.
- Eiditz, Charles L., et al. (See Hartmann, Paul, assignor.)
- Eidmann, Frank L. (See Germond, H. S., jr., and Eidmann.)
- Eidmann, Frank L., North Bergen, assignor to H. S. Germond, jr., Bayonne, N. J. Collapsible handle for portable elevators. 1,631,477; June 7.
- Eiermann, Karl, assignor to the Firm Gebr. Baumann Maschinen und Motofabrik G. m. b. H. & Cie., Commanditgesellschaft, Munich, Germany. Internal-combustion engine. 1,644,517; Oct. 4.
- Eifel, Joseph, Chicago, Ill. Loose-sheet holder. 1,652,521; Dec. 13.
- Eiffe, James M., assignor to White Mop Wringer Company, Fultonville, N. Y. Pat. Des. 73,649; Oct. 18.
- Eiffe, James M., Fultonville, assignor to The White Mop Wringer Company, New York, N. Y. Combined mop wringer and pail. 1,613,267; Jan. 4.
- Eifel, James M., assignor to White Mop Wringer Company, Fultonville, N. Y. Mop wringer. 1,633,008; June 21.
- Elge, Falten, Toronto, Canada, assignor to C. A. Dunham Company, Marshalltown, Iowa. Bucket trap. 1,640,115; Aug. 23.
- Eilers, Jan, assignor of one-half to Tjoen Siang Ie, Amster, Cornelius, Java, Dutch East Indies. Safety device for apparatus for forced lubrication in combustion engines. 1,637,412; Aug. 2.
- Eilert, Adolf, Brunswick, Germany. Frame for stringed musical instruments. 1,618,521; Feb. 22.
- Eilert, Adolf, Brunswick, Germany. Frame for stringed boards of stringed musical instruments. 1,653,555; Dec. 20.
- Elilhauer, Friedrich, Neustadt, Germany. Power weaving loom. 1,642,335; Sept. 13.
- Elmoss, John W. A., Newark, N. J. Typewriter attachment. 1,650,866; Nov. 29.
- Elmarson, Thorvardur, Mountain, N. Dak. Clothespin. 1,618,277; Feb. 22.
- Elmer, Ernest E., assignor to G. W. French and J. L. Hecht, Davenport, Iowa, and W. H. Stackhouse, Springfield, Ohio, doing business as French & Hecht, Davenport, Iowa, and Springfield, Ohio. Metal wheel construction. 1,627,772; May 10.
- Einborn, William M. (See Rabidoux, C. J., and Einborn.)
- Eisen, Sol, and L. F. Nenninger, assignors, by mesne assignments, to Cincinnati Grinding Machine Company, Cincinnati, Ohio. Steady-rest mechanism for grinding machines. 1,654,213; Dec. 27.
- Einstein, Howard C., Cleveland, Ohio. Posting mechanism. 1,650,937; Nov. 29.
- Eis, Harry, Holgate, Ohio. Line drive and clutch control. 1,643,240; Sept. 20.
- Eisen, Ernest E., assignor to Stewart, William E., assignor.)
- Eisele, Logan, Nashville, Tenn. Plunger control for hypodermic syringes. 1,649,022; Nov. 15.
- Eisenberg, Abraham J., Chicago, Ill. Sanitary shaving cup. 1,641,805; Sept. 6.
- Eisenberg, M., & Son. (See Crumley, Le Roy A.)
- Eisenberg, Robert, and H. A. Siefert, Philadelphia, Pa. Combined animal scarf and vanity container. 1,647,514; Nov. 29.
- Eisengiesser, Carl Luber & Sohn. (See Vokac, Johann, assignor.)
- Eisenhauer, Charles P., Dayton, Ohio. Pump casing. Des. 71,961; Feb. 8.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Tank. 1,613,746; Jan. 11.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Pressure switch. 1,619,465; Mar. 1.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Compressor. 1,619,466; Mar. 1.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water-softening apparatus. 1,623,399; Apr. 5.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water-softening apparatus. 1,625,197; Apr. 19.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Automatic water softener. 1,625,198; Apr. 19.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Valve. 1,631,406; June 7.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water softener. 1,634,409; July 5.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Bearing. 1,641,277; Sept. 6.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water softening apparatus. 1,644,714; Oct. 11.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water softener. 1,646,581; Oct. 25.
- Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Pump. 1,651,682; Dec. 6.
- Eisenschitz, Robert, Friedenau, Berlin, Germany, assignor, by mesne assignments, to Bailey Meter Company. Gas-analysis apparatus. 1,643,155; Sept. 20.
- Eisenstadt, Henry. (See Rose, Jay, assignor.)
- Eisenstein, Bernard H., New York, N. Y. Artificial denture. 1,641,626; Sept. 6.
- Eisler, Charles, Newark, N. J. Machine for making radio tube and lamp parts. 1,635,316; July 12.
- Eisler, Charles, Newark, N. J. Machine for making glass mounts. 1,637,989; Aug. 2.
- Eisler, Henry G., Wilmette, Ill. Hydraulic jacking system. 1,613,268; Jan. 4.
- Eitser, Albert N., Minneapolis, Minn. Collapsible container. 1,648,045; Nov. 8.
- Ejk Anna L., South Plainfield, N. J. Table dolly or the like. Des. 73,650; Oct. 18.

- Eijk, Anna L., South Plainfield, N. J. Table cover or the like. Des. 73,651; Oct. 18.
- Eijk, Anna L., South Plainfield, N. J. Piano cover or the like. Des. 73,652; Oct. 18.
- Eik, Arvid, assignor to Brown Company, Portland, Me. Paper towel. 1,645,189; Oct. 11.
- Eikberg, Karl A., New York, N. Y., assignor of one-half to E. Nordlund, Brooklyn, N. Y. Circuit-closing device. 1,647,347; Nov. 1.
- Eikhal, Albert, Boston, Mass. Artificial tree. 1,613,386; Jan. 4.
- Eikelund, John A., Minneapolis, Minn. Figure wheeled toy. 1,633,800; June 28.
- Eikholm, Herbert W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam guide. 1,632,001; June 14.
- Eiklund, Alexander, Attleboro, Mass., assignor to General Chain Company, Providence, R. I. Bracelet. 1,633,575; June 28.
- Eiklund, Alexander, Attleboro, Mass., assignor to General Chain Company, Providence, R. I. Strap hook. 1,641,255; Sept. 6.
- Eiklund, George, assignor to J. F. Sturdy's Sons Co., Attleboro Falls, Mass. Bracelet link. Des. 71,866; Jan. 18.
- Eiklund, Karl, Forest Park, and M. A. Loeck, La Grange, assignors to W. E. Keough Company, Forest Park, Ill. Hair-waving device. 1,621,527; Mar. 22.
- Eiklund, Peter R., et al. (See Busha, Charles P., assignor.)
- Eikuan, Andrew, Grand Rapids, Mich. Vehicle signal. 1,638,296; Aug. 9.
- Eikman, Andrew, Grand Rapids, Mich., assignor to Bleich Syndicate, Packing. 1,625,801; Apr. 26.
- Eikman, Sven S., Gottenborg, Sweden. Hydraulic brake dynamometer. 1,641,069; Aug. 30.
- Eksbergian, Carolus L. (See Kelley, G. L., and Eksbergian.)
- Eksström, Eric S., et al. (See Swenson, Carl E., assignor.)
- Eksström, Gunnar C., Stockholm, and B. A. E. Johnson, Appelbyen, assignors to Aktiebolaget Gerh. Arhens Mekaniska Verkstad, Stockholm, Sweden. Portioning cigarettes or other staff-shaped articles for the packing of the same. 1,639,429; Aug. 16.
- Eksström, Gunnar C., and G. Örström, Stockholm, and B. A. E. Johnson, Appelbyen, assignors to Aktiebolaget Gerh. Arhens Mekaniska Verkstad, Stockholm, Sweden. Packing cigarettes. 1,619,062; Mar. 1.
- Ekvall, Arvid P., assignor to Economic Machinery Company, Worcester, Mass. Labeling machine. 1,630,235; May 24.
- Ekvall, Arvid P., assignor to Economic Machinery Company, Worcester, Mass. Article-portioning means for labeling machines and the like. 1,650,436; Nov. 22.
- Elam, J. F., Sales Service, Inc. (See Marsh, Esli A., assignor.)
- Eibert, Frank V. (See Prokop, John, assignor.)
- Elio Shoe Manufacturers, Inc. (See Davis, Robert, assignor.)
- Elden, Leonard L., et al. (See Adair, Thomas D., Jr., assignor.)
- Elder, Donald, Auckland, New Zealand. Apparatus for watering areas of land. 1,617,749; Feb. 15.
- Elder, Donald, Onehunga, New Zealand. Apparatus for watering areas of land. 1,637,413; Aug. 2.
- Elder, Donald, Onehunga, New Zealand. Spraying nozzle. 1,639,220; Aug. 16.
- Elder, Earl B., Oak Park, assignor to Elder & Robinson Co., Chicago, Ill. Machine for check weighing and grading by weight. 1,619,787; Mar. 1.
- Elder, Emil M. (See Stern, J. M., and Elder.)
- Elder, Frederick, Dayton, Wash. Thrashing machine. 1,621,194; Mar. 15.
- Elder Manufacturing Company. (See Elder, William G., assignor.)
- Elder & Robinson Co. (See Elder, Earl B., assignor.)
- Elder, Thomas W., Jr., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Cane car. 1,631,311; June 14.
- Elder, Thomas W., Jr., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Card-door lock. 1,631,312; June 7.
- Elder, William G., Bardstown, assignor to Elder Manufacturing Company, Bardstown, Ky. Line reel and pin. 1,630,475; May 31.
- Elder, William G., assignor to Elder Manufacturing Company, Bardstown, Ky. Corner guide and plumb rule. 1,643,880; Sept. 27.
- Elder, William M. (See Coffman, S. M., and Elder.)
- Eldred, Frank H., and C. Hutchings, Morris, Ill. Automobile radiator ornament. Des. 72,090; Mar. 1.
- Eldridge, Clyde T., San Francisco, Calif. One-way motor wiper or street sign. 1,620,782; May 24.
- Eldridge, Horatio W., New City, N. Y. Measuring instrument. 1,654,164; Dec. 27.
- Eldridge, Ida M., administratrix. (See Eldridge, J., and Schor.)
- Eldridge, John, deceased, Oakland, and J. Schor, San Francisco, Calif.; I. M. Eldridge, administratrix. Slicing machine. 1,648,583; Nov. 8.
- Eldridge, John, deceased, Oakland, and J. Schor, San Francisco, Calif.; I. M. Eldridge, administratrix. Cheese cutter. 1,648,611; Nov. 8.
- Eldridge, Ray W., Orleans, Vt. Handkerchief-display case. 1,620,808; Mar. 15.
- Electrad, Inc. (See Moss, Arthur, assignor.)
- Electrocon, Inc. (See Tannenbaum, H. J., and Brown, assignors.)
- Electric Arc Cutting & Welding Company. (See Holslag, Claude J., assignor.)
- Electric Auto-Lite Company, The. (See Gilchrist, Clarence F., assignor.)
- Electric Auto-Lite Company, The. (See Saxon, Herman R., assignor.)
- Electric Auto-Lite Company, The. (See Sippel, E. H., and Wright, assignors.)
- Electric Boat Company. (See Cable, Frank T., assignor.)
- Electric Boat Company. (See Nibbs, Ernest, assignor.)
- Electric Controller Company. (See Goldberg, Arthur M., assignor.)
- Electric Furnace Company, The. (See Cope, Frank T., assignor.)
- Electric Furnace Company, The. (See Cope, F. T., and Benzinger, assignors.)
- Electric Generator Corporation, The. (See Reilly, Hugh R., assignor.)
- Electric Hand Saw Company. (See Howland, Harry W., assignor.)
- Electric Heating Apparatus Company. (See Smalley, Edwin L., assignor.)
- Electric Household Utilities Corporation. (See Chapman, Fred J., assignor.)
- Electric Machinery Mfg. Company. (See Hibbard, Charles T., assignor.)
- Electric Outlet Company. (See Hartmann, Povl, assignor.)
- Electric Outlet Company. (See White, Ernest C., assignor.)
- Electric Porcelain and Manufacturing Company, The. (See Rukenbrod, Cornelius J., assignor.)
- Electric Production Appliance Corporation. (See Cooney, Peter A., assignor.)
- Electric Railway Equipment Company, The. (See Johnston, Lynn, assignor.)
- Electric Railway Equipment Company, The. (See Tice, Fred J., assignor.)
- Electric Refrigeration Corporation. (See Fliske, Jonathan P. B., assignor.)
- Electric Refrigeration Corporation. (See Leonard, H. C., and Whittier, assignors.)
- Electric Refrigeration Corporation. (See Replogle, John H., assignor.)
- Electric Refrigeration Corporation. (See Spreen, Charles C., assignor.)
- Electric Refrigeration Corporation. (See Tangenberg, Albert, assignor.)
- Electric Refrigeration Corporation. (See Whittier, Walter H., assignor.)
- Electric Vacuum Cleaner Company. (See Lang, Henry T., assignor.)
- Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)
- Electric Wheel Company. (See Calkins, Addison N., assignor.)
- Electrical Development and Machine Company. (See Liversidge, Horace P., assignor.)
- Electrical Engineers Equipment Company. (See Christensen, Christen, assignor.)
- Electrical Engineers Equipment Company. (See Jacobs, Ernest H., assignor.)
- Electrical Engineers Equipment Company. (See Lotz, Alfred F. C., assignor.)
- Electrical Improvement Limited. (See Gregory, Richard W., assignor.)
- Electrical Improvements Limited. (See Gregory, R. W., and Grant, assignors.)
- Electrical Inventions & Development Company. (See Vecchio, Luigi, assignor.)
- Electrical Research Laboratories, Inc. (See Ballantine, Stuart, assignor.)
- Electrical Testing Laboratories. (See Little, William F., assignor.)
- Electro Company. (See Bassett, Harry P., assignor.)
- Electro Dynamic Company. (See Mudge, Charles A., assignor.)
- Electrograph Advertising Service. (See Thelgaard, Holger, assignor.)
- Electrograph Advertising Service, Inc. (See Bryant, George F., assignor.)
- Electrograph Company, The. (See Murphy, Robert S., assignor.)
- Electrol, Inc. of Missouri. (See Boyd, D. M., and Capen, assignors.)
- Electrol, Inc. of Missouri. (See Russel, P. S., and Boyd, assignors.)
- Electrol, Inc. of Missouri. (See Scott, Lewis L., assignor.)
- Electro-Laboratories, Inc. (See Wallace, Marcel, assignor.)
- Electrolux Manufacturing Company, The. (See Homingway, Wilson, Jr., assignor.)
- Electrolux Serval Corporation. (See Lenning, Alvar, assignor.)
- Electrolux Serval Corporation. (See Munsters, C. G., and von Platen, assignors.)
- Electrolux Serval Corporation. (See Persson, Nils, assignor.)
- Electrolux Serval Corporation. (See Von Platen, B. C., and Munsters, assignors.)

- Electrolytic Zinc Company of Australasia Limited. (See Gepp, H. W., Hey, Rigg, Stevens, and Williams, assignors.)
- Electro-Mechanical Development Company. (See Lofgren, Elino G. C., assignor.)
- Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
- Electro Metallurgical Company. (See Feild, Alexander L., assignor.)
- Electro Metallurgical Company. (See Hambuechen, Carl, assignor.)
- Electro Metallurgical Company. (See Jacobs, Charles B., assignor.)
- Electro Metallurgical Company. (See Korsunsky, Michael G., assignor.)
- Electro-Motive Devices, Inc. (See Asprooth, A. H., and Leoni, assignors.)
- Electron Relay Company, The. (See Laise, Clemens A., assignor.)
- Electrophone Record Corporation. (See Nielsen, Otto, assignor.)
- Electropure Corporation. (See Rudd, Harry B., assignor.)
- Electro Refractories Corporation. (See Hauman, Earl L., assignor.)
- Electro Thermostatic Control Company. (See Goodhue, J. G., and Sauvage, assignors.)
- Electro Thermostatic Control Company. (See Sauvage, Herbert J., assignor.)
- Elektrotrennmachines Gesellschaft mit beschränkter Haftung. (See Grumpelt, Oskar F. A. E., assignor.)
- Elektrotrennmachines Gesellschaft mit beschränkter Haftung. (See Neiss, Oskar H. L., assignor.)
- Elencneider, John B., Brooklyn, N. Y., assignor to De Forest Radio Company, Jersey City, N. J. Sound reproducing device construction. 1,641,667; Sept. 6.
- Eler, John L., assignor, by mesene assignments, to National Malleable and Steel Castings Company, Cleveland Ohio. Card-door fastener. 1,646,748; Oct. 25.
- Elevator Company of America. (See Rice, Joseph, assignor.)
- Elevator Company of America. (See Schakel, Jacob D., assignor.)
- Elevator Safety Appliance Co. (See Guilbert, Nicholas R., Jr., assignor.)
- Elevator Supplies Company. (See Bassett, Cyrus W., assignor.)
- Elevator Supplies Company. (See Dittman, William F., assignor.)
- Elevator Supplies Company. (See Haas, Richard E., assignor.)
- Elevator Supplies Company. (See Jones, Arthur W., assignor.)
- Elevator Supplies Company. (See Norton, Clifford, assignor.)
- Elevator Supplies Company. (See Shonnard, Harold W., assignor.)
- Elevator Supplies Company. (See Weeks, William W., assignor.)
- Eley, Harry J., Sutton Coldfield, Birmingham, England. Centrifugal apparatus for spinning artificial silk and wire. 1,651,683; Dec. 6.
- Eldain, Harry A. (See Meyer, Adolph, assignor.)
- Elfreth, William H., Westtown, and G. B. Weiss, Philadelphia, Pa. Sled. Des. 73,225; Aug. 9.
- Elgey, John R. (See Abbott, W. E., and Elgey.)
- Elgin National Watch Company. (See Laffin, Lloyd A., assignor.)
- Elia, Edward, Brooklyn, N. Y. Hand bag. 1,627,496; May 3.
- Elins, Justin A., Philadelphia, Pa., assignor to F. J. Kline, Long Island City, N. Y. Paper fastener. Re16,610; May 3.
- Elisson, Carl J. E., Sayner, Wis. Vehicle for snow travel. 1,650,334; Nov. 22.
- Ellot, Amory V. (See Wehr, A. J., Elliot, and Sheeres.)
- Elliot, Samuel, Manchester, Mass. Internal-combustion engine. 1,644,329; Oct. 4.
- Elite Lamp Co. (See Christensen, Harry, assignor.)
- Elite Manufacturing Company. (See Burkholder, John H., assignor.)
- Elk River Concrete Products Company. (See Longfellow, Dwight W., assignor.)
- Elkin, Catherine H., et al. (See Threefoot, L., and Elkin, assignors.)
- Elkin, George W. (See Threefoot, L., and Elkin.)
- Elkin, George W., et al. (See Threefoot, L., and Elkin, assignors.)
- Elkin, Mary, et al. (See Threefoot, L., and Elkin, assignors.)
- Elkredge, Elmer E., Oconomowoc, assignor to Pabst Corporation, Milwaukee, Wis. Processed cheese and making the same. 1,634,410; July 5.
- Elilberg, John, New York, N. Y. Suspension device for clothing, curtains, and the like. 1,613,447; Jan. 4.
- Elkinbecker, John P., assignor to Granite City Electric Company, St. Cloud, Minn. Controlling switch. 1,624,483; Apr. 12.
- Ellenberger, Justus, Wiesbaden, Germany, assignor of one-half to British Glues and Chemicals Limited, London, England. Manufacture of artificial horn. 1,649,675; Nov. 15.
- Ellenburg, Joseph N., assignor of one-half to J. J. Thompson, McKinney, Tex. Revolvable moldboard for plows. 1,621,772; Mar. 22.
- Eller, Jacob A., Clovis, N. Mex. Agricultural machine. 1,635,206; July 12.
- Ellerhorst, Walter, Cincinnati, Ohio. Barber's vacuum hair receiver. 1,635,613; July 12.
- Ellerman, Frank O., Dayton, Ohio. Aeroplane helicopter control. 1,622,138; Mar. 22.
- Ellett, Luther S., Milburn, Okla. Spark plug. 1,623,468; Apr. 5.
- Ellett, Richard E., London, England. Toy animal. Des. 72,007; Feb. 15.
- Elley, Harold W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Rubber composition and preparing same. 1,624,724; Apr. 12.
- Elley, Harold W., and D. H. Powers, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanization accelerator and making same. 1,624,723; Apr. 12.
- Elley, Harold W., and D. H. Powers, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of vulcanized rubber and accelerators therefor. 1,643,205; Sept. 20.
- Elley, Harold W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanized rubber and production thereof. 1,652,101; Dec. 6.
- Elling, Jens, A. A., Christiania, and B. Heger, Vestre Aker near Christiania, Norway. Centrifugal friction coupling. 1,650,201; Nov. 22.
- Ellinwood, George H., Milwaukee, Wis., assignor, by mesne assignments, to Fisk Rubber Company, Chicopee Falls, Mass. Inner tubes. 1,613,089; Jan. 4.
- Ellinwood, George H., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanized rubber. 1,642,564; Sept. 13.
- Elliot, John T., Irvington, N. J., assignor to M. Weiss Corporation, Table, 1,624,862; Apr. 12.
- Elliot, William S., assignor to Pro-phy-lactic Brush Company, Northampton, Mass. Handle-bending machine. 1,626,190; Apr. 26.
- Elliot Addressing Machine Company. (See Gray, Elmer E., assignor.)
- Elliot, Albert G. (See Royce, F. H., and Elliott.)
- Elliott, Alexander, Los Angeles, Calif. Oxidizing ferrous sulphate in solution. 1,636,296; July 19.
- Elliott, Bamford, assignor to Warren Leather Goods Company, Worcester, Mass. Hand luggage. 1,614,061; Jan. 11.
- Elliott Company. (See Ehrhart, Raymond N., assignor.)
- Elliott Company. (See Musselman, J. F., and West, assignors.)
- Elliott Core Drilling Company. (See Oliver, Fay, assignor.)
- Elliott, Edwin, and H. Roebuck, Shanghai, China. Thread guide for spinning, twisting, and winding machinery. 1,624,934; Apr. 19.
- Elliott, Elizabeth S. G., New York, N. Y., assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa., a firm composed of W. H. and A. E. Margerison. Towel. Des. 72,362; Apr. 5.
- Elliott-Fisher Company. (See Foothorp, Harry A., assignor.)
- Elliot, Frank. (See McCullough, Charles H., assignor.)
- Elliott, Frank, et al. (See Haibe, Ora F., assignor.)
- Elliott, Frank W. (See Evans, Dossa D., assignor.)
- Elliott, Frank W., et al. (See Hayman, George R., assignor.)
- Elliott, George G., Ste. Anne de Bellevue, Quebec, Canada. Automobile fender. 1,642,233; Sept. 13.
- Elliott, Harnett, Cambridge, Mass. Inking device for printing machines. 1,614,547; Jan. 18.
- Elliott, Harmon P., Watertown, Mass. Stencil machine and stencil therefor. 1,637,443; Aug. 2.
- Elliott, Harold F. (See Beal, R. R., and Elliott.)
- Elliott, Harry D., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation. Paterson, N. J. Finishing machine. 1,615,446; Jan. 22.
- Elliott, Howard B., Oakland, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,636,686; July 26.
- Elliott, Jay W. (See Pfiffner, Frank J., assignor.)
- Elliott, John M., Rimini, S. C. Wrench. 1,638,990; Aug. 16.
- Elliott, Noah W., New Castle, Pa. Rolling metal. 1,625,643; Apr. 9.
- Elliott, Thomas, Birmingham, Ala. Rail brake for railway cars. 1,645,741; Oct. 18.
- Elliott, Thomas, Birmingham, Ala., assignor to The Cincinnati Car Company, Winton Place, Ohio. Railway-truck journal-box yoke. 1,618,070; Feb. 15.
- Elliott, Thomas, Cincinnati, assignor to The Cincinnati Car Company, Winton Place, Ohio. Electrically-operated railway-car door. 1,643,064; Sept. 20.
- Elliott, William E., Lynn, Mass. Attaching machine. 1,627,889; May 10.
- Elliott, Winfred W., Johnson City, assignor to himself and A. H. Shear, copartners, Binghamton, N. Y. Flexible-shaft driving stand. 1,641,130; Aug. 30.
- Ellis, Alvarado L. R., Swampscott, Mass., assignor to General Electric Company. Piezo-electric device. 1,617,905; Feb. 15.
- Ellis, Carleton. (See Byth, J. F., and Ellis.)
- Ellis, Carleton. (See Myers, Joseph V., assignor.)
- Ellis, Carleton, Montclair, N. J. Paint and varnish remover. 1,613,560; Jan. 4.

- Ellis, Carleton, Montclair, N. J. Ethyl alcohol paint and varnish remover. 1,613,561; Jan. 4.
- Ellis, Carleton, Montclair, N. J. Composition of matter for treating animal tissue. 1,621,528; Mar. 22.
- Ellis, Carleton, Montclair, N. J. Making sulphur phenol resin. 1,636,596; July 19.
- Ellis, Carleton, Montclair, N. J. Oil hardening with nickel and copper formates. 1,645,377; Oct. 11.
- Ellis, Carleton, Montclair, N. J. Cold-molding composition containing orthocresol-aldehyde resin binder and curing same. 1,645,693; Oct. 13.
- Ellis, Carleton, Montclair, N. J. assignor to Chadeloid Chemical Company, New York, N. Y. Flame-coloring agent. 1,617,996; Feb. 15.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Removing composition containing ethyl acetate. 1,618,866; Feb. 22.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Ester finish remover. 1,618,867; Feb. 22.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Ethyl-acetate varnish remover. 1,618,868; Feb. 22.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Paint and varnish remover base. 1,647,399; Nov. 1.
- Ellis, Carleton, Montclair, and H. M. Weber, Bloomfield, N. J., assignors to Ellis-Foster Company. Recovery of wastes from nitrocellulose material. 1,657,990; Aug. 2.
- Ellis, Claudia, Jamaica, N. Y. Manicure implement. 1,615,262; Jan. 25.
- Ellis Drier & Elevator Company. (See Ellis, Norman C. and H. C. assignors.)
- Ellis, Edward. (See Bowman, F., and Ellis.)
- Ellis, Fenwick L., Darien, Conn., N. Y. Foldable ironing board. 1,615,116; Jan. 18.
- Ellis-Foster Company. (See Dass, Bauesvar, assignor.)
- Ellis-Foster Company. (See Ellis, C., and Weber, assignors.)
- Ellis-Foster Company. (See Longovoy, Boris N., assignor.)
- Ellis, George D., and Sons, Incorporated. (See Reiling, John J., assignor.)
- Ellis, George H., Spondon, near Derby, England, assignor to American Cellulose and Chemical Manufacturing Company Limited. Dyeing or coloring of products made with cellulose acetate. 1,618,413; Feb. 22.
- Ellis, George H., Spondon, near Derby, England, assignor to American Cellulose and Chemical Manufacturing Company Limited. Dyeing or coloring of products made with cellulose acetate. 1,618,414; Feb. 22.
- Ellis, George H., Spondon, near Derby, England, assignor to American Cellulose and Chemical Manufacturing Company Limited. Dyeing materials comprising cellulose acetate and products produced. 1,618,415; Feb. 22.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of cellulose derivatives. 1,643,565; Sept. 13.
- Ellis, Hubert C. (See Ellis, Norman C. and H. C.)
- Ellis, Hubert C. and N. C. Evanston, Ill. Ironing machine. 1,649,455; Nov. 15.
- Ellis, Hubert C. and N. C. Evanston, Ill. Ironing machine. 1,649,456; Nov. 15.
- Ellis, Hubert C. and N. C. Evanston, Ill. Ironing machine. 1,649,457; Nov. 15.
- Ellis, Humphrey A., Philadelphia, Pa. Grate bar for fine fuel. 1,633,931; June 28.
- Ellis, J. William. (See Ferguson, Lyman H., assignor.)
- Ellis, James F., Lewiston, Idaho. Snap hook. 1,643,881; Sept. 27.
- Ellis, Jesse H., Bristol, Conn. Wrench. 1,615,169; Jan. 18.
- Ellis, John, West View, Pa. Water heater. 1,638,624; Aug. 9.
- Ellis, John W. (See Liord, H. R., and Ellis.)
- Ellis, Lewis M., assignor to Tubal Boiler Co., Chicago. Heating system. 1,618,177; Feb. 22.
- Ellis, Moude, Clay City, Ind. Curtain stretcher. 1,617,750; Feb. 15.
- Ellis, Norman C. (See Ellis, Hubert C. and N. C.)
- Ellis, Norman C. and H. C. Evanston, Ill., assignors to Ellis Drier & Elevator Company, Chicago, Ill. Tilting ramp. 1,631,407; Jan. 18.
- Ellis, Robert E., Seattle, Wash. Hull construction for floating structures. 1,647,515; Nov. 1.
- Ellis, Russell S., Philadelphia, Pa. Concrete structure. 1,651,516; Dec. 6.
- Ellis, Russell S., Philadelphia, Pa. Concrete column. 1,652,431; Dec. 13.
- Ellis, Samuel, Brooklyn, N. Y. Sanitary protector for stems of tobacco pipes, cigar holders, etc. 1,617,580; Feb. 15.
- Ellis, Samuel J., Memphis, Tenn. Cooker sweep. 1,644,878; Oct. 11.
- Ellis, Stuart, Fredericksburg, Va. Irrigated and ventilated flower box. 1,623,720; Apr. 5.
- Ellis, Stuart, Fredericksburg, Va. Irrigated flower box. 1,627,890; May 10.
- Ellis, Walter R., Wilkinson, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clamping device. 1,624,399; Apr. 12.
- Ellis, Wilson R., Berkeley, Calif. Agitator. 1,639,932; Aug. 23.
- Ellis, Winfield H., Little Rock, Ark. Plumbing system. 1,638,745; July 12.
- Ellison, Brass Manufacturing Co. (See Ellison, E. H., and Beckstrom, assignors.)
- Ellison, Edward H., and A. W. Beckstrom, Jamestown, assignors to The Ellison Brass Manufacturing Co., Inc., Falconer, N. Y. Metal door. 1,620,451; Mar. 8.
- Ellison, Hubbard, London, Ontario, Canada. Wind rotor. 1,640,269; Aug. 23.
- Ellison, Lewis M., Chicago, Ill. Draft gauge. 1,613,033; Feb. 1.
- Ellison, Lewis M., Chicago, Ill. Multiple draft gauge. 1,615,871; Feb. 1.
- Ellman, Walter, North Branch, N. Y. Chick feeder. 1,616,113; Feb. 1.
- Ellich, Charles N., assignor to The Peck Stow & Wilcox Co., Southington, Conn. Chuck. 1,651,087; Nov. 29.
- Ellsworth, Frank H. (See Lewis, K. B., and Ellsworth.)
- Ellwein, Frederick, Otter Creek, N. D. Ball bearing. 1,622,578; Mar. 29.
- Elzey, Ambrose, Florida, La. Device for attaching lugs to the wheel. 1,622,189; Mar. 22.
- Elman, Samuel, Syracuse, N. Y. Manufacturing garments. 1,643,707; Sept. 27.
- Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,620,878; Mar. 15.
- Elmer, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Receiver. 1,642,778; Sept. 20.
- Elmendorf, Armin, Chicago, Ill., assignor to Haskelite Manufacturing Corporation. Heat-insulating construction material. 1,615,801; Jan. 25.
- Elmenthaler, William, Cleveland, Ohio. Apparatus for testing electric circuits. 1,630,116; May 24.
- Elmenthaler, William, Cleveland Heights, Ohio. Sifting device. 1,646,787; Oct. 25.
- Elmer, Frank E., and R. W. Roberts, Toledo, Ohio. Hinge construction. 1,652,102; Dec. 6.
- Elmore, Green R., Saline, Mo. Sweep hayrake. 1,640,031; Aug. 23.
- Elmore, Guy H., Swarthmore, Pa. Centrifugal drier. 1,634,865; July 5.
- Elmstrom, Carl A., Medford, Mass. Shoe-tree. 1,651,329; Nov. 29.
- Elmstrom, Robert M., assignor to Standard Manufacturing Co., Medford, Mass. Repair piece for boots and shoes. 1,628,831; May 17.
- Elnett, Anthony A., New York, N. Y. Comb. 1,621,005; Mar. 15.
- Eldö, Egon. (See Askenasy, P., and Eldö.)
- Eldö, Egon. (See Bredig, G., and Eldö.)
- Eldö, Egon, Karlsruhe, assignor to the Firm Rudolph Eldö & Co., Oestrich-on-the-Rhine, Germany. Making sodium formate formic acid compounds. 1,650,984; Nov. 29.
- El Paso Sash and Door Company. (See Evans, George, assignor.)
- El Paso Sash & Door Company. (See Trammell, Earl, assignor.)
- Elphinstone, Alexander C., Orange, N. J. Sign. 1,639,689; Aug. 23.
- Elrod, Henry E., Santa Monica, Calif. Sewage-purifying device. 1,646,478; Oct. 25.
- Elrod, Henry E., Tulare, Calif. Apparatus for preparing infusion beverages. 1,648,963; Nov. 15.
- Elsassner, Emil, and A. Hartmann, Earmen-Langerfeld, Germany, assignors, by mesne assignments, to American Bemberg Corporation. Manufacture of artificial silk. 1,646,788; Oct. 25.
- Elsas, Edward J., Kansas City, Mo. Combined level and plumb. 1,630,174; Mar. 24.
- Elsas, Edward J., Kansas City, Mo. Hinged folding square. 1,653,993; Dec. 27.
- Elsas, Louis J., Atlanta, Ga. Closure for collapsible tubes. 1,647,215; Nov. 1.
- Else, Harry D., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reduction gear transmission. 1,632,123; June 14.
- Else, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,635,248; Aug. 9.
- Else, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,640,768; Aug. 30.
- Else, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,641,418; Sept. 6.
- Else, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,641,419; Sept. 6.
- Else, William. (See Schlueter, Henry C., assignor.)
- Elster, Guido, Herne, Germany. Percussive pneumatic tool. 1,636,813; July 26.
- Elstone, Stanley W., Walkerville, Ontario, Canada, assignor to Huron Manufacturing Co., Detroit, Mich. Tap. 1,613,224; Jan. 4.
- Elstone, Stanley W., Walkerville, Ontario, Canada, assignor to Huron Manufacturing Co., Detroit, Mich. Thread-cutting mechanism. 1,622,190; Mar. 22.
- Elstone, Stanley W., Walkerville, Ontario, Canada, assignor to Huron Manufacturing Co., Detroit, Mich. Washout plug and making same. 1,634,655; July 5.

- Elsworth, Thomas F., et al. (See Wright, Fred W., assignor.)
- Elters, William S., assignor to The Gem City Sheet Metal Co., Dayton, Ohio. Hood for registers. Des. 72,514; Apr. 26.
- Elters, William S., assignor to The Gem City Sheet Metal Company, Dayton, Ohio. Register hood. 1,622,031; Mar. 22.
- Elters, William S., assignor to The Gem City Sheet Metal Company, Dayton, Ohio. Register hood. 1,624,225; Apr. 12.
- Elters, William S., assignor to The Gem City Sheet Metal Company, Dayton, Ohio. Register hood. 1,624,226; Apr. 12.
- Elton, Oscar M. (See Carlson, C. J., and Elton.)
- Eltwood Corporation. (See Woodland, John E., assignor.)
- Elvey, Frederick M., Wimbledon, Surrey, England. Music turner. 1,646,353; Oct. 13.
- Elwell, George H., Cleveland, Ohio, assignor to Carr Fastener Company, Cambridge, Mass. Shank and socket fastening device. 1,637,521; Aug. 2.
- Elwell, George H., Cleveland, Ohio, assignor to Carr Fastener Company, Cambridge, Mass. Snap fastener. 1,652,139; Dec. 6.
- Elwell, George H., Cleveland, Ohio, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,652,140; Dec. 6.
- Elwell-Parker Electric Company. (See Cochran, Clyde E., assignor.)
- Elwood, Willis D., Colville, Wash. Spoon hook. 1,636,904; July 26.
- Ely, James, assignor to Taylor Instrument Companies, Rochester, N. Y. Sensitive diaphragm for light pressure. 1,630,292; May 31.
- Ely, Raymond G., Trexlertown, Pa. Electric switch. 1,632,956; June 21.
- Ely, Thomas M. (See Moore, I. A., and Ely.)
- Elvira Iron and Steel Company, The. (See Sessions, Frank L., assignor.)
- Elwyn, Edgar P., Parkersburg, W. Va. Seat pad. 1,650,335; Nov. 22.
- Emanuel, Joseph L., and P. I. Jacoby, San Francisco, Calif. Biscuit-display case. 1,617,799; Feb. 15.
- Emanuele, Charles, Cleveland, assignor of one-half to F. Deibel, Cleveland Heights, Ohio. Resilient lift for boot and shoe heels. 1,634,537; July 5.
- Emanuele, Charles, Cleveland, Ohio, assignor of one-half to F. Deibel, Cleveland Heights, Ohio. Resilient material for soling and heeling shoes. 1,642,547; Sept. 20.
- Emanuelli, Luigi, assignor to Pirelli & C., Milan, Italy. High-tension electric cable. 1,647,563; Nov. 1.
- Emanuelli, Luigi, assignor to Societa Italiana Pirelli, Milan, Italy. Machine for taping joints of electric cable. 1,653,894; Dec. 27.
- Emanuelli, Luigi, assignor to Societa Italiana Pirelli, Milan, Italy. High-tension-cable joint and making the same. 1,653,895; Dec. 27.
- Emard, Wilfred O., Brookfield, assignor to E. J. Nercil, Oak Park, Ill. Plating equipment. 1,613,878; Jan. 11.
- Embosograf Corporation of America. (See Courtney, Frederick D., assignor.)
- Embossing Company, The. (See Graham, Tom C., assignor.)
- Embohoff, George F. (See Hunt, J. H., Fitzsimmons, and Embohoff.)
- Embohoff, George F., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Fuel burner. 1,640,759; Aug. 30.
- Emel, Joseph, Seabeck, Wash. Holder for clothes and other articles. 1,637,688; Aug. 2.
- Emerick, Robert W., Homestead Park, Pa. Milk bottle. 1,654,365; Dec. 27.
- Emerson, Alfred C., Omaha, Nebr. Oil burner. 1,624,165; Apr. 12.
- Emerson-Brantingham Corporation. (See Traphagen, Harry R., assignor.)
- Emerson-Brantingham Manufacturing Company. (See Traphagen, Harry R., assignor.)
- Emerson Drug Company. (See Hindes, Joseph F., assignor.)
- Emerson Electric Mfg. Co., The. (See Parker, King L., assignor.)
- Emerson, Horton S. (See Gorin, Frederick P., assignor.)
- Emerson, Ralph R., Brooklyn, N. Y., assignor to Hoffman Specialty Company, Waterbury, Conn. Heating system. 1,639,084; Aug. 16.
- Emerson, Russell G., Modesto, Calif. Dispensing container. 1,653,896; Dec. 27.
- Emert, George W., Endicott, N. Y. Device for coupling steam valves to speedometer cables. 1,618,319; Feb. 22.
- Emery, Charles B., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for gauging and adjusting springs. 1,615,117; Jan. 18.
- Emery, Charles B., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical-circuit-connecting device. 1,651,019; Nov. 29.
- Emery, Earle A., assignor to Detroit Cord Manufacturing Company, Detroit, Mich. Finishing welt. 1,617,581; Feb. 15.
- Emery, Ellas J., Lynn, Mass. Friction connection for spindles and bobbins or spools. 1,640,760; Aug. 30.
- Emery, Herbert W., Holliston, assignor to Archer Rubber Company, Milford, Mass. Surface-finishing rubber goods and product of same. 1,631,722; June 7.
- Emery, Louis S., Indianapolis, Ind., and J. J. Maginn, Lima, Ohio. Feed-water purifier for locomotives. 1,652,103; Dec. 6.
- Emery, Plato G., Chicago, Ill. Vestibule-curtain handle. 1,638,685; Aug. 9.
- Emig, Edmund J., Desplaines, Ill. Casement window or door construction. 1,620,526; Mar. 8.
- Emig, Wm. L., Philadelphia, Pa. Awning. 1,652,566; Dec. 13.
- Eminger, Don, et al. (See Lindsey, George C., assignor.)
- Emington Refining Company. (See Tarbox, Leon A., assignor.)
- Emmer, Hans. (See Neresheimer, H. and Emmer.)
- Emmert, Roger J., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-commutator-lead-soldering machine. 1,619,406; Mar. 1.
- Emmet, Richard S., Schenectady, N. Y. Tool for golf greens and the like. 1,653,994; Dec. 27.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Governing mechanism for electric motors. 1,620,527; Mar. 8.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. 1,620,528; Mar. 8.
- Emmons, Harold H. (See Little, Thomas J., Jr., assignor.)
- Emond, William H., Syracuse, N. Y. Closed vehicle. 1,622,098; Mar. 22.
- Emons, Ernest E., Philadelphia, Pa., assignor of one-half to R. E. Hillier, Akron, Ohio. Lens frame for spectacles. Des. 73,074; July 19.
- Emons, Ernest E., Philadelphia, Pa., assignor of one-half to R. E. Hillier, Akron, Ohio. Lens frame for spectacles. Des. 73,075; July 19.
- Emons, Ernest E., Philadelphia, Pa., assignor of one-half to R. E. Hillier, Akron, Ohio. Lens frame for spectacles. Des. 73,076; July 19.
- Emory, Francis F., Leominster, Mass. Steam separator. 1,632,280; June 14.
- Empire Gas and Fuel Company. (See Fisher, James P., assignor.)
- Empire Gasoline Company. (See Born, S., Bennette, and Walker, assignors.)
- Empire Milling Machine Co. (See Hazard, George E., assignor.)
- Empire Milking Machine Company. (See Oakes, Ernest C., assignor.)
- Empsall, George H., et al. (See Boutin, Stanley, assignor.)
- Emrick, Frank W., Buchanan, Iowa. Chain. 1,623,172; Apr. 5.
- Emrick, Frank W., Buchanan, Iowa. Chain. 1,652,932; Dec. 13.
- Emscio Derrick & Equipment Company. (See Black, Walter G., assignor.)
- Emscio Derrick & Equipment Company, et al. (See Davidson, William D., assignor.)
- Emscio Derrick & Equipment Company. (See Goesser, Edwin W., assignor.)
- Emscio Derrick & Equipment Company. (See Goesser, E. W., and Davidson, assignors.)
- Emscio Derrick & Equipment Company, et al. (See O'Brien, Frederick J., assignor.)
- Emscio Derrick & Equipment Company. (See Rawson, Leslie A., assignor.)
- Emscio Derrick & Equipment Company. (See Trout, Oliver C., assignor.)
- Emscio Derrick & Equipment Company. (See Trout, William A., assignor.)
- Emslay, Reuben F., Rocky River, Ohio. Container. 1,624,830; Apr. 12.
- Enamel Products Company, The. (See Foster, Joseph, Jr., assignor.)
- Enall Products Company, The. (See Geiger, F., and Swift, assignors.)
- Enberg, Stone R., assignor to Walden-Worcester, Incorporated, Worcester, Mass. Ratchet wrench. 1,621,499; Mar. 22.
- Enberg, Stone R., assignor to Walden-Worcester, Incorporated, Worcester, Mass. Tool handle. 1,626,671; May 3.
- Enders, Ernst, Albert Lea, Minn. Auxiliary reflector for automobile headlights. 1,624,166; Apr. 12.
- Endrich, Winfield S. (See Friedel, W., and Endrich.)
- Enders, Jacob M., Schenectady, N. Y., assignor to General Electric Company. Variable condenser. 1,641,749; Sept. 6.
- Enders, Karl, Dresden, Germany. Internal-combustion turbine with rotary slide valve. 1,654,119; Dec. 27.
- Endersby, Joseph P., Vancouver, British Columbia, Canada. Steam shovel. 1,637,689; Aug. 2.
- Endicott, George F., and G. H. Godell, St. Paul, Minn. Bearing for railway-axle journals. 1,633,852; June 28.
- Endicott Johnson Corporation. (See Beebe, Stanley J., assignor.)
- Endicott Johnson Corporation. (See Lord, Chester B., assignor.)
- Endicott Johnson Corporation. (See Warner, Benjamin S., assignor.)

- Endicot, Mary A., Terre Haute, Ind. Cooking utensil. 1,648,725; Nov. 8.
- Endless Belt Corporation, Inc. (See Grupe, William F., assignor.)
- Endo, Kotaro, Tokyo, Japan. Water-tube boiler. 1,638,924; Aug. 16.
- Endres, Henry. (See Bittner, Christian, assignor.)
- Endres, Herbert A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding rubber and product obtained thereby. 1,652,141; Dec. 6.
- Endres, Herbert A., Lompoc, and L. Caldwell, Los Angeles, assignors to The Celite Company, Los Angeles, Calif. Siliceous composition of matter. 1,613,443; Jan. 4.
- Endsley, Louis E., Pittsburgh, Pa., assignor to Waugh Equipment Company, Chicago, Ill. Draft gear. 1,627,378; May 8.
- Endsley, Louis E., Pittsburgh, Pa., assignor to Fort Pitt Mine Equipment Company. Car-transfer apparatus. 1,639,726; Aug. 23.
- En, Earl, William J., Ann Arbor, Mich. Carburetor. 1,647,400; Nov. 7.
- Enell, Otto E., Alhambra, Calif., assignor to Chadeloid Chemical Company, New York, N. Y. Treating wax and the products resulting from same. 1,646,280; Oct. 18.
- Enell, Otto E., Alhambra, Calif., assignor to Chadeloid Chemical Company, New York, N. Y. Finish remover containing wax. 1,646,281; Oct. 18.
- Enell, Otto E., Los Angeles, Calif., assignor to H. M. Bruner, J. A. Scheffer, and Harry L. McClure, trustees. Pruning shears. 1,648,984; Nov. 15.
- Engbrecht, Herman J., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Suction-operated liquid-displacing apparatus. 1,626,455; Apr. 26.
- Engel, Albert W., Chicago, Ill. Album. 1,632,002; June 14.
- Engel, Albert W., Chicago, Ill. Picture-mounting device. 1,632,471; Dec. 13.
- Engel, Charles L. and W. S. Kansas City, Mo. Loose-leaf book. 1,644,772; Oct. 11.
- Engel, George. (See Kornicker, A. and Engel.)
- Engel, Walter S. (See Engel, Charles L. and W. S.)
- Engelhard, Charles, Inc. (See Rohm, Wilhelm, assignor.)
- Engelke, Bernard L., et al. (See Amberg, Walter E., assignor.)
- Engleke, Frederick W. St. Louis, Mo. Elbow-bending machine. 1,622,426; Mar. 29.
- Engelmann, Max, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Disinfectant and making same. 1,618,371; Feb. 22.
- Engelmann, Max, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Disinfectant and making same. 1,618,372; Feb. 22.
- Engelmann, Max, and A. R. Albright, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Disinfecting composition. 1,618,369; Feb. 22.
- Engelmann, Max, and A. R. Albright, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Nonhygroscopic seed disinfectant. 1,618,370; Feb. 22.
- Engels, Eugene O., Saginaw, Mich., assignor to Baker Perkins Company, Incorporated, White Plains, N. Y., doing business at Saginaw, Mich. Gas control for ovens. 1,624,935; Apr. 19.
- Engelsiepen, John W., Pittsburgh, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,646,237; Oct. 18.
- Engelsiepen, John W., Pittsburgh, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,646,394; Oct. 25.
- Engelson, David H., Brooklyn, N. Y. Radio dial escutcheon plate. Des. 73,252; Aug. 16.
- Engendahl, Henry L., and E. W. MacLean, said Engendahl, assignor to E. W. MacLean, Reading, Pa. Fountain mop. 1,613,790; Jan. 11.
- Engert, Charles, Berwyn, Ill. Sandwich fork. 1,643,708; Sept. 27.
- Engineer Company, The. (See McLean, Embury, assignor.)
- Engineers Development Company. (See Cole, Theodore S., assignor.)
- Engl, Josef. (See Massolle, J., Engl, and Vogt.)
- Engl, Josef. (See Massolle, J., Vogt, and Engl.)
- Engel, Josef. (See Vogt, H., Engl, and Massolle.)
- England, Frank W. (See Olson, C. G. and England.)
- England, Harry J., Iowa Falls, Iowa. Lever control for clutch pedals. 1,631,929; June 7.
- England, William A., San Francisco, Calif. Mixing faucet. 1,630,695; May 31.
- Englander, Irving. (See Diaz, E., and Englander.)
- Englander Spring Bed Company. (See Bebray, Percival P., assignor.)
- Englander Spring Bed Company. (See Klein, Conrad, assignor.)
- Engle, Andrew, Newton, Iowa. Portable inclinometer. 1,644,879; Oct. 11.
- Engle, Andrew, Newton, assignor of one-half to J. Maine, Des Moines, Iowa. Disposing of waste material and utilizing components thereof. 1,633,078; June 21.
- Engle, Andrew, Newton, assignor of one-half to J. Maine, Des Moines, Iowa. Disposing of waste material and utilizing components thereof. 1,633,079; June 21.
- Engle, Andrew, Newton, assignor of one-half to J. Maine, Des Moines, Iowa. Disposing of waste products and utilizing components thereof. 1,633,080; June 21.
- Engle, Andrew, Newton, assignor of one-half to J. Maine, Des Moines, Iowa. Disposing of waste material and utilizing components thereof. 1,633,081; June 21.
- Engle, Edgar W., Lake Forest, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Battery-charging apparatus. 1,638,478; Aug. 9.
- Engle, George S., Washington, D. C. Primary battery. 1,637,991; Aug. 2.
- Engle, Priscilla A., Carlos, Ind. Scale. 1,641,070; Aug. 30.
- Engle, Washington, Jr., Urbana, Ill. Agricultural implement. 1,635,826; July 12.
- Engleman, Charles W., Abilene, Kans. Fuse. 1,624,322; Apr. 12.
- Engler, Martin, and E. A. Bendixon, Chicago, Ill. Manual tool. 1,615,075; Feb. 21.
- Engler, Rudolf, Salfeld, Germany. Driving gear for paper-sieve-stretching machines. 1,614,062; Jan. 11.
- Engler, William B., Waterloo, N. Y. Hoisting device for vehicle bodies. 1,636,555; July 19.
- Englesbe, Earl P., Roundbrook, N. J. Machine for cutting holes. 1,633,622; Dec. 27.
- English, Analdo M., Brookline, Mass. Measure. 1,634,494; Dec. 27.
- English Brothers Machinery Company. (See Barzen, Richard G., assignor.)
- English Electric Company Limited, The. (See Bremner, English, D. H., assignor.)
- English, Frank, Detroit, Mich. Flexible handled tool. 1,633,995; Dec. 27.
- English, Fred S. (See Perry, T. L., and English.)
- English, Fred S., New London, Conn. Sheet-delivery mechanism for presses. 1,619,106; Mar. 1.
- English, Fred S., New London, Conn. Gripper-tensioning mechanism for presses. 1,628,795; May 17.
- English, Fred S., and T. L. Perry, assignors to The Balboe Printing Press Manufacturing Company, New London, Conn. Cylinder-tripping device for multi-cylinder presses. 1,628,369; May 17.
- English, Fred S., and T. L. Perry, assignors to The Balboe Printing Press Manufacturing Company, New London, Conn. Gripper-tensioning mechanism for presses. 1,628,960; May 17.
- Enlish, Frederick L. (See Calcott, W. S., and English.)
- English, Huntington, assignor to Sargent & Company, New Haven, Conn. Lock. 1,648,726; Nov. 8.
- English, James R. (See Meyer, Theodore F. W., assignor.)
- English & Mersick Co. (See Kaimer, Richard V., assignor.)
- English, Thomas A., Rensselaer, N. Y. Adjustable connection. 1,649,951; Nov. 22.
- Englund, Edwin H., assignor of one-third to S. M. Peterson and one-third to H. M. Peterson, Muskegon Heights, Mich. Tricycle. 1,623,400; Apr. 5.
- Englund, Gustaf A., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Chuck. 1,630,259; May 31.
- Englund, Reuben H. A., Kent, Wash. Amplifier. 1,648,768; Nov. 8.
- Englund, (See Bixby, Milo P., assignor.)
- Engravograph Corporation, The. (See Brock, Peter A., assignor.)
- Engsberg, Ralph W., Lake Mills, Wis., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,633,774; June 28.
- Engstrand, Gunnar C. (See Wheeler, H. J., and Engstrand.)
- Engstrom, Elmer, South Windham, Conn. Apparatus for feeding folded paper tubes or the like. 1,619,711; Mar. 1.
- Engstrom, Ernst F., Maywood, and J. W. Benes, Hollywood, assignors to Everhot Manufacturing Company, Maywood, Ill. Torch. 1,639,169; Aug. 16.
- Engstrom, Gustaf W., Riverside, assignor to International Harvester Company, Chicago, Ill. Pressure regulator. 1,631,719; Jan. 11.
- Engstrom, Henry O., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. 1,638,658; Aug. 9.
- Engstrom, Henry O., Bridgeport, Conn., assignor to De Jur Products Co., New York, N. Y. Jack plug. 1,642,064; Sept. 13.
- Engstrom, Otto L., South Bend, Ind. Concrete-wall form. 1,616,357; Feb. 1.
- Enid Manufacturing Co. (See Rosenthal, William, assignor.)
- Enkler, Frederick S., and G. W. Baird, Poughkeepsie, N. Y. Bottle-cap remover. 1,628,715; May 17.
- Ennis, George H., New York, N. Y. Fastening device. 1,638,783; Aug. 9.
- Ennison, Edith A., executrix. (See Ennison, Walter J.)
- Ennison, Walter J., Brooklyn, N. Y. Landing and taking-off station for airplanes. 1,618,278; Feb. 22.
- Ennison, Walter J., deceased, Brooklyn, N. Y.; E. A. Ennison, executrix. Landing and taking-off station for airplanes. 1,617,769; Aug. 2.
- Enns, Peter C., Herbert, Saskatchewan, Canada. Automatic signals. 1,626,797; May 3.
- Enochs, Andrew C., Oklahoma City, Okla. Window seal. 1,635,076; July 5.
- Enock, Arthur G., Hailsham, assignor to Burectas Limited, London, England. Apparatus for heating, cooling, or otherwise treating liquids in bottles or containers. 1,649,393; Nov. 15.

- Enock, Arthur G., Wembley Park, assignor to Burletas Limited, London, England. Valve mechanism for compressors. 1,649,394; Nov. 15.
- Enock, Arthur G., Hailsham, assignor to Burletas Limited, London, England. Air or gas compressor. 1,652,978; Dec. 13.
- Ensign Chemical Company. (See Chaffin, H. A., and Holmes, assignors.)
- Enright, Stephen P., and J. F. Dillon, Philadelphia, Pa.; said Dillon assignor to said Enright. Flush valve. 1,652,104; Dec. 6.
- Enright, Thomas P., assignor of one-half to J. H. Lawrence and of one-half to E. F. Lawrence, Sterling, Ill. Friction hinge. 1,619,107; Mar. 1.
- Enright, Thomas P., assignor of one-half to J. H. Lawrence and one-half to E. F. Lawrence, Sterling, Ill. Hinge for swinging doors. 1,653,160; Dec. 20.
- Ensford, Walter. (See Sandberg, J., and Ensford.)
- Ensford, Walter, New York, N. Y., and J. Sandberg, Elizabeth, N. J. Electrical soldering iron. 1,646,238; Oct. 18.
- Ensign Carburetor Company. (See Ensign, Paul W., assignor.)
- Ensign Carburetor Company. (See Ensign, Roy F., assignor.)
- Ensign, Emory S., Brookline, assignor by mesne assignments, to National Refrigerating Company, Boston, Mass. Contacting device. 1,652,773; Dec. 13.
- Ensign, Paul W., South Pasadena, assignor to Ensign Carburetor Company, Los Angeles, Calif. Carburetor. 1,655,041; Dec. 20.
- Ensign, Roy F., South Pasadena, assignor to Ensign Carburetor Company, Los Angeles, Calif. Oiling device for internal-combustion engines. 1,615,363; Jan. 25.
- Ensurd, Herman F., Butte, Mont. Shoe cabinet. 1,649,061; Nov. 15.
- Ensle, Fred, Roselle, N. J. Fruit-juice extractor. 1,634,774; July 5.
- Entenman, Albert, Brooklyn, N. Y. Window construction. 1,629,264; May 17.
- Enterprise Boiler & Tank Works. (See Tryner, Ben J., assignor.)
- Enterprise Machine Company, The. (See Harvey, George H., assignor.)
- Enterprise Manufacturing Company, The. (See Adams, Walter L., assignor.)
- Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
- Enterprise Manufacturing Company, The. (See Pfueger, Joseph E., assignor.)
- Enterprise Manufacturing Company of Pennsylvania, The. (See Asbury, Harry E., assignor.)
- Enterprise Manufacturing Company of Pennsylvania, The. (See Buckwalter, Jacob S., assignor.)
- Enterprise Optical Manufacturing Company, The. (See Rockbeck, Alval C., assignor.)
- Enterprise Railway Equipment Company. (See Batho, William F., assignor.)
- Enterprise Railway Equipment Company. (See Campbell, Aryle, assignor.)
- Enterprise Railway Equipment Company. (See Campbell, A., and Zimmer, assignors.)
- Enterprise Railway Equipment Company. (See Dorey, George B., assignor.)
- Entwistle & Kenyon Limited. (See Dickinson, Tom, assignor.)
- Entwistle & Kenyon Limited. (See Kenyon, William H., assignor.)
- Entwistle & Kenyon Limited. (See Shorrocks, James L., assignor.)
- Entwistle, Robert C. F. (See Goldstone, J., and Entwistle.)
- Enyat, Ralph C., assignor to The P. H. & F. M. Roots Company, Connersville, Ind. Stuffing-box vent. 1,637,371; Aug. 2.
- Enyat, Ralph C., assignor to The P. H. & F. M. Roots Company, Connersville, Ind. Fluid meter. 1,641,840; Sept. 6.
- Enzenauer, Stephen C., assignor of one-third to J. F. Brady, Bancroft, Idaho. Trap. 1,645,095; Oct. 11.
- Epitoux, Albert, Paris, France. Electromagnetic device producing constant moving force. 1,631,801; June 7.
- Eppenstein, Otto. (See Steinfle, A. and Eppenstein.)
- Eppenstein, Otto, assignor to the Firm Carl Zeiss, Jena, Germany. Device for the mechanical multiplication of two factors. 1,638,190; Aug. 9.
- Eppenstein, Otto, assignor to the Firm of Carl Zeiss, Jena, Germany. Device for testing bolt threads. 1,649,106; Nov. 15.
- Epperson, Charles B., assignor of one-third to J. H. Rawlings, Sutherland, Va. Preventing chattering in transmissions. 1,633,440; June 21.
- Eppley, Charles S., assignor to Self-Acting Switch Co., York, Pa. Overhead contact for electric-railway switch circuits. 1,618,225; Jan. 4.
- Eppley, Charles S., assignor to Self-Acting Switch Co., York, Pa. Trolley contact. 1,644,013; Oct. 4.
- Eppley, George F., Washington, D. C. Form clamp. 1,649,952; Nov. 22.
- Epps, Claude A., Phoenix, Ariz. Chair seat. 1,613,317; Jan. 4.
- Eppstein, Lewis B., et al. (See Stewart, Frank H., assignor.)
- Epstein, Henry J. (See Bayer, H. K., and Epstein.)
- Epstein, Hirsch, assignor to Hyperbo-Electric Flow Meter Co., Chicago, Ill. Electrical pressure gauge. 1,638,814; Aug. 9.
- Epstein, William C., Dayton, Ohio. Incinerator for garbage or the like. 1,643,206; Sept. 20.
- Epworth Manufacturing Company. (See McDonald, Theodore V., assignor.)
- Equipment Devices Company. (See Kortenhoeven, Peter, assignor.)
- Equipment Specialties Co. (See Gillies, William R., assignor.)
- Equipment Specialties Co. (See Hull, George A., assignor.)
- Erb, Edwin H., West Liberty, Iowa. Highway map. 1,642,830; Sept. 13.
- Erb, Lanius P., Anaconda, Mont., assignor of one-fourth to W. M. C. Smith, Seattle, Wash., and one-fourth to H. J. Allen, Anaconda, Mont. Variable transmission. 1,617,380; Feb. 15.
- Erban, Richard, Vienna, Austria. Swiveling-roller gear. 1,619,813; Mar. 8.
- Erbe, Frank E., Pontiac, Mich. Gas cut-off. 1,635,986; July 19.
- Ercanbrack, J. Edward, Chicago, Ill. Water heater. 1,615,831; Feb. 1.
- Ercanbrack, John E., Chicago, Ill. Tube disposal in heat-transfer apparatus. 1,616,179; Feb. 1.
- Ercanbrack, John E., Chicago, Ill. Vertical-type water heater. 1,615,397; Dec. 13.
- Ercanbrack, John E., assignor to Belle & Gossett Company, Chicago, Ill. Unrestricted-return water heater. 1,651,875; Dec. 6.
- Erdahl, Bernard F., Duluth, Minn. Producing alginate compounds and products derived therefrom. 1,625,301; Apr. 19.
- Erdmann, Gustav, Radebul, near Dresden, assignor to the Firm Gehe & Co. A.-G., Dresden, Germany. Manufacture of ergot-preparation. 1,645,096; Oct. 11.
- Erdmann, Friedrich, Hamburg, Germany. Illuminated level. 1,654,248; Dec. 27.
- Erdoes, Julius, New York, N. Y., assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Discharge case. 1,618,178; Jan. 22.
- Erichsen, Chris. (See Allerhelligen, A. H., Erichsen, and Crain.)
- Erickson, Albert O., assignor of one-half to K. Wold, Jasper, Minn. Spring tool. 1,623,401; Apr. 5.
- Erickson, Albin J., Chicago, Ill. Helicopter wing. 1,615,338; Feb. 1.
- Erickson, Arthur E., Rockham, S. Dak. Harrow. 1,617,997; Feb. 15.
- Erickson, August, assignor of one-fourth to B. Olsen, Minneapolis, and one-fourth to H. L. Pederson, Anoka, Minn. Wind and water motor. 1,650,618; Nov. 29.
- Erickson, Carl O., St. Paul, Minn. Carburetor-manifold heater. 1,624,863; Apr. 12.
- Erickson, Charles J., assignor, by mesne assignments, to Automatic Electric Company, Inc., Chicago, Ill. Switch-board signal. 1,634,325; Dec. 27.
- Erickson, Daniel E. (See Meston, J. R., and Erickson.)
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-beading machine. 1,653,623; Dec. 27.
- Erickson, Erick, Port Orchard, assignor to G. F. Niegemann, Kitsap County, Wash. Logging hook. 1,636,090; July 19.
- Erickson, Erick E., Scandia, Kans. Rail joint. 1,645,857; Oct. 18.
- Erickson, Erick G., Alexandria, Minn. Oarlock. 1,626,191; Apr. 26.
- Erickson, Ernest A., Wilson, and Z. E. Neal, West Elizabeth, N. Y. Piston pin. 1,617,443; Feb. 15.
- Erickson, Frederic W., Larchmont, N. Y. Electric meter and the mounting thereof. 1,634,093; June 28.
- Erickson, Herman A., Fresno, Calif. Piston, wrist pin, and connecting-rod aligning jig. 1,630,476; May 31.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone receiver. 1,617,620; Feb. 15.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay. 1,641,256; Sept. 6.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay. 1,646,956; Oct. 25.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Substation telephone set. 1,649,156; Nov. 15.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay. 1,651,684; Dec. 6.
- Erickson, John, Chicago, and H. F. Obergfell, River Forest, assignors to Automatic Electric Inc., Chicago, Ill. Substation telephone set. 1,649,157; Nov. 15.
- Erickson, John, Chicago, and H. F. Obergfell, River Forest, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Substation telephone instrument. 1,651,685; Dec. 6.
- Erickson, John C., Marathon, Iowa. Motor mounting for corn harvesters. 1,639,402; Aug. 16.

- Erickson, Joseph. (See Walker, William M., assignor.)
 Erickson, Nels. (See Reimers, L., and Erickson.)
 Erickson, Otto H., Minneapolis, Minn. Artificial limb. 1,644,822; Oct. 11.
 Ericksson, Emil, assignor to Wm. A. Field Company, Chicago, Ill. Machine for correcting printing plates. 1,617,208; Feb. 8.
 Ericson, Carl H., Boston, Mass. Coupling for wires, etc. 1,641,627; Sept. 6.
 Ericson, Charles A., assignor to O. Meyer, Chicago, Ill. Machine for grooving printing plates. 1,616,256; Feb. 1.
 Ericsson, Arvid, assignor to Union Special Machine Company, Chicago, Ill. Lapping machine. 1,635,469; July 12.
 Ericson, Henry, Chicago, Ill. Scaffold. 1,616,743; Feb. 8.
 Erie City Iron Works. (See Johnson, Theodore, assignor.)
 Erie City Iron Works. (See Jones, Jacob H., assignor.)
 Erie Foundry Company. (See Derby, Frank H., assignor.)
 Erie Foundry Company. (See Reed, MacDonald S., assignor.)
 Erie Glass Company, The. (See Bock, William E., assignor.)
 Erie Malleable Iron Company. (See Dunmire, Russell P., assignor.)
 Erie Steam Shovel Company. (See Armstrong, Edwin J., assignor.)
 Erie Tool Works, The. (See Bacon, Edwin W., assignor.)
 Erikken, Emil M., Oslo, Norway. Ski tie. 1,626,521; Apr. 26.
 Eriksson, Erik O. (See Broberg, I., Eriksson, and Sjolin.)
 Eriksson, Erik O., Lidings-Brevik, assignor to Aktiebolaget Ljungströms ångturbin, Lidings-Brevik, Sweden. Condenser for locomotives. 1,624,782; Apr. 12.
 Eriksson, Erik O. (See Ljungström, F., Eriksson, and Broberg.)
 Eriksson, Erik O., and G. V. Johansson, Stockholm, Sweden. Fluid-fuel burner. 1,643,579; Sept. 27.
 Erisminger, Joseph H., Feshigo, Wis. Thermostatic-controlled heating system for water-cooled engines. 1,613,847; Jan. 4.
 Ermentraut, Charles J., assignor of one-half to S. Schneeweiss, New York, N. Y. Safety gas cock. 1,618,071; Feb. 15.
 Ermi, Elmer A., assignor to Wirt Company, Philadelphia, Pa. Lamp fixture. Des. 72,205; Mar. 15.
 Erne, John A., West St. Paul, Minn. Shock absorber. 1,614,721; Jan. 18.
 Erni, Walter, Milwaukee, Wis. Steering mechanism for coaster wagons. 1,627,022; May 3.
 Erno Shirt Company, The. (See Cronin, John H., assignor.)
 Ernst, Charles A., Rainier, Wash. Double-gate balanced valve. 1,649,953; Nov. 22.
 Ernst, Charles K., Buffalo, N. Y. Closure for area ways. 1,632,827; June 21.
 Ernst, Charles K., Buffalo, N. Y. Area-way hoist. 1,635,709; July 12.
 Ernst, Charles K., Buffalo, N. Y. Protecting device for areaways and the like. 1,643,207; Sept. 20.
 Ernst, Clemens. (See Schley, F. L., and Ernst.)
 Ernst, Daniel L., Los Angeles, Calif. Soil fitting. 1,629,208; May 17.
 Ernst, Emil, et al. (See Ernst, Emil, assignor.)
 Ernst, Emil, Maplewood, assignor to N. L. Lamm, I. W. Longacre, and E. Ernst, comprising the Firm of C. P. Root Beer Company, St. Louis, Mo. Beverage-dispensing apparatus. 1,654,249; Dec. 27.
 Ernst, Eugene C. F., Pittsburgh, Pa. Wall-paper machine. 1,646,282; Oct. 18.
 Ernst, Eugene C. F., Pittsburgh, Pa. Machine for trimming wall paper. 1,652,522; Dec. 13.
 Ernst, Harry J., assignor to The D. T. Williams Valve Company, Cincinnati, Ohio. Valve structure and locking device. 1,623,807; Apr. 5.
 Ernst, Johannes, assignor to J. Ernst, Bad Salzungen, Germany. Exhaust silencer. 1,646,283; Oct. 18.
 Ernst, Josef. (See Ernst, Johannes, assignor.)
 Ernst, Joseph F., Chicago, Ill. Beam and post connecting bracket. 1,614,722; Jan. 18.
 Ernst, Otto, and O. Nicodemus, Hoechst-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Preparing a highly-active charcoal. 1,621,195; Mar. 15.
 Ernst, Walter, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. High-speed hydraulic press. 1,653,350; Dec. 20.
 Ernst, Victor C., Lakewood, Ohio. Photographic appliance. 1,645,590; Oct. 18.
 Ernst, William. (See Moss, E., and Ernst.)
 Ernst, William, assignor to Hamilton Beach Mfg. Co., Racine, Wis. Motor mounting. 1,617,837; Feb. 15.
 Ernst, William, assignor to Hamilton Beach Mfg. Co., Racine, Wis. Motor bracket. 1,633,009; June 21.
 Erreboile, Julio P., La Escondida, Argentina. Padlock. 1,617,204; Feb. 8.
 Errett, Thomas A. (See Krugen, T. R., and Errett.)
 Erskine, Clyde, St. Louis, Mo. assignor to International Motor Company, New York, N. Y. Tractor trailer construction. 1,613,747; Jan. 11.
 Erskine-Danforth Corporation. (See Erskine, Ralph C., assignor.)
 Erskine, James E., Jacksonville, Fla. Pneumatically-operated lubricator. 1,621,975; Mar. 22.
 Erskine, James E., Jacksonville, Fla. Monogram. 1,635,077; July 5.
 Erskine, Ralph C., Stamford, Conn., assignor to Erskine-Danforth Corporation. Table. Des. 72,363; Apr. 5.
 Erskine, Ralph C., Stamford, Conn., assignor to Erskine-Danforth Corporation. Bedstead. Des. 72,994; July 5.
 Erskine, Ralph C., Stamford, Conn., assignor to Erskine-Danforth Corporation. Chair. Des. 72,395; July 5.
 Ersted, Alfred J., Portland, Oreg. Clutch-engaging device. 1,625,769; Apr. 19.
 Erwin, Cyril W., Rural Valley, Pa. Antiskidding device. 1,618,869; Feb. 22.
 Erwin, Orlando R., Forest Hills, assignor to Foamite-Childs Corporation, New York, N. Y. Apparatus for extinguishing fires. 1,629,027; May 17.
 Erwin, Orlando R., Forest Hills, assignor to Foamite-Childs Corporation, New York, N. Y. Fire-extinguishing apparatus. 1,640,116; Aug. 23.
 Erwin, Orlando R., Forest Hills, assignor to Foamite-Childs Corporation, New York, N. Y. Pail extinguisher. 1,640,117; Aug. 23.
 Erwin, Orlando R., Forest Hills, N. Y., and W. D. Witter, Roselle Park, N. J., assignors to Foamite-Childs Corporation, New York, N. Y. Mixer and distributor fire-extinguishing apparatus. 1,629,490; May 24.
 Erwin, Weldon C., Yorba Linda, and C. H. Sweet, Brea, assignors to J. W. MacClatchie, Compton, Calif. Tong-operating safety appliance. 1,625,528; Apr. 19.
 Erwin, Weldon C., Yorba Linda, and C. H. Sweet, Brea, Calif. Oil-well tester and sampler for determining point of fluid entry. 1,652,472; Dec. 13.
 Esau, Abraham, Jena, Germany. Antenna arrangement for short-wave apparatus. 1,633,775; June 28.
 Esau, Abraham, Jena, Germany. Arrangement for improving short-wave radiation into space. 1,647,283; Nov. 1.
 Esau, George W., Milwaukee, Wis. Desk calendar. 1,632,393; June 14.
 Eschbach, Wilhelm, Troisdorf, Germany. Explosive cap. 1,629,864; Apr. 5.
 Eschholz, Otto H. (See Goldsborough, T. R., and Eschholz.)
 Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Welding. 1,615,686; Jan. 25.
 Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,630,477; May 31.
 Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Baffling and separating structure. 1,637,372; Aug. 2.
 Eschholz, Otto H., Beaver, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic arc-welding apparatus. 1,615,687; Jan. 25.
 Eschholz, Otto H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arcing contact. 1,622,630; Mar. 29.
 Eschholz, Otto H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding electrode. 1,652,107; Dec. 6.
 Esgro, Samuel, Clarksdale, Miss. Merchandise-delivery cabinet. 1,645,694; Oct. 18.
 Eshenbaugh, Alvin J. (See Claypoole, C. M., and Eshenbaugh.)
 Esbleman, Edgar L., Rochester, N. Y. Portable music holder. 1,649,217; Nov. 15.
 Escholme, John W. (See Thomson, A., and Escholme.)
 Escholme, John W., East Orange, N. J., assignor to Red Star Appliances, Inc., New York, N. Y. Stamp-canceling machine. 1,632,281; June 14.
 Escholme, John W., East Orange, N. J., assignor to Red Star Appliances, Inc., New York, N. Y. Stamp-canceling machine. 1,633,235; June 21.
 Escholme, John W., East Orange, N. J., assignor to Red Star Appliances, Inc., Stamford, Conn. Stamp-canceling machine. 1,633,246; June 21.
 Escholme, John W., Glen Ridge, N. J., assignor to Red Star Appliances, Inc., New York, N. Y. Envelope-sealing machine. 1,633,244; June 21.
 Eskine, Pie Corporation. (See Nelson, Christian K., assignor.)
 Eskimo Pie Corporation. (See Urschel, William E., assignor.)
 Esmarian, Charles, Clifton, N. J. Score-indicating ball-return game. 1,612,912; Jan. 4.
 Esnault-Pelterie, Robert, Paris, France. Piston packing capable of resisting to a high temperature. 1,616,310; Feb. 1.
 Esnault-Pelterie, Robert, Boulogne-sur-Seine, France. Progressive change-speed device. 1,616,311; Feb. 1.
 Espanol, Agustin E. (See Espanol, Domingo and A. E.)
 Espanol, Domingo and A. E., Buenos Aires, Argentina. Wrapping paper. Des. 72,252; Mar. 22.
 Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Multiple antenna system for radiocommunication. 1,622,370; Mar. 29.
 Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Distribution of intelligence. 1,633,082; June 21.
 Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Secrecy system. 1,633,626; June 28.

- Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Carrier-current telephony. 1,635,207; July 12.
- Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Amplifying circuit. 1,647,216; Nov. 1.
- Espenschied, Lloyd, Hollis, N. Y., and D. K. Martin, Orange, N. J., assignors to American Telephone and Telegraph Company. Duplex radio system. 1,616,892; Feb. 8.
- Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. High-frequency signalling system. 1,638,925; Aug. 16.
- Esping, Conrad and R. Moline, assignors to Berry Shocker Incorporated, Chicago, Ill. Grain shocker. 1,614,782; Jan. 18.
- Esping, Robert. (See Esping, Conrad and R.)
- Esptallier, Louis, Jennings, La. Game. 1,633,887; June 28.
- Essary, John W., Hamlin, Tex. Trailer hitch. 1,644,916; Oct. 11.
- Esselen, Gustavus J., jr. (See Brown, C. A., and Esselen.)
- Esselinet, Alfred B., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper. 1,637,073; July 26.
- Esselinet, Alfred B., assignor to Goodman Manufacturing Company, Chicago, Ill. Draft-operated scrapers. 1,644,243; Oct. 4.
- Esser, Peter, Clifton, N. J., assignor to Louis Marx & Company, Inc., New York, N. Y. Gymnastic toy. 1,641,477; Sept. 6.
- Essex, Harry, Syracuse, N. Y., and A. L. Ward, Upper Darby, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making polyhydroxy carbon compounds. 1,626,398; Apr. 26.
- Essex Motors. (See Fekete, Stephen I., assignor.)
- Essick, Newman, Los Angeles, Calif. Plaster mixer. 1,630,789; May 31.
- Essick, Newman, Los Angeles, Calif. Plaster-mixing device. 1,630,790; May 31.
- Essmann, Heinrich A., Altona-Ottensen, assignor to the Firm Ottensener Waagenfabrik Albert Essmann & Co., Altona, Germany. Weighing scale. 1,624,588; Apr. 12.
- Estate Stove Company. (See Kahn, Bertrand B., assignor.)
- Estauch, William, Wanstead, England. Means of and apparatus for transmitting messages through submarine and other like cables. 1,631,254; June 7.
- Estay, William G., Duquesne, Pa. Valve. 1,653,996; Dec. 27.
- Estep, William G., Duquesne, Pa. Faucet. 1,653,997; Dec. 27.
- Esterbrook, Edward T., Flint, assignor to General Motors Corporation, Detroit, Mich. Wheel-shipping strap. 1,640,890; Aug. 30.
- Esterline, Albert M. and W. L., and L. E. Burns, Muncie, Ind. Combination tool. 1,642,493; Sept. 13.
- Esterline, Walter L. (See Esterline, A. M., and W. L., and Burns.)
- Esterow, Harry, New York, N. Y. Cigar lighter. Des. 73,372; Aug. 30.
- Esterow, Harry, New York, N. Y. Device for applying bands on pens or pencils. 1,614,606; Jan. 18.
- Estes, William, New York, N. Y. Cigar lighter. 1,646,085; Oct. 18.
- Estes, Clarence H., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Bar for foundry flasks. 1,627,165; May 3.
- Estes, Dana, Brookline, Mass. Fire extinguisher. 1,653,847; Dec. 27.
- Estes, Ezra L. (See Estes, George L., assignor.)
- Estes, George L., Oklahoma City, Okla. Stop signal for crossings. 1,620,087; Mar. 8.
- Estes, George L., Oklahoma City, assignor to E. L. Estes, Shawnee, Okla. Depressible traffic signal. 1,615,576; Jan. 25.
- Estes, John H., and W. P. Williams, Fort Worth, Tex. Railway crossing signal. 1,625,459; Apr. 1.
- Estey, Arthur C., Fayville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-laying machine. 1,642,017; Sept. 13.
- Estey, James R. (See Johnston, R. C., and Estey.)
- Estrada, Luis, Buenos Aires, Argentina. Window. 1,621,463; Mar. 15.
- Estrom, Joseph O., administrator. (See Kittelson, Halmer C.)
- Estwick, Charles F., assignor to General Railway Signal Company, Rochester, N. Y. Intermittent inductive train control. 1,619,712; Mar. 1.
- Estwing, Ernest O., assignor to Estwing Manufacturing Company, Inc., Rockford, Ill. Hand tool. Re16,820; Dec. 20.
- Estwing, Ernest O., assignor to Estwing Manufacturing Company, Inc., Rockford, Ill. Axe sheath. 1,633,319; June 21.
- Estwing Manufacturing Company. (See Estwing, Ernest O., assignor.)
- Etablissements Ed. Jaeger. (See Rodanet, Charles H. H., assignor.)
- Etablissements Poulenc Frères. (See Vigreux, Charles, assignor.)
- Etablissements Samga et Bavox Reunis. (See Voreaux, Paul, assignor.)
- "Eternit," Pietra Artificiale, Società Anonima. (See Mattel, D., and Mazza, assignors.)
- Etheridge, Ernest L., Brooklyn, N. Y. License-plate holder. 1,643,580; Sept. 27.
- Etheridge, Harry, Zellenople, Pa. Railway-rail support. 1,615,327; Jan. 25.
- Etherington, William J. (See Wille, H. V., Campbell, and Etherington.)
- Etna Machine Company, The. (See Abbey, Nelson D., assignor.)
- Etner, Lyle L. (See Livingston, Charley W., assignor.)
- Etzel Company, The. (See Sheedy, J. M., and Myers, assignors.)
- Euler, Crane & Holst Company, The. (See Armstrong, Arthur P., assignor.)
- Eureka Steel Range Company. (See Willard, Joseph T., assignor.)
- Eurit, Carl, assignor to Eurit Specialty Corporation, Tulsa, Okla. Pin attachment for cranks. 1,652,617; Dec. 13.
- Eurit Specialty Corporation. (See Eurit, Carl, assignor.)
- Evans, Harry C., Los Angeles, Calif. Snap-action valve for flush tanks and the like. 1,637,444; Aug. 2.
- Eustis, Warner, Newton, Mass. Mirror mounting. 1,631,193; June 7.
- Ev-Air-Tight Calking Co. (See Pedrick, Howard A., assignor.)
- Evett, Emil, Alliance, Ohio. Swing. 1,623,913; Apr. 5.
- Evans, Herbert, Iron Works, Ltd. (See Cameron, Jarrett L., assignor.)
- Evanoev, Samuel T., Seattle, Wash. Liquid slot machine. 1,649,515; Nov. 15.
- Evans, Albert E. (See Rotheram, J., and Evans.)
- Evans, Albert E., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for cracking oil and having continuously-formed sheet glass. 1,620,014; Mar. 8.
- Evans, Archibald D., New Castle, Pa. Package. 1,648,612; Nov. 8.
- Evans, Arthur B., Leeds, England. Inking mechanism of planographic rotary printing machines. 1,654,250; Dec. 27.
- Evans, Auto Loading Co. Inc., The. (See Evans, Edward S., assignor.)
- Evans, Benjamin, Albany, assignor to Fort Orange Paper Company, Castleton-on-Hudson, N. Y. Display carton. 1,620,197; Mar. 8.
- Evans, Benjamin A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for forming strip material. 1,654,214; Dec. 27.
- Evans, Benjamin A. (See Cadden, C. C., Slusher, and Evans.)
- Evans, Benjamin A. (See Jaquith, W. E., Evans, and Foerster.)
- Evans Brake & Supply Co. (See Mehline, Emile, assignor.)
- Evans Case Co. (See Radley, Samuel S., assignor.)
- Evans Case Company. (See Reilly, Alfred P., assignor.)
- Evans, Charles B., Chicago, Ill. Resilient wheel. 1,633,522; June 21.
- Evans, Charles S., Oakland, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Pipe-wrapping machine. 1,622,427; Mar. 29.
- Evans, Charles T., Titusville, Pa. Electrical resistance. 1,644,921; Jan. 18.
- Evans, Charles T., Titusville, Pa. Alloy steel and making it. 1,639,989; Aug. 23.
- Evans, Clarence T., Wauwatosa, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,616,684; Feb. 8.
- Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Arc shield. 1,617,515; Feb. 15.
- Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Operating mechanism for electric controllers. 1,638,838; Aug. 16.
- Evans, Clarence T., and W. H. Holder, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,649,893; Nov. 22.
- Evans, E. S., & Co. (See Evans, Edward S., assignor.)
- Evans, E. S., & Company. (See Michod, Charles L., assignor.)
- Evans, Edgar L. (See Smith, G. A., and Evans.)
- Evans, Edward S. (See Harry, Earl L., assignor.)
- Evans, Edward S., Detroit, Mich. Two-part tie down. 1,637,992; Aug. 2.
- Evans, Edward S., Detroit, Mich., assignor to E. S. Evans & Co., Inc. Motor-vehicle-transporting box. 1,641,026; Aug. 30.
- Evans, Edward S., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Chock block. 1,651,260; Nov. 29.
- Evans, Edwin R., Detroit, Mich. Gear-shift-lever lock. 1,615,589; Jan. 25.
- Evans, Edwin R., Detroit, Mich. Internal-combustion engine. 1,639,762; Aug. 23.
- Evans, Edwin R., Detroit, Mich. Vehicle brake mechanism. 1,648,168; Nov. 8.
- Evans, Fenton B., Redmond, Wash. Lubricating apparatus. 1,634,458; July 5.
- Evans, Frank, Spartanburg, S. C. Steel-wool ink eraser. 1,617,473; Feb. 15.
- Evans, Frank J., and H. C. Hansen, Minneapolis, Minn., assignors, by mesne assignments, to Loudon Machinery Company, Fairfield, Iowa. Automatic oil burner. 1,637,898; Aug. 2.

- Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated. Talking toy mechanism. 1,630,260; May 31.
- Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated. Talking toy mechanism. 1,630,261; May 31.
- Evans, George, assignor to El Paso Sash and Door Company, El Paso, Tex. Built-in telephone cabinet. 1,620,637; Mar. 15.
- Evans, George, assignor to El Paso Sash and Door Company, El Paso, Tex. Ironing-board cabinet. 1,625,354; Apr. 19.
- Evans, George C., Cranford, N. J. Automatic pneumatic tire-pressure maintainer. 1,647,401; Nov. 1.
- Evans, George S. (See Vial, F. K., and Evans.)
- Evans, George S., Middle Brighton, Victoria, Australia. Piston. 1,634,024; June 18.
- Evans, George S., Oak Park, Ill., assignor to The Mathieson Alkali Works, New York, N. Y. Refining of iron. 1,646,728; Oct. 25.
- Evans, George W. B., Wilderness, Va., assignor to Evans Ore Construction Company, Washington, D. C. Furnace for treating refractory ores containing precious metals. 1,636,467; July 19.
- Evans, Harold A. (See Byron, J. P., and Evans.)
- Evans, Harold A., assignor to Parco Specialty Co., Lynn, Mass. Boot and shoe manufacture. 1,618,754; Feb. 22.
- Evans, Harry L., and G. I. Hohl, Newport, R. I. Carton-ging machine. 1,622,709; Mar. 29.
- Evans, Harry L., and G. I. Hohl, assignors to Carton-ging Machinery Corporation, Newport, R. I. Mechanism for lining cartons. 1,633,247; June 21.
- Evans, Humphrey, and H. E. Heilbrunner, assignor to Holeproof Hosiery Co., Milwaukee, Wis. Full-fashioned hosiery. 1,619,199; Mar. 1.
- Evans, John M., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Vapor line for oil tanks. 1,613,269; Jan. 4.
- Evans, John R., Windsor, Ontario, Canada, assignor of one-fourth to B. W. Tanzy, Detroit, Mich. Steam generator. 1,644,715; Oct. 11.
- Evans, Joseph M., et al. (See McCullough, Joseph P., assignor.)
- Evans, Joseph T., Boise, Idaho. Eyeglasses or spectacles. 1,619,659; Mar. 1.
- Evans, Lewis W., Pittsfield, Mass., assignor to General Electric Company. Lightning arrester. 1,651,876; Dec. 6.
- Evans, Lincoln B. (See Parks, W. J., and Evans.)
- Evans, Maurice, Barnston, Nebr. Cultivator. 1,625,302; Apr. 19.
- Evans Ore Reduction Company. (See Evans, George W. B., assignor.)
- Evans, Powell, and A. T. Wilson, Philadelphia, Pa., assignors to snid Powell Evans. Flexible coupling. 1,650,202; Nov. 22.
- Evans, Richard W., Spokane, Wash. Screen for automobiles. 1,619,501; Mar. 1.
- Evans, Richard W., Spokane, Wash. Window screen. 1,653,351; Dec. 20.
- Evans, Robert D. (See Fortescue, C. L., and Evans.)
- Evans, Robert D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Metering system. 1,615,688; Jan. 25.
- Evans, Robert D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-factor meter. 1,621,006; Mar. 15.
- Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Distributing system. 1,619,337; Mar. 1.
- Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balance indicator. 1,624,484; Apr. 12.
- Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission system. 1,640,539; Aug. 30.
- Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission system. 1,640,540; Aug. 30.
- Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of distribution. 1,651,449; Dec. 6.
- Evans, Robert M., Seattle, Wash. Treating threaded surfaces of nuts and bolts. 1,645,740; Oct. 18.
- Evans, Robert M., Seattle, Wash. Railway switch. 1,653,998; Dec. 27.
- Evans, Robert T., Scottsdale, Ariz. Abdominoscope. 1,621,159; Mar. 15.
- Evans, Sylvanus C., Providence, R. I. Door guide. 1,654,163; Dec. 27.
- Evans, W. Ira, et al. (See Szakacs, Joseph, assignor.)
- Evans, William, Youngstown, Ohio. Safety handle device. 1,622,996; Mar. 29.
- Evans, William F., Anderson, Ind. Scraping machine. 1,622,820; Dec. 13.
- Evans, William H., Bridgeport, Conn. Flexible ventilating hose. Re16,719; Aug. 23.
- Evans, William L., Washington, Ind. Device for making ring joints. 1,617,621; Feb. 15.
- Evans, William L., Washington, Ind. Device for making ring joints. 1,617,622; Feb. 15.
- Evans, William L., Washington, Ind. Ring-joint machine. 1,617,623; Feb. 15.
- Evans, William S., Morsemere, N. J. Crown and traveling block pulley. 1,615,170; Jan. 18.
- Evans, Wilson, assignor to Aluminate Sales Corporation, Chicago, Ill. Treating liquids. 1,620,332; Mar. 8.
- Evans, Wilson, assignor to Aluminate Sales Corporation, Chicago, Ill. Treating liquids. 1,620,333; Mar. 8.
- Evanuk, Michael, Tottenville, N. Y. Astronomy device. 1,648,007; Sept. 20.
- Evarts, Edward M., et al. (See Knauss, Harry A., assignor.)
- Eveleth, Anne S. (See Gregg, Holland C., assignor.)
- Evelyn, Harry C., Chicago, Ill. Electric toy. 1,637,470; Aug. 2.
- Eveno, Georges, Paris, France. Lubricating paddle for journal boxes. 1,617,205; Feb. 8.
- Eveno, Georges, Paris, France. Oil recovering and ob-turating ring. 1,652,153; Dec. 6.
- Eveno, Georges, Paris, France. Device for the recovery of lubricant from axle boxes. 1,653,950; Dec. 27.
- Evensen, William, Chicago, Ill., assignor to Goss Printing Press Company. Machine for operating upon stereo-type plates. 1,614,290; Jan. 11.
- Evensen, William, Chicago, Ill., assignor to Goss Printing Press Company. Plate-clamping mechanism for print-ing presses. 1,637,690; Aug. 2.
- Evensen, William, Chicago, Ill., assignor to Goss Print-ing Press Company. Cylinder bearing. 1,646,056; Oct. 18.
- Evensen, William, Chicago, Ill., assignor to Goss Print-ing Press Company. Printing-press inking mechanism. 1,646,057; Oct. 18.
- Everedy Company, The. (See Leber, Harry J. and R. W., assignors.)
- Everest, Ernest J. (See Ingram, W. C., and Everest.)
- Everett, Joseph I., Langlois, Oreg. Snubber. 1,640,651; Aug. 30.
- Everett, Edward A., New York, N. Y. Lamp socket. 1,652,398; Dec. 13.
- Everett, Harry, Casper, Wyo. Emergency brake. 1,640,492; Aug. 30.
- Everett, James M., Clearwater, assignor of one-half to C. J. Hunt, Lake Wales, Fla. Transplanting pot. Re16,690; July 26.
- Everett, Samuel J., Thornton Heath, England. Hypo-dermic virus and needle therefor. 1,630,928; May 31.
- Everett, William J., assignor of thirty per cent to B. L. Morrison, Indianapolis, Ind. Feed-water purifier for locomotives. 1,652,106; Dec. 6.
- Everhart, Harry H., Canton, Ohio. Ventilating screen. 1,614,191; Jan. 11.
- Everhot Heater Company. (See Shuell, Frank W., as-signor.)
- Everhot Heater Company. (See Shuell, F. W., Led-better, Ebbey, assignor.)
- Everhot Manufacturing Company. (See Engstrom, E. F., and Bones, assignors.)
- Everist, Charles T. (See Sleber, Jacob, assignor.)
- Everite Signal Company. (See Cummings, George A., assignor.)
- Everitt, Walter E., assignor to Flocking Fire Extinguisher Company Inc., Seattle, Wash. Fire extinguish-er. 1,652,105; Dec. 6.
- Everlast Sporting Goods Mfg. Co. (See Golomb, Morris, assignor.)
- Everlasting Valve Company. (See Wilson, Wylie G., as-signor.)
- Everlite Lamp Co. (See Roettges, Frederick W.)
- Eversu Corporation. (See Eichorn, Arthur M., assignor.)
- Evers, Arthur J., assignor to Evers-Savage Company, Chicago, Ill. Sheet cutting and transporting appliance. 1,617,381; Feb. 15.
- Evers, Arthur J., assignor to Self Locking Machine Com-pany, Chicago, Ill. Pasteboard-bag-making machine. 1,651,877; Dec. 6.
- Evers, Edward H., Cincinnati, Ohio. Radio apparatus. 1,619,407; Mar. 1.
- Evers-Savage Company. (See Evers, Arthur J., as-signor.)
- Eversharp Manufacturing Co. (See Boylan, Thomas F., assignor.)
- Evershed and Vignoles, Limited. (See Perry, Charles E., assignor.)
- Eversole, John H., Columbus Grove, Ohio. Writing pen. 1,649,676; Nov. 15.
- Evgut, Frank, Chicago, Ill. Flowerpot. 1,631,802; Jan. 7.
- Everts, Walter W., Fort Worth, Tex., assignor to S. Post, C. H. Clarke, and A. G. McMath. Exercising bed. 1,638,025; Aug. 9.
- Evertz, Knute, Bellingham, Wash. Opposite-replica modeling machine. 1,651,757; Dec. 6.
- Evinrude Motor Company. (See Pennell, William J., as-signor.)
- Evinrude Motor Company. (See Hillborn, Herbert J., assignor.)
- Evinrude Motor Company. (See Mould, James A., as-signor.)
- Evinrude, Dossa D., et al. (See Hayman, George R., as-signor.)
- Evinrude, Dossa D., assignor to F. W. Elliott, Davenport, Iowa. Attachment for chiropractic tables. Re16,653; June 14.
- Evinrude, Dossa D., assignor of one-half to F. W. Elliott, Davenport, Iowa. Diagnostic instrument. 1,648,939; Nov. 15.

- Eyr Klean Seat Pad Co. (See Wells, Frank, assignor.)
 Ewak, A.-G. (See Amsler, August, assignor.)
 Ewald, Arno A., Oakfield, Wis. Stabilizing device. 1,629,265; May 17.
 Ewald, Harry W., Schenectady, N. Y., assignor to General Electric Co. System of distant control. 1,614,192; Jan. 11.
 Ewald, Leo, Minneapolis, Minn. Filtering apparatus. 1,639,933; Aug. 23.
 Ewald, Martin B., Preston, Ontario, Canada, assignor to J. J. Schneider, Buffalo, N. Y. Tongue support for vehicles. 1,654,072; Dec. 27.
 Ewen, Charles V., Long Beach, Calif. Gas-pressure regulator. 1,648,337; Nov. 8.
 Ewart, Andrew. (See Ewart, Orrie F. C. and A.)
 Ewart, Orrie F. C. and A., Port Huron, Mich. Roller-blind support for casement windows. 1,620,596; Mar. 8.
 Ewen, John A., Brooklyn, N. Y. Pocket clasp for pens and pencils. 1,614,607; Jan. 18.
 Ewen, John A., Brooklyn, N. Y. Pocket and pencil clasp. 1,630,651; Aug. 23.
 Ewend, Walter H., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,645,322; Oct. 11.
 Ewens, Samuel C., Springhill, La. Radius-rod clamp. 1,627,695; May 10.
 Ewert, Nathaniel L. (See Dunlap, F. L., and Ewer.)
 Ewertz, Eric H., Elizabeth, N. J. Vessel. 1,619,063; Mar. 1.
 Ewing, Ada F. (See Ewing, Urbane J. and A. F.)
 Ewing, Charles A., Lansing, Mich. Method and material for construction of houses. 1,654,120; Dec. 27.
 Ewing, Claude, Brooklyn, N. Y., assignor to American Bell Telephone Co. Telegraph company. Testing system. 1,621,480; Mar. 15.
 Ewing, Frank K., Worcester, Mass., and S. R. Cummings, Canton, Ohio, assignors to The Hoover Company. Air filter. 1,628,397; May 10.
 Ewing, Hollie D., Shreveport, La. Oil and gas burner. 1,617,327; Feb. 15.
 Ewing, Urbane J. and A. F. Wilkinsburg, assignors to Pittsburgh Lavatory Supply Inc., Pittsburgh, Pa. Mop holder. 1,630,418; May 31.
 Ewing, Walter L., Philadelphia, Pa. Combined advertising cigar cutter and lighter stand. 73,653; Oct. 18.
 Ewing, William B., Chicago, Ill. Steam generator. 1,632,438; June 24.
 Excelsior Corporation. (See Schröder, Paul, assignor.)
 Excel Shoe Form Company. (See Niles, Walter L. C., assignor.)
 Excella Pattern Company. (See Laub, George M., assignor.)
 Ex-Cell-O Tool & Manufacturing Co. (See Buffington, G. L., and Hopson, assignors.)
 Excelsior Hardware Company, The. (See Komenak, Albert J., assignor.)
 Excelsior Steel Furnace Company, The. (See Scherer, Albert G., assignor.)
 Ex-El Company, The. (See Vaughan, Ross, assignor.)
 Exner, William F. (See Deipel, J., and Exner.)
 Exten, Rudolph P., assignor to Climax Engineering Company, Clinton, Iowa. Renewable moisture trap. 1,649,818; Nov. 22.
 Exton, Alfred H. (See Alexander, R. L., and Exton.)
 Exton, William G., New York, N. Y. Method of and apparatus for measuring turbidities and color of fluids. 1,635,470; July 12.
 Exton, William G., New York, N. Y. Apparatus for measuring fluids for turbidity, color, and other characteristics. 1,644,330; Oct. 4.
 Exton, William G., New York, N. Y. Instrument for measuring fluids for turbidity, color, and other characteristics. 1,644,331; Oct. 4.
 Extrom, Victor E., Minneapolis, Minn. Combined cigar lighter and advertising-display stand. Des. 72,765; May 31.
 Eyer, Charles H., West New York, N. J. Oil pressure feeding device. 1,641,221; Sept. 6.
 Eyer, George H., and E. S. Snyder, Nutley, N. J. Bathing cigarette and match case. 1,628,961; May 17.
 Eynan, Bradford. (See Van Zandt, H., and Eynan.)
 Eynon, Thomas M., Philadelphia, Pa. Pressure indicator for showing gasoline height. 1,615,263; Jan. 25.
 Eynon, Thomas M., Philadelphia, Pa. Gasoline-pressure gauge. 1,615,264; Jan. 25.
 Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,624,659; Apr. 12.
 Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,646,957; Oct. 25.
 Eynon, Thomas M., Philadelphia, Pa. High-speed steam and air blower. 1,647,402; Nov. 1.
 Ezendam, Jan H., assignor to N. V. Industrie- en Handelsmaatschappij v. H. Harms & Co., Amsterdam, Netherlands. Electric arc welding apparatus. 1,635,208; July 12.
 F. Ad Richter & Cie. A. G., Baukastenfabrik. (See Strub, Otto H., assignor.)
 F. and H. Mfg. Co. (See Hennings, Charles H., assignor.)
 Faas, Charles T., Ridgewood, N. J. Garbage container. 1,651,020; Nov. 29.
 Fabbrin, Frank, Tallman, assignor to Continental Products Corporation, New York, N. Y. Umbrella cover, rib, and stick connection. 1,638,764; Aug. 9.
 Fabens, Andrew L., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Apparatus for finishing metal ware. 1,651,197; Nov. 29.
 Faber, Eberhard L., New York, N. Y., assignor to Eberhard Faber Rubber Co. Type-cleaning compound. 1,629,862; May 24.
 Faber, Franz, Jersey City, N. J. Dynamometer. 1,614,354; Jan. 11.
 Faber, Guy S., assignor to Art Metal Radiator Cover Co., Chicago, Ill. Hamper. 1,653,556; Dec. 20.
 Faber, Otto, assignor to The Geo. L. Squier Mfg. Co., Buffalo, N. Y. Recovering soluble matter from air currents in driers. 1,615,872; Feb. 1.
 Faber, Paul, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Cooling of dynamo-electric machines. 1,653,845; Dec. 27.
 Fabian, Emanuel, Berlin-Charlottenburg, assignor to the FIRM Hermann Hurwitz & Co., Berlin, Germany. Multiplying original records and the plates used in said process. 1,616,358; Feb. 1.
 Fabian, Jules, assignor to General Motors Research Corporation, Dayton, Ohio. Internal-combustion-engine piston. 1,642,432; Sept. 13.
 Fabric Body Corporation. (See Childs, Kenneth L., assignor.)
 Fabricord Incorporated, trustee. (See Lowry, George A., assignor.)
 Fabrique Nationale D'Armes de Guerre Societe Anonyme. (See Mattlet, Ernest, assignor.)
 Fabriques des Montres Zenith, successeur de Fabriques des Montres Zenith Georges Fabre-Tacot & Co. (See Kosat, Charles, assignor.)
 Fabyin, George. (See Grunder, Hubert, assignor.)
 Faceli, Anthony, Hastings, Pa. Square, plumb, level, and measure. 1,646,958; Oct. 25.
 Fackler, John M., assignor to New Holland Machine Company, New Holland, Pa. Humidifier pan. 1,615,689; Jan. 25.
 Fackler, John M., assignor to New Holland Machine Company, New Holland, Pa. Damper. 1,652,712; Dec. 13.
 Fackler, John M., assignor to New Holland Machine Company, New Holland, Pa. Automatic damper. 1,652,713; Dec. 13.
 Fackler, Louis, Ridgewood, N. J., assignor to The Steindavies Company, New York, N. Y. Adhesive and its manufacture. 1,618,150; Feb. 15.
 Faessler, J., Manufacturing Company, The. (See Maupin, Graves R., assignor.)
 Fafnir Bearing Company, The. (See Harris, Archer H., assignor.)
 Fafnir Bearing Company, The. (See Harris, Howard C., assignor.)
 Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
 Fafnir Bearing Company, The. (See Vile, Merwin S., assignor.)
 Fagan, Charles D., Sharon, assignor to Sharpville Boiler Works Co., Sharpville, Pa. Drain pit and grease rack. 1,654,073; Dec. 27.
 Fagan, Edward J., Rochester, N. Y. Radius-rod reinforcement. 1,649,158; Nov. 15.
 Fagan, James P., La Junta, Colo. Vehicle signal. 1,644,640; Oct. 4.
 Fagan, John C., and J. J. Malloy, Cleveland, Ohio, assignors to General Electric Company. Glass working machine. 1,621,359; Mar. 15.
 Fagan, Roy D., Toronto, Ontario, Canada. Liquid purifier. 1,642,433; Sept. 13.
 Fagan, Thomas J., Arlington, Mass. Watch-chain swivel. 1,632,828; June 21.
 Fagen, Abraham A., Minneapolis, Minn. Coin-operated vending machine. 1,621,244; Mar. 15.
 Fageol, Rollie B. (See Fageol, William B., assignor.)
 Fageol, Rollie B., Oakland, Calif. Resilient radiator shield. 1,628,131; May 10.
 Fageol, Rollie B., Los Angeles, Calif. Convertible wagon and sled. 1,654,284; Dec. 27.
 Fageol, Rollie B., Los Angeles, Calif., assignor to American Chain Company, Inc., Bridgeport, Conn. Multibar bumper. 1,620,334; Mar. 8.
 Fageol, Rollie B., Los Angeles, Calif., assignor to American Chain Company, Inc., Bridgeport, Conn. Parallel-bar bumper. 1,623,583; Apr. 5.
 Fageol, Rollie B., Los Angeles, Calif., assignor to American Chain Company, Inc. Spacer clamp for bumpers. 1,623,584; Apr. 5.
 Fageol, Rollie B., Los Angeles, Calif., assignor to American Chain Company, Inc., Bridgeport, Conn. Fender guard. 1,637,770; Aug. 2.
 Fageol, William B., assignor to R. B. Fageol, Oakland, Calif. Automobile brake. 1,633,776; June 28.
 Fager, Albert H., Los Angeles, Calif. Vehicle running gear. 1,620,808; Mar. 15.
 Fager, Albert H., assignor of one-half to H. A. Fager, Los Angeles, Calif. Compensating truck-wheel attachment. 1,618,961; Feb. 22.
 Fager, H. A. (See Fager, Albert H., assignor.)
 Fagerstrom, Lawrence F. (See Caswell, Fred C., assignor.)
 Faherty, Michael W., Los Angeles, Calif. Ram. 1,619,005; Mar. 1.
 Fahy, William C., Grafton, Mass. Thermostatic valve. 1,630,929; May 31.

- Fahnen Schmidt, Hans, Cassel, Germany. Screw connection for siphons of washbasins, fountains, and the like. 1,622,773; Mar. 29.
- Fahnestock, Arthur B., Manhattan, N. Y., assignor, by license assignments, to Locomotive Stoker Company, Pittsburgh, Pa. Mechanical stoker. 1,647,126; Nov. 1.
- Fahnestock, Archie P., Long Island City, N. Y. Spring terminal clip. 1,622,631; Mar. 29.
- Fahnestock, Archie P., Long Island City, N. Y. Spring terminal clip. 1,622,632; Mar. 29.
- Fahnestock, Archie P., and A. A. Danda, Long Island City, N. Y. Switch for B batteries. 1,649,107; Nov. 15.
- Fahrenfeld, Fred W., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Hinge. 1,631,365; June 7.
- Fahrenwald, Frank A., Chicago, Ill. Firearm and alloy for making same. Re16,556; Feb. 22.
- Fahrenwald, Frank A., Chicago Heights, Ill. Metallurgical furnace. 1,623,469; Apr. 5.
- Fahrenwald, Frank A., Chicago, Ill. Furnace. 1,624,043; Apr. 12.
- Fahrenwald, Frank A., Chicago, Ill. Rabbie and rabbie arm for furnaces. 1,628,495; May 10.
- Fahrenwald, Frank A., Chicago Heights, Ill. Heat-resisting damper and the like. 1,629,589; May 24.
- Fahrenwald, Frank A., Chicago Heights, Ill. Heat-resisting plate. 1,643,766; Sept. 27.
- Fahrenwald, Frank A., and Cleveland Heights, Ohio. Electric iron. 1,648,169; Nov. 8.
- Fahney, Emery H., Chicago, Ill. Cream separator. 1,631,194; June 7.
- Faby, Frank P. (See Nilsson, Lars G., assignor.)
- Fabys, Joseph, & Co. (See Cook, Harry, assignor.)
- Fabys, Joseph, & Company. (See Vermot, Henry B., assignor.)
- Faelen, Andrew, Jersey City, N. J. Shaving-cup stand. 1,622,633; Mar. 29.
- Fallor, Charles W. (See Thompson, H. A., and Fallor.)
- Falish, Frank E., and R. W. Sprigg, Oklahoma City, Okla. Fishing-rod appliance. 1,626,333; Apr. 26.
- Falsh, Walter C., Norfolk, Va. Integral closet structure. 1,644,716; Oct. 11.
- Faint, Henry J. (See Gildersleeve, J. H., and Faint.)
- Fairbairn, Francis A., assignor to Palmers Limited, Montreal, Quebec, Canada. Vanity case. 1,620,088; Mar. 8.
- Fairbank, Jesse C., Braman, Okla. Parting flange for drum hoists. 1,642,106; Sept. 13.
- Fairbanks, E. Hayward. (See Haag, Alfred H., assignor.)
- Fairbanks, Ernest H., Merchantville, N. J. Lubricating system. 1,626,456; Apr. 26.
- Fairbanks, E. and T., and Company. (See Bousfield, Fairbanks, E. and T., and Company.)
- Fairbanks, E. and T., and Company. (See Hadley, Harlan A., assignor.)
- Fairbanks, E. and T., and Company. (See Starr, Morton H., assignor.)
- Fairbanks, Morse & Co. (See Adams, Edward T., assignor.)
- Fairbanks, Morse & Co. (See Jahnhke, Charles B., assignor.)
- Fairbanks, William, Los Angeles, Calif. Jumping rope. 1,629,209; May 17.
- Fairbanks, William D., Merchantville, N. J. Low center of gravity, completely-inclosed double-deck bus. 1,636,505; July 19.
- Fairbrother, Frederic A., Providence, R. I. Jewelry component. Re16,741; Sept. 20.
- Fairbrother, Thomas H., and A. Renshaw, assignors to British Dyestuffs Corporation Limited, Manchester, England. Mildewproofing of fibrous material. 1,618,416; Feb. 22.
- Fairchild Aerial Camera Corporation. (See Henry, Ferdinand G., assignor.)
- Fairchild, Arthur B., Buhl, Idaho. Grease-cup valve. 1,625,717; Apr. 19.
- Fairchild, Charles N., Milford, Conn., assignor to Fairchild Lock Corporation, New York, N. Y. Trigger control. 1,622,501; Mar. 29.
- Fairchild, Charles N., Milford, Conn., assignor to Fairchild Lock Corporation, New York, N. Y. Manually controlled lock. 1,622,502; Mar. 29.
- Fairchild, Charles N., Milford, Conn., assignor to Fairchild Lock Corporation, New Castle County, Del. Retarder for circuit breakers. 1,646,528; Oct. 25.
- Fairchild, Charles N., Milford, Conn., and P. J. Hull, Hagerstown, Md., assignors to Fairchild Lock Corporation, New York, N. Y. Lock. 1,622,500; Mar. 29.
- Fairchild, Charles O., Washington, D. C., and F. E. Rash, assignors to The Brown Instrument Company, Philadelphia, Pa. Measuring-instrument scale. 1,615,447; Jan. 25.
- Fairchild Deflector Corporation. (See Hainline, Russell C., assignor.)
- Fairchild, Elmer E. A. A. Adamson, and C. F. Morley, assignors to Alderman Fairchild Company, Rochester, N. Y. Sheet-feeding mechanism. 1,639,221; Aug. 16.
- Fairchild, Fernenc G. (See Fairchild, Harry P., assignor.)
- Fairchild, Glen G., Indianapolis, Ind. Automobile chassis-greasing apparatus. 1,645,097; Oct. 11.
- Fairchild, Harry P., assignor to F. G. Fairchild, New York, N. Y. Magazine pencil. 1,614,463; Jan. 18.
- Fairchild, Hulon B., Sanford, Miss. Radius-rod clamp. 1,618,373; Feb. 22.
- Fairchild Lock Corporation. (See Fairchild, Charles N., assignor.)
- Fairchild Lock Corporation. (See Fairchild, C. N., and Hull, assignors.)
- Fairchild, Sherman M., New York, N. Y. Aerial camera. 1,612,860; Jan. 4.
- Fairchild, Sherman M., New York, N. Y. Camera. 1,610,108; Mar. 1.
- Fairchild, Sherman M., Onconta, N. Y. Photographic shutter. 1,626,032; Apr. 26.
- Fairchild, Walter H., Chicago, Ill., assignor to Mid-West Box Company, Anderson, Ind. Lamp wrapper. 1,619,608; Mar. 1.
- Fairchild, Walter L., New York, N. Y. Vulcanizing apparatus. Re16,542; Feb. 8.
- Fairchild, Walter L., New York, N. Y. Pneumatic tube. 1,625,460; Apr. 19.
- Fairchild, Walter L., New York, N. Y. Apparatus for producing pneumatic tubes. 1,632,394; June 14.
- Fairchild, Walter L., New York, N. Y. Producing pneumatic tubes for vehicle tires and the like. 1,638,659; Aug. 9.
- Fairey, Charles R., Haynes, England. Aeroplane and like aircraft having folding wings. 1,652,618; Dec. 13.
- Fairfax, William M. (See Wright, V. B., and Fairfax.)
- Fairfield Engineering Company, The. (See Walker, Henry B., assignor.)
- Fairfield Shipbuilding & Engineering Company. (See Trall, R., and Strachan, assignors.)
- Fairgrieve, Archibald. (See Fairgrieve, Frederick M. and Fairgrieve, Frederick M. and A., Toronto, Ontario, Canada. Tub for washing machines. 1,630,478; May 31.
- Fairless, Oscar, Blackfoot, Idaho. Automobile safety signal. 1,641,325; Sept. 6.
- Fairless, William, Oakland, Calif. Window construction. 1,632,700; June 14.
- Fairlie, Andrew M., Atlanta, Ga. Recovery of oxides of nitrogen in sulphuric-acid manufacture. Re16,709; Aug. 23.
- Fairman, F. Wilson. (See Baker, William H., assignor.)
- Fairman, Knowlton C., and F. N. Wagner, Creekside, Pa. Automobile fan. 1,636,355; July 19.
- Fairmont Box Company. (See Wade, V. M., and Zuspan, assignors.)
- Fairmont Gas Engine & Ry. Motor Car. Co. (See Kasper, Walter F., assignor.)
- Fairmont Railway Motors, Inc. (See Kasper, Walter F., assignor.)
- Fairmont Railway Motors, Inc. (See Kastler, Edward L., assignor.)
- Fairmont Glass Works. (See Rau, John, assignor.)
- Fairweather, Charles B., West Chester, assignor of one-half to F. E. Moore, Coatesville, Pa. Vehicle wheel. 1,619,607; Mar. 1.
- Fairweather, Nelson H., Everett, assignor to Gillette Safety Razor Company, Boston, Mass. File wire. 1,621,400; Mar. 15.
- Faison, William A. (See Blue, Louis V., assignor.)
- Faison, William A., et al. (See Gage, Charles H., assignor.)
- Faison, William A., et al., trustees. (See Gage, Charles H., assignor.)
- Fait, John, Glenburne, Md. Motion-picture-projecting machine. 1,619,606; Mar. 1.
- Faitelovitz, Arnold, Berlin, Germany. Apparatus for the production of preserves of vegetable matter of unlimited durability. 1,647,089; Oct. 25.
- Falth Mfg. Co. (See Falth, S., and Klasstorner, assignors.)
- Faith, Stephen, and S. Klasstorner, assignors to Falth Mfg. Co., Chicago, Ill. Automobile radiator-cap ornament. Des. 74,004; Dec. 6.
- Faiver, Marshall A., Girard, Ohio. Meat-block cleaner. 1,643,832; Sept. 27.
- Falck, Hans J. (See Halvorsen, B. F., Falck, and Ravner.)
- Falck, Joseph E., assignor to National Casket Company, Incorporated, Pittsburgh, Pa. Burial casket. Des. 73,285; Aug. 23.
- Falck, Julius, et al. (See Wendler, Alex., assignor.)
- Falck, Ferdinand, Haspe, Germany. Manufacture of pure barium carbonate. 1,640,652; Aug. 30.
- Falco, Mike, Canonsburg, Pa. Penholder. 1,625,115; Apr. 19.
- Falconer, Harry W. (See Ross, H. C., and Falconer.)
- Fales, Elisha N., Dayton, Ohio. Wind tunnel for flight of models. 1,635,038; July 5.
- Fales, Elisha N., Lake Forest, Ill. Cooling heated surfaces. 1,635,039; July 5.
- Fales, Elisha N., Lake Forest, Ill. Flow meter. 1,635,040; July 5.
- Fales, Elisha N., Dayton, Ohio. Air-speed indicator. 1,646,903; Oct. 25.
- Fales, Lewis F., Walpole, Mass. Sewing machine. 1,622,774; Mar. 29.
- Falge, Robert N., Cleveland, Ohio, assignor to General Electric Company. Incandescent lamp. 1,621,360; Mar. 15.
- Falk Corporation, The. (See Banner, Otto A., assignor.)
- Falk Corporation, The. (See Day, Percy C., assignor.)
- Falk, George F., assignor of one-half to S. A. Taylor, La Crosse, Wis. Liquid-level gauge. 1,630,611; May 31.

- Falk, Morris, assignor to Independent Lock Company, Hitchburg, Mass., Key chain. 1,626,334; Apr. 26.
- Falkenberg, Wilhelm, assignor to A. Wielich, New York, N. Y. Calorimeter and measuring heat. 1,616,312; Feb. 1.
- Falkenthal, Erwin, Berlin-Dahlem, Germany. Supporting surfaces for flying machines, parachutes, and the like, rudder surfaces and protecting surfaces. 1,613,348; Jan. 4.
- Falkenthal, Erwin, Berlin-Dahlem, Germany. Process and apparatus for mixing gases. 1,643,065; Sept. 20.
- Falkner, Ralph S., Melbourne, Victoria, Australia. Cane-harvesting machine. 1,651,920; Dec. 6.
- Falknor, Frank B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless receiving system. 1,633,932; June 28.
- Fall, Charles, and F. Pall, Essexville, Mich. Latch lifter for freight car couplers. 1,641,924; Sept. 6.
- Fall, Edward A., Rutherford, N. J. Heating hood for tank-car outlets. 1,620,452; Mar. 8.
- Fall, Edward A., Rutherford, N. J. Tank car. 1,620,453; Mar. 8.
- Fall, Edward A., Rutherford, N. J. Placard holder for tank cars. 1,644,774; Oct. 11.
- Falla, Ferdinand, Jakobson, N. Y. assignor to Edge Moor Iron Company, Edge Moor, Del. Method and apparatus for supplying additional heat to waste-heat boiler plants. 1,614,109; Jan. 11.
- Falla, Hedley, Milford, N. H. Can opener. 1,634,493; July 5.
- Faller, Ernest A., and E. E. Kleinschmidt, Brooklyn, N. Y., assignors, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Method of and device for transmitting electric impulses. 1,620,638; Mar. 15.
- Falot, Alfred, Planen, Germany, deceased; H. Priestner, executor. Sheet-delivering device for printing presses. 1,646,529; Oct. 25.
- Fallou, Jean G., assignor to L'Union Generale d'Electricite, Paris, France. Frequency reducing arrangement. 1,633,481; June 21.
- Falls Rubber Company, The. (See Schnedarek, Emil, assignor.)
- Falor, Abram E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Fabric-covered strip material and making the same. 1,628,832; May 17.
- Falor, Abram E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tube-skiving apparatus. 1,635,710; July 12.
- Falor, Abram E., and F. H. Martin, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Shoe. 1,636,905; July 26.
- Falstrom, Henry W., See Montan, A., and Falstrom.)
- Falstrom, Henry W., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Slide. 1,643,767; Sept. 27.
- Falvo, Joseph B., Detroit, Mich. Rubber heel. 1,615,007; Jan. 18.
- Famous Players-Lasky Corporation. (See Garbutt, Frank E., assignor.)
- Famous Players-Lasky Corporation. (See Garbutt, F. E., and Fear, assignors.)
- Famous Players-Lasky Corporation. (See Wyckoff, Alvin, assignor.)
- Fanella, Carlo, Rome, Italy. Musical appliance. 1,628,039; May 10.
- Fanelli, Anthony P. (See Doelckner, M. A., and Fanelli.)
- Fankhauser, Charles W., Great Bend, Kans. Coupling for closets. 1,626,135; Apr. 26.
- Fanner Manufacturing Company, The. (See Schane, Edward H., assignor.)
- Fanner Manufacturing Company, The. (See Schane, E. H., and Durant, assignors.)
- Fanning, Walter N., Vallejo, Calif. Radio receiving system. 1,649,341; Nov. 15.
- Fansteel Products Company. (See Baker, John C., assignor.)
- Fansteel Products Company. (See Balke, Clarence W., assignor.)
- Fansteel Products Company. (See Engle, Edgar W., assignor.)
- Farabee, Henry E. (See Fraser, John J., assignor.)
- Faracher, Warren F., and W. A. Gruse, assignors to Gulf Refining Company, Pittsburgh, Pa. Cracking hydrocarbon oils. 1,629,908; May 24.
- Faracher, Warren F., and W. A. Gruse, assignors to Gulf Refining Company, Pittsburgh, Pa. Process and apparatus for cracking hydrocarbon oils. 1,640,444; Aug. 30.
- Farah, Mansour, El Paso, Tex. Automobile lock. 1,625,249; Apr. 19.
- Farber, Clayton W. (See Breyer, F. G., and Farber.)
- Farber-Krasyer & Bro. (See Krasyer, Irving, assignor.)
- Farber, S. W., Inc. (See Buckley, James J., assignor.)
- Farber, Simon W., Brooklyn, N. Y. Lamp base. Des. 72,008; Feb. 15.
- Farber, Simon W., Brooklyn, N. Y. Holder for a glass dish or similar article. Des. 74,005; Dec. 6.
- Farber, Simon W., Brooklyn, N. Y. Holder for glasses. Des. 74,006; Dec. 6.
- Farber, Simon W., Brooklyn, N. Y. Holder for glasses. Des. 74,007; Dec. 6.
- Farber, Simon W., Brooklyn, N. Y. Holder for glasses. Des. 74,008; Dec. 6.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Serving tray or similar article. Des. 72,702; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Casserole holder. Des. 72,703; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Casserole holder. Des. 72,704; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Holder for glasses. Des. 72,705; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Holder for glasses. Des. 72,706; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Holder for glasses. Des. 72,707; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Holder for glasses. Des. 72,708; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Holder for glasses. Des. 72,709; May 24.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Holder for glasses and bottle. Des. 72,794; June 7.
- Farber, Simon W., assignor to Simon W. Farber, Inc., Brooklyn, N. Y. Cup or similar article. Des. 73,029; July 1.
- Farber, Simon W., Inc. (See Farber, Simon W., assignor.)
- Farbman, Israel, Philadelphia, Pa. Coat. 1,625,355; Apr. 19.
- Fares, Joseph, Los Angeles, Calif. Antitheft device for automobiles. 1,615,364; Jan. 25.
- Fargo, Edwin, Syracuse, N. Y. Foldable wheel chair. 1,650,826; Nov. 29.
- Faries, Charles L., Tippecanoe City, Ohio, assignor to American Telephone and Telegraph Company. Telegraph system. 1,624,939; Apr. 11.
- Faries Manufacturing Company. (See Miller, George L., assignor.)
- Farkas, Louis, New York, N. Y. Bust supporter. 1,620,335; Mar. 8.
- Farkas, Louis, Bronx, N. Y. Hat and neck protector. 1,646,333; Oct. 18.
- Farkoub, Henry, Brooklyn, N. Y. Portable radioantenna. 1,640,929; Aug. 30.
- Farley, Edward L., Jonesboro, Ark. Cotton feeder and separator. 1,647,860; Nov. 1.
- Farley, John W., administrator. (See Tolson, Robert L., assignor.)
- Farley, John W., trustee. (See Tolson, Robert L., assignor.)
- Farley, John W., Cleveland, Ohio. Plate thimble for pipes. 1,627,961; May 10.
- Farley, John W., Cleveland, Ohio. Plate thimble for pipes. 1,627,962; Nov. 29.
- Farlow, Margaret E., et al. (See Fuetterer, Otto F., assignor.)
- Farmer, A. S., et al. (See Donnellson, Blanche, assignor.)
- Farmer, Arthur J., Chicago, Ill. Combined washbasin and foot tub. 1,616,313; Feb. 1.
- Farmer, Clyde C., assignor to one-half to F. Z. Pant-Hind, Grand Rapids, Mich. Table support. 1,638,839; Aug. 16.
- Farmer, Clarence R. (See Worster, Harold B., assignor.)
- Farmer, Clyde C. (See Wildin, G. W., and Farmer.)
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric governor switch. 1,615,365; Jan. 25.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load brake. 1,615,366; Jan. 25.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,615,367; Jan. 25.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Triple-valve device. 1,615,368; Jan. 25.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load brake. 1,615,369; Jan. 25.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-cylinder device. 1,615,370; Jan. 25.
- Farmer, Clyde C., Pittsburgh, and J. C. McCune, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,622,430; Mar. 29.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Reservoir device. 1,626,804; May 3.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,626,605; May 3.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car-door-controlling device. 1,626,672; May 3.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Flexible diaphragm device. 1,626,673; May 3.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,633,728; June 28.

- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Retarded release-valve device. 1,633,777; June 28.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor-controlling device. 1,633,778; June 28.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic car coupler. 1,636,687; July 26.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric train-line switch. 1,641,071; Aug. 30.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston packing ring. 1,641,072; Aug. 30.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,644,569; Oct. 4.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-cylinder device. 1,644,570; Oct. 4.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Release-valve device. 1,644,571; Oct. 4.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combined cock and switch. 1,649,023; Nov. 15.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,650,336; Nov. 22.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-charging device. 1,653,161; Dec. 20.
- Farmer, Clyde C., Pittsburgh, and T. H. Thomas, Edge-wood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Speed-Control equipment. Re. 1,634,414; Dec. 13.
- Farmer, Clyde C., Pittsburgh, and T. H. Thomas, Edge-wood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,622,423; Mar. 29.
- Farmer, Clyde C., Pittsburgh, Pa., and J. S. McWhirter, New York, N. Y., said Farmer, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., and said McWhirter assignor to Westinghouse Electric & Manufacturing Company. Safety car-control equipment. 1,622,429; Mar. 29.
- Farmer, Clyde C., Pittsburgh, and T. H. Thomas, Edge-wood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake device. 1,644,567; Oct. 4.
- Farmer, Cornelius D., and H. W. Libby, Eugene, Ore., assignors of one-half to C. E. Force and one-half to E. J. Ferguson, Portland, Ore. Road-building machinery. Re. 1,612,782; Nov. 8.
- Farmer, Frank T., Detroit, Mich., assignor of one-half to R. E. Farmer, New York, N. Y. Ball race. 1,643,156; Sept. 20.
- Farmer, George W., Oakland, Calif. Station indicator. 1,632,465; June 14.
- Farmer, Guy E., Anamosa, Iowa. Ice-cream gun. 1,653,353; Dec. 20.
- Farmer, Isaac H., Montezuma, Iowa. Reversible disk-sharpening tongs. 1,625,199; Apr. 19.
- Farmer, John F., Indianapolis, Ind. Combination motor-vehicle lamp. 1,641,073; Sept. 6.
- Farmer, Percy L. (See Trixy, E. L., Jr. and Farmer.)
- Farmer, Robert E. (See Farmer, Frank T., assignor.)
- Farmer, Robert Z. (See Gensmer, T., and Farmer.)
- Farmer, Robert Z., Portland, Ore. Automatic variable speed transmission apparatus. 1,628,769; May 17.
- Farmers' Loan and Trust Company, The, executor. (See Hewitt, Peter C.)
- Farmers Loan and Trust Company, The, et al., executors. (See Schweinert, Maximilian C.)
- Farnet, Violet C. (See Levering, James F., assignor.)
- Farnes, Asa W., Clay County, Mo. Dike or reventment. 1,641,966; Sept. 13.
- Farnham, James P., New York, N. Y. Scavenging, fuel-humidifying, and volatilizing process and apparatus for internal-combustion engines. 1,626,335; Apr. 26.
- Farnham, Sidney W., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive. Re. 1,670,700; Aug. 9.
- Farnham, Sidney W., assignor to Goodman Manufacturing Company, Chicago, Ill. Electrical system for locomotives. Re. 1,671,721; Aug. 30.
- Farnstrom, Albin, Detroit, assignor of forty-five one-hundredths to Stanley Fons, Royal Oak, Mich. Pipe coupling. 1,628,133; May 10.
- Farnsworth, Frank S., London, England. Spring suspension of vehicles. 1,633,933; June 28.
- Farnsworth, Walter M., Canton, assignor to Central Alloy Steel Corporation, Massillon, Ohio. Remelting chromium steel scrap. 1,641,326; Sept. 6.
- Farnworth, William H., assignor to Great Western Electric Chemical Co., San Francisco, Calif. Gas-tank valve. 1,642,412; Sept. 13.
- Farny, Cyril, assignor to Wurlitzer Grand Piano Company, De Kalb, Ill. Grand-piano case. Des. 72,893; June 21.
- Farny, Cyril, assignor to Wurlitzer Grand Piano Company, De Kalb, Ill. Grand-piano case. Des. 72,894; June 21.
- Farquhar, A. B., Co. Ltd. (See Burgin, Robert F., assignor.)
- Farquhar, A. B., Co. Ltd. (See Fisher, William J., assignor.)
- Farquhar, Henry S., Wayne, Pa. Valve mechanism. 1,617,516; Feb. 15.
- Farquhar, Louis W., New York, N. Y. Game. 1,617,382; Feb. 15.
- Farr, Charles L., Atlantic City, N. J. Ash tray and stand. 1,653,897; Dec. 27.
- Farr, Ralph C., Santa Barbara, Calif. Water drain for automobile hoods. 1,638,479; Aug. 9.
- Farraghe, John, and J. H. Dundon, Youngstown, Ohio. Gauge glass for boilers. 1,615,118; Jan. 18.
- Farrand, Clair L., Forest Hills, N. Y., and E. Ross, East Orange, N. J., said Ross assignor to Farrand Mfg. Co. Inc., Long Island City, N. Y. Loud speaker. 1,630,734; May 31.
- Farrand, Clair L., Forest Hills, N. Y., and E. Ross, East Orange, N. J., said Ross assignor to Farrand Mfg. Co. Inc., Long Island City, N. Y. Apparatus for making conical diaphragms. 1,641,327; Sept. 6.
- Farrand, Clair L., Forest Hills, N. Y., and E. Ross, East Orange, N. J., said Ross assignor to Farrand Mfg. Co. Inc., Long Island City, N. Y. Apparatus for making conical diaphragms. 1,645,508; Oct. 11.
- Farrand, Clair L., Forest Hills, N. Y., and E. Ross, East Orange, N. J.; said Ross assignor to Farrand Mfg. Co. Inc., Long Island City, N. Y. Loud speaker. 1,651,758; Dec. 6.
- Farrand, Clair L., Forest Hills, N. Y., E. Ross, East Orange, N. J., and Guy F. Godley, New York, N. Y.; said Ross and said Godley assignors to Farrand Mfg. Co. Inc., Long Island City, N. Y. Loud speaker. Des. 72,417; Apr. 12.
- Farrand Mfg. Co. Inc. (See Farrand, C. L., and Ross, assignors.)
- Farrand Mfg. Co. Inc. (See Farrand, C. L., Ross, and Godley, assignors.)
- Farrar, Christy M., et al. (See Tuholske, Joseph, assignor.)
- Farrar, Roy B., Spokane, Wash. Ash pan. 1,627,023; May 3.
- Farrer-Birmingham Company. (See Banbury, Fernley H., assignor.)
- Farrel, Franklin, Jr., New Haven, assignor to Farrel Foundry & Machinery Company, Ansonia, Conn. Cane-grinding mill. 1,635,263; July 12.
- Farrel Foundry & Machine Company. (See Bowen, D. R., Franklin, Jr., assignor.)
- Farrel Foundry and Machine Co. (See Kessler, Armin G., assignor.)
- Farrel Foundry & Machine Company. (See Farrel, and Schnuck, assignors.)
- Farrington, Charles W., assignor of one-half to E. L. Kulick, Chicago, Ill. Remotely-controlled interlocking means for ignition systems. 1,616,956; Feb. 8.
- Farrell, Michael. (See Dean, Mark, assignor.)
- Farrell, Rupert L., Montreal, Quebec, Canada. Automatic gate. 1,634,025; June 28.
- Farr, Roy, Lake Worth, Fla. Saw. 1,620,454; Mar. 8.
- Farrington, Frederick J., Omaha, Neb., assignor to Deere & Company, Moline, Ill. Cultivator. 1,622,863; Mar. 29.
- Farrington, James C., La Fayette, Ind. Knockdown trellis. 1,653,263; Dec. 20.
- Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Two-way wave transmission system. 1,632,282; June 14.
- Farrington, John F., Flushing, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Radio signaling system. 1,650,701; Nov. 29.
- Farrington, John F., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave modulating. 1,647,988; Nov. 8.
- Farrington, Oscar I. (See Shaub, L., and Farrington.)
- Farrington, Telford J., Kerrville, Tex. Water-heating device. 1,651,450; Dec. 6.
- Farrington, Winifred O., Los Angeles, Calif., assignor to The Garlock Packing Company, Palmyra, N. Y. Packing. 1,648,391; Nov. 8.
- Farris, Farris E. (See Brown, Jackson W., assignor.)
- Farris, John K., Sentinel, Okla. Road scraper. 1,615,371; Jan. 25.
- Farris, Maurice E., Mountain City, Tenn. Table. 1,613,696; Jan. 11.
- Farrow, Edward S., Jr. (See Baybutt, R., and Farrow.)
- Farrow, Edward S., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Treating cellulose acetate. 1,634,986; July 5.
- Farver, Warner E., et al. (See Kaser, Walter I., assignor.)
- Farwell, Claude C., Groton, Mass. Shuttle-throwing device. 1,641,882; Sept. 6.
- Farwell, Fay O., Toledo, Ohio. Plant-treating device. 1,614,355; Jan. 11.
- Farwell, Fay O., Toledo, Ohio. Road light. 1,620,198; Mar. 8.
- Farwell, Fay O., Toledo, Ohio. Road-light lamp. 1,634,657; July 5.
- Fassio, Julius, San Francisco, Calif. Dishwashing apparatus. 1,646,142; Oct. 18.
- Fassler, Peter, assignor of one-fourth to A. Schmidt and one-fourth to A. H. C. Mueller, Bridgeport, Conn. Electric cover drier. 1,613,987; Jan. 11.
- Fasson, Daniel. (See Fasson, Patsy and D.)

- Fasson, Patsy, Mount Pleasant, Pa., and D. Fasson, Rochester, N. Y. Automatic safety trolley. 1,628,536; May 10.
- Fast, George M. (See Howell, B. S., and Fast.)
- Fast, Gustave, Annapolis, Md. Flexible shaft coupling. 1,616,084; Feb. 1.
- Fast, Gustave, Annapolis, assignor to The Bartlett Hayward Company, Baltimore, Md. Flexible shaft coupling for relatively adjustable shafts. 1,641,668; Sept. 6.
- Fast, Gustave, Annapolis, assignor to The Bartlett Hayward Company, Baltimore, Md. Flexible shaft coupling. 1,641,669; Sept. 6.
- Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Apparatus for agitating slurry, etc. 1,622,280; Mar. 29.
- Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Treating wet raw materials in the manufacture of cement. 1,627,553; May 10.
- Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Rotary kiln and cooler. 1,652,168; Dec. 13.
- Faulner, Alvin J., Cleveland, Ohio. Coil winder. 1,620,879; Mar. 15.
- Fatoux, Raymond A., Neuilly-sur-Seine, France. Coach body of automobiles. 1,634,656; July 5.
- Faudi, Fritz, Dusseldorf-Oberkassel, Germany. Ball and socket joint. 1,635,352; Dec. 20.
- Fauley, Dewey L., New Lexington, Ohio. Burial vault. 1,618,522; Feb. 22.
- Faulkner, Austen, et al. (See Smith, Lawrence F., assignor.)
- Faulkner, David C., assignor to The Moore Press, Inc., New York, N. Y. Combination candy box and toy house. 1,630,117; May 24.
- Faultless Rubber Company. (See Noelting, William H., assignor.)
- Faultless Caster Company. (See Noelting, W. H., and Brokaw, assignors.)
- Faultless Caster Company. (See Noelting, W. H., Smithfield, and Noelting, assignors.)
- Faultless Rubber Company, The. (See Miller, Thomas W., assignor.)
- Faunce, Benjamin F., Westmont, and H. C. Dorris, Johnstown, Pa., assignors to Bethlehem Steel Company. Striking plate for cars. 1,633,934; June 28.
- Faunce, Benjamin R., Riverside, N. J. Alarm gauge. 1,642,413; Sept. 13.
- Faunce, Benjamin R., Riverside, N. J. Alarm gauge. 1,642,434; Sept. 13.
- Fauguier, Raymond H. (See Bohn, H. B., and Fauguier.)
- Faurot, Henry, assignor to Western Electric Works, Chicago, Ill. Window channel strip. 1,619,923; Mar. 8.
- Faurot, Joseph A. (See Wolfe, C. L., and Faurot.)
- Fausek, Arthur J. and I. E., St. Louis, Mo. Reducing valve. 1,638,010; Aug. 9.
- Fausek, Irving F. (See Fausek, Arthur J. and I. E.)
- Fausser, George, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Automobile body construction. 1,635,729; June 28.
- Fault, Alexander L., assignor to National Marking Machine Company, Cincinnati, Ohio. Laundry Marking-Tag-Attaching Machine. 1,619,251; Mar. 1.
- Faust, Harry W., Greenville, Ohio. Switch construction. 1,628,496; May 10.
- Faust, Levin, et al. (See Swenson, Carl E., assignor.)
- Faust, Levin, assignor to Rockford Steel Furniture Company, Rockford, Ill. Ironing board. 1,618,374; Feb. 22.
- Faust, Levin, assignor to Rockford Steel Furniture Company, Rockford, Ill. Ironing board. 1,631,255; June 7.
- Fausser, Oscar W., Bellerose, N. Y. Linoleum or similar hard-surfaced floor covering. Des. 73,902; Nov. 22.
- Fausser, Oscar W., Bellerose, N. Y. Linoleum or similar hard-surfaced floor covering. Des. 73,903; Nov. 22.
- Fausser, Oscar W., Bellerose, N. Y. Linoleum or similar hard-surfaced floor covering. Des. 73,904; Nov. 22.
- Fausser, Oscar W., Bellerose, N. Y. Linoleum or similar hard-surfaced floor covering. Des. 73,905; Nov. 22.
- Fausser, Oscar W., Bellerose, N. Y. Linoleum or similar hard-surfaced floor covering. Des. 73,906; Nov. 22.
- Fausser, Oscar W., Bellerose, N. Y., assignor to Consolium-Nairn, Inc. Linoleum or similar hard-surfaced floor covering. Des. 73,973; Nov. 29.
- Favilla, Joseph C. (See Bricca, T. J., and Favilla.)
- Favorite Stove & Range Company, The. (See Herwig, Jr., and Mills, assignors.)
- Favour, Paul, assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture film strip. 1,631,478; June 7.
- Favre, Pierre A., Crosne, France. Machine for working cylindrical members of fusible material. 1,631,674; June 7.
- Fawcett, Gerald D., Whittier, Calif. Casing cutter. 1,643,709; Sept. 27.
- Fawkes, Leslie H. (See Stroud, Charles M., assignor.)
- Fay, Augustine P. (See Wilder, A. P., and Fay.)
- Fay, Carl J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Waffle iron. Des. 72,364; Apr. 5.
- Fay, Frederick L., Marshallton, assignor to Standard-Trump Brothers Machine Company, Wilmington, Del. Circular-knitting machine. 1,616,744; Feb. 8.
- Fay, Horace B., Shaker Heights, Ohio. Making metallic bellows. 1,644,823; Oct. 11.
- Fay, J. A., & Egan Company. (See Johnson, Gustave T., assignor.)
- Fay, John L., St. Louis, Mo. Fuel-mixing device for internal-combustion engines. 1,626,798; May 3.
- Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Soldering unit. 1,636,175; July 19.
- Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming composite articles. 1,639,652; Aug. 23.
- Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for handling and severing articles. 1,641,257; Sept. 6.
- Fay, Joseph W., Villa Park, and C. Wales, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for welding metal strands. 1,639,653; Aug. 23.
- Fay, Richard D., Nahant, Mass., assignor to Submarine Signal Company, Portland, Me. Finding direction. 1,619,017; Mar. 1.
- Fay, Richard W., Nahant, and E. Wolf, assignors, by mesne assignments, to H. V. Hayes, trustee, Boston, Mass. Method and apparatus for producing alternating currents. 1,623,665; Apr. 5.
- Fay, Thomas J., Brooklyn, N. Y. Vehicle. 1,630,062; May 24.
- Fay, Thomas J., Brooklyn, N. Y. Vehicle. 1,631,803; June 7.
- Fay, Thomas J., Brooklyn, N. Y. Vehicle. 1,642,946; Sept. 20.
- Fay, Thomas J., Brooklyn, N. Y. Frequency transformer. 1,644,332; Oct. 4.
- Fay, Thomas J., Brooklyn, N. Y. Vehicle suspension device. 1,643,470; Nov. 3.
- Fayer, Charles. (See Wrapper, F. H., and Fayer.)
- Fayfield-Knoll Company. (See Miller, J. C., and Fayfield, assignors.)
- Fayfield, Robert H. (See Miller, J. C., and Fayfield.)
- Payle, Charles E., Montreal, Quebec, assignor to J. E. Ward, Montreal, Canada. Sign. 1,623,585; Apr. 5.
- Fazio, James, Venice, Calif. Fruit-juice extracting and display device. 1,617,383; Feb. 15.
- Feagans, John E., Dresden, Ohio. Railroad tie truss. 1,632,466; June 14.
- Fengles Construction Company. (See Hague, Frank L., assignor.)
- Fenn, William, Columbus, Ohio. Packing form. 1,641,073; Aug. 30.
- Fear, Ralph G. (See Garbutt, F. E., and Fear.)
- Fearing, John L., and H. F. Wellman, assignors to Thornton Trolley Wheel Co., Inc., Ashland, Ky. Trolley. 1,618,072; Feb. 15.
- Fearn, William M. (See Burnwatt, William W., assignor.)
- Fearson, Francis J., Baltimore, Md. License-plate holder. 1,644,423; Oct. 4.
- Feaster, Albert J., Salisbury, N. C. Brace. 1,641,027; Aug. 30.
- Feather, David C., assignor to The Feather Motor Appliance Company, Denver, Colo. Spring compressor. 1,630,334; May 31.
- Featheredge Rubber Company. (See Hood, Harry M., assignor.)
- Featheredge Rubber Company. (See Wedlock, Frank V., assignor.)
- Feather, George, Halifax, England. Radial drilling machine. 1,631,256; June 7.
- Feather, John A., New Bedford, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 73,691; Oct. 25.
- Feather, John A., New Bedford, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 73,692; Oct. 25.
- Feather Motor Appliance Company, The. (See Feather, David C., assignor.)
- Featherstone, Edward B., assignor to The W. C. Nagel Electric Company, Toledo, Ohio. High-frequency coil. 1,635,951; Dec. 27.
- Fearn, Wilson T., et al. (See Hobson, John H., assignor.)
- Fecher, Frederick F., Rockville Center, T. Danheiser, New York, and R. Baldauf, Hempstead, N. J., assignors to The Beck Duplicator Company. Duplicator. 1,648,219; Nov. 8.
- Fedde, Nathaniel, Brooklyn, N. Y. Visible pulse and diastolic indicator. 1,644,824; Oct. 11.
- Fedden, Alfred H. R., and L. F. C. Butler, Bristol, assignors to The Bristol Aeroplane Company Limited, Bristol, Gloucester, England. Lubrication of engines and machines. 1,618,870; Feb. 22.
- Fedden, Alfred H. R., and L. F. C. Butler, Bristol, assignors to The Bristol Aeroplane Company Limited, Gloucester, England. Valve-operating mechanism. 1,654,366; Dec. 27.
- Fedder, Louis J., assignor to King Ventilating Company, Owatonna, Minn. Insulated window. 1,634,987; July 5.

- Fedderman, George C., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich. Hold-down device for automobiles. 1,617,582; Feb. 15.
- Fedderman, George C., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich. Auto loading buck. 1,651,517; Dec. 6.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Core for radiators. 1,617,751; Feb. 15.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator core. 1,618,279; Feb. 22.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator core. 1,618,980; Mar. 1.
- Fedders, John M., Buffalo, and F. H. Stolp, Geneva, assignors to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Machine for preparing metal strips. 1,640,147; Aug. 23.
- Fedders Manufacturing Company. (See Fedders, John M., assignor.)
- Fedders Manufacturing Company. (See Fedders, J. M., and Stolp, assignors.)
- Fedders Manufacturing Company. (See Yeager, Henry J., assignor.)
- Federal Addressing Machine Corporation. (See Smith, E. R., and Rice and Jackson, assignors.)
- Federal Cement Tile Company. (See Freund, Cheri S., assignor.)
- Federal Electric Company. (See Gilchrist, James M., assignor.)
- Federal Electric Company. (See Hall, Lee, assignor.)
- Federal Electric Company. (See Ogle, Elmer L., assignor.)
- Federal Foundry Supply Company, The. (See Reilly, Thomas A., assignor.)
- Federal Glass Company. (See Buell, Oren C., assignor.)
- Federal Glass Company, The. (See Cornwell, V. O., and Moeller, assignors.)
- Federal Glass Company, The. (See Hanford, Orin A., assignor.)
- Federal Glass Company, The. (See Middendorf, David L., assignor.)
- Federal Gypsum Products Company. (See Parkhurst, Layton M., assignor.)
- Federal Laboratories, Inc. (See Lawrence, Ruben B., assignor.)
- Federal Manufacturing Company. (See Olinger, T., and Brendel, assignors.)
- Federal Motor Truck Company. (See Ingersoll, George B., assignor.)
- Federal Pressed Steel Company. (See Tinker, Herbert W., assignor.)
- Federal Products Corporation. (See Tingley, Leonard C., assignor.)
- Federal Steel Sash Company. (See Kunej, Clarence F., assignor.)
- Federal Steel Sash Company. (See McIntosh, Charles J., assignor.)
- Federal Telegraph Company. (See Beal, R. R., and Elliott, assignors.)
- Federal Telegraph Company. (See Brower, William M., assignor.)
- Federal Telegraph Company. (See Knoll, Lloyd M., assignor.)
- Federal Telegraph Company. (See Kolster, Frederick A., assignor.)
- Federal Telegraph Company. (See Kolster, F. A., and Sollie, assignors.)
- Federal Telegraph Company. (See Spector David S., assignor.)
- Federal Telephone Manufacturing Corporation. (See Cotter, William F., assignor.)
- Federal Telephone Manufacturing Corporation. (See Heyman, Nicholas, assignor.)
- Federal Telephone Manufacturing Corporation. (See Horie, Lawrence C., assignor.)
- Federated Engineers Development Corporation. (See Couch, Frederick F., assignor.)
- Federated Engineers Development Corporation. (See Hook, DeLos N., assignor.)
- Federhart, Edward P., Pasadena, Calif. Plating machine. 1,617,018; Feb. 8.
- Federle, Joseph C., (See Kettering, C. F., and Federle.)
- Fedler, Joseph H., Kansas City, Mo. Agitator for washing machines. 1,613,318; Jan. 4.
- Fee, Thomas A. Jr., Vancouver, British Columbia, Canada, and H. Lamb, Chicago, Ill. Chilling and aerating fluids and devices for carrying out said process. 1,645,742; Oct. 18.
- Fee Hern, Albert H. (See Fee Hern, Auncel B. and A. H.)
- Fee Hern, Auncel B. and A. H., London, England. Lifting jack. 1,652,821; Dec. 13.
- Fed Water De-Scaling Corporation. (See Baker, George O., assignor.)
- Feeley, Matthew R., Scranton, Pa., C. Stern, Jersey City, N. J., and R. W. Braden, New York, N. Y., assignors to B-S Manufacturing Products Corporation, Jersey City, N. J. Safety cylinder, cock. 1,647,826; Nov. 1.
- Feeley, William B., and W. Daumar, Jamaica, N. Y. Station-indicating device. 1,642,234; Sept. 13.
- Feely, Donovan R., Shelbyville, Mo. Water collecting and separating attachment for oil cans. 1,613,507; Jan. 4.
- Feeny, Thomas L., and H. Godoy, assignors of ninety per cent to J. E. Cohen, Philadelphia, Pa., and ten per cent to said Feeny. Fire-preventing apparatus for motion-picture-projecting machines. 1,618,417; Feb. 22.
- Feeny, William P., Cheboygan, Mich. Felt conditioner for paper machines. 1,635,317; July 12.
- Feeney, William P., Cheboygan, Mich. Pressure gauge for paper-mill pans. 1,650,935; Nov. 29.
- Fefel, John E., Bridgeport, assignor to The Ludington Machine Co., Inc., Waterbury, Conn. Machine for producing lined pouches. 1,613,748; Jan. 11.
- Fefel, John E., Bridgeport, Conn., assignor of one-half to F. J. Hoey, New York, N. Y. Fabric weaving machine. 1,629,952; May 24.
- Fefel, John E., Bridgeport, Conn., assignor of one-half to F. J. Hoey, New York, N. Y. Woven fabric. 1,634,411; July 5.
- Fefel, John E., Bridgeport, Conn., assignor of one-half to F. J. Hoey, New York, N. Y. Woven fabric. 1,634,412; July 5.
- Fefel, John E., Bridgeport, Conn., assignor of one-half to F. J. Hoey, New York, N. Y. Fabric weaving machine. 1,634,413; July 5.
- Fefel, John E., Bridgeport, Conn., assignor of one-half to F. J. Hoey, New York, N. Y. Tubular-fabric-forming machine. 1,644,116; Oct. 4.
- Fegely, Nathan M., Iola, Kans., assignor, by mesne assignments, to Bates Valve Bag Company, Chicago, Ill. Bag-filling machine. 1,634,538; July 5.
- Fegely, Thomas J., assignor to North Bro's Mfg. Co., Philadelphia, Pa. Chuck. 1,617,998; Feb. 15.
- Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's Mfg. Co., Philadelphia, Pa. Breast drill. 1,633,400; June 21.
- Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's Mfg. Co., Philadelphia, Pa. Chuck. 1,653,762; Dec. 27.
- Fehse, Werner. (See Skaupy, F., Pirani, Bahr, and Fehse.)
- Felchert, Ulrich, Chicago, Ill. Switch. 1,634,179; June 28.
- Felgendend, John A. (See Broden, E. H., Feierabend, and Trott.)
- Feige, Adolf E., assignor to Universal Industrial Corporation, Hackensack, N. J. Ground clamp. 1,616,847; Feb. 8.
- Felgelman, Herman A., Paterson, N. J. Display container. 1,620,810; Mar. 15.
- Felgelson, Alexander, Beaumont, Tex. Motor-vehicle trailer connection. 1,636,814; July 26.
- Felgenbaum, Joseph, Los Angeles, Calif., assignor to Safety Concrete Indicator Co. Inc. Air-cooled incinerator. 1,622,431; Mar. 26.
- Feld, Alexander L., New York, N. Y., assignor to Electro Metallurgical Company. Recovering metals from liquids and compositions therefor. 1,617,206; Feb. 8.
- Felinauer, Josef, New York, N. Y. Swimming shoe. 1,633,169; June 21.
- Felisch, George F., Hartford, Conn. Reflecting signal. 1,635,267; July 12.
- Feind, Robert F., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dust collector. 1,628,601; May 10.
- Feinen, Nicholas, Buffalo, N. Y. Time switch. 1,633,929; Aug. 16.
- Feinson, Joseph M., New York, N. Y. Neckwear. 1,652,822; Dec. 13.
- Feiss, Richard A., assignor to The Joseph & Feiss Co., Cleveland, Ohio. Vent for full-lined garments and method of making it. 1,626,799; May 3.
- Feiss, Richard A., assignor to The Joseph & Feiss Co., Cleveland, Ohio. Lined vent for unlined or partly lined garments and making it. 1,635,178; July 12.
- Feist, Eugen, Berlin-Schöneberg, assignor to Roth-Buchner Aktiengesellschaft, Berlin-Tempelhof, Germany. Blade sharpener. 1,641,774; Aug. 30.
- Feist, George L., Maricopa, Calif. Metal saw. 1,618,585; Feb. 22.
- Feister, George F., Maricopa, Calif. Meat saw. 1,631,366; June 7.
- Fejes, Eugen, Budapest, Hungary. Pipe joint. 1,647,217; Feb. 22.
- Fejér, Jenő, Budapest, Hungary. Chassis framing more particularly for motor vehicles. 1,619,609; Mar. 1.
- Fejés, Jenő, Budapest, Hungary. Cylinder block for internal-combustion engines. 1,640,761; Aug. 30.
- Fekete, John, assignor to Premier Grand Piano Corporation, New York, N. Y. Portable rotary planer. 1,614,783; Jan. 18.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Lubricating system for bearings. 1,648,997; Nov. 8.
- Fekete, Stephen I., and S. G. Baits, assignors to Hudson Motor Car Company, Detroit, Mich. Lubricating system for distributor-drive units. 1,613,027; Jan. 4.
- Fekete, Stephen I., and S. G. Baits, assignors to Hudson Motor Car Company, Detroit, Mich. Automobile engine. 1,625,718; Apr. 19.
- Fekete, Stephen I., Detroit, and R. H. Whisler, Halfway, Mich. Assignors to Essex Motors, Detroit, Mich. Valve mechanism and valve tappet therefor. 1,637,020; July 26.
- Feland, Oscar A., assignor of one-third to V. J. Wilson and one-third to T. Wright, Bismarck, N. Dak. Drawing bend. 1,616,789; Feb. 8.

- Feld, Elmer W. (See Van Doorn, F. E., and Feld.)
 Feldenhelmer, William, London, England. Treatment of earthy minerals. 1,622,099; Mar. 22.
 Felder, Franz, New York, N. Y. Demountable wheel. 1,653,264; Dec. 20.
 Feldhusen, Carl, Boise, Idaho. Food product and making the same. 1,631,025; May 31.
 Feldkamp, Frederick A., Newark, N. J. Electric fuse or circuit testing device. 1,615,788; Jan. 25.
 Feldkamp, Frederick A., Newark, N. J. Electric clock-winding mechanism. 1,639,990; Aug. 23.
 Feldkamp, Frederick A., Newark, N. J., assignor, by mesne assignments, to Economy Fuse & Manufacturing Company. Fuse medium. 1,629,266; May 17.
 Feldman, Charles L., et al., receivers. (See Arnold, Lester R., assignor.)
 Feldman, Edward D. (See Papst, Herman, assignor.)
 Feldman, Hiram H., and J. Adler, Philadelphia, Pa. Table. 1,613,523; Feb. 22.
 Feldman, Isaac, Philadelphia, Pa. Oil pan for sewing machines. 1,622,258; Mar. 22.
 Feldman, J. M., Co. Inc., The. (See Holdeman, Harry R., assignor.)
 Feldman, Manuel, New York, N. Y. Mat. 1,654,416; Dec. 27.
 Feldmann, William, Chicago, Ill. Binder. 1,624,660; Apr. 12.
 Feldmeier, Harvey, assignor to D. H. Burrell & Co., Inc., Little Falls, N. Y. Apparatus for agitating liquids. 1,614,193; Jan. 11.
 Feldmeier, Harvey, Little Falls, and C. F. Wray, Rochester, assignors to D. H. Burrell & Co., Inc., Little Falls, N. Y. Valve. Des. 74,144; Dec. 27.
 Feldstein, Ben J., New York, N. Y. Baby rattle. 1,627,166; May 3.
 Feldt, Adolf, Wilhelmshorst, W. Schoeller, Berlin-Westend, and E. Borgwardt, assignors to Chemische-Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Heavy metal mercapto sulphonic compounds. 1,633,626; June 28.
 Felger, Gustav, Nuremberg, Germany. Pencil. Des. 73,781; Nov. 8.
 Felicity, John B., Philadelphia, Pa. Clothes rack. 1,620,199; Mar. 8.
 Felix, Charles R., Hatfield, Pa. Composition for treating products of fiber and making same. 1,643,116; Sept. 20.
 Fell, Alfred G. (See Patterson, R. N., and Fell.)
 Fell, Harold W. M., San Fernando, and W. F. Gaulke, Buenos Aires, Argentina. Electrical cut-out. 1,645,476; Oct. 11.
 Fell, James R., Haleyville, Ala. Cultivator. 1,616,359; Feb. 1.
 Fell, John M., Hackensack, N. J., assignor to American Telephone and Telegraph Company. Telegraph distortion-measuring system. 1,635,209; July 12.
 Fell, John M., Hackensack, N. J., assignor to American Telephone and Telegraph Company. System of television. 1,649,819; Nov. 22.
 Fell, William, assignor to Visible Gasoline Filter Company, Chicago, Ill. Gasoline filter. 1,639,170; Aug. 16.
 Fellenbaum, Daniel T., Coatesville, Pa. Milk-can rack. 1,627,080; May 3.
 Fellers, Albert E., Detroit, Mich. Tractor locomotive. 1,630,930; May 31.
 Fellows, Edwin R., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Work-setting means for gear-generating machines. 1,620,811; Mar. 15.
 Fellows, Edwin R., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Automatic gear-generating machine. 1,628,584; May 10.
 Fellows Gear Shaper Company, The. (See Fellows, Edwin R., assignor.)
 Fellows, John W., Arlington, assignor to Boston Woven Hose & Rubber Co., Cambridge, Mass. Resilient wearing surface. 1,632,395; June 14.
 Fellows, Walter C., Philadelphia, Pa., assignor to C. R. Carver Company. Plate holder for printing presses. 1,633,810; June 28.
 Fellows, Walter C., Philadelphia, Pa., assignor to C. R. Carver Company. Detachable feeding table for machines. 1,640,400; Aug. 30.
 Fels, Walter T., New York, assignor to Felstone Fireproof Construction Company, Mount Vernon, N. Y. Wall-molding apparatus. 1,620,080; May 24.
 Felstone Fireproof Construction Company. (See Fels, Walter T., assignor.)
 Felt, Dorr E., Chicago, Ill. Windmill. 1,654,165; Dec. 27.
 Felt, Dorr E., Chicago, and J. A. V. Turck, Wilmette, assignors to Felt & Farrant Manufacturing Company, Chicago, Ill. Calculating machine. 1,612,969; Jan. 4.
 Felt & Farrant Manufacturing Company. (See Felt, D. E., and Turck, assignors.)
 Felt, George G., Washington, D. C. Cap attachment for fountain pens. 1,615,506; Jan. 25.
 Felt, John M., administrator. (See Page, Robert F.)
 Felch, Eldon L. (See Moore, Herbert B., assignor.)
 Felten & Guillaume Carlewark Actien-Gesellschaft. (See Haanen, Carl A., assignor.)
 Felten & Guillaume Carlewark Actien-Gesellschaft. (See Zapf, Georg, assignor.)
 Feltenstein, Harry M. (See Crumley, Le Roy A., assignor.)
 Felton, Alfred, Newburgh, N. Y. Lawn trimmer. 1,631,759; Dec. 6.
 Felton, Jack A., Los Angeles, Calif. Steering attachment for vehicles. 1,626,886; Apr. 26.
 Felton, Walter A., Newburgh, N. Y. Game apparatus. 1,634,180; June 28.
 Felts, George E., Kansas City, Mo. Safety purse. 1,651,921; Dec. 6.
 Femmer, William A. (See Anson, Ruben, assignor.)
 Fencil, Frank G., Oakland, Calif. Machine for knotting springs. 1,651,518; Dec. 6.
 Fencil, Frank J., Chicago, Ill. Circuit breaker. 1,638,686; Aug. 8.
 Fender, John B., Kaufman, Tex. Mineral machine. 1,645,378; Oct. 11.
 Fénelon, Juan, assignor of twenty-five one-hundredths to R. Wilson, ten one-hundredths to G. S. Clark, and ten one-hundredths to D. C. Brandon, Oaxaca, Mexico. Thermostat. 1,651,262; Nov. 29.
 Fener, Vahan, Chicago, Ill. Alloy. 1,626,925; May 3.
 Fennel, Friedrich, Jersey City, N. J. Traction attachment for automobiles. 1,638,329; Aug. 9.
 Fennell, Charles H., Detroit, Mich. Wheel check. 1,617,837; Feb. 15.
 Fennell, Charles H., assignor of one-half to L. R. Ross, Detroit, Mich. Rotary polishing device. 1,617,838; Feb. 15.
 Fennell, William J., assignor to Evinrude Motor Company, Milwaukee, Wis. Water-supply connection. 1,626,872; Sept. 10.
 Fenner, George J., assignor of one-fourth to M. Ziegler, one-eighth to J. E. Wall, one-eighth to W. H. Busse, one-eighth to J. R. Gerrits, Oxford, and one-eighth to A. A. Morgan, Whitewater, Wis. Artificial bait. 1,615,747; Jan. 25.
 Fener, Michael E., assignor of one-half to H. S. Clouse, Sumner, Neb., Haystacker. 1,632,743; June 14.
 Fennessy, John C., Brooklyn, N. Y. Baseball game apparatus. 1,651,686; Dec. 6.
 Fenning, Louis T., Jackson, Ohio. Time-controlled electric-switch mechanism. 1,625,411; Apr. 19.
 Fenn, George E., Byrdville, Pa. Feed-water regulator for steam boilers. 1,649,342; Nov. 15.
 Fenton, Frank, assignor to The Miller Rubber Company, Akron, Ohio. Treating cured inner tubes for pneumatic tires. 1,624,725; Apr. 12.
 Fenton, John. (See Butler, Thomas J., assignor.)
 Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Single-pin socket. 1,625,303; Apr. 19.
 Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Double-pointed pin fastener. 1,641,075; Aug. 30.
 Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Single-pin socket. 1,645,499; Oct. 11.
 Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Pin-stud fastener. 1,647,360; Nov. 1.
 Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Slide button. 1,654,479; Dec. 27.
 Fenton, Paul E., Thomaston, and P. de F. Warner, Waterbury, assignors to Scovill Manufacturing Company, Waterbury, Conn. Double-pin socket. 1,645,500; Oct. 11.
 Fenton, Paul W., New York, N. Y. Gasoline-dispensing apparatus. 1,638,687; Aug. 9.
 Fentress, George E., Los Angeles, Calif. Traveling block. 1,629,690; May 24.
 Fentress, George E., assignor of one-half to H. H. Isaacs, Los Angeles, Calif. Antifriction pipe sleeve. 1,651,088; Nov. 29.
 Fentress, James, Chicago, Ill. Liquid-level gauge. 1,622,503; Mar. 29.
 Fentress, James, Chicago, Ill. Thermostatic pump. 1,630,479; May 31.
 Fentress, James, Chicago, assignor to Chicago Tubing & Braiding Company, Chicago, Ill. Hook for forming steel tubing. 1,643,008; Sept. 20.
 Fentress, James, Winnetka, and A. W. Junkunc, assignors to Chicago Tubing and Braiding Co., Chicago, Ill. Machine for manufacturing spiral metal tubes. 1,617,583; Feb. 15.
 Fenwick, Crete, St. Paul, Minn. Handkerchief or similar article. Des. 74,051; Dec. 13.
 Ferad, Edward, New York, N. Y. Ice creeper. 1,637,691; Aug. 2.
 Ferdinand, Jules, Paris, France. Dosing flask. 1,641,328; Sept. 6.
 Ferguson, Alexander D., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor. 1,649,299; Nov. 15.
 Ferguson, Andrew D. (See Blevin, F. L., and Ferguson.)
 Ferguson, Benjamin H., Auburn, Wash. Lock for air-brake release rods. 1,614,833; Jan. 18.
 Ferguson, Carl J., Geneva, N. Y., assignor to W. S. Johnson, Syracuse, N. Y. Vacuum-tank feeder. 1,641,076; Aug. 30.
 Ferguson, Charles, Spokane, Wash. Attachment for beverage mixers. 1,623,535; Apr. 5.
 Ferguson, Clarence E., Portland, Oreg. Safety cigarette holder. 1,619,408; Mar. 1.
 Ferguson, Clayton C., Jersey City, N. J. Electric switch. 1,653,354; Dec. 20.

- Ferguson, David, Indianapolis, assignor to Eclipse Tool Company, Indianapolis, Ind. Rolling device for beading operation. 1,619,064; Mar. 1.
- Ferguson, David W., Harold, S. Dak. Ironing board. 1,619,409; Mar. 1.
- Ferguson, Edward W., Ogdensburg, N. Y. Rail-securing device. 1,644,184; Oct. 4.
- Ferguson, Ernest E., Seattle, Wash. Portable power cut-off saw. 1,642,145; Sept. 13.
- Ferguson, Frank C., assignor to David Lupton's Sons Company, Philadelphia, Pa. Window construction. 1,645,232; Oct. 11.
- Ferguson, George E., Spring Valley, N. Y., and L. G. M. Timson, Plainfield, assignors to Pyrene Manufacturing Company, Newark, N. J. Fire extinguisher. 1,635,546; July 12.
- Ferguson, George J. (See Ferguson, J. J., Maguire, Ferguson, Anderson, and McGuire.)
- Ferguson, George W., Minneapolis, Minn. Toy. 1,613,349; Feb. 22.
- Ferguson, George W., Minneapolis, Minn. Toy. 1,617,179; Feb. 22.
- Ferguson, Harry, Belfast, Ireland. Agricultural implement. 1,637,511; Aug. 2.
- Ferguson, Ivan P., assignor to Towson Body Co., Detroit, Mich. Removable closure for vehicles. 1,637,812; Aug. 2.
- Ferguson, John E. (See Whitmore, J. B., and Ferguson.)
- Ferguson, John G., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Regulator. 1,632,062; June 14.
- Ferguson, John J., jr. (See Ferguson, J. J., Maguire, and Ferguson, Anderson, and McGuire.)
- Ferguson, John J., R. Maguire, G. J. Ferguson, J. J. Ferguson, Jr., J. H. Anderson, and P. McGuire, Glasgow, Scotland. Ground lever for railway points and switches. 1,653,952; Dec. 27.
- Ferguson, Luther R., Hinton, W. Va. Wheel gauge. 1,644,055; Oct. 4.
- Ferguson, Lyman H., Ithaca, assignor to J. W. Ellis, Buffalo, N. Y. Combined tire carrier and rim remover. 1,623,914; Apr. 5.
- Ferguson, Malcolm P., Elmira Heights, assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,650,619; Nov. 20.
- Ferguson, Milford B., assignor of one-half to E. Haas, Brooklyn, N. Y. Wrapping machine. 1,634,711; July 5.
- Ferguson, Richard E. (See Hughes, Roland M., assignor.)
- Ferguson, Roy N., Los Angeles, Calif. Expanding rotary bit. 1,639,222; Aug. 16.
- Ferguson, Thomas M., Stillwater, Minn. Door-operating mechanism. 1,625,250; Apr. 19.
- Ferguson, William C., St. Louis, Mo. Pipe-jointing apparatus. 1,615,008; Jan. 18.
- Ferkel, Karl A., Los Angeles, Calif. Temperature-indicating means. 1,623,666; Apr. 5.
- Fernold, Floyd V. (See Newell, H. J., and Fernold.)
- Fernold, Charles F., assignor of one-half to J. W. Swartzlander, Los Angeles, Calif. Sand reel. 1,634,988; July 5.
- Fernald, Mark E., Southboro, assignor to C. C. Blake, Incorporated, Boston, Mass. Automatic shoe machine. 1,628,602; May 10.
- Fernald, Mark E., Southboro, Mass., assignor to C. C. Blake, Incorporated, Boston, Mass. Cutting leaders, gears, or racks. 1,632,396; June 14.
- Fernandez, Aurora B. (See Fernandez, Manuel and A. B.)
- Fernandez, John C., Jamaica, N. Y. Garland confetti. 1,632,855; Dec. 13.
- Fernandez, John M., New York, N. Y. Napkin holder. 1,641,841; Sept. 6.
- Fernandez, John M., New York, N. Y. Ticket-dispensing apparatus. 1,641,884; Sept. 6.
- Fernandez, Manuel and A. B., New Orleans, La. Ironing board. 1,615,119; Dec. 18.
- Ferngren, Enoch T., Toledo, Ohio. Molten glass-feeding mechanism. 1,628,238; May 10.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing flat sheet glass. 1,614,111; Jan. 11.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for producing sheet glass. 1,631,804; June 7.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,631,805; June 7.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass width-maintaining shield. 1,639,453; Aug. 16.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Producing pressed sheet glass. 1,641,806; Sept. 6.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Process and apparatus for drawing sheet glass. 1,641,883; Sept. 6.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet glass. 1,647,403; Nov. 1.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Leer-heating means. 1,653,042; Dec. 20.
- Ferodo Limit'd. (See Frood, Herbert, assignor.)
- Ferrolli, Enrico, Turin, Italy. Carburetor. 1,629,210; May 17.
- Ferrabino, Edoardo, Turin, Italy. Vehicle wheel. 1,651,811; Dec. 6.
- Ferraino, Albert F., et al. (See Caruso, Romeo O., assignor.)
- Ferrara, Louis, Brooklyn, N. Y. Sandpaper and rubbing machine. 1,624,400; Apr. 12.
- Ferrari, Cimacno, Newark, N. J. Safety gas valve. 1,624,093; Apr. 12.
- Ferrari, Michael, Detroit, Mich. Brush. 1,649,677; Nov. 15.
- Ferree, Harry L., assignor to Richardson Corporation, Rochester, N. Y. Beverage-carbonating machine. 1,649,820; Nov. 22.
- Ferrell, Dent. (See Crawford, J. H., Helmholtz, and Ferrell.)
- Ferrell, Robert M., Irvine, Calif. High-pressure lubricator. 1,630,735; May 31.
- Ferrette, Louis, Paris, France. Automatic regulator for internal-combustion engines. 1,625,719; Apr. 19.
- Ferret, Louis, Paris, France. Automatic fuel regulator. 1,644,717; Oct. 11.
- Ferretti, Antonio. (See Laconi, T. and Ferretti.)
- Ferretti, John, Hastings, Pa. Mouthpiece. 1,646,530; Oct. 25.
- Ferris, Conrad, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Overshoe. Des. 73,974; Nov. 29.
- Ferring, Anton W., Dubuque, Iowa. Sand mold. 1,639,934; Aug. 23.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Door-holding attachment. 1,636,468; July 10.
- Ferris, Howard J., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Pullmotor. 1,614,111; Jan. 11.
- Ferris, Howard J., Harvard, Ill., assignor to Hunt, Helm, Ferris & Company, Pipe protector. 1,624,485; Apr. 12.
- Ferris, Walter, Milwaukee, Wis. Thermostatic valve. 1,621,660; Mar. 22.
- Ferris, Roy W., assignor of one-third to W. Carpenter and H. W. Jackson, copartners under the firm name of Carpenter and Jackson, Muskegon, Mich. Fingerprint device. 1,618,524; Feb. 22.
- Ferris, Walter, Milwaukee, Wis. Hydraulic transmission. 1,619,200; Mar. 1.
- Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic transmission. 1,628,603; May 10.
- Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic transmission. 1,647,690; Nov. 1.
- Ferris, Walter, Milwaukee, and M. F. Keese, South Milwaukee, assignors to Bucyrus Company, South Milwaukee, Wis. Bushing. 1,629,818; May 24.
- Ferris, Walton C., assignor to National Manufacturing Company, Inc., Lincoln, Neb. Scaffold hoist. 1,622,247; Mar. 22.
- Ferris, Wheaton C., University City, Mo. Lock. 1,620,757; Mar. 15.
- Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Door latch. 1,633,888; June 23.
- Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Door latch. 1,638,249; Aug. 9.
- Ferris, William L., Westfield, N. J., assignor to L. E. Waterman Company, New York, N. Y. Fountain pen and stand therefor. 1,620,529; Mar. 8.
- Ferris, William S., assignor to Adams, Arthur J., assignor.)
- Ferrise, John, et al. (See Brown, W., and Morano, assignors.)
- Ferriter, John P., Oceanport, and W. T. Guest, Eatontown, N. J. Alternating-current telegraph repeater. 1,631,675; June 7.
- Ferriter, John P., Oceanport, and W. T. Guest, Eatontown, N. J. Alternating-current telegraph system. 1,631,676; June 7.
- Ferriter, John P., Boston, Mass., and E. E. Stradley, West Orange, N. J. Telegraph-printer system. 1,645,591; Oct. 18.
- Ferro, Claude B., San Bernardino, Calif. Traffic signal for motor vehicles. 1,644,424; Oct. 4.
- Ferro Machine and Foundry Co., The. (See Gill, Frank P., jr., assignor.)
- Ferry, Cora. (See Perry, Elmer and C.)
- Ferry, Elmer and C., Buffalo, N. Y. Combination brake and lock mechanism for automobiles. 1,625,936; Apr. 26.
- Ferry James, Co. (See Ferry, J. V., and Miller, assignors.)
- Ferry, James V., Atlantic City, and A. P. Miller, Pleasantville, assignors to James Ferry Co., Atlantic City, N. J. Underpinning. 1,644,572; Oct. 4.
- Ferry, Monie A., Dekalb County, assignor to Scripto Manufacturing Company, Atlanta, Ga. Container. 1,628,138; May 10.
- Féry, Charles, Paris, France. Electric cell. 1,621,481; Mar. 15.
- Fessler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Filter. 1,630,480; May 31.
- Fessler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant receptacle. 1,645,901; Oct. 18.
- Fessler, Douglas F., Evanston, assignor to The Bassick Manufacturing Co., Chicago, Ill. Lubricant compressor. 1,649,159; Nov. 15.

- Fessenden, Reginald A., Chestnut Hill, Mass. Method and apparatus for coordinating radio and phonograph reproduction. 1,616,416; Feb. 1.
- Fessenden, Reginald A., Chestnut Hill, Mass. Book reproducible by radiant energy. 1,616,848; Feb. 8.
- Fessenden, Reginald A., Chestnut Hill, Mass. Wireless directive signaling. 1,617,240; Feb. 8.
- Fessenden, Reginald A., Chestnut Hill, Mass. Method and apparatus for the transmission of energy by high-frequency impulses. 1,617,241; Feb. 8.
- Fessenden, Reginald A., Chestnut Hill, Mass. Wireless transmission and reception. 1,617,242; Feb. 8.
- Fessenden, Reginald A., Chestnut Hill, Mass. Method and apparatus for determining distance by echo. 1,636,502; July 19.
- Fessler, Marcus J., Syracuse, N. Y. Reclaiming rubber. 1,626,800; May 3.
- Festbaunkasten Gesellschaft mit beschränkter Haftung. (See Rettig, Max R., assignor.)
- Festenburg, Arthur G., and H. Siroomi, New York, N. Y. Adjustable support for clotheslines. 1,616,314; Feb. 1.
- Fletcher, Theophil J., Norwalk, Wis. Controlling device for motor-draw binders. 1,621,773; Mar. 22.
- Fletcher, Theophil J., Norwalk, Wis. Tractor brake. 1,631,122; June 7.
- Fetter, Charles H. (See Strieby, M. E., and Fetter.)
- Fetter, Charles H., Millburn, N. J., assignor to American Telephone and Telegraph Company. Program-selecting circuits. 1,629,491; May 24.
- Fetterly, Harry L., Philadelphia, Pa. Automatic damper. 1,622,710; Mar. 29.
- Fetters, George W., Toledo, Ohio. Vise. 1,651,263; Nov. 29.
- Fetty, Charlie C., El Dorado, Kans. Counterbalancing means for well-pumping apparatus. 1,631,408; June 7.
- Fetzer, Karl M., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,613,943; Jan. 11.
- Fetzer, Karl M., Rutherford, and N. A. Newell, Lyndhurst, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,614,291; Jan. 11.
- Fewins, Frank, Los Angeles, Calif. Hair cutter. 1,615,328; Jan. 25.
- Fewlass, Thomas H., Highland Park, Mich. Indatable bladder. 1,649,456; Nov. 15.
- Fey, Howard M., San Antonio, Tex. Cam-shaft control. 1,632,223; June 14.
- Feybusch, Martin, Brooklyn, N. Y. Container or receptacle for the dispensing of ice cream, ices, or the like. 1,658,480; Aug. 1.
- Feybusch, Martin, New York, N. Y., and P. W. Fleischer, Weehawken, assignors to New Jersey Machine Corporation, Hoboken, N. J. Machine for feeding sheets, labels, and the like. 1,638,151; Aug. 9.
- Feybusch, Martin, New York, N. Y., and P. W. Fleischer, Weehawken, N. J., assignors to New Jersey Machine Corporation, Hoboken, N. J. Clutch tripping mechanism. 1,641,258; Sept. 6.
- Fiata, Joseph B., New York, N. Y., assignor to Standard Pneumatic Action Company. Transposing device for musical instruments. 1,638,297; Aug. 9.
- Fiberloid Corporation, The. (See Kenyon, Silas F., assignor.)
- Fibre Insulation Company. (See Frederick, Louis T., assignor.)
- Fichtenbaum, Oscar, Brooklyn, N. Y. Folding bed or couch. 1,626,501; May 3.
- Fichtner, Joseph B., and H. H. Crouch, Uhrichsville, assignors to The Ric-Wil Company, Cleveland, Ohio. Conduit construction. 1,642,146; Sept. 13.
- Fick, Fred R., Galva, Iowa. Separating grate for grain thrashers. 1,617,624; Feb. 15.
- Fickle, Gerald, Glenwood, Iowa. Mixing device. 1,636,127; July 19.
- Fidelity Machine Company. (See Larkin, Walter, assignor.)
- Fiebigler, Joseph A., St. Paul, Minn. Circuit closer. 1,627,962; May 10.
- Fiechter, John J., Willow Grove, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Buffing wheel. 1,640,022; Aug. 23.
- Fiegel, William, and W. S. Enderich, assignors to Bohn Aluminum and Brass Company, Detroit, Mich. Closing-in machine. 1,635,987; July 19.
- Fiegel, William J. (See Eggweiler, C. W., and Fiegel.)
- Fiegel, William J., Detroit, Mich., assignor, by mesne assignments to Bohn Aluminum and Brass Corporation. Machine for boring bearings and the like. 1,615,372; Jan. 25.
- Field, Alexander W., Gleichen, Alberta, Canada. Brake shoe. 1,647,218; Nov. 1.
- Field, Burnham E., Douglaston, and R. Franks, Elmhurst, N. Y., assignors to Haynes Steete Company. Wear-resisting alloy. 1,626,440; May 3.
- Field, Crosby, Brooklyn, N. Y., assignor to Gray Products, Inc. Consolidated metallic fiber article. 1,620,530; Mar. 8.
- Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Cleaving pad. 1,646,395; Oct. 25.
- Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Scrubbing device and material therefor. 1,646,396; Oct. 25.
- Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Metal-wool article. 1,649,894; Nov. 22.
- Field, Crosby, New York, N. Y., assignor to Chemical Machinery Corporation. High-temperature heating method. 1,619,660; Mar. 1.
- Field, Crosby, Yonkers, N. Y., assignor to Chemical Machinery Corporation. Apparatus for heat transfer at high temperature. 1,619,661; Mar. 1.
- Field, Crosby, Yonkers, N. Y., assignor to Chemical Machinery Corporation. Apparatus for heating and for controlling reactions at high temperatures. 1,619,662; Mar. 1.
- Field, Crosby, Yonkers, N. Y., assignor to Chemical Machinery Corporation. Apparatus for heating and for controlling reactions at high temperatures. 1,619,663; Mar. 1.
- Field, Crosby, Yonkers, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Sublimation apparatus. 1,641,518; Oct. 4.
- Field, Edward A., jr. (See Field, Edward A., and E. A., jr.)
- Field, Edward A., and E. A. Field, jr., Chicago, Ill. Oil burner. 1,643,115; Sept. 20.
- Field, Edward A. and E. A., jr., assignors to Field Engineering Company, Chicago, Ill. Valve-control mechanism. 1,639,935; Aug. 23.
- Field Engineering Company. (See Field, Edward A. and E. A., jr., assignors.)
- Field, Frank E. (See Casper, W. L., and Field.)
- Field, Frank E., Somerville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,616,180; Feb. 1.
- Field, Frank E., Somerville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage-limiting device. 1,651,021; Nov. 29.
- Field, Henry P., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,616,573; Feb. 8.
- Field, Henry P., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,631,313; June 7.
- Field, Henry P., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,631,314; June 7.
- Field, Henry P., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,649,395; Nov. 15.
- Field, Henry P., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,649,396; Nov. 15.
- Field, Herbert D. (See McCrystal, Robert C., assignor.)
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,613,944; Jan. 11.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,647,284; Nov. 1.
- Field, Joseph G. W., Altrincham, assignor to Linotype and Machinery Limited, London, England. Distributing mechanism for typographical composing machines. 1,652,303; Dec. 13.
- Field, Oscar S., Roselle Borough, N. J. Light signal. 1,638,385; Aug. 9.
- Field, Oscar S., Roselle, N. J., assignor, by mesne assignments, to the Union Switch & Signal Company, Swissvale, Pa. Switch circuit controller. 1,629,998; May 24.
- Field, Samuel B. (See Tucker, S. H., and Field.)
- Field, Wm. A., Company. (See Erickson, Emil, assignor.)
- Fielding, John, North Providence, and J. P. Whitaker, Apponaug, R. I. Safety catch. 1,616,964; Feb. 8.
- Fielding, John, North Providence, and J. P. Whitaker, Apponaug, R. I. Temple hinge. 1,616,965; Feb. 8.
- Fields, Joseph A., New York, N. Y. Perfume bottle. 1,647,833; Oct. 27.
- Fields, Joseph A., New York, N. Y. Bottle. Des. 74,104; Dec. 20.
- Fields, William B., New Albany, Miss. Shirt pocket. 1,618,418; Feb. 22.
- Fiene, William L. (See Pullen, J. R., and Fiene.)
- Fife, Riley C., Manchester, N. H. Garment fastener. 1,643,853; Oct. 27.
- Fiffeld, Albert F., St. Catharines, Ontario, Canada. Rail anchor. 1,648,300; Nov. 8.
- Fiffeld, Horace A., et al. (See Molnar, Zoltan, assignor.)
- Fifth Avenue Coach Company. (See Forrester, Michael J., assignor.)
- Fifth Avenue Corset Company. (See Leonard, Joseph, assignor.)
- Fighiera, Marcel. (See de Garkovenko, W., and Fighiera.)
- Figlietti, Germano, San Francisco, Calif. Airplane. 1,633,889; June 28.
- Fikso, Adam, San Diego, Calif. Container. 1,612,861; Jan. 4.
- Files, Adino F., Maumee, Ohio. Triturating machine. 1,620,639; Mar. 15.
- Files, Adino F., Maumee, Ohio. Dispensing machine. 1,625,461; Apr. 19.
- Files, Adino F., Maumee, Ohio. Powdered butter coloring for butter and oleomargarine. 1,649,821; Nov. 22.
- Filippi, Antoine P., Paris, France. Helicopter. 1,622,191; Jan. 22.
- Filkins, Arthur J., Riverside, Ill., assignor to Paul Dickinson, Incorporated. Floor vent. 1,648,014; Nov. 8.

- Finler, George B., assignor of one-half to W. J. Harvey, Toronto, Ontario, Canada. Producing metallic oxides. 1,620,880; Mar. 15.
- Filter Sack Manufacturing Co., The. (See Furbish, Frank R., assignor.)
- Filtrators Company. (See Sanftleben, Joseph F., assignor.)
- Finch, Edward R. (See Smith, E. A., and Finch.)
- Finch, Frank J. (See Cook, John T., assignor.)
- Finch, Harry, Inglewood, Calif., assignor to Allied Metal Industries, Inc. Chandelier. Des. 72,823; June 14.
- Finch, Harry, Inglewood, Calif., assignor to Allied Metal Industries, Inc. Lighting-fixture bracket. Des. 72,824; June 14.
- Finch, Harry D., Long Beach, Calif. Match container. 1,639,843; Aug. 23.
- Finch, Harry H., Aberdeen, Wash. Condenser tube and tube-sheet connection. 1,616,893; Feb. 8.
- Finch, John H., et al. (See Minnis, Henry M., assignor.)
- Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Label-attaching seam. 1,643,406; Sept. 27.
- Finch, Paul R., assignor to A. C. White, Des Moines, Iowa. Rotary pump. 1,627,024; May 3.
- Finch, Stanley W., Washington, D. C. Rail-tying device. 1,630,696; May 31.
- Finch, Stanley W., Washington, D. C. Rail-tying device. 1,630,697; May 31.
- Finch, Willis E. (See Stimpson, W. F. and Finch.)
- Fischer, Elbio H. (See Allen, W. P., and Fincher.)
- Finckh, Dr., Apparate-Gesellschaft m. b. H. (See Ritter, Heinrich, assignor.)
- Finckh, Karl. (See Mayer, M., Finckh, and Koref.)
- Findell, Elmer A. (See Johnson, A. J., Boileau, and Findell.)
- Findlay, David H., Pasadena, Calif. Golf putter and forming the same. 1,622,864; Mar. 29.
- Findlay Electric Porcelain Company, The. (See Müller, Ferdinand C. H., assignor.)
- Findlay, George P., and W. W. Johnston, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Knife grinder for looms. 1,619,410; Mar. 1.
- Findlay, George P., and W. W. Johnston, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Dip-wire polishing machine. 1,651,117; Nov. 29.
- Findlay, Robert, Manufacturing Company. (See Schwartz, Frederick, assignor.)
- Findora, John A., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Machine for shortening springs. 1,633,010; June 21.
- Fine, Bernard M. (See Ruckert, H. E., and Fine.)
- Fine, Lewis, assignor, by mesne assignments, to Bud Wheel Company, Philadelphia, Pa. Vehicle wheel construction. 1,622,310; Mar. 29.
- Fine, Solomon, and B. Dworin, Montreal, Quebec, Canada. Adjustable necktie. 1,634,414; July 5.
- Fine, William H., Los Angeles, Calif. Device for testing safety valves on tank cars. 1,637,743; Aug. 2.
- Finger, Carl W., Wilkes-Barre, Pa. Segmental crushing roll. 1,614,784; Jan. 18.
- Fingerhut, Alec E., Cleveland, Ohio. Tonsillotome. 1,653,953; Dec. 27.
- Fingerman, Ira, assignor to Universal Leather Goods Co., Chicago, Ill. Vanity box. Des. 73,907; Nov. 22.
- Finizio, Thomas D., Yorktown Heights, N. Y. Attaching plug. 1,626,580; Apr. 26.
- Fink, Edward J., Bronx, N. Y. Ornamental body. 1,622,775; Mar. 29.
- Fink, Emil C. (See Masury, A. F., and Fink.)
- Fink, Frederick B., New York, N. Y., assignor to Paragon Devices Corporation. Lubricating device. 1,616,425; Feb. 1.
- Fink, Henry A., assignor to Continental Can Company, Inc., Syracuse, N. Y. Sealed metal containers. 1,619,411; Mar. 1.
- Fink, Henry A., assignor to Continental Can Company, Inc., Syracuse, N. Y. Sealed metal containers. 1,619,412; Mar. 1.
- Fink, Henry A., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Mechanism for feeding filled cans to closing machines. 1,629,616; May 24.
- Fink, Henry A., Oak Park, Ill., and G. Flook, Syracuse, assignors to Continental Can Company, Inc., New York, N. Y. Machine for closing filled cans. 1,640,762; Aug. 30.
- Fink, Henry A., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Closing machine for cans. 1,653,557; Dec. 20.
- Finke, Herman A. (See St. Louis, Mo. Carburetor. 1,642,065; Sept. 19.)
- Finkelstein, David R. (See Clarkson, Guy S., assignor.)
- Finkle, Harry, Philmont, N. Y. Connector. 1,629,783; May 24.
- Finkle, William P., Castleton-on-Hudson, N. Y., assignor of one-half to H. A. Bailey, Burlington, Vt. Tool. 1,622,192; Mar. 22.
- Finkhaus, Oskar, assignor to Bohn & Hecher Maschinenfabrik und Eisengießerei, Würzburg, Germany. Two-revolution printing press. 1,647,285; Nov. 1.
- Finlay, Alexander, assignor to The Barrymore Seamless Wiltons, Inc., Philadelphia, Pa. Carpet. Des. 73,654; Oct. 18.
- Finlay, David B., Fresno, Calif. Airplane checker. 1,628,134; May 10.
- Finlayson, Mima K., Los Angeles, Calif. Flower holder. 1,616,894; Feb. 8.
- Finlayson, Mima K., Los Angeles, Calif. Flower receptacle. 1,638,250; Aug. 9.
- Finlayson, Thomas C. (See Smith, E. W., and Finlayson.)
- Finley, Charles M., Sioux City, Iowa. Tire-chain tool. 1,642,542; Sept. 13.
- Finley, Clyde A., Galesburg, Ill., assignor of one-half to W. Montgomery, Sauk City, Wis. Folding hatchet. 1,614,949; Jan. 18.
- Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Pipe-wrapping machine. 1,622,432; Mar. 29.
- Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Emulsion and making the same. 1,625,304; Apr. 19.
- Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Treating paper. 1,641,478; Sept. 6.
- Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Treating paper board. 1,641,479; Sept. 6.
- Finley, Sam E., Atlanta, Ga. Maturing and stabilizing road structures. 1,637,993; Aug. 2.
- Finley, Thomas M., St. Louis, Mo. Flexible power transmission for internal-combustion engines. 1,621,977; Mar. 22.
- Finley, Thomas M., and A. W. Brown, St. Louis, Mo. Soft-lubricating plunger. 1,621,976; Mar. 22.
- Finley, Thomas M., and A. W. Brown, St. Louis, Mo. Valve gear. 1,649,518; Nov. 15.
- Finn, Charley N. (See Walker, Arthur W., assignor.)
- Finn, John, Mill Valley, Calif. Automobile armrest. Des. 73,286; Aug. 23.
- Finn, John, Metal Works. (See Finn, Robert B., assignor.)
- Finn, John C., Los Angeles, Calif. Wooden pot for plants. 1,631,409; June 7.
- Finn, Robert B., assignor to John Finn Metal Works, San Francisco, Calif. Apparatus for the production of metal dust. 1,622,433; Mar. 29.
- Finn, Robert B., assignor to John Finn Metal Works, San Francisco, Calif. Apparatus for the production of metallic dust. 1,622,434; Mar. 29.
- Finne, William, Hibbing, Minn. Two-way water turbine. 1,615,619; Jan. 25.
- Finnell, Walter S., assignor to American Scrubbing Equipment Company, Hannibal, Mo. Floor-scrubbing machine. 1,628,707; May 17.
- Finney, Cassius L., et al. (See Green, Lee B., assignor.)
- Finney, David P., Clairton, Pa. Coke-handling mechanism. 1,618,701; Feb. 22.
- Finney, Harry P., Chicago, Ill., and F. A. Jacobs, Warren, Ohio, assignors, by mesne assignments, to Chicago-Walter Reuther Building Company, Chicago, Ill. Car-coupling mechanism. 1,637,899; Aug. 2.
- Finney, James M. (See Schroeder, Anthony, assignor.)
- Finney, James M., et al. (See Rieke, Theodore W., assignor.)
- Finsen, Eyvind, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y. Apparatus for and method of cutting gears. 1,613,880; Jan. 11.
- Finstone, Marx, New York, N. Y. Boudoir desk set. Des. 71,786; Jan. 4.
- Finstone, Marx, New York, N. Y. Pen stand or similar article. Des. 71,908; Jan. 25.
- Finstone, Marx, New York, N. Y. Desk set. Des. 72,147; Mar. 8.
- Finstone, Marx, New York, N. Y. Swivel pen support for desk sets. 1,645,544; Nov. 8.
- Finstone, Marx, New York, N. Y. Pad-holding desk set. 1,648,455; Nov. 8.
- Fipps, William P., St. Louis, Mo. Automobile lock. 1,638,688; Aug. 9.
- Firking Fire Extinguisher Company Inc. (See Everitt, Walter E., assignor.)
- Fire Proof Wall Company. (See Makowski, John F., assignor.)
- Firestone-Apsley Rubber Company. (See Baker, Charles H., assignor.)
- Firestone, Floyd, assignor to The Regents of the University of Michigan, Ann Arbor, Mich. Machine for detecting flaws. 1,640,567; Aug. 30.
- Firestone Steel Products Company, The. (See Carroll, Dallas C., assignor.)
- Firestone Steel Products Company, The. (See Kuhn, Max O., assignor.)
- Firestone Steel Products Company, The. (See Senglar, Joseph J., assignor.)
- Firestone Steel Products Company, The. (See Swain, Joseph C., assignor.)
- Firestone Steel Products Company, The. (See Mitchell, Marlow W., assignor.)
- Firestone Tire and Rubber Company, The. (See Benner, W. W., and Homer, assignors.)
- Firestone Tire and Rubber Company, The. (See Brown, Roy W., assignor.)

- Firestone Tire and Rubber Company, The. (See Cotton, Emmett W., assignor.)
- Firestone Tire and Rubber Company, The. (See Hale, James E., assignor.)
- Firestone Tire and Rubber Company. (See Hoener, Edmund A., assignor.)
- Firestone Tire and Rubber Company, The. (See Jones, Robert R., assignor.)
- Firestone Tire and Rubber Company, The. (See Myers, Carmon A., assignor.)
- Firestone Tire and Rubber Company, The. (See Pade, Max H., assignor.)
- Firestone Tire and Rubber Company, The. (See Putt, E. D., and Stevens, assignors.)
- Firestone Tire and Rubber Company, The. (See Semler, Clyde M., assignor.)
- Firestone Tire and Rubber Company. (See Shepard, N. A., and Krall, assignors.)
- Firestone Tire and Rubber Company, The. (See Smith, Thomas J., assignor.)
- Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
- Firestone Tire and Rubber Company, The. (See Stevens, William C., assignor.)
- Firestone Tire and Rubber Company, The. (See Tuttle, J. C., Smith, and Wiener, assignors.)
- Firma Ernst Gessner Aktiengesellschaft, Aue/Erzgebirge. (See Wenzel, Julius E., assignor.)
- Firma Kraft & Steudel Fabrik Photographischer Papiere G. m. b. H. (See Kraft, Heinrich A. B., assignor.)
- Firma Maschinenfabrik Kappel. (See Hadam, Max, assignor.)
- Firman, Henry. (See Bridges, F., Firman, Tisdale, and Hoskins.)
- Firgo, Constantino, Genoa, Italy. Portable apparatus for producing and applying electric currents for therapeutic purposes. 1,647,691; Nov. 1.
- First, Mahlon E., Lakewood, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Mechanism for handling material. 1,633,627; June 28.
- First National Bank of Peru, Ind., trustee, The. (See Forney, Cal A., assignor.)
- First National Bank, The, administrator. (See Stewart, Robert D.)
- First National Bank of Anaheim, trustee. (See Schnepf, Louis W., assignor.)
- First National Bank & Trust Co. (See Hardison, Edwin A., assignor.)
- First Trust and Deposit Company, administrator. (See Latta, Emmitt G., assignor.)
- First Trust and Savings Bank of Pasadena, trustee. (See Latta, Emmitt G., assignor.)
- First Wisconsin Trust Company, executor. (See Miller, Henry C., assignor.)
- Firth, Alfred T., New York, N. Y. Shears or scissors and the like. 1,633,441; June 21.
- Fischbach, Richard, Berlin, Germany. Stop valve 1,636,297; July 19.
- Fischer, Albert, assignor to the Firm Bergedorfer Eisenwerk Aktiengesellschaft, Bergedorf-Hamburg, Germany. Sterilizing device. 1,614,950; Jan. 18.
- Fischer, Albert C., Chicago, Ill. Elastic and expandible paving joint. Re 16,654; Feb. 22.
- Fischer, Albert C., Chicago, Ill. Rail filler. 1,619,924; Mar. 8.
- Fischer, Albert C., Chicago, Ill. Deformable expansion-contraction joint. 1,622,311; Mar. 29.
- Fischer, Albert C., Chicago, Ill. Roofing attachment. 1,626,802; May 8.
- Fischer, Albert C., Chicago, Ill. Hinged expansion joint. 1,637,178; July 26.
- Fischer, Albert C., Chicago, Ill. Contraction expansion joint. 1,639,763; Aug. 23.
- Fischer, Albert C., Chicago, Ill. Expansion joint. 1,639,764; Aug. 23.
- Fischer, Albert C., Chicago, Ill. Reinforcing and the like band for expansion joint strips. 1,645,743; Oct. 18.
- Fischer, Albert C., Chicago, Ill. Supporting device for concrete separating strips. 1,647,564; Nov. 1.
- Fischer, Albert C., Chicago, Ill. Mold for expansion-joint strips. 1,651,878; Dec. 6.
- Fischer, Albert C., Chicago, Ill. Rail filler. 1,651,879; Dec. 6.
- Fischer, Albert C., assignor to Roach-Appleton Manufacturing Company, Chicago, Ill. Outlet-box connection. 1,629,267; May 17.
- Fischer, Albert F., Mason City, Iowa. Head-wall structure for culverts. 1,620,089; Mar. 8.
- Fischer, Carl, and A. Simonet, West Homestead, Pa. Fuel burner. 1,636,597; July 19.
- Fischer, Charles, New York, N. Y. Mount for finger-ring facings. 1,620,252; Mar. 8.
- Fischer, Charles, New York, N. Y. Boudoir lamp. 1,639,493; Aug. 16.
- Fischer, Charles J., Chicago, Ill. Grain-car-door latch. 1,615,120; Jan. 18.
- Fischer, Charles L., assignor to The Goliath Rubber Company, Cleveland, Ohio. Mold. 1,642,947; Sept. 20.
- Fischer, Edward J., Crescent Springs, Ky. Sanding machine. 1,635,359; July 12.
- Fischer, Ernest, assignor of one-half to C. Cikanek, Chicago, Ill. Garment hanger. 1,615,748; Jan. 25.
- Fischer, Ernest, Budapest, Hungary. Orthopedic appliance. 1,646,194; Oct. 18.
- Fischer, Ferdinand, Berlin, Germany. Printing plate and production thereof. 1,639,171; Aug. 16.
- Fischer, Frances K., Brooklyn, N. Y. Baby carriage, scooter, and the like. 1,652,004; Dec. 6.
- Fischer, Fred W., and G. F. Dallas, assignors to Tennessee Tool Works, Inc., Knoxville, Tenn. Composition for sealing leaks in tires and tubes and its production. 1,650,867; Nov. 29.
- Fischer, Gervasius W., Madison, Wis. Toilet seat and cover. 1,652,304; Dec. 13.
- Fischer, Geza S., Berlin, Germany. Automatic circuit breaker. 1,646,904; Oct. 25.
- Fischer, H. G., & Co. (See Osborn, Howard H., assignor.)
- Fischer, H. S., Co. (See Isherwood, Paul A., assignor.)
- Fischer, Hans, assignor to Maschinenfabrik-Augsburg-Nuisinggesellschaft, Augsburg, Germany. Intaglio printing machine for printing on sheets. 1,650,339; Nov. 22.
- Fischer, Hermann. (See Green, Henry, assignor.)
- Fischer, Hermann, New York, N. Y. String musical instrument. 1,623,667; Apr. 5.
- Fischer, Hermann, New York, N. Y. assignor to Tower Manufacturing Corporation, Boston, Mass. Electrical sound transmitting and receiving apparatus. 1,633,170; June 21.
- Fischer, Hermann, assignor to Tower Manufacturing Corporation, Boston, Mass. Sound amplifier. 1,633,366; June 21.
- Fischer Hollinshead Co. (See Grönningaeter, Sigurd, assignor.)
- Fischer, Howard L. (See Dunlap, Bernald M., assignor.)
- Fischer, Howard L. (See Reiland, Ernest S. and P. M., assignors.)
- Fischer, Joseph, Faith, S. Dak. Aerial propeller. 1,628,716; May 17.
- Fischer, Joseph, Faith, assignor to A. Hanneman, Redelm, S. Dak. Gun sight. 1,622,193; Mar. 22.
- Fischer, Joseph, assignor to F. Meyer, Redelm, S. Dak. Mine propeller. 1,623,868; Apr. 5.
- Fischer, Joseph B., Chicago, Ill. Balloting system and the like. 1,624,045; Apr. 12.
- Fischer, Max W., Portland, Oreg. Hinge. 1,643,621; Sept. 27.
- Fischer Motor Company. (See Spillman, Edward O., assignor.)
- Fischer, Moskau, Berlin-Friedenau, Germany, assignor to N. O. Schinka, Maatschappij voor Handel en Industrie, Amsterdam, Holland. Frame for typewriting machines. 1,627,773; May 10.
- Fischer, Philip A., New York, N. Y. Gartered hosiery. 1,644,185; Oct. 4.
- Fischer & Pruefer, Inc. (See Fischer, Sigmund, assignor.)
- Fischer, Robert L., Larchmont, N. Y. Syringe holder. 1,647,039; Oct. 25.
- Fischer, Sigmund, assignor to Fischer & Pruefer, Inc., Providence, R. I. Cuff link. Des. 71,962; Feb. 8.
- Fischer, Wilhelm. (See Gerth, F. and Fischer.)
- Fischer, Wilhelm. (See Liebert, H. P., and Fischer.)
- Fish, David W., Dolgeville, N. Y. Ice creeper. 1,616,790; Feb. 8.
- Fish, Edward. (See Novick, A., and Fish.)
- Fish, Fred O., Winchester, Mass. Golf tee. 1,647,440; Nov. 1.
- Fish, Fred O., Winchester, Mass. Attachment for golf clubs. 1,651,284; Nov. 29.
- Fish, Frederick K., jr., San Francisco, Calif. Process and apparatus for making pulp from fibrous material. 1,632,467; June 14.
- Fish, Frederick K., jr., San Francisco, Calif. Apparatus and making paper pulp. 1,633,730; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Treating plant material. 1,633,731; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Process and apparatus for making pulp from fibrous materials. 1,633,732; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Process and apparatus for manufacturing ground-wood pulp. 1,633,733; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Process and apparatus for digesting or cooking fibrous material. 1,633,734; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Process and apparatus for making pulp from fibrous material. 1,633,735; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Preparing paper pulp. 1,633,736; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Liquid for treating plant material and producing the same. 1,633,737; June 28.
- Fish, Frederick K., jr., San Francisco, Calif. Pulp fiber. 1,633,738; June 28.
- Fish, Herbert L., assignor to H. C. Downey, Springfield, Ohio. Blowtorch. 1,629,999; May 24.
- Fish, Lewin B., Maplewood, N. J., assignor to American Telephone & Telegraph Company. Step for poles. 1,630,293; May 31.
- Fish, Lewin B., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Battery light. 1,651,451; Dec. 6.

- Fish, Richard H., Fall River, Mass. Doup beddle. 1,644,573; Oct. 4.
- Fish, Samuel W., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Multiple-tool-spindle machine. 1,635,116; Apr. 19.
- Fish, William L., Pompton Plains, N. J. Card camera. 1,626,606; May 3.
- Fishback, F. M. (See Loy, James W., assignor.)
- Fishback, John S., Indianapolis, Ind. Self-contained radio receiving unit. 1,626,803; May 3.
- Fishbein, Abraham. (See Glowitz, Benjamin, assignor.)
- Fishbein, Rubin, New York, N. Y. Hand bag. 1,639,454; Aug. 16.
- Fishburn, Moses P., Carthage, Mo. Rain guard for automobile hoods. 1,635,746; July 12.
- Fishel, Alvin S., Cleveland, Ohio. Brake supporting and operating mechanism. 1,636,221; July 19.
- Fishel, Alvin S., and E. I. Goulder, Cleveland, Ohio. Socket or receptacle for concrete work. 1,627,554; May 10.
- Fisher, Albert H., East Cleveland, Ohio, assignor to Kex Company, Incorporated, St. Louis, Mo. Tire-repair device and method. 1,633,499; Dec. 6.
- Fisher, Alfred B., New York, N. Y. Polishing composition. 1,624,783; Apr. 12.
- Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Washing-machine casing. 1,636,176; July 19.
- Fisher, Arthur W. (See Snavely, C. S., and Fisher.)
- Fisher, Arthur W., Forrest Hills Borough, and W. B. Wells, Wilkesburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway apparatus. 1,621,196; Mar. 15.
- Fisher, Arthur W., Wilkesburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Fuse holder. 1,651,055; Nov. 29.
- Fisher, Asbury B., Anderson, Ind. Tire for rockers. 1,618,646; Feb. 22.
- Fisher Automatic Brush Machine Company, The. (See Fisher, Charles E., assignor.)
- Fisher Body Corporation. (See Simpson, Emory G., assignor.)
- Fisher, Charles, New York, N. Y. Rack for boots and shoes. 1,626,399; Apr. 26.
- Fisher, Charles, assignor of one-third to A. C. Grunwald, one-third to C. E. Carlson, and one-third to F. H. Loesch, Chicago, Ill. Toilet-paper fixture. 1,614,112; Jan. 11.
- Fisher, Charles, Chicago, Ill., assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings bank. 1,631,315; June 7.
- Fisher, Charles E., Baltimore, Md., assignor to The Fisher Automatic Brush Machine Company, Inc., Baltimore, Md. Brush-making machine. 1,639,557; Aug. 16.
- Fisher, Charles O., Wellsville, Kans. Gasoline-reserve control. 1,613,028; Jan. 4.
- Fisher, Charles R., Rogers City, Mich. Apparatus for loading and unloading materials. 1,620,531; Mar. 8.
- Fisher, Charles R., Rogers City, Mich. Control system for endless-belt conveyers. 1,620,532; Mar. 8.
- Fisher, Charles T., assignor to E. N. Rowell Co., Inc., Batavia, N. Y. Cabinet. 1,641,259; Sept. 6.
- Fisher, Clarence F., Lancaster, Kans. Antiskid chain. 1,627,025; May 3.
- Fisher, Clifford H., Fort Lauderdale, Fla. Garment hanger. 1,621,160; Mar. 15.
- Fisher, David, assignor to Paden City Glass Manufacturing Company, Paden City, W. Va. Candlestick. Des. 71,909; Jan. 25.
- Fisher, Edwin H., assignor to Fisher Scientific Company, Pittsburgh, Pa. Laboratory tongs. 1,653,803; Dec. 27.
- Fisher Engineering Corporation. (See Fisher, Thomas, assignor.)
- Fisher, Ernest F., St. Louis, Mo. Fabric-renovating machine. 1,619,814; Mar. 8.
- Fisher, Fenton R. (See White, Ernest C., assignor.)
- Fisher, Frank B., Lisbon, Ohio. Bicycle skate. 1,653,558; Dec. 20.
- Fisher, Frank C., Toledo, assignor to The Bryan Screw Machine Products Company, Bryan, Ohio. Automobile lock. 1,627,081; May 3.
- Fisher, Frank C., Toledo, assignor to The Bryan Screw Machine Products Company, Bryan, Ohio. Automobile lock. 1,627,082; May 3.
- Fisher, Frederick-George, Quincy, Mass. Display package. 1,633,779; June 28.
- Fisher, Garfield W. (See Jones, L. S., Fisher, and Henrickson.)
- Fisher, George F., Roselle, N. J., assignor to Morgan & Wright. Manufacturing hollow cushion tires. 1,613,697; Jan. 11.
- Fisher, George F., Roselle, N. J., assignor, by mesne assignments, to Morgan & Wright, Detroit, Mich. Manufacture of cushion tires. 1,625,644; Apr. 19.
- Fisher Governor Company, The. (See Browne, Lyle W., assignor.)
- Fisher, Harold A., Denver, Colo. Tee box. 1,639,765; Aug. 23.
- Fisher, Harold J., Jersey City, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,647,286; Nov. 1.
- Fisher, Harry C., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Coloring granulated mineral, particularly slate. 1,631,628; June 7.
- Fisher, Harry F., St. Paul, Minn. Dwelling incinerator. 1,628,537; May 10.
- Fisher, Harry F., St. Paul, Minn. Dwelling incinerator door. 1,642,365; Sept. 13.
- Fisher, Harry H., and W. B. Rittenhouse, Chicago, Ill., assignors to Byllesby Engineering and Management Corporation, Wilmington, Del. Lining water courses and ditches therefor. 1,630,839; May 31.
- Fisher, Harry L., Muscatine, Iowa. Fish lure. 1,639,766; Aug. 23.
- Fisher, Harry L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber conversion product and making same. 1,642,018; Sept. 13.
- Fisher, Henry W., Perth Amboy, N. J., assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric cable. 1,648,641; Nov. 8.
- Fisher, Henry W., and R. W. Atkinson, Perth Amboy, N. J., assignors to Standard Underground Cable Company, Pittsburgh, Pa. Construction of cables. 1,651,590; Dec. 6.
- Fisher, Hubert. (See Grose, O. W., and Fisher.)
- Fisher, Isaac W., Laguna Beach, Calif. Casement-window weather strip. 1,621,361; Mar. 15.
- Fisher, J. M., Company. (See Chilson, Lewis S., assignor.)
- Fisher, Jacob, Wabash, Ind. Tool for wrapping wire. 1,633,401; June 21.
- Fisher, James B. (See Horning, H. L., Fisher, and Pope.)
- Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Governor control. 1,624,227; Apr. 12.
- Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Washer. 1,638,251; Aug. 9.
- Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Unitary power structure. 1,652,432; Dec. 13.
- Fisher, James P., Ceredo, W. Va. Pipe wrench. 1,617,150; Feb. 8.
- Fisher, James P., Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Fluid-controlling mechanism. 1,620,881; Mar. 15.
- Fisher, James P., Bartlesville, Okla., assignor, by mesne assignments, to Empire Gas and Fuel Company, Dover, Del. Hydraulic vibratory drilling tool. 1,646,959; Oct. 25.
- Fisher, Janon, et al, trustees. (See Charles, Carl L., assignor.)
- Fisher, John A., Sandusky, Ohio. Amusement device. 1,612,970; Jan. 4.
- Fisher, John W., Blackpool, England. Carburetor. 1,623,668; Apr. 6.
- Fisher, Joseph K., Santa Monica, Calif., assignor to J. E. Ogden, Mountainville, N. Y. Expansion shield. 1,639,223; Aug. 16.
- Fisher, Joseph K., Santa Monica, Calif., assignor to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,649,160; Nov. 15.
- Fisher, Julia, Bolckow, Mo. Generating power plant. 1,631,257; June 7.
- Fisher, Lewis J., Reedsburg, Wis. Steam heating system. 1,617,328; Feb. 15.
- Fisher, Lyle H., Kansas City, Mo., assignor to American Optical Company, Southbridge, Mass. Lens-testing instrument. 1,622,776; Mar. 29.
- Fisher, Lyle H., Kansas City, Mo., assignor to American Optical Company, Southbridge, Mass. Edging machine. 1,636,469; July 19.
- Fisher, Oliver W., East Baton Rouge, La. Lubricant pump. 1,623,101; Apr. 5.
- Fisher, Perry W., Yreka, Calif. Fire locator. 1,615,507; Jan. 25.
- Fisher, Ralph E., Cleveland Heights Village, Ohio. Surgical needle. 1,648,451; Nov. 8.
- Fisher, Roy, Pasadena, Calif. Traffic signal. Des. 7,145; Dec. 27.
- Fisher, Roy S., assignor to Timmons Radio Products Corporation, Philadelphia, Pa. Electron-tube amplifying apparatus. 1,630,118; May 24.
- Fisher, S. W. (See Castillo, Miguel, assignor.)
- Fisher, Samuel G., Boston, Mass. Electric-circuit-controlling apparatus. 1,631,024; May 31.
- Fisher Scientific Company. (See Fisher, Edwin H., assignor.)
- Fisher, Sol, Cleveland, Ohio. Hair waving. 1,641,751; Sept. 6.
- Fisher, Stanley L., Chester, assignor to Pratt Read Player Action Company, Deep River, Conn. Pneumatic-control device. 1,626,192; Apr. 26.
- Fisher, Thomas, Philadelphia, Pa. Apparatus for separating liquids of different specific gravity. 1,618,151; Feb. 15.
- Fisher, Thomas, Philadelphia, Pa., assignor to Fisher Engineering Corporation, Baltimore, Md. Apparatus for separating liquids of different specific gravity. 1,641,843; Sept. 6.
- Fisher, Walter S., assignor to The Willys-Overland Company, Toledo, Ohio. Lubrication of sleeve-valve engines. 1,634,826; July 5.
- Fisher, Wilbur H., Ottawa, assignor to A. Stein & Company, Chicago, Ill. Work holder for sewing machines. 1,616,035; Feb. 1.

- Fisher, Wilbur H., Ottawa, assignor to A. Stein & Company, Chicago, Ill. Work feed for sewing machines. 1,637,373; Aug. 2.
- Fisher, William A., and R. Amicarelli, Lowellville, Ohio. Bottle. 1,615,577; Jan. 25.
- Fisher, William C., assignor to The Russell Manufacturing Company, Middletown, Conn. Making selvaged fabrics. 1,639,224; Aug. 16.
- Fisher, William J., assignor to A. B. Farquhar Co. Ltd., York, Pa. Boiler. 1,615,789; Jan. 25.
- Fisher, Winfield S., Edmuhurst, Ill. Tooth-canal-filling compound. 1,641,844; Sept. 6.
- Fisk, Ernest T., Double Bay, near Sydney, New South Wales, Australia. Sound-screening attachment for windows and doorways. 1,617,384; Feb. 15.
- Fisk Rubber Company, The. (See Benson, Fred J., assignor.)
- Fisk Rubber Company, The. (See Castircum, Martin, assignor.)
- Fisk Rubber Company, The. (See Castircum, M., and Taylor, assignors.)
- Fisk Rubber Company, The. (See Desautels, Charles H., assignor.)
- Fisk Rubber Company, The. (See Donovan, William J., assignor.)
- Fisk Rubber Company. (See Ellinwood, George H., assignor.)
- Fisk Rubber Company, The. (See Freeburg, Walter S., assignor.)
- Fisk Rubber Company, The. (See Hansen, Raymond, assignor.)
- Fisk Rubber Company, The. (See Hennessy, Daniel E., assignor.)
- Fisk Rubber Company, The. (See Irgang, William F., assignor.)
- Fisk Rubber Company, The. (See Jennerjahn, W., and Pomplum, assignors.)
- Fisk Rubber Company, The. (See Krall, Stanley, assignor.)
- Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
- Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
- Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
- Fisk Rubber Company, The. (See Mead, George J., assignor.)
- Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
- Fisk Rubber Company, The. (See Mincher, Joseph F., assignor.)
- Fisk Rubber Company, The. (See Peglow, Albert H., assignor.)
- Fisk Rubber Company, The. (See Pratt, Benjamin H., assignor.)
- Fisk Rubber Company, The. (See Richey, Albert E., assignor.)
- Fisk Rubber Company, The. (See Scherner, John, assignor.)
- Fisk Rubber Company, The. (See Southmayd, Leon N., assignor.)
- Fisk Rubber Company, The. (See Wikle, George F., assignor.)
- Fisk Rubber Company, The. (See Williams, Job J., assignor.)
- Fiske, Eugene B., Saugus, Mass. Ice-house plow. 1,645,524; Oct. 18.
- Fiske, Jonathan P. B., assignor, by mesne assignments, to Electric Refrigeration Corporation, Detroit, Mich. Cooling unit. 1,632,283; June 14.
- Fislar, Charles W., Indianapolis, Ind. Dispensing device. 1,651,687; Dec. 6.
- Fiss, A., Company, The. (See Fiss, Albert, assignor.)
- Fiss, Albert, assignor to The A. Fiss Company, St. Louis, Mo. Tool box. 1,652,619; Dec. 13.
- Fissel, William E., York County, Pa. Chicken counting device. 1,645,075; Sept. 20.
- Fit-All Floor Polishing Attachment Co. (See Simpson, Frank I., assignor.)
- Fitch, Benjamin F., Greenwich, Conn. Transporting freight. 1,613,387; Jan. 4.
- Fitch, Benjamin F., Greenwich, Conn. Freight-handling apparatus. 1,630,736; May 31.
- Fitch, Benjamin F., Greenwich, Conn. Apparatus for handling freight. 1,643,489; Sept. 27.
- Fitch, Benjamin F., Greenwich, Conn. Turntable crane. 1,645,744; Oct. 18.
- Fitch, Benjamin F., Greenwich, Conn. Apparatus for handling freight. 1,648,301; Nov. 8.
- Fitch, Benjamin F., Greenwich, Conn. Load-lifting device. 1,650,118; Nov. 22.
- Fitch, C. J., Inc. (See Fitch, Clyde J., assignor.)
- Fitch, Charles M., Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Hinge. 1,621,500; Mar. 22.
- Fitch, Charles M., Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Burner-regulating mechanism. 1,637,179; July 26.
- Fitch, Charles M., Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Burner-regulating device. 1,637,180; July 26.
- Fitch, Clyde J., assignor to C. J. Fitch, Inc., Brooklyn, N. Y. Telephonic speaker. 1,630,119; May 24.
- Fitch, Frank E., East Orange, N. J., assignor to Cozzens Trading Company, Inc., New York, N. Y. Fabric-measuring machine. 1,647,127; Nov. 1.
- Fitch, Hugh C., Missouri Valley, Iowa. Serum-syringe filler and bottle carrier. 1,615,873; Feb. 1.
- Fitch, John S., and J. F. Tobin, Everts, Alberta, Canada. Gate. 1,642,875; Sept. 20.
- Fitch, John S., and J. F. Tobin, Everts, Alberta, Canada. Gate. 1,643,297; Sept. 27.
- Fite, Jeremiah T., Springfield, Mo. Vehicle ventilator. 1,644,186; Oct. 4.
- Fite, John J., Philadelphia, Pa. Bottle holder. 1,633,083; June 21.
- Fiti, Henry G., assignor of one-half to H. Lambros, Washington, D. C. Automatic dispenser. Re16,524; Jan. 4.
- Fitts, Charles F., et al. (See Hilgerink, Frank M., assignor.)
- Fitts, James L., Merchantville, N. J., and K. W. Rohlin, Philadelphia, Pa., assignors to Warren Webster & Company, Camden, N. J. Apparatus for withdrawing water of condensation and gases entrained therewith from steam heating systems. 1,621,529; Mar. 22.
- Fitts, John J. (See Knowles, Roscoe, assignor.)
- Fitts, Walter H., assignor to The Foxboro Company, Foxboro, Mass. Thermometer. 1,619,109; Mar. 1.
- Fitz Gerald, Claude H., and G. H. Hutchins, Kenton, England. Cleaning device for tobacco pipes and other articles. 1,644,574; Oct. 4.
- Fitzgerald, Edward T., Newark, N. J. Pipe. 1,625,849; Apr. 26.
- Fitzgerald, Francis A. J., Niagara Falls, N. Y., assignor to Harper Electric Furnace Corporation. Electric furnace. 1,643,808; Sept. 27.
- Fitz Gerald, Francis A. J., Niagara Falls, N. Y., assignor to Harper Electric Furnace Corporation. Electric furnace. 1,646,058; Oct. 18.
- Fitzgerald, Harold D., Danville, Va. Thermostatic trap. 1,621,774; Mar. 22.
- Fitz Gerald, John J., Medford, Mass. Veneer wall. 1,621,877; Mar. 22.
- Fitz Gerald, John M., River Forest, Ill. Trunking-conduit construction. 1,617,625; Feb. 15.
- Fitz Gerald, John M., River Forest, Ill. Housing structure. 1,617,626; Feb. 15.
- Fitzgerald, Joseph N., Jr., Ridley Park, Pa. Socket wrench. 1,638,532; Aug. 9.
- Fitzgerald Mfg. Company, The. (See Fitzgerald, Maurice F., assignor.)
- Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)
- Fitzgerald Manufacturing Company, The. (See Reichold, Louis, assignor.)
- Fitzgerald Mfg. Company, The. (See Smith, Alva T., assignor.)
- Fitz Gerald, Maurice E. W., and F. F. Maynard, Eltham, New Zealand. Means for use in spreading discrete road-forming materials. 1,644,575; Oct. 4.
- Fitzgerald, Maurice E. W., assignor to The Fitzgerald Mfg. Company, Winsted, Conn. Curling iron. 1,633,171; June 21.
- Fitzgerald, Maurice F., Winsted, assignor to The Fitzgerald Mfg. Co., Torrington, Conn. Electric toasting device. 1,639,493; Aug. 16.
- Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Gasket. 1,627,167; May 3.
- Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Armature. 1,644,718; Oct. 11.
- Fitzgerald, Richard. (See McLaughlin, James, assignor.)
- Fitzgerald, Robert L. (See Butler, W. J., and Fitzgerald.)
- Fitz Gibbon & Crisp, Inc. (See Herron, Joseph D., assignor.)
- Fitzgibbon, John E., assignor to Phoenix Hosiery Company, Milwaukee, Wis. Stocking. Des. 73,561; Oct. 4.
- Fitzgibbons, Gerald A., St. Louis, Mo. Medal. Des. 73,402; Sept. 6.
- Fitzgibbons, Harry A. (See Balluff, Edward J., assignor.)
- Fitz Hugh, Mayo M. (See Heard, E. F., and Fitz Hugh.)
- Fitz, John G., Chicago Heights, Ill. Subgrade template. 1,627,731; May 10.
- Fitzpatrick, John, Parkerton, Wyo., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Well pumping apparatus. 1,649,454; Nov. 15.
- Fitzpatrick, John T., St. Louis, Mo., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car-coupler uncoupling mechanism. 1,630,481; May 31.
- Fitzpatrick, Keene, Princeton, N. J., and R. T. Mullins, Brooklyn, said Fitzpatrick assignor to H. R. Hart and said Mullins assignor to A. G. Spalding & Bros., New York, N. Y. Helmet. 1,637,692; Aug. 2.
- Fitzpatrick, Paul G., New York, N. Y., assignor to American Telephone and Telegraph Company. Dead-ending clamp. 1,621,530; Mar. 22.
- Fitzpatrick, Thomas L., Massena, N. Y. Speed-reducing device. 1,644,575; Oct. 4.
- Fitzsimmons, James W., Oakland, Calif. Matrix scorcher. 1,632,646; June 14.
- Fitzsimmons, John T. (See Hunt, J. H., and Fitzsimmons.)
- Fitzsimmons, John T., assignor to General Motors Research Corporation, Dayton, Ohio. Electrical generating system. 1,633,780; June 28.
- Fitzsimmons, John T., and H. Wallace, assignors to General Motors Research Corporation, Dayton, Ohio. Ignition system. 1,641,378; Sept. 6.

- Fitzstad, Tob E., Chicago, Ill. Steaming device. 1,616,036; Feb. 1.
- Fixel, Arthur B., Detroit, Mich. Safety device for aeroplanes. 1,638,840; Aug. 16.
- Flach, Herman, Calumet City, Ill. Automobile bumper. 1,618,419; Feb. 22.
- Flach, Frank E., Mendon, Ill. Powder-distributing attachment for wagons. 1,613,988; Jan. 11.
- Flad, Artur, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,620,090; Mar. 8.
- Flage, Ernest, New York, N. Y. Fireplace construction. 1,622,944; Mar. 29.
- Flagg, Ernest, New York, N. Y. Building construction. 1,622,907; Mar. 29.
- Flage, Ernest, New York, N. Y. Hinge. 1,634,181; June 28.
- Flage, Philipp F., assignor to Klauer Manufacturing Co., Dubuque, Iowa. Building structure. 1,643,934; Henrik, assignor.)
- Flagstad, Cornell, assignor of 95 per cent to Folding Crate and Box Company, Minneapolis, Minn. Collapsible crate. 1,646,284; Oct. 18.
- Flagstad, Cornell and O. A., Minneapolis, Minn. Crate. 1,647,444; Feb. 15.
- Flagstad, Cornell and O. A., assignors of ninety-five per cent to The Folding Crate & Box Company, Minneapolis, Minn. Collapsible crate. 1,618,420; Feb. 22.
- Flagstad, Oscar A. (See Flagstad, Cornell and O. A.)
- Flaherty, Edmund M., Raleigh, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Low viscosity lacquer and film produced therefrom. 1,616,803; Mar. 29.
- Flaherty, Edmund M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Low viscosity lacquer and film produced therefrom. 1,629,990; May 24.
- Flaherty, Louis C. (See Hill, George N., assignor.)
- Flam, Stephen, Walnut Park, assignor to Supertile Machinery Corporation, Los Angeles, Calif. Mold core. 1,618,647; Feb. 22.
- Flam, Stephen, Walnut Park, assignor to Supertile Machinery Corporation, Los Angeles, Calif. Mold for building material. 1,618,648; Feb. 22.
- Flammer, Edward F., New York, and H. E. Silliman, Brooklyn, assignors, by mesne assignments, to Rainbow Photo Reproductions, Inc., New York, N. Y. Photoprinting. 1,634,678; July 5.
- Flammer, Edward F., New York, and H. E. Silliman, Brooklyn, assignors to Rainbow Photo Reproductions, Inc., New York, N. Y. Photoprinting. 1,634,659; July 5.
- Flammer, Howard A., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical regulating device. 1,613,606; Jan. 11.
- Flanagan, James A., T. P., Jr., and J. J., Brooklyn, N. Y. Roofing or siding for buildings. 1,648,940; Nov. 15.
- Flanagan, John J. (See Flanagan, James A., T. P., Jr., and J. J.)
- Flanagan, Thomas, Rochester, N. Y. Game apparatus. 1,617,243; Feb. 8.
- Flanagan, Thomas P., Jr. (See Flanagan, James A., T. P., Jr., and J. J.)
- Flanagan, William A., Ripon, assignor of one-half to J. W. Garrison, Ripon, Calif., and one-half to Westinghouse Electric and Manufacturing Company, Aurora, Ill. Ballast car. 1,627,891; May 10.
- Flanders, Ralph E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Threading tool. 1,635,179; July 12.
- Flanders, Warren B., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Governing mechanism for steam turbines. 1,622,100; Mar. 22.
- Flanders, Warren B., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Automobile stop valve. 1,629,804; May 3.
- Flanders, Warren B., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coupling. 1,630,737; May 31.
- Flanders, Warren B., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Clearance indicator for turbines. 1,639,494; Aug. 16.
- Flanigan, John J., Oak Park, Ill. Spindle. 1,633,084; June 21.
- Flannery Bolt Company. (See Flannery, John R., assignor.)
- Flannery Bolt Company. (See Dodds, Ethan L., Jr., assignor.)
- Flannery, Burt V., Philadelphia, Pa., assignor to Cannon Manufacturing Company, Kannapolis, N. C. Towel or the like. Des. 73,167; Aug. 2.
- Flannery, Burt V., Philadelphia, Pa., assignor to Cannon Manufacturing Company, Kannapolis, N. C. Towel or the like. Des. 73,562; Oct. 4.
- Flannery, John P., Newark, N. J. Sash fastener. 1,652,856; Dec. 13.
- Flannery, John R., assignor Flannery Bolt Company, Pittsburgh, Pa. Lubricating device. 1,614,194; Jan. 11.
- Flannery, Martin A., New York, assignor to Will & Baumer Candle Company Inc., Syracuse, N. Y. Apparatus for blending candle receptacles. 1,619,110; Mar. 1.
- Flash Radio Corporation. (See Wikstrom, Agnar, assignor.)
- Flash-Way Corporation, The. (See Johnson, Albert S., assignor.)
- Flatley, John H., Little York, Ill. Scraper for harrow disks and operating the same. 1,648,381; Nov. 8.
- Flauder, Alfred J., Bridgeport, Conn. Combined salt and pepper shaker. Des. 72,253; Mar. 22.
- Flauder, Alfred J., Bridgeport, Conn. Combined salt and pepper shaker. Des. 72,254; Mar. 22.
- Flauder, Alfred J., Bridgeport, Conn. Combined salt and pepper shaker. Des. 72,255; Mar. 22.
- Flauder, Alfred J., Bridgeport, Conn. Combined salt and pepper shaker. Des. 72,311; Mar. 29.
- Flauder, Alfred J., Bridgeport, Conn. Combined salt and pepper shaker. Des. 72,312; Mar. 29.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined salt and pepper shaker. Des. 72,516; Apr. 26.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined salt and pepper shaker. Des. 72,516; Apr. 26.
- Fleck, Christian H., assignor to Jackson Corset Company, Jackson, Mich. Corset brassiere. 1,644,117; Oct. 4.
- Fleck, John G. (See Decker, Harold E., assignor.)
- Fleischer, Paul W., Weehawken Heights, N. J., assignor to American Can Company, New York, N. Y. Suction toppler. 1,641,480; Sept. 6.
- Fleischer, Paul W., Weehawken Heights, N. J., assignor to American Can Company, New York, N. Y. Feeding and spacing mechanism for filled-can-closing machines. 1,649,960; Oct. 25.
- Fleischman, Abraham, Brooklyn, N. Y. Collapsible garment trunk. 1,615,265; Jan. 25.
- Fleischmann Company. (See Brown, Elmer B., assignor.)
- Fleischmann Company, The. (See Hildebrandt, F. M., and Frey, assignors.)
- Fleischmann Company, The. (See Hixson, A. W., and Balls, assignors.)
- Fleischmann Company, The. (See Kohnman, Henry A., assignor.)
- Fleissner, Hans, Leoben, Austria. Drying coal and the like. 1,632,829; June 21.
- Fleiter, Andrew J., and T. A. Miller, assignors to The Akron Standard Mold Company, Akron, Ohio. Mold-extraving machine. 1,629,310; May 24.
- Flekstein, Anton, Detroit, Mich. Mail-box cover-actuated switch. 1,630,081; May 24.
- Fleming, Charles T., assignor of one-half to W. J. Hay, Taft, Calif. Jar for fishing and drilling tools. 1,630,093; Dec. 20.
- Fleming, Charles T., assignor of one-half to W. J. Hay, Taft, Calif. Jar for fishing and drilling tools. 1,655,094; Dec. 20.
- Fleming, Edward E., Hagerstown, Md. Envelope opener. 1,624,560; Apr. 12.
- Fleming, George W. (See Blanch, S. M., and Fleming.)
- Fleming, George W. (See Van Norman, F. D., and Fleming.)
- Fleming, Ivan R., Ainsdale, England. Boat propelled by manually-operated mechanism. 1,648,985; Nov. 15.
- Fleming, James R., Mountbelle, Manitoba, Canada. Road machine. 1,653,550; Dec. 20.
- Fleming, James R., Scranton, Pa. Truck for mine cars. 1,643,298; Sept. 27.
- Fleming, John J., Vineland, N. J. Grate bar. 1,622,634; Mar. 29.
- Fleming, John J., Vineland, N. J. Method and apparatus for making fish-weight molds. 1,629,492; May 24.
- Fleming, Lawrence A., Fairmont, W. Va. Portable refreshment booth. Des. 73,563; Oct. 4.
- Fleming Machine Company. (See Blanch, Sven M., assignor.)
- Fleming Machine Company. (See Blanch, S. M., and Fleming, assignors.)
- Fleming, Marion C. D., Farmersville, Tex. Collapsible chicken coop. 1,650,620; Nov. 29.
- Fleming, Michael J., Ely, Minn. Belt shifter for stepped pulleys. 1,630,931; May 31.
- Fleming, Raphael S., assignor to Merrell-Soule Company, Syracuse, N. Y. Moistureproof article. 1,616,849; Feb. 8.
- Fleming, Rives, Richmond, Va. Cane. 1,624,591; Apr. 12.
- Fleming, Robert G., Bloomfield, N. J., assignor to Smokador Manufacturing Co., Inc., New York, N. Y. Smoker's stand. 1,645,525; Oct. 18.
- Fleming, Robert G., Bloomfield, N. J., assignor to Smokador Manufacturing Co., Inc., New York, N. Y. Ash stand. 1,646,086; Oct. 18.

- Fleming, Walter H., Luck, Wis. Valve-stem rim nut. 1,652,169; Dec. 13.
- Fleming, Wilfred K., and A. M. Baehr, Lakewood, assignors, by mesne assignments, to The Storad Manufacturing Company, Cleveland, Ohio. Storage-cell cover. 1,616,615; Feb. 8.
- Fleming, Willis M., Holyoke, Mass., assignor to Worthington Pump & Machinery Corporation, New York, N. Y. Valve. 1,642,724; Sept. 20.
- Flemming, Thomas, Ottawa, Ontario, Canada. Door-operating means. 1,639,130; Aug. 16.
- Flemer, Orill, Fort Smith, Ark. Current-theft indicator. 1,631,025; May 31.
- Fleshner, Lawrence P., assignor of one-half to W. L. Hotsenpiller, Kansas City, Mo. Nursing-bottle holder. 1,629,156; May 17.
- Fletcher, Andrew, Jr., Morristown, and J. A. Capstaff, Grantwood, N. J. Steamship-driving mechanism. 1,632,543; June 14.
- Fletcher, Archie R. (See Smyser, Elmer D., assignor.)
- Fletcher, Arthur T., Bristol, assignor to The Fletcher-Terry Company, Forestville, Conn. Glass cutter. 1,634,323; July 5.
- Fletcher, Earl W., Cuero, Tex. Insulating means for storage-battery plates and separators. 1,641,842; Sept. 6.
- Fletcher, Estella M., Portland, Oreg. Lingerie clasp. 1,628,962; May 17.
- Fletcher, George. (See Beach, J. M., and Fletcher.)
- Fletcher, George H., Sheffield, and H. Rusby, Stocksbridge, England, assignors to Westinghouse Electric & Manufacturing Company, Coupling. 1,633,935; June 28.
- Fletcher, Gilbert S., Watertown, Mass. Container for fragile articles. 1,650,337; Nov. 22.
- Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Soft-formation well drill. 1,638,253; Aug. 9.
- Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Pipe wrench. 1,641,260; Sept. 6.
- Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Combined washer and shield for drills. 1,641,261; Sept. 6.
- Fletcher, Harvey, assignor to Western Electric Company, Incorporated, New York, N. Y. Compensating network for carrier transmission circuits. 1,613,607; Jan. 11.
- Fletcher, Harvey, New York, N. Y., and L. J. Sivilan, Bloomfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Binaural telephone system. 1,624,486; Apr. 12.
- Fletcher, Henry V. (See Havir, A. H., and Fletcher.)
- Fletcher, Joseph B., Prescott, and O. S. Culver, Blue Bell Siding, Ariz. Waterproof cap and fuse. 1,645,379; Oct. 11.
- Fletcher, Joseph C., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Die-cutting machine. 1,613,577; Jan. 4.
- Fletcher, Otho H., and J. A. Tenney, Queens, W. Va. Saw-sharpening machine. 1,624,864; Apr. 12.
- Fletcher, Robert J., Irvington, N. J., assignor to The Amalgamated Dyestuff and Chemical Works, Inc., New York, N. Y. Diazo dye of diphenyl urea and chromotropic acid. 1,617,244; Feb. 8.
- Fletcher, Squire F., and H. J. Smith, Lowell, Ind. Dirigible headlight construction for automobiles. 1,632,224; June 14.
- Fletcher-Terry Company, The. (See Fletcher, Arthur T., assignor.)
- Fletcher, Wilford, Billerica, Mass. Pump governor. 1,629,073; May 17.
- Fletcher Works, Incorporated. (See Bartholomew, Robert J., assignor.)
- Flett, Lawrence H., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Production of polyazo coloring matters. 1,616,850; Feb. 8.
- Flett, William, Wakefield, assignor to Lawrence Duck Company, Lawrence, Mass. Bobbin magazine. 1,621,836; Mar. 22.
- Fleuker, Harold M., Salem, Wis. Gas moistener. 1,641,028; Aug. 30.
- Flewitt, Edwin J., assignor to Hoyle Hoyle & Co. Limited, Rawtenstall, England. Elastic closure for ladies' boots. 1,617,706; Feb. 15.
- Flexible Slate Products Co. (See Heppes, Otto A., assignor.)
- Flexo-Industrie-Gesellschaft m. b. H. (See Sauveur, Harry, assignor.)
- Flick, Henry, assignor to Hayes Wheel Company, Jackson, Mich. Manufacturing semiwheels. 1,622,504; Mar. 29.
- Flick, Henry, assignor to Hayes Wheel Company, Jackson, Mich. Spoke-turning lathe. 1,629,691; May 24.
- Flick, Henry, assignor to Hayes Wheel Company, Jackson, Mich. Wheel-making machine. 1,629,692; May 24.
- Flickinger, William F., Endicott, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,640,697; Aug. 30.
- Fliedbaum, Solomon. (See Sachs, M., and Fliedbaum.)
- Fliedner, Carlyle S., Newark, N. J., assignor, by mesne assignments, to The Prest-O-Lite Company, Inc., Indianapolis, Ind. Internal-combustion engine. 1,644,719; Oct. 11.
- Fliedner, John, Flushing, assignor to American Manufacturing Company, New York, N. Y. Waste collector for carding machines. 1,642,235; Sept. 13.
- Flichmann, William H., St. Charles, Mo. Cleaning device. 1,628,685; May 10.
- Flier, Leo, Brooklyn, assignor to Universal Jewelry Case Co., New York, N. Y. Display holder. 1,653,500; Dec. 20.
- Flinchbaugh, Frederick T., York, Pa., assignor, by mesne assignments, to Flinchbaugh Machine Company, Incorporated, Cutter head. 1,644,494; July 5.
- Flinchbaugh Machine Company. (See Flinchbaugh, Frederick T., assignor.)
- Flint, Clarence, Birmingham, England. Identification device for attaché cases, hand bags, pouches, or other articles. 1,618,075; Feb. 15.
- Flint, Ralph N., Detroit, and L. Blackmore, Highland Park, Mich., assignors to General Motors Corporation, Detroit, Mich. Transmission lock. 1,613,698; Jan. 11.
- Flint & Walling Mfg. Co. (See Macomber, Herbert H., assignor.)
- Flint & Walling Mfg. Co. (See Macomber, Herbert H., assignor.)
- Flinterman, Rudolph F., Detroit, Mich., assignor, by mesne assignments, to General Electric Company. Oxidation-resisting material. 1,641,752; Sept. 6.
- Flintermann, Gerhard, West Orange, N. J. Bearing. 1,640,352; Aug. 30.
- Flintham, William C., and E. H. Bridenbaugh, Denver, Colo.; said Bridenbaugh assignor to said Flintham. Washing and sterilizing device. 1,640,401; Aug. 30.
- Flintkote Company, The. (See Clapp, Albert L., assignor.)
- Flintkote Company, The. (See Cumfer, Harry A., assignor.)
- Flintkote Company, The. (See Griffes, Arthur R., assignor.)
- Flintkote Company, The. (See Heppes, George P., assignor.)
- Flintkote Company, The. (See Kirschbraun, L., and Rahr, assignors.)
- Flintkote Company, The. (See Overbury, Frederick C., assignor.)
- Flinthrop, Benjamin W., Hales Corners, Wis. Barn-automat, cooper. 1,640,825; Aug. 30.
- Flockhart, James, San Francisco, Calif. Machine for washing, cleaning, waxing, and polishing sheet material. 1,619,925; Mar. 8.
- Flood, Oscar H., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Making ophthalmic mountings. 1,628,586; May 10.
- Floeter, Frederick S., Saginaw, Mich., assignor to Wickes Brothers. Girt-pin connection for gang saws. 1,617,584; Feb. 15.
- Flood, Carl A., and J. H. Gibbs, assignors to Dennison Manufacturing Company, Framingham, Mass. Paper article, method, and apparatus. 1,638,298; Aug. 9.
- Flood, Carl A., and J. H. Gibbs, assignors to Dennison Manufacturing Company, Framingham, Mass. Crepe-paper articles. 1,638,299; Aug. 9.
- Flook, George. (See Fink, H. A., and Flook.)
- Floraal Corporation, The, et al. (See Gillis, Lyle N., assignor.)
- Florance, Allen E., Dallas, Tex. Garbage receptacle. 1,643,407; Sept. 27.
- Florang, Emil A., Burlington, Iowa. Refrigerator basket. 1,642,414; Sept. 13.
- Florang, Emil A., Burlington, Iowa. Refrigerator basket. 1,642,415; Sept. 13.
- Florence, John, Indianapolis, Ind. Pipe-testing plug. 1,644,118; Oct. 4.
- Florence, L. A. (See August, Ralph M. C. R., assignor.)
- Florence Stove Company. (See Price, David R., assignor.)
- Florence Stove Company. (See Rutimann, A., and White, assignors.)
- Floreys, Edward C., assignor of one-half to C. E. Sturges, San Jose, Calif. Air intake for internal-combustion engines. 1,623,721; Apr. 5.
- Floreys, Tighman J., Washington, N. J. Concrete building unit. 1,630,698; May 31.
- Florin, Frank P. (See Long, Henry J., assignor.)
- Florin, Jules L., assignor of one-fourth to W. Hurdleberg, Jr., and three-fourths to H. R. Fuerborn, St. Louis, Mo. Piston-ring compressor. 1,639,690; Aug. 23.
- Florsheim Shoe Company, The. (See Allerton, Oscar J., assignor.)
- Flora, Arthur M., Lone Star, Kans. Pulley. 1,618,074; Feb. 15.
- Floto, Julius, assignor to J. W. Telling, Chicago, Ill. Bumper. 1,621,501; Mar. 22.
- Flournoy, Josiah. (See Treadwell, A. P., and Flournoy.)
- Flournoy, W. G., et al. (See Bellman, John A., assignor.)
- Flowers, Henry F., Findlay, Ohio. Dumping device. 1,624,323; Apr. 12.
- Flowers, Henry F., Findlay, Ohio. Dump car. 1,628,963; Mar. 17.
- Flowers, John B., Brooklawn, N. J. Rubber ball. 1,628,717; May 17.
- Flowers Mausoleum Company, The. (See Zengerle, Joseph W., assignor.)
- Flowers, Stanley A., assignor to Pittsburgh Tinware Manufacturing Company, Pittsburgh, Pa. Fern stand or article of similar nature. Des. 72,313; Mar. 29.

- Flowers, Stanley A., assignor to Pittsburgh Tinware Manufacturing Company, Pittsburgh, Pa. Construction for metal stools, stands, and the like. 1,621,245; Mar. 15.
- Flowers, Stephen, Port Arthur, Tex. Exhibitor. 1,652,683; Dec. 13.
- Floyd, Charles L., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tension measuring device. 1,647,287; Nov. 1.
- Floyd, Earl T., near Temple, assignor to The Nolde and Horst Company, Reading, Pa. Stripping attachment for circular-knitting machines. 1,646,905; Oct. 25.
- Floyd, George G., Riverside, Ill. Container. 1,646,531; Oct. 25.
- Floyd, Roy C., assignor to Unique Spark Plug Cleaner Co., Chicago, Ill. Spark-plug attachment. 1,624,937; Apr. 19.
- Floharty, William G., Rockville Center, assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph transmitter. 1,640,541; Aug. 30.
- Flum, Robert A. (See Jandus, H. S., and Flum.)
- Flum, Robert A., Kalamazoo, assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,613,699; Jan. 11.
- Fluor Construction Co. (See Fluor, John S., assignor.)
- Fluor, John S., Santa Ana, Calif. Atmospheric cooling device. 1,624,224; Apr. 12.
- Fluor, John S., assignor to Fluor Construction Co., Los Angeles, Calif. Cooling tower. 1,632,397; June 14.
- Flürschheim, Bernhard J., Fleet, England. Brisant explosive. 1,624,401; Apr. 12.
- Flynn, George W., Blundellsands, near Liverpool, England. Desiccative heating system. 1,638,330; Aug. 9.
- Flynn, Walter P., Ulysses, Nebr. Grain-car-door fastener. 1,653,453; Dec. 20.
- Foamite-Childs Corporation. (See Erwin, Orlando R., assignor.)
- Foamite-Childs Corporation. (See Erwin, O. R., and Whiter, assignors.)
- Foamite-Childs Corporation. (See Gilbert, V. G. W., and Steinicke, assignors.)
- Foamite-Childs Corporation. (See White, Clifford B., assignor.)
- Foams, Andrew B., New York, N. Y. Football-playing device. 1,632,430; June 14.
- Focht, Nevill S., Pottstown, Pa. Shock absorber. 1,617,752; Feb. 15.
- Fodge, Buell, Detroit, Tex. Workholder. 1,625,251; Apr. 19.
- Foerst, Emanuel, St. Paul, Minn. Saw tooth. 1,633,265; Dec. 20.
- Foerster, Herman, assignor of one-half to D. M. Allred, Indianapolis, Ind. Detonating toy. 1,632,179; June 14.
- Foersterling, Hans, Jamesburg, N. J. Making air gas. 1,624,046; Apr. 12.
- Foersterling, Hans, Jamesburg, N. J. Producing air gas from indammable liquids. 1,628,135; May 10.
- Foersterling, Hans, Jamesburg, N. J. Making air gas. 1,635,988; July 19.
- Foerster, George. (See Jaquith, W. E., Evans, and Foerster.)
- Fogarty, John G., West Webster, assignor of one-fourth to Sweeney and Boland, Rochester, N. Y. Apparatus for driving railroad spikes. 1,620,812; Mar. 15.
- Fogel, Louis E., Brooklyn, N. Y. Closure cap for gas tanks and radiators. 1,634,775; July 5.
- Fohey, Maurice B., Los Angeles, Calif. Combined advertising bench, waste-paper receptacle, and automat stand. 1,639,085; Aug. 16.
- Fohlen, Jacques L., Paris, France. Fire extinguisher. 1,650,985; Nov. 29.
- Foisy, George A., Lowell, Mass., assignor, by mesne assignments, to Winchester Repeating Arms Company, New Haven, Conn. Heat-interchange apparatus. 1,624,487; Apr. 12.
- Foisy, George A., Lowell, Mass., assignor, by mesne assignments, to Winchester Repeating Arms Company, New Haven, Conn. Machine for making tubes and similar articles. 1,641,222; Sept. 6.
- Folb, David, Akron, Ohio. Dental flask. 1,639,404; Apr. 18.
- Folberth, Fred G., Cleveland, Ohio, assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner motor. 1,635,401; July 12.
- Folberth, Frederick G. and W. M., Cleveland, Ohio. Indicator for low liquid levels. 1,642,848; Sept. 20.
- Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,616,037; Feb. 1.
- Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,617,517; Feb. 15.
- Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,631,629; June 7.
- Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,645,592; Oct. 18.
- Folberth, William M. (See Folberth, Frederick G. and W. M.)
- Folding Crate & Box Company, The. (See Flagstad, Cornell and O. A., assignors.)
- Folding Crate and Box Company. (See Flagstad, Cornell, assignor.)
- Foley, Charles B., Dayton, Ohio, assignor to Charles B. Foley, Inc. Electrothermic crucible. 1,638,660; Aug. 9.
- Foley, Charles B., Pottstown, Pa., assignor to Charles B. Foley, Inc., New York, N. Y. Electric furnace. 1,640,826; Aug. 30.
- Foley, Charles B., Inc. (See Foley, Charles B., assignor.)
- Foley, William, Central Point, Oreg. Tractor hitch. 1,654,417; Dec. 27.
- Foley, William, assignor to International Shoe Company, St. Louis, Mo. Stapling machine. 1,639,117; Aug. 9.
- Foley, William T., Cincinnati, Ohio. Storage-battery separator. 1,641,379; Sept. 6.
- Folger, Frederick S., Flushing, and H. W. Altman, College Point, N. Y. Spring winding machine. 1,635,747; July 12.
- Folger, Henry C., Waverly, assignor, by mesne assignments, to Bemis Industries Inc., Boston, Mass. Refrigeration. 1,651,198; Nov. 29.
- Folino, Arminio, Rochester, N. Y. Bridge construction. 1,624,325; Apr. 12.
- Follett, James M., and L. Lehner, Bay City, Mich. Clean-out router bit. 1,632,440; June 14.
- Folmer-Clogg & Company. (See Dellinger, John M., assignor.)
- Folmer, William F., Rochester, N. Y. Grocery box. 1,617,900; Feb. 15.
- Folmer, William F., Rochester, N. Y. Wind-propelled device. 1,650,702; Nov. 29.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Cut-film holder. 1,631,479; June 7.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Cut-film holder. 1,641,420; Sept. 6.
- Folmsbee, Clyde H., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank manhole arrangement. 1,649,397; Nov. 15.
- Foltite Chair Corporation. (See Bauer, William J., assignor.)
- Foltz, Andrew, Lambertville, N. J. Housing for pipe connections. 1,629,693; May 24.
- Foltz, Harry E., Granville, Pa. Combined automobile top and support. Des. 72,009; Feb. 15.
- Foltz, Ira W., Chicago, Ill. Furnace. 1,642,019; Sept. 13.
- Foltz, Raymond D. (See Hosbini, L. H., and Foltz.)
- Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company, Incandescent filament. 1,623,784; Apr. 5.
- Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company, Incandescent lamp. 1,632,647; June 14.
- Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company, Incandescent lamp. 1,648,679; Nov. 8.
- Fondevilla, Antonio, Chicago, Ill. Drive gearing. 1,632,468; June 14.
- Fondiller, William, assignor to Western Electric Company, Incorporated, New York, N. Y. Loading system. 1,654,074; Dec. 27.
- Fondren, Arthur L., Houston, Tex. Pipe perforator. 1,615,690; Jan. 25.
- Foner, Newton F., Pittsburg, Pa. Engine. 1,626,457; Apr. 26.
- Fonrobert, Ewald. (See Amann, A., and Fonrobert.)
- Fons, Stanley. (See Farnstrom, Albion, assignor.)
- Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Electric control device. 1,622,635; Mar. 29.
- Fonseca, Edward L., assignor, by mesne assignments, to The Wilcolator Company, Newark, N. J. Thermostatic oven control. 1,625,080; Apr. 19.
- Fonseca, Edward L., assignor, by mesne assignments, to The Wilcolator Company, Newark, N. J. Thermostatic control for electric ovens and the like. 1,627,732; May 10.
- Fontaine, Philiza H., assignor of one-half to L. F. Boedighermer, Petersburg, N. Dak. Oil can. 1,621,362; Mar. 15.
- Fontaine, Robert A., Martinsville, Va. Power hoist. 1,637,339; Aug. 2.
- Fontaine, Robert A., Martinsville, Va., assignor to R. C. Anderson, Montreal, N. C. Transmission mechanism. 1,626,229; Apr. 26.
- Fontaine, Robert A., and T. H. Self, assignors of one-half to said Self and one-half to H. A. Richardson, Martinsville, Va. Potato-chip cooker. 1,641,262; Sept. 6.
- Fontana, Paul F. M. A., assignor to Societe des Appareils Mephisto Jules Manfredi & Cie., Cluses, France. Vulcanizer. 1,620,597; Mar. 8.
- Fontana, Paul F. M. A., Cluses, assignor to Societe des Appareils Mephisto Jules Manfredi & Cie., Cluses, (Maurice-Saviole), France. Vulcanizer. 1,637,931; Aug. 2.
- Foody, James T. (See Davis, Elias V. O., assignor.)
- Foot, Edward H. W., Spalding, England. Driven implement. 1,614,856; Jan. 11.
- Footsturt Company, The. (See Kelleher, Daniel, assignor.)
- Foot Company, The. (See De Vinney, Floyd W., assignor.)
- Foot, Edward B., assignor to Taylor Instrument Companies, Rochester, N. Y. Process-control apparatus. 1,630,294; May 31.

- Foot, Edward B., and F. W. Stalker, assignors to Taylor Instrument Companies, Rochester, N. Y. Hygrometric apparatus. 1,632,729; June 14.
- Foot, Florian, Oakwood, Wis. Coffer pin and staple puller. 1,629,953; May 24.
- Foot, Leonard, Pedro Miguel, Canal Zone. Connector for telephone receivers and the like. 1,645,269; Sept. 20.
- Foot, Lewis A., New York, N. Y. System of accrual accounting. 1,618,124; Feb. 15.
- Footthorp, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Type bar. 1,618,075; Feb. 15.
- Footthorp, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. New York, N. Y. Toll-slip platen. 1,625,802; Apr. 26.
- Footthorp, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Line-spacing mechanism. 1,638,191; Aug. 9.
- Footthorp, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Portable hand-operated flat platen. 1,638,192; Aug. 9.
- Forbes, Allan W., Worcester, Mass. Induction motor for grinding machines and the like. 1,614,292; Jan. 11.
- Forbes, Edwin G., New York, N. Y. Combined ash tray and pipe holder. Des. 72,062; Feb. 22.
- Forbes, Gordon B., Garland, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Apparatus for removing dust from precipitator electrodes. 1,630,482; May 31.
- Forbes, John S., assignor, by mesne assignments, to Aerostet Manufacturing Company, Pittsburgh, Pa. Valve. 1,631,586; June 7.
- Forbes Lithograph Manufacturing Company. (See Booth, William G., assignor.)
- Forbes Lithograph Manufacturing Company. (See Meyers, Walter F., assignor.)
- Forbes, Oswald, J., and W. M. C. Baber, London, England. Wire stringing for tennis rackets or the like and producing the same. 1,615,790; Jan. 25.
- Forbis, Hazel T., Missoula, Mont. Swab. 1,652,108; Dec. 6.
- Forceda, Pedro V., Barcelona, Spain. Radiator. 1,639,172; Jan. 16.
- Force, C. Emil, et al. (See Farmer, C. D., and Libby, assignors.)
- Force, John L., University City, Mo. Lubricating mechanism. 1,646,018; Oct. 18.
- Force, John W., Cleburne, Tex. Tank-cleaning device. 1,616,218; Feb. 1.
- Forchheimer, Julius, Newark, N. J. Toy set. 1,632,441; June 14.
- Forchheimer, Milton, Newark, N. J. Toy vehicle. 1,622,636; Mar. 29.
- Ford, Ben K., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for and method of applying tips to cores. 1,629,694; May 24.
- Ford, Ben K., Oak Park, assignor to Union Bed and Spring Company, Chicago, Ill. Bed-spring construction. 1,638,596; July 5.
- Ford, Clara P. (See Ford, Silas M., assignor.)
- Ford, Clara P., executrix. (See Ford, Silas M.)
- Ford, David L., Palco, Kans. Windmill. 1,617,885; Feb. 15.
- Ford, David O., Lynchburg, Va. Paper salt shaker. Des. 72,552; May 3.
- Ford, Edward, Plate Glass Company, The. (See Platt, Archie W., assignor.)
- Ford, Edward, Plate Glass Company, The. (See Schutz, Harold R., assignor.)
- Ford, Elmer A., et al. (See Mason, Frank B., assignor.)
- Ford, Ernest B., Union, assignor to Foster Engineering Company, Newark, N. J. Sight flow box. 1,630,335; May 31.
- Ford, Eugene A., West Newton, Mass., assignor to The Tabulating Machine Company, Endicott, N. Y. Perforation-reading device for sorting machines and the like. 1,633,936; June 28.
- Ford, Eugene A., Scarsdale, assignor to The Tabulating Machine Company, Endicott, N. Y. Card-feeding apparatus. 1,633,937; June 28.
- Ford, Frank H., Hattiesburg, Miss. Insulation composition. 1,620,091; Mar. 8.
- Ford, Fred A., New York, assignor to J. W. Gillis Co., Rochester, N. Y. Telephone stand. 1,631,195; June 7.
- Ford, George L., Java, Va. Dibble. 1,624,488; Apr. 12.
- Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., New York, N. Y. Electrical transmitter. 1,627,168; May 3.
- Ford, Hannibal C., Jamaica, N. Y., assignor to Ford Instrument Company, Inc. Gyroscopic compass. 1,628,186; May 10.
- Ford, Henry, Dearborn, Mich. Making axle housings. 1,621,007; Mar. 15.
- Ford, Henry, Dearborn, Mich. Crank-shaft formation. 1,624,228; Apr. 12.
- Ford, Henry, Dearborn, Mich. Manifold construction for internal-combustion engine. 1,624,229; Apr. 12.
- Ford, Henry, Dearborn, Mich. Automobile body construction. 1,629,493; May 24.
- Ford, Henry, Dearborn, Mich. Pump. 1,631,316; June 7.
- Ford, Henry, Dearborn, Mich. Steering-gear reduction. 1,633,890; June 28.
- Ford, Henry, Dearborn, Mich. Sound-proofing gear mechanisms. 1,638,118; Aug. 9.
- Ford, Henry, Dearborn, Mich. Explosive engine. 1,639,333; Aug. 16.
- Ford, Henry, Dearborn, Mich. Crank and pitman mechanism. 1,639,334; Aug. 16.
- Ford, Henry, Dearborn, Mich. Valve mechanism for internal-combustion engines. 1,640,118; Aug. 23.
- Ford Instrument Company. (See Ford, Hannibal C., assignor.)
- Ford Instrument Company. (See Tanner, Harry L., assignor.)
- Ford, James G. (See Little, G. M., and Ford.)
- Ford, Joseph, Pocatello, Idaho. Boat-operating mechanism. 1,641,380; Feb. 22.
- Ford, Karl L., East Orange, N. J., assignor to Glass Container Association of America, New York, N. Y. Retort. 1,638,768; July 26.
- Ford Motor Company. (See Allison, Fred, assignor.)
- Ford Motor Company. (See Avery, C. W., and Moody, assignors.)
- Ford Motor Company. (See Galamb, Joseph, assignor.)
- Ford Motor Company. (See Gardner, Henry, assignor.)
- Ford Motor Company. (See Smith, C. J., and Hicks, assignors.)
- Ford Motor Company. (See Smith, William H., assignor.)
- Ford Motor Company of Delaware. (See Avery, Clarence W., assignor.)
- Ford, Ralph L., et al. (See Kurten, Peter J., assignor.)
- Ford, Robert H., C. P. Richardson, and A. L. Greenbaum, Chicago, Ill., and H. M. Priest, East Orange, N. J., assignors to Charles C. P. Richardson, trustee, Chicago, Ill. Reinforced-concrete cribbing. Re.6,689; July 26.
- Ford, Seth B., Jr., Rockdale, Tex., assignor to A. Dorsey, New York, N. Y. Radiodial. 1,618,921; Feb. 22.
- Ford, Silas M., deceased, St. Paul, Minn.; C. P. Ford, executrix, assignor to C. P. Ford. Lath board and machine. 1,641,651; Feb. 8.
- Ford, Silas M., deceased, St. Paul, Minn.; final decree of court assigns to C. P. Ford, widow of said Ford. Lath board. 1,616,652; Feb. 8.
- Ford, Silas W. (See Burton, T. P., and Ford.)
- Ford, Stuart M., Bridgeport, Conn. Bunch-building attachment for wire drawing machines. 1,614,834; Jan. 18.
- Forde, Gerald, New York, N. Y. Advertising device. 1,625,305; Apr. 19.
- Fording, William G., Cleveland, Ohio. Cord-tire machine. 1,620,092; Mar. 8.
- Fordy, Rufus G., Chicago, Ill. Machine for deposition of coating. 1,642,607; Sept. 13.
- Fordyce, Rufus G., Chicago, Ill. Machine for deposition of coating. 1,644,993; Oct. 11.
- Forehand, Thomas H. (See Jones, M., and Forehand.)
- Forehand, Thomas H., Nashville, Tenn. Adjustable bearing shim. 1,618,648; Feb. 22.
- Foreman, Amos I., assignor to Milk Bottle Crate Company, Chicago, Ill. Box or crate. 1,621,363; Mar. 15.
- Forero, Isaac G., Bogota, Colombia. Fire-fighting system. 1,635,180; July 12.
- Foreman, Robert A., Moore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Air box for stokers. 1,617,479; Feb. 15.
- Foreman, Robert A., Moore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Refuse-discharge mechanism. 1,624,661; Apr. 12.
- Foreman, Robert A., and O. Oram, Essington, Pa., assignors to Westinghouse Electric and Manufacturing Company. Retort unit for stokers. 1,630,738; May 31.
- Forest Oil Corporation. (See Hammond, Mark C., assignor.)
- Forfar, Donald, Minneapolis, Minn. Backwater valve. 1,623,586; Apr. 5.
- Forgan-Potts, John, Brussels, Belgium. Heat-exchanging apparatus. 1,637,276; July 26.
- Forged Steel Wheel Company. (See Naugle, H. M., and Townsend, assignors.)
- Forges & Ateliers de Constructions Electriques de Jeumont, Societe Anonyme. (See Charpentier, Paul, assignor.)
- Forgey, Joe A., and J. B. Cusick, Gadsden, Ala. Heading machine. 1,613,449; Jan. 4.
- Forgrove Machinery Company Limited, The. (See Grover, Frank, assignor.)
- Forgy, Glen, Frankford, Kans. Plow bottom. 1,642,301; Sept. 13.
- Forker, Harry M., Washington, D. C. Column spacer. 1,627,026; May 3.
- Forkey, Willard G., Chicago, Ill. Building construction. 1,616,444; Feb. 8.
- Forkey, Willard G., Chicago, Ill. Building construction. 1,646,450; Oct. 25.
- Forkin, John, Manchester, England. Machine for cleaning, opening, and combing cotton, cotton waste, and like materials. 1,645,745; Oct. 18.
- Forman, Charles, Taft, Calif. Patch for pneumatic tires. 1,653,162; Dec. 20.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Electrically-controlled door-operating apparatus. 1,623,173; Apr. 5.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Door-operating system for one-man cars. 1,623,174; Apr. 5.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Quick application and release valve. 1,636,769; July 26.
- Forman, Solomon, New York, N. Y. Dish mounting. Des. 72,010; Feb. 15.

- Forman, Solomon, New York, N. Y. Teapot or coffeepot. 1,619,065; Mar. 1.
- Formica Insulation Company, The. (See Hargrave, Clarence M., assignor.)
- Formway, Roy F. (See Formway, Verla L. and R. F.)
- Formway, Verla L. and R. F., Roby, Tex. Pump. 1,621,978; Mar. 22.
- Fornaca, Guido, Turin, Italy. Self-centering chuck. 1,613,090; Jan. 4.
- Fornaca, Guido, Turin, Italy. Device for preventing abnormal flexure of the springs of motor vehicles. 1,620,933; Mar. 8.
- Fornace, Guido, Turin, Italy. Speed reducer for internal-combustion engines. 1,625,696; Apr. 19.
- Fornace, Guido, Turin, Italy. Forced-feed internal-combustion engine. 1,625,597; Apr. 19.
- Fornaca, Guido, Turin, Italy. Valve mechanism for internal-combustion engines. 1,631,410; June 7.
- Fornace, Guido, Turin, Italy. Brake of the expanding-shoe type. 1,633,984; June 28.
- Fornaca, Guido, Turin, Italy. Pneumatic buffer for reciprocating machine members. 1,643,408; Sept. 27.
- Fornaca, Guido, Turin, Italy. Hydraulic brake for motor vehicles. 1,650,338; Nov. 22.
- Forst, Georg, Berlin, Germany. Steam plant. 1,617,047; Feb. 8.
- Forney, Cal A., Goshen, assignor to First National Bank of Peru, Ind., trustee. Ironing table. 1,653,355; Dec. 20.
- Forrest, Andrew, assignor to Interstate Iron and Steel Company, Chicago, Ill. Ingot-casting apparatus. 1,612,862; Jan. 4.
- Forrest, Andrew, and G. M. Smith, Chicago, Ill. Metal-casting apparatus. 1,632,469; June 14.
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Asphaltic pavement composition. 1,634,241; June 28.
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Joint for stucco bases. 1,637,994; Aug. 2.
- Forrest, Thomas W. W., Oakland, Calif., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Pasteurizer. 1,625,529; Apr. 19.
- Forrest, Thomas W. W., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Apparatus for processing berries, especially Thompson seedless raisins. 1,626,805; May 3.
- Forrest, Thomas W. W., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Apparatus for drying berries. 1,632,180; June 14.
- Forrest, Thomas W. W., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Drying berries especially Thompson seedless raisins. 1,645,695; Oct. 18.
- Forrester, David L., Globe, Ariz. Flotation method and apparatus. 1,646,019; Oct. 18.
- Forrester, John D., Kansas City, Mo., assignor to P. J. McInerney, Dallas, Tex. Making asphaltic road material. 1,620,813; Mar. 16.
- Forrester, McInerney, assignor to J. S. Timmons, Inc., Philadelphia, Pa. Electron-tube construction. 1,613,791; Jan. 11.
- Forrester, Michael J., Astoria, N. Y., assignor to Fifth Avenue Coach Company. Vehicle top. 1,630,739; May 31.
- Forrow, Elwin W., Anaheim, Calif. Flexible swab. 1,626,926; May 3.
- Forry, Archie D., Clarksville, Iowa. Implement for cutting and opening pasteboard boxes. 1,626,806; May 3.
- Forsberg, Charles, St. Louis, Mo. Oil indicator for gas motors. 1,636,049; July 19.
- Forsberg, Erik A., Stockholm, Sweden, assignor to The Diesel Separator Company, New York, N. Y. Edge filter. 1,640,698; Aug. 30.
- Forsberg, Oskar E. (See Larson, P. W. and Forsberg.)
- Forsberg, Peter W., Schenectady, N. Y., assignor to General Electric Company. Regenerative braking control. 1,617,151; Feb. 8.
- Forsdahl, P. A., Sulphur Springs, Alberta, Canada. Wrench. 1,635,930; July 12.
- Forsell, Martin J., Seattle, Wash. Insecticide. 1,618,702; Feb. 22.
- Forshaw, Richard, Waste, near Manchester, England. Knife-sharpening machine. 1,633,085; June 21.
- Forshay, Jesse B., assignor of one-half to E. E. Weldy, Denver, Colo. Manifold heater. 1,629,657; May 24.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Percolator. Des. 71,787; Jan. 4.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Percolator. Des. 71,788; Jan. 4.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electrical heating apparatus. 1,624,402; Apr. 12.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Range-switch assembly. 1,649,024; Nov. 15.
- Forslund, Gust. (See Schroeder, R. O. and Forslund.)
- Fors, Frithjof P., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Electric drill. 1,652,491; Dec. 13.
- Fors, Joseph A. (See Kittredge, E. E., Forster, and Johansen.)
- Forster, Merle, Oakland, Calif. Piston ring. 1,646,143; Oct. 18.
- Forsyth, Charles A., Atlanta, Ga. Sign. 1,622,637; Mar. 29.
- Forsyth, David. (See Hydnorn, R. and Forsyth.)
- Forsyth, George H., San Francisco, Calif., assignor to Motor Wheel Corporation, Lansing, Mich. Wheel rim assembly. 1,617,999; Feb. 15.
- Forsyth, George H., assignor, by mesne assignments, to The Adams & Westlake Company, Chicago, Ill. Bolt mounting. 1,629,494; May 24.
- Forsyth, George H., Chicago, Ill., assignor to Motor Wheel Corporation, Lansing, Mich. Disk wheel. 1,630,740; May 31.
- Forsyth, George H., Chicago, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Disk wheel. 1,652,433; Dec. 13.
- Forsyth, Joseph E., assignor to M. K. Northam, Chicago, Ill. Draft gear. 1,640,857; Oct. 25.
- Forsyth, Robert, Chicago, Ill., assignor, by mesne assignments, to H. J. Rodgers, receiver. Treating fibrous vegetable material. 1,646,087; Oct. 18.
- Forsyth, Valoris L., Port Worth, Tex. Self-aligning pitman bearing box. 1,615,940; Feb. 1.
- Fort, Frank, Glen Ridge, N. J. Combined bathtub and shower casing. Des. 72,942; June 28.
- Fort, Louis, Jersey City, N. J. Insulator. 1,625,645; Apr. 19.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,637,874; Aug. 2.
- Fortescue, Charles L. and R. D. Evans, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Measuring system. 1,615,691; Jan. 25.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,644,497; Oct. 4.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of distribution. 1,647,348; Nov. 1.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective system. 1,649,025; Nov. 15.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission system. 1,651,519; Dec. 6.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Super-power system. 1,652,523; Dec. 13.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Modulating system. 1,654,285; Dec. 27.
- Fortin, Joseph O., assignor to Capital Manufacturing Co., Detroit, Mich. Exhaust gas heater. 1,633,853; June 28.
- Forth, Herman. (See Doughty, G. E. and Forth.)
- Fort Howard Paper Company. (See Cannard, William H., assignor.)
- Fort Howard Paper Company. (See Shaffer, G. A., and Wiley, J., assignors.)
- Fortier, James J., Grand Rapids, Mich. Automatic liquid-weighting machine. 1,631,957; June 14.
- Fortier, Leon D., Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Brooder. 1,613,792; Jan. 11.
- Fortier, Leon J., Springdale, Me. Rotatable electric connector for chains. 1,651,268; Nov. 29.
- Fortin, Frank, Washburn, Wis. Trap. 1,630,419; May 31.
- Fortin, Joseph O., Ottawa, Ontario, Canada. Camping outfit. 1,621,464; Mar. 15.
- Fortin, Joseph O., Ottawa, Ontario, Canada. Drafting device. 1,633,628; June 28.
- Fortin, Joseph O., Ottawa, Ontario, Canada. Drafting machine. 1,633,629; June 28.
- Fortin, Paul R., Schenectady, assignor to General Electric Company. Electric condenser. 1,614,113; Jan. 11.
- Fort Orange Paper Company. (See Evans, Benjamin, assignor.)
- Fort Pitt Bedding Company. (See Findora, John A., assignor.)
- Fort Pitt Bedding Company. (See Trimble, Charles P., assignor.)
- Fort Pitt Bridge Works of Pittsburgh. (See Wilson, Frederick R., assignor.)
- Fort Pitt Mine Equipment Company. (See Endsley, Louis E., assignor.)
- Fort Pitt Mine Equipment Company. (See Johnson, George M., assignor.)
- Fort Stanwix Tool and Die Co. (See Ahles, Albert P., assignor.)
- Fort Wayne Engineering & Mfg. Co. (See Astrom, John, assignor.)
- Fort Wayne Engineering and Manufacturing Co. (See Tannehill, Vernon L., assignor.)
- Fort William Paper Co. (See Larbalester, Ernest, assignor.)
- Fort Worth Well Machinery & Supply Co. (See Parr, Harris G., assignor.)
- Forward, David B., Taylor, Tex. Grave marker. 1,638,193; Aug. 9.
- Forwood, Reginald, Little Rock, Ark. Antiskid attachment for vehicle wheels. 1,650,437; Nov. 22.
- Fosbery, Ernest. (See Newlands, A. F. and Fosbery.)
- Foss, Christian C., Pinecastle, Fla., and D. D. De Loach, assignors to Foss De Loach Company, Savannah, Ga. Rotary valve. Re16,816; Dec. 13.

- Foss-De Loach Company. (See Foss, C. C., and De Loach, assignors.)
- Foss, Leland L., Pulaski, Ga. Far-distant weighing scale with improved hopper-supporting means. 1,617,245; Feb. 8.
- Fossesen, Arthur B. (See Rasmussen, Albert E., assignor.)
- Fossesen, Arthur B., Spokane, Wash. Roof construction. 1,623,102; Apr. 5.
- Fossesen, Arthur B., Spokane, Wash. Roof. 1,627,027; May 3.
- Foster, Albert, Philadelphia, Pa. Curtain support. 1,648,171; Nov. 8.
- Foster, Ashford, L., Denver, Colo. Lawn edger. 1,622,998; Mar. 29.
- Foster, Charles E., Letchworth, England. Measuring instrument. 1,623,915; Apr. 5.
- Foster, Charles E., Letchworth, England. Electrical measuring instrument. 1,624,135; Apr. 12.
- Foster, Claude H., Wickliffe, Ohio. Shock absorber. 1,618,815; Mar. 8.
- Foster, Edgar B., Montgomery, Ala. Boxing apparatus. 1,620,598; Mar. 8.
- Foster, Edna. (See Strempel, Julius J., assignor.)
- Foster, Edward C. (See Kirchman, Ferdinand H., assignor.)
- Foster, Edward E., Beverly, Mass. Machine for operating upon casting patterns. 1,627,696; May 10.
- Foster, Edward E., Beverly, Mass. Puzzle. 1,642,236; Sept. 13.
- Foster, Edward J., Mount Auburn, Ill. Form for constructing drain and sewer tiles. 1,642,581; Sept. 13.
- Foster, Edward S., et al. (See Sebell, Harry, assignor.)
- Foster Engineering Company. (See Ford, Ernest B., assignor.)
- Foster, Frank M., Columbus, Ohio. Machine for cutting green corn from the cob. 1,651,591; Dec. 6.
- Foster, Fred J., Monticello, Me. Cultivator. 1,615,902; Feb. 1.
- Foster, Frederick. (See Boucher, G. F., Price, and Foster, et al.)
- Foster, George P., North Abington, Mass. Antiskid device. 1,618,156; Feb. 15.
- Foster, Harry C., assignor to Indiana Lamp Corporation, Connersville, Ind. Lamp socket. 1,641,159; Sept. 6.
- Foster, Harry C., assignor to one-half to Indiana Lamp Corporation, Connersville, Ind., and one-half to General Motors Corporation, Detroit, Mich. Lamp construction. 1,642,435; Sept. 13.
- Foster, Harry C., assignor to one-half to Indiana Lamp Corporation, Connersville, Ind., and one-half to General Motors Corporation, Detroit, Mich. Lamp focusing. 1,649,295; Nov. 15.
- Foster, James E., Clarksburg, Ontario, Canada. Fan. 1,649,161; Nov. 15.
- Foster, Jay E., Minneapolis, Minn. Hoist for trucks. 1,617,585; Feb. 15.
- Foster, John M. (See Penson, William R., assignor.)
- Foster, John M., Fulton, N. Y. Amusement device. 1,615,749; Jan. 25.
- Foster, John R. (See Woodruff, F., and Foster.)
- Foster, John R., and F. Woodruff, assignors to Correct Measure Company, Rochester, Pa. Liquid-dispensing apparatus. 1,633,985; June 28.
- Foster-Johnson Reamer Company. (See Kylin, Oskar, assignor.)
- Foster, Joseph, jr., assignor to The Enamel Products Company, Cleveland, Ohio. Enameled-metal cover for washbubs, etc. 1,614,464; Jan. 18.
- Foster, Julius E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic synchronous-converter system. 1,638,841; Aug. 16.
- Foster Machine Company. (See McKean, John O., assignor.)
- Foster, Mary F., trustee. (See Bollmann, Hermann, assignor.)
- Foster, Raymond L., Apponaug, R. I. Liquid-fuel burner. 1,637,900; Aug. 2.
- Foster, Samuel P., assignor to R. C. Lynn, Chattanooga, Tenn. Dirigible headlight. 1,633,442; June 21.
- Foster, Theodore W. & Brother Company. (See Noble, Arthur H., assignor.)
- Foster, Theodore W., Bro. Company. (See Wilson, Ralph W., assignor.)
- Foster, Thomas J., Ridgewood, N. J. Floor construction. 1,649,300; Nov. 15.
- Foster, Thoms J., Ridgewood, N. J. Reinforced concrete construction. 1,637,932; Aug. 2.
- Foster, Walter H. (See Eden, James A., jr., assignor.)
- Foster, Walter H. (See Markland, Wyllis H., assignor.)
- Foster, Walter W. (See Hill, R. D., and Foster.)
- Foster Wheeler Corporation. (See Primrose, John, assignor.)
- Foster, William. (See Chase, P. H., and Foster.)
- Foster, William, Philadelphia, assignor to P. H. Chase, Bala, Pa. Rack. 1,616,360; Feb. 1.
- Foster, William B., Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill. Waistband for trousers. 1,635,567; Dec. 12.
- Foster, William B., Detroit, Mich. Polishing wheel and treating same. 1,633,523; June 21.
- Fostoria Glass Co. (See Bottomo, Edgar M., assignor.)
- Fostoria Glass Co. (See Greenan, Frank D., assignor.)
- Fostoria Glass Company. (See Magee, William H., assignor.)
- Fotch, John M., Chicago, Ill. Automatic air and gas check. 1,619,066; Mar. 1.
- Fothergill, Harry, and H. Hillier, Westminster, London, England. Steam-condensing and boiler water-supply apparatus of steam-power plants. 1,629,028; May 17.
- Fotheringham, Thomas B., and M. McIntyre, Seattle, Wash. Street and station indicator. 1,638,661; Aug. 2.
- Föttinger, Hermann, Zoppot, near Danzig, Free City of Danzig. Device for damping the oscillations of multiple crank shafts. 1,636,050; July 19.
- Föttinger, Hermann, Berlin-Wilmersdorf, Germany. Differential gear for motor vehicles. 1,646,020; Oct. 18.
- Foulder, Henry B., Glenbrook, assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn. Apparatus for stringing wire ties. 1,617,104; Feb. 8.
- Foulder, Henry B., Glenbrook, assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn. Tool for twisting wire ties. 1,642,849; Sept. 20.
- Foulder, Henry B., Glenbrook, assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn. Machine for tying wire ties. 1,642,850; Sept. 20.
- Foulds, Charles V. (See Hutchinson, E. C., and Foulds.)
- Foulds, Charles V., Oakland, assignor to The Pelton Water Wheel Co., San Francisco, Calif. Manufacturing seats for butterfly valves. 1,650,285; Nov. 22.
- Foulke, Roy D., Warsaw, Ind., assignor to De Puy Manufacturing Company. Finger splint. 1,617,942; Feb. 15.
- Foulke, Roy D., Warsaw, Ind., assignor to W. D. Leiter. Surgical splint. 1,633,601; Dec. 20.
- Foulke, Fred E., Cleveland, Ohio, assignor to General Electric Company. Metal filament. 1,628,456; May 10.
- Foundation Oven Corporation. (See Wright, William H., assignor.)
- Foundis, Edison A., assignor of one-fourth to R. B. Grimes, Philadelphia, Pa. Aeroplane kite. 1,620,882; Mar. 15.
- Fountain, Adolph F. Balzarini, and T. Thiel, San Francisco, Calif. Refracting tool. 1,639,173; Aug. 16.
- Fountain, Clark O., Moorestown, N. J. Automobile rebound checking device. 1,627,379; May 3.
- Fouquet, Eugene, Bois-Colombes, France. Binding and cutting pliers. 1,641,077; Aug. 30.
- Fowler, Harry H., Augusta, Ga. Toy auto device. 1,617,480; Feb. 15.
- Fourness, Wilfred. (See Marcus, H. C., and Fourness.)
- Fourness, Wilfred, Pasadena, Calif., assignor to E. G. Burghard, Glendale, Calif. Automatic valve control. 1,641,628; Sept. 6.
- Fournier, Oscar, Symmes Township, Hamilton County, assignor to The United States Playing Card Company, Norwood, Ohio. Step and repeat machine. 1,620,336; Mar. 8.
- Fousek, Joseph, San Francisco, Calif. Pastry dough. 1,625,022; Apr. 19.
- Fowler, Arthur E., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Floater. 1,614,114; Jan. 11.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel machine. 1,630,561; May 31.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of boots and shoes. 1,630,562; May 31.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-treating-tool support. 1,630,563; May 31.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-finishing machine. 1,630,564; May 31.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel machine. 1,630,565; May 31.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for pressing soles. 1,640,353; Aug. 30.
- Fowler, Arno W., Collinsville, Ill. Clock winding mechanism. 1,639,691; Aug. 23.
- Fowler, Charles L. (See Hursell, Ernest O., assignor.)
- Fowler, Charles R., and E. M. Roberts, Bulli, New South Wales, Australia. Electric accumulator for handlamps. 1,640,119; Aug. 23.
- Fowler, Clarence B. (See Bascom, H. M., and Fowler.)
- Fowler, Clarence B., and W. C. Kien, W. C., and Fowler.)
- Fowler, Clarence B., Queens, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,615,941; Feb. 1.
- Fowler, Clarence B., Queens, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,629,099; May 17.
- Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,632,063; June 14.
- Fowler, David C., Mount Comfort, Ind. Egg-peeling device. 1,644,119; Oct. 4.
- Fowler, Edward J. (See Hartley, H. J., Fowler, and Baird.)
- Fowler, Ernest U., Santa Ana, Calif. Tree support. 1,644,994; Oct. 11.
- Fowler, Fred D., Watertown, Mass. Tire. Des. 73,163; Aug. 2.
- Fowler, Homer J., et al. (See Hodges, B. D., and Owen, assignors.)

- Fowler, James N., Mobile, Ala. Heel-attaching device. 1,642,991; Sept. 20.
- Fowler, John S., San Mateo, assignor to Pacific Foundry Company, San Francisco, Calif. Dry-pan crusher. 1,626,887; Apr. 26.
- Fowler, Lester A., Berkeley, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. 1,626,607; May 3.
- Fowler, Paul L., assignor to Arthur-Fowler Co., Spokane, Wash. By-pass valve structure. 1,622,778; Mar. 29.
- Fowler, Paul L., assignor to Arthur-Fowler Co., Spokane, Wash. Clamp-on electric heater. 1,642,197; Sept. 13.
- Fowler, Samuel. (See Goldfain, E., and Fowler.)
- Fowler, Stanley, Yorkshire, and E. Edser, London, England. Prevention of corrosion. 1,624,938; Apr. 19.
- Fowler, Stanley, Yorkshire, and E. Edser, London, England. Lubricant. 1,624,939; Apr. 19.
- Fowler, William A. (See McCrary, Sam H., assignor.)
- Fowler, William E., jr., Mount Lebanon, Pa. Car truck. 1,654,326; Dec. 27.
- Fox, A. H., Gun Company. (See Godshalk, Clarence A., assignor.)
- Fox, A. H., Gun Company. (See Henke, Frederick, assignor.)
- Fox, Abraham, assignor to The Patricia Petticoat Company, New York, N. Y. Slip. 1,643,884; Sept. 27.
- Fox, Anna E. (See Fox, Ivan, assignor.)
- Fox, Austen H. (See Wright, John E., assignor.)
- Fox, Edmund H., Products Corporation. (See Henke, Frederick, assignor.)
- Fox Automotive Products Corporation. (See Henke, Frederick W., jr., assignor.)
- Fox, Cecil M., Toledo, Ohio. Automatic control for arc lamps. 1,622,505; Mar. 29.
- Fox, Cecil M., Toledo, Ohio, assignor to The Rollaway Motor Company. Projection apparatus for stereopticon views and cinematographic films. 1,620,956; Mar. 15.
- Fox, Charles E., Sunningdale, and W. Fox, Manchester, England. Oil filter or strainer. 1,652,620; Dec. 13.
- Fox, Ernest C., Cleveland, Ohio. Thimble structure for partitions. 1,645,419; Oct. 11.
- Fox, George B., and J. G. Christian, Wolcott, N. Y. Counting mechanism for paring machines. 1,616,081; Feb. 1.
- Fox, Gordon. (See McIntosh, R. L., and Fox.)
- Fox, Gordon, assignor to Freym Engineering Company, Chicago, Ill. Heating means for rolls. 1,638,626; Aug. 9.
- Fox, Gustave, Company, The. (See Fox, Milford G., assignor.)
- Fox, Harold E., Pittsburgh, Pa., assignor to National Electric Manufacturing Company. Reciprocating electric motor. 1,637,813; Aug. 2.
- Fox, Harold K., Fresno, Calif. Drill-heating furnace. 1,628,964; May 17.
- Fox, Ivan, assignor to A. E. Fox, Media, Pa. Eye-exercising device. 1,647,117; Oct. 26.
- Fox, John C., Rutland, Vt. Siruping-off pan. 1,647,908; Nov. 1.
- Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making sheet glass. 1,638,728; Aug. 9.
- Fox, Julius, assignor of one-fourth to J. H. Grummer and one-fourth to E. O. La Fevre, Cleveland, Ohio. Portable acetylene. 1,630,336; May 21.
- Fox, Julius A., assignor to H. Mendes & Company, New York, N. Y. Textile fabric. Des. 72,671; May 17.
- Fox, Llewellyn M. (See Addeburg, J. T., and Fox.)
- Fox, Martin, Chicago, Ill. Concealed hinge. 1,619,502; Mar. 1.
- Fox, Maud C., New York, N. Y. Device for illuminating clocks or the like. 1,628,497; May 10.
- Fox, Milford G., assignor to The Gustav Fox Company, Cincinnati, Ohio. Attaching means. 1,636,222; July 19.
- Fox, Morris, Norwich, Conn. Bottle. Des. 73,226; Aug. 9.
- Fox, Otto, Lakewood, assignor to The Bryant Heater Manufacturing Company, Cleveland, Ohio. Water heater. 1,629,658; May 24.
- Fox, Otto, Cleveland, and W. E. Stark, East Cleveland, assignors to The Bryant Heater and Manufacturing Company, Cleveland, Ohio. Thermostatic pilot-control system for burners. 1,638,770; July 26.
- Fox, Richard W., Birmingham, Ala. Tire-repair scraper. 1,632,544; June 14.
- Fox, Robert S., Ford City, Pa. Vehicle jack. 1,617,753; Feb. 15.
- Fox, Rudolph H., Denver, Colo. Rope-guide roller. 1,619,413; Mar. 1.
- Fox, Walter. (See Fox, Charles E. and W.)
- Fox, Walter E., Omak, Wash. Temperature-controlled alarm. 1,642,649; Sept. 13.
- Fox, Werner J., New Orleans, La. Motor-cycle trailer attachment. 1,613,948; Jan. 11.
- Fox, Werner J., New Orleans, La. Motor-cycle trailer attachment. 1,633,086; June 21.
- Fox, William H., Minneapolis, Minn. Baseball center and producing the same. 1,631,317; June 7.
- Foxboro, Company, The. (See Bristol, Edgar H., assignor.)
- Foxboro Company, The. (See Brown, W. C., and Spink, assignors.)
- Foxboro Company, The. (See Pitts, Walter H., assignor.)
- Foxgrover, Joseph A., Chicago, Ill. Brake-beam safety bracket. 1,650,503; Nov. 22.
- Foy, Fernand, Gentilly, France. Pulp-molding machine. 1,621,401; Mar. 15.
- Fr., Hesser, Maschinenfabrik Aktiengesellschaft. (See Gander, Paul, assignor.)
- Frackelton, Robert J., Summit, and F. C. Sixt, assignors to The Chandler and Price Company, Cleveland, Ohio. Adjustable roller track for Gordon printing presses. 1,619,018; Mar. 1.
- Frahn, Carl A., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Fluting machine. 1,638,481; Aug. 9.
- Fraim, Samuel R., Lancaster, Pa. Locking device. 1,633,172; June 21.
- Fraim, Samuel R., Lancaster, Pa. Padlock. 1,635,711; July 12.
- Fraim, Samuel R., Lancaster, Pa. Locking device. 1,652,823; Dec. 13.
- Fraim-Slaymaker Hardware Co. (See Hanton, Henry H., assignor.)
- Fraim, Walter E., Lancaster, Pa. Padlock for tire carriers. 1,614,606; Jan. 18.
- Fraizer, Frank, assignor to The New Favorite Manufacturing Company, Troy, Ohio. Valve lifter. 1,613,450; Jan. 4.
- Frakes, Frank F., assignor of one-half to J. M. Dedman, Columbia, Tenn. Renewable fuse-attachment plug. 1,645,764; Jan. 18.
- Frambach, Matthew J., assignor of one-third to E. Neebel and one-third to J. B. Olhausen, Hartley, Iowa. Tire-chain link. 1,617,627; Feb. 15.
- Framburg, H. A., & Co. (See Framburg, Henry A., assignor.)
- Framburg, Henry A., assignor to H. A. Framburg & Co., Chicago, Ill. Lighting fixture. 1,647,288; Nov. 1.
- Frame, William S., Schenectady, N. Y. Manhole. 1,639,495; Aug. 16.
- Frampton, John A., Columbus, Ohio. Figure toy. 1,643,006; Sept. 20.
- Francart, René, Brussels, assignor to Société Anonyme: Etablissements Brackers, Herstal-lez-Liege, Belgium. Apparatus for regulating the speed of continuous firing of automatic weapons. 1,614,981; Jan. 18.
- France, Antoine, Liege, Belgium. Mineral-concentrating plant. 1,616,791; Feb. 8.
- France, Carey C., and P. F. Reichert, Toledo, Ohio. Toilet float. 1,633,005; Dec. 20.
- France Foundry & Machine Co., The. (See Sive, Daniel G., assignor.)
- Francini, Alessandro, Florence, Italy. Injector for internal-combustion engines. 1,633,320; June 21.
- Franchini, Oreste, assignor to G. Ratti, Turin, Italy. Goggles. 1,647,107; Oct. 25.
- Franchot, Douglas W., Tulsa, Okla. Single-trigger mechanism for multiple-barreled guns. 1,634,415; July 5.
- Francis, Andrew J., George West, Tex. Sweep. 1,648,843; Nov. 1.
- Francis, Bertram, Kisil, Africa. Flying machine of the biplane type. 1,613,091; Jan. 4.
- Francis, Jacob R. (See Redmond, Albert G., assignor.)
- Francis, Jacob R., Flint, Mich. Thermostatic heat control for internal-combustion engines. 1,613,029; Jan. 4.
- Francis, Jacob R., Flint, Mich. Heat control for internal-combustion engines. 1,626,727; May 3.
- Francis, Louis, Miami, Fla. Woven-wire art canvas. 1,616,445; Feb. 8.
- Francis, Louis, Miami, Fla. Paint formula. 1,639,599; Aug. 16.
- Francis, Robert L., Hendersonville, N. C. Hydraulic steering mechanism. 1,615,075; Jan. 18.
- Francis, Roy E. (See McCulloch, J. W., and Francis.)
- Francisco, George D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Conveyor mechanism and particularly conveyor pulley supports. 1,636,051; July 19.
- Frank, Edwin G., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Repair construction for wooden-frame box cars. 1,630,483; May 21.
- Frank, Elai W. F. (See Shockley, William I., assignor.)
- Frankel, Elizabeth A., New York, N. Y. Doll made of fibrous materials. 1,612,805; Jan. 4.
- Frankie, Louis S., New Orleans, La. Numbered playing cards. 1,632,979; Dec. 13.
- Frankie, William J., assignor, by mesne assignments, to John Waldron Corporation, New Brunswick, N. J. Power-transmitting device. Re-16,829; Dec. 27.
- Frankie, William J., assignor, by mesne assignments, to John Waldron Corporation, New Brunswick, N. J. Flexible coupling. 1,622,101; Mar. 22.
- Frankie, assignor, by mesne assignments, to John Waldron Corporation, New Brunswick, N. J. Flexible coupling. 1,626,458; Apr. 26.
- Frankie, William J., deceased, New Brunswick; A. E. Beils, Plainfield, R. G. Savoye, Westfield, and R. E. Woodson, Highland Park, N. J., executors. Testing machine. 1,654,495; Dec. 27.
- Franclore Company. (See Miller, Frank W., assignor.)
- Francois Cementation Company, The. (See Neelands, Abram R., assignor.)
- Franklin, J. C. Co. (See Freedman, Jacques R., assignor.)
- Frankford, John C., Hartford, Conn., assignor to American Telephone and Telegraph Company. Telephone switch-board cord terminal test connector. 1,615,219; Jan. 25.

- Frangedakis, Emmanuel J., Philadelphia, Pa. Coloscope. 1,633,443; June 21.
- Franc, Adolph, assignor to Tamboriza Manufacturing Company, Port Recovery, Ohio. Stringed instrument. 1,637,559; Aug. 2.
- Frank, Benjamin E. (See Schuman, I., and Frank.)
- Frank, Edward, Berkeley, Calif. Shoe tip. 1,651,345; Nov. 29.
- Frank, Harrison J. L., assignor to Mutual Electric and Machine Company, Detroit, Mich. Electric switch. 1,638,578; June 28.
- Frank, Harold J. L., assignor to Mutual Electric and Machine Company, Detroit, Mich. Safety switch. 1,643,768; Sept. 27.
- Frank, Isaiah, Flushing, N. Y. Ray-filter glass. 1,615,448; Jan. 25.
- Frank, John G., Buffalo, N. Y. Magnet-power-transmission gearing. 1,623,669; Apr. 5.
- Frank, John M., assignor to Ilg Electric Ventilating Company, Chicago, Ill. Unit for heating and ventilating systems. 1,626,400; Apr. 26.
- Frank, John M. and A. G. Sutcliffe, assignors to Ilg Electric Ventilating Company, Chicago, Ill. Ventilating apparatus. 1,633,579; June 28.
- Frank, Julius, Chicago, Ill. Bag-sealing machine. 1,646,397; Oct. 25.
- Frank, M. C. (See Myers, Genevieve H., assignor.)
- Frank, M. C., et al. (See Hendrickson, Henry P., assignor.)
- Frank, Martin, Brooklyn, N. Y. Waterproof vest-pocket sun watch. 1,621,661; Mar. 22.
- Frank, Milton A., San Francisco, Calif. Bearing-pin lubricator and obstruction ejector. 1,628,833; May 17.
- Frank, Milton A., San Francisco, Calif. High-pressure vacuum grease gun. 1,628,834; May 17.
- Frank, Paul A., Akron, Ohio. Razor sharpener. 1,635,827; July 12.
- Frank, Samuel K. (See Powell, Dalton U., assignor.)
- Frank, Walter N., assignor to The Grolan Manufacturing Company, Dayton, Ohio. Liquid-level gauge. 1,630,000; May 24.
- Frank, Bernard E., Catonsville, Md. Paper spool. 1,628,040; May 10.
- Frank, Charles A. (See Bilderback, H. S., and Franke.)
- Frank, George O., assignor to A. E. Probst and P. A. Franke, Thrall, Tex. Cultivator standard. 1,622,865; Mar. 29.
- Frank, Henry C., Evanston, Ill., and R. C. Bangs, Providence, R. I. Baseball game. 1,625,200; Apr. 19.
- Frank, Hermann, Hanover, Germany, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel, Wilhelmshagen, Germany. Closure means for manhole openings in steam boilers. 1,632,957; June 21.
- Franke, P. A., et al. (See Franke, George O., assignor.)
- Frankel, Gustave, Chicago, Ill. Receptacle for connecting plugs. 1,628,399; May 10.
- Frankenberg, Julius, Milwaukee, Wis. Fluid-gas compressor. 1,629,495; May 24.
- Frankenfeld, Leo, Hoboken, N. J. Exercising apparatus. 1,623,670; Apr. 5.
- Frankenfeld, Leo, Hoboken, N. J. Exercising apparatus. 1,623,671; Apr. 5.
- Franklin, Albert W., assignor to Chas. Freshman Co. Inc., New York, N. Y. Variable-condenser drive. 1,618,525; Feb. 22.
- Franklin, Albert W., assignor to Chas. Freshman Co. Inc., New York, N. Y. Vernier tuning dial. 1,619,338; Mar. 1.
- Franklin, Albert W., assignor to Chas. Freshman Co. Inc., New York, N. Y. Variable mica condenser. 1,637,445; Aug. 2.
- Franklin, Charles S., London, England, assignor to Radio Corporation of America. Electrical condenser. 1,628,659; May 17.
- Franklin, Edward J., Salt Lake City, Utah. Water-tube bridge-wall baffle for steam boilers. 1,634,139; June 28.
- Franklin Equipment Company. (See Langer, Rudolph J., assignor.)
- Franklin, H. H., Manufacturing Company. (See Burns, John L., assignor.)
- Franklin, H. H., Manufacturing Company. (See De Causse, Frank, assignor.)
- Franklin, H. H., Manufacturing Company. (See Wilkinson, John, assignor.)
- Franklin, Ned G., assignor of one-half to I. A. Smith, Independence, Mo. Rail joint. 1,630,093; May 24.
- Franklin Pottery. (See Schweiker, Roy W., assignor.)
- Franklin Radio Company. (See Clarke, Ralph A., assignor.)
- Franklin Railway Supply Company. (See Comley, Walter T., assignor.)
- Franklin Railway Supply Company. (See Cox, Walter J., assignor.)
- Franklin Railway Supply Company. (See Fritchey, Franklin W., assignor.)
- Franklin Railway Supply Company. (See Martin, Frederick W., assignor.)
- Franklin Railway Supply Company. (See Peters, Frank R., assignor.)
- Franklin Railway Supply Company. (See Roberts, Montague H., assignor.)
- Franklin Railway Supply Company. (See Vincent, Harry S., assignor.)
- Franklin Railway Supply Company. (See Zouck, George H., assignor.)
- Franklin, Robert B. W., Dallas, Tex. Automatic time-controlled switch for electric circuits. 1,616,120; Feb. 1.
- Franklin Simon & Co. (See Burns, Katherine E., assignor.)
- Franklin Simon & Co. (See Davis, Taube, assignor.)
- Franklin Simon & Co. (See Schmoize, Mildred C., assignor.)
- Franklin Simon & Co. (See Siegel, Maude, assignor.)
- Franklin Simon & Co. Inc. (See Davis, Taube, assignor.)
- Franklin Simon & Co. Inc. (See Siegel, Maude, assignor.)
- Franklin, William E., Earlham, Iowa. Well-water-lifting device. 1,616,219; Feb. 1.
- Franklin, William S., Cambridge, Mass. Pump and internal-piston engine therefor. 1,623,402; Apr. 5.
- Franks, Clem H., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Producing tubular articles from pulpous material. 1,632,398; June 14.
- Franks, Clem H., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Protective coating. 1,633,576; June 28.
- Franks, Clem H., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical coil. 1,633,577; June 28.
- Franks, Jacob W., et al. (See Davis, Paul, assignor.)
- Franks, Walter. (See Field, B. E., and Franks.)
- Franks, Thomas, Walsall, England. Coupling for vehicles. 1,627,430; May 3.
- Franks, Thomas, Walsall, England. Drawbar coupling. 1,628,587; May 10.
- Fransom, Axel J., et al. (See Rudberg, Emil, assignor.)
- Frantz, Charles T., assignor to Recording Thermometer Company, Los Angeles, Calif. Printing machine. 1,626,401; Apr. 26.
- Frantz, George A., et al., trustees. (See Baker, William E., assignor.)
- Frantz, Peter C., assignor to Modern Utilities Company, Harrisburg, Pa. Grade-measuring device. 1,633,854; June 28.
- Frantz Manufacturing Co. (See Ferris, William D., assignor.)
- Frantz Manufacturing Co. (See Frantz, Peter, assignor.)
- Frantz, Peter, assignor to Frantz Manufacturing Company, Sterling, Ill. Padlock-hasp device. 1,623,050; Apr. 5.
- Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Door latch. 1,630,379; May 31.
- Frantz, Walter A., Cleveland, Ohio. Ironing machine. 1,634,359; July 5.
- Frantz, Walter A., Cleveland Ohio. Laundry apparatus. 1,634,539; July 5.
- Frantz, Walter A., Cleveland Heights, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Operating mechanism. 1,653,266; Dec. 20.
- Frantz, Charles H. Jr., Milwaukee, Wis. Loose-leaf binder. 1,640,071; Aug. 23.
- Frantz, Josef, Bischofswerda, Germany. Cop tube. 1,628,457; May 10.
- Frantz Manufacturing Co. (See Thorne, Lawrence C., assignor.)
- Frantz and Summers. (See Summers, Louis D., assignor.)
- Frantzorf, Reinhart F., Defiance, Ohio. Camp stool. 1,635,828; July 12.
- Franzen, Nicklas, Long Beach, Calif. Production of sheet glass. 1,617,800; Feb. 15.
- Franzen, Tore, assignor to Detroit Steel Products Company, Detroit, Mich. Vehicle spring suspension. 1,644,465; Oct. 4.
- Frasca, Alfred B., Sandy Ridge, Pa. Oil-pump mechanism. 1,633,781; June 28.
- Fraser, Louis, Torrington, Conn. Adjustable shade bracket. 1,622,779; Mar. 29.
- Fraser, Hans A., New York, N. Y. Reclaiming waste lubricating mineral oil containing soaps. 1,651,688; Dec. 6.
- Fraser, Alfred J., El Paso, Tex. Gas-burner valve-operating device. 1,637,175; July 26.
- Fraser, Charles E., Brooklyn, N. Y., assignor to the Government of the United States. Searchlight. 1,642,436; Sept. 13.
- Fraser, Chelsea C., and J. A. Goss, Grand Rapids, Mich. Desk. 1,652,774; Dec. 13.
- Fraser, Frank. (See Baker, N. M., and Fraser.)
- Fraser, Frank, assignor to The Libby-Owens Sheet Glass Company, Toledo, Ohio. Multiple-sheet-flowing apparatus. 1,623,051; Apr. 5.
- Fraser, Frank, assignor to American Optical Company, Southbridge, Mass. Making ophthalmic blanks. 1,630,262; May 31.
- Fraser, Frank, assignor to American Optical Company, Southbridge, Mass. Making multifocal lenses. 1,637,021; July 26.
- Fraser, James, Edgemoor, assignor to Speakman Company, Wilmington, Del. Foot-actuated valve. 1,629,496; May 24.
- Fraser, John J., assignor of 45 per cent to H. E. Farabee, Camden, Ark. Safe control and signal for pump-operating mechanism. 1,624,784; Apr. 12.
- Fraser, Kenneth G., Wellton, Ariz. Filter funnel. 1,627,083; May 3.
- Fraser, Malcolm E., and L. Schultz, Detroit, Mich. Aerial. 1,639,727; Aug. 23.

- Fraser, Samuel O., Pittsburgh, Pa. Badge. Des. 71,963; Feb. 8.
- Fraser, Warren F., Westboro, Mass. Lapping machine and truing the lapping elements. 1,634,745; July 5.
- Fraser, William D., Cleveland, Ohio. Portable charcoal stove. 1,614,785; Jan. 18.
- Fraser, William J., Toronto, Ontario, Canada. Switch. 1,629,497; May 24.
- Frasier, Lee, and C. C. Hiner, Waco, Tex. Rim straightener. 1,616,655; Feb. 8.
- Frasier, Marion B., Corinth, assignor of one-half to J. H. Pitkin, Corinth, N. Y. License-plate holder. 1,652,664; Dec. 13.
- Frater, William H., assignor to American Autoparts Company, Detroit, Mich. Adjustable form for shaping plastics. 1,640,827; Aug. 30.
- Frater, William H., assignor to American Autoparts Company, Detroit, Mich. Apparatus for forming spring plates. 1,654,251; Dec. 27.
- Frattallone, Theodore R., Bronx, N. Y. Washing attachment for tubs. 1,625,306; Apr. 19.
- Frattallone, Theodore R., New York, N. Y. Washing attachment for tubs. 1,653,454; Dec. 20.
- Frauenthal, Harold, Cleveland, Ohio. Dimension gauge. 1,625,462; Apr. 19.
- Fravel, Ira F., Washington, D. C. Mooring mast. 1,634,989; July 5.
- Fraxel, John J., Stillwater, Minn. Hand oiler. 1,613,821; Jan. 11.
- Frazee, Frank D., Springfield, Ill. Tourist's auto tent. 1,622,435; Mar. 29.
- Frazier, Ballie W. (See Springfield, W. E., and Frazier.)
- Frazier, Bert, Pittsburgh, Pa. Concealed stairway. 1,633,321; June 21.
- Frazier, F. A., Company. (See Frazier, Frederick A., assignor.)
- Frazier, Frederick A., Berkeley, assignor to F. A. Frazier Company, San Francisco, Calif. Sulphur compound and making the same. 1,614,063; Jan. 11.
- Fraser, George H., Crafton, and A. E. Herold, Pittsburgh, Pa. Derailer. 1,643,376; Sept. 27.
- Frazier, James W., Cleveland, and F. E. Hansen, Lakewood, assignors to The Hansen Manufacturing Company, Cleveland, Ohio. Spraying device. 1,616,685; Feb. 8.
- Frazier, John W., assignor to Uvalde Rock Asphalt Company, San Antonio, Tex. Treating rock asphalt for shipment and laying. 1,624,403; Apr. 12.
- Frazier, Obbie M. (See Locker, L., and Frazier.)
- Frazier, Pearl G., Ankeny, Iowa. Rotary-valve structure. 1,625,307; Apr. 19.
- Frazier, Norman, Mount Barker, South Australia, Australia. Trap device for separating water from petrol. 1,619,713; Mar. 1.
- Frease, Huxthall F., (See Dawson, G. H., and Frease.)
- Frech, Albert, St. Louis, Mo. Vanity case. Des. 72,655; May 10.
- Frech, William F., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Machine for deforming wire in definite lengths. 1,624,940; Apr. 19.
- Frechett, George and H. W. Owen, Lowell, assignors to Crompton & Knowlton Loom Works, Worcester, Mass. Wire detector for looms. 1,635,205; Dec. 20.
- Freden, George J., Chicago, Ill. Car coupler. 1,651,265; Nov. 29.
- Fredenburg, William M., Paso Robles, Calif. Account system. 1,630,840; May 31.
- Fredenburgh, Mark N., East Orange, N. J. assignor to Westinghouse Lamp Company, Inc. Inking device for obtaining uniform printing on lamp bulbs. 1,645,045; Oct. 11.
- Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Projection system. 1,620,338; Mar. 8.
- Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Lens. 1,627,892; May 10.
- Frederick, Charles W., and F. E. Altman, assignors to Eastman Kodak Company, Rochester, N. Y. Objective. 1,620,337; Mar. 8.
- Frederick, Charles W., and D. L. Wood, assignors to Eastman Kodak Company, Rochester, N. Y. Projection objective. 1,620,339; Mar. 8.
- Frederick, Edwin L. (See Gibbs, H. D., and Frederick.)
- Frederick Iron & Steel Company, The. (See Raun, Peter August, assignor.)
- Frederick Iron and Steel Company, The. (See Winkle, George J., assignor.)
- Frederick, John E., Kokomo, Ind. Wire reel. 1,634,890; July 5.
- Frederick, Louis T., assignor to Fibroc Insulation Company, Valparaiso, Ind. Machine for and method of applying varnish to sheets of fibrous material. 1,624,094; Apr. 12.
- Frederick, Louis T., assignor to Fibroc Insulation Company, Valparaiso, Ind. Composite gear and making same. 1,626,230; Apr. 20.
- Frederick, Louis T., assignor to Fibroc Insulation Company, Valparaiso, Ind. Telephone diaphragm. 1,636,410; July 19.
- Frederick, Louis T., assignor to Fibroc Insulation Company, Valparaiso, Ind. Composite gear and making same. 1,626,411; July 19.
- Frederick, Louis T., assignor to Fibroc Insulation Company, Valparaiso, Ind. Making tubes. 1,646,479; Oct. 25.
- Frederick, Rheuel H., Irvington, N. J., assignor of two-fifths to C. F. Ames, Brooklyn, and one-fifth to A. H. E. Berchem, New York, N. Y. Vacuum-producing apparatus. 1,623,103; Apr. 5.
- Frederick, Rheuel H., Irvington, N. J., assignor of two-fifths to C. F. Ames, Brooklyn, and one-fifth to A. H. E. Berchem, New York, N. Y. Centrifugal pump. 1,623,104; Apr. 5.
- Fredericks, Adolf, Monterey Park, Calif. Low-level alarm for gasoline tanks. 1,619,339; Mar. 1.
- Fredericks, Walter E., Minneapolis, Minn. Window-raising device. 1,627,697; May 10.
- Frederickson, Axel L., San Francisco, and E. C. Pitcher, Hayward, Calif. Wall-board machine. 1,646,645; Oct. 25.
- Frederickson, Otto A., assignor to The American Wiremold Co., Hartford, Conn. Electrical conduit. 1,622,032; Mar. 22.
- Frederickson, Otto A., Wethersfield, assignor to The American Wiremold Company, Hartford, Conn. Outlet box. 1,623,587; Apr. 5.
- Frederickson, Otto A., Wethersfield, assignor to The American Wiremold Company, Hartford, Conn. Electric-bracket outlet. 1,624,547; Apr. 12.
- Frederickson, Otto A., Wethersfield, assignor to The Wiremold Company, Hartford, Conn. Protecting coating for covered conductors and applying the same. 1,625,829; July 12.
- Frederics, E. Inc. (See Brown, James C., assignor.)
- Frederics, E. Inc. (See Frederics, Ernest O., assignor.)
- Frederics, Ernest O., assignor to E. Frederics, Inc., New York, N. Y. Hair curler. 1,650,012; Nov. 12.
- Fredette, Frank D., New York, N. Y. Golf bag. 1,616,446; Aug. 8.
- Fredette, Frank H., Newark, N. J. Headlight antiglare shield. 1,647,613; Nov. 1.
- Frediani, Angelo. (See Martin, Charles H., assignor.)
- Fredrick, Charles H., Springfield, Mo. Pulley-attaching machine. 1,647,789; Nov. 1.
- Fredrick, Joseph P., assignor of one-half to A. J. Lurie, Chicago, Ill. Door lock. 1,639,086; Aug. 16.
- Fredrick, Joseph P., assignor of one-half to A. J. Lurie, Chicago, Ill. Garage-door operating and supporting mechanism. 1,641,160; Sept. 6.
- Fredrick, John T., et al. (See Prator, Ernest P., assignor.)
- Fredriksson, Walter O., et al., trustees. (See McArthur, Robert C., assignor.)
- Fredriksson, John F., Brooklyn, assignor to The Kalbfleisch Corporation, New York, N. Y. Preparing satin wrap. 1,632,891; June 21.
- Free, John W. (See Boardman, C. S., and Free.)
- Free, Thomas J., Neillsville, Wis. Amusement device. 1,635,931; July 12.
- Freeberg, John E., Saries, N. Dak. Liquid-dispensing device. 1,636,630; July 19.
- Freeburg, Walter S., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Selective punching machine. 1,612,971; Jan. 4.
- Freed, Allie S., New York, N. Y. Motor-vehicle body. Des. 73,602; Oct. 11.
- Freed, Allie S., New York, N. Y. Combined motor-vehicle body and hood. Des. 73,603; Oct. 11.
- Freed, Meyer L., assignor, by mesne assignments, to Secretary of Commerce of the United States as trustee for the Government of the United States and the people of the United States, Washington, D. C. Composition of matter, a superrefractory body formed therefrom and manufacturing the same. 1,644,244; Oct. 4.
- Freed, Wesley W., East Palestine, Ohio. Number holder. 1,622,436; Mar. 29.
- Freedman, Hyman, and H. Borsky, New York, N. Y. Lock. 1,633,173; June 21.
- Freedman, Jacques R., assignor to Frandor Mfg. Co., Inc., New York, N. Y. Fabric with patterns printed thereon. 1,616,080; Feb. 1.
- Freedman, Jacques R., assignor to Frandor Mfg. Co., Inc., New York, N. Y. Packaging textile articles. 1,616,181; Feb. 1.
- Freegard, William, St. Louis, Mo., assignor to The Barber Asphalt Company, Philadelphia, Pa. Flexible shingle. 1,626,308; Apr. 19.
- Free!, Francis E., Niles, Ohio. Tank-car-cleaning device. 1,624,865; Apr. 12.
- Freeland, Claude L., Bristow, Okla. Process of and apparatus for condensing, treating, and washing hydrocarbon vapors. 1,627,431; May 8.
- Freeborn, Arthur J., Alameda, Calif. Sheet conveyor. 1,631,367; June 7.
- Freeman, Bertrand B., Pontiac Mich. Collapsible packing case. 1,636,223; July 19.
- Freeman, Charles F., et al., trustees. (See Freeman, Louis G., assignor.)
- Freeman, Charles M. (See Large, E. R., and Freeman.)
- Freeman-Daughaday Co. (See Hallihan, John J., assignor.)
- Freeman, Deane M., Brookline, Mass. Coated confection. 1,627,641; May 10.
- Freeman, Deane M., Brookline, Mass. Implement for making coated confection. 1,627,642; May 10.
- Freeman, Edgar H., assignor, by mesne assignments, to Circle F. Mfg. Co., Trenton, N. J. Push-switch socket. 1,645,130; Oct. 11.

- Freeman, Henry, Tonica, Ill. Moisture-supplying attachment for carburetors. 1,615,820; Jan. 25.
- Freeman, Henry O., Eden, Idaho. Grain separator. 1,617,246; Feb. 8.
- Freeman, Hidden E., Crewe, Va. Display container. 1,622,194; Mar. 22.
- Freeman, Horace, Vancouver, British Columbia, assignor of one-half to Canada Carbide Company, Limited, Montreal, Canada. Manufacture of alkali-metal sulphides. 1,640,814; Aug. 23.
- Freeman, Horace, Shawinigan Falls, Quebec, assignor of one-half to Canada Carbide Company, Limited, Montreal, Canada. Manufacture of alkali-metal sulphides. 1,640,315; Aug. 23.
- Freeman, J. B., et al. (See Bilbrey, George L., assignor.)
- Freeman, John R. (See Krivoshein, Gregory G., assignor.)
- Freeman, John R., Providence, R. I. Apparatus and method of constructing and sinking a caisson. 1,630,337; May 31.
- Freeman, John R., Providence, R. I. Lantern slide. 1,633,378; June 21.
- Freeman, Joseph. (See O'Brien, F. E., and Freeman, assignor.)
- Freeman, Louis. (See O'Brien, F. E., and Freeman.)
- Freeman, Louis G., et al., trustees. (See Freeman, Louis G., assignor.)
- Freeman, Louis G., Cincinnati, Ohio. Shank-beating and stitch-rubbing machine. 1,624,326; Apr. 12.
- Freeman, Louis G., assignor to L. G. and C. F. Freeman, trustees, Cincinnati, Ohio. Shank-beating and stitch-rubbing machine. 1,616,710; Aug. 23.
- Freeman, Lowell C., assignor to Hupp Motor Car Corporation, Detroit, Mich. Seat construction. 1,639,371; Aug. 16.
- Freeman, Nat H., Holborn, London, England. Controlling the temperature in furnaces and other apparatus. 1,614,723; Jan. 18.
- Freeman, Ralph F., assignor of one-half to R. D. Smith, Ashland, Kansas. Tire carrier. 1,628,538; May 10.
- Freeman, Soli, Chicago, Ill. Garage. 1,643,409; Sept. 27.
- Freeman, Walter A., South Pasadena, Calif. Smokers' receptacle. 1,644,245; Oct. 4.
- Freeman, Walter B., U. C. Haren, and F. P. Hartung, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making tire treads. 1,653,356; Dec. 20.
- Freeman, William. (See Gregory, Charles, assignor.)
- Freeman, William B. (See Davis, D. M., and Freeman.)
- Freeman, William H. (See Haffey, Matthew J., assignor.)
- Freer, Allen O., New York, N. Y. Package mold. 1,653,699; Dec. 27.
- Freer, Phelps M., Detroit, Mich. Apparatus for removing water, gasoline, and the like from lubricating oils. 1,648,172; Nov. 8.
- Freere, Phelps M., Detroit, Mich. Piston. 1,622,579; Mar. 29.
- Freese, Walter E., Tulare, Calif. Switch. 1,622,906; Mar. 29.
- Freet, Paul J. H., Columbus Grove, Ohio. Automatic hitch. 1,618,872; Feb. 22.
- Freese, Otis A., Joliet, Ill. Pressure-operated valve. 1,651,689; Dec. 6.
- Freiberg-Sirmall Company, The. (See Utz, Louis F., assignor.)
- Freiberg, Stanley B., Cincinnati, Ohio. Color printing. 1,626,522; Apr. 26.
- Freiberg, Theodore, Prescott, Ariz. Ore crusher. 1,632,124; June 14.
- Freilino, Secondo, Leechburg, Pa. Household food cutter. 1,638,991; Aug. 16.
- Freise, Albert M., Oakland, Calif. Well seat. 1,617,901; Feb. 15.
- Freise, Frederick W. (See Barsky, G., and Freise.)
- Freise, Henry F., Old Monroe, Mo. Corn-husking machine. 1,635,400; July 12.
- Freivogel, Ernest, assignor of one-half to R. A. Jackson, Ridgefield, Conn. Tire rim. 1,649,678; Nov. 15.
- Freivogel, Ernest, assignor of one-half to R. A. Jackson, Ridgefield, Conn. Combined tire rack and workbench. 1,649,679; Nov. 15.
- Frelin, Carl G., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Articulated car. 1,621,979; Mar. 22.
- Freman, John W., South Carlton, Australia. Furnace. 1,632,730; June 14.
- Fremon, Jules A., and A. S. De Haven, Leeper, Mo., assignors to A. A. Sheaffer Pen Company, Fort Madison, Iowa. Fountain-pen rack. 1,641,846; Sept. 6.
- Fremont, Albert, Paris, France. Stapling machine. 1,648,727; Nov. 8.
- French, Alfred W., Piqua, Ohio. Expressing apparatus. 1,648,477; Nov. 8.
- French Battery & Carbon Company. (See Baird, Frank T., assignor.)
- French Battery Company. (See Affholder, Clements S., assignor.)
- French Battery Company. (See Cirves, Frank H., assignor.)
- French Battery Company. (See Melsekoth, Edwin E., assignor.)
- French, Charles A., Columbus, Ohio. Steam-power plant. 1,617,586; Feb. 15.
- French, Charles A., and L. E. Goit, assignors to International Harvester Company, Chicago, Ill. Boiler regulator. 1,632,125; June 14.
- French, Clara B. (See French, Sherman, assignor.)
- French, Edwin P., Cleveland, Ohio. Combination household article. 1,616,315; Feb. 1.
- French, Frederick W., Oakland, Calif. Antiproof shelf. 1,625,412; Apr. 19.
- French, Frederick W., Oakland, Calif. Demountable rim. 1,639,991; Aug. 23.
- French, G. Watson, et al. (See Einfeldt, Ernest E., assignor.)
- French, George M., St. Joseph, Mich. Intake. 1,641,670; Sept. 6.
- French, Harold G., South Haven, Mich. Toy striking bag or the like. 1,637,561; Aug. 2.
- French, Harry F. (See Benner, R. C., and French.)
- French & Hecht. (See Einfeldt, Ernest E.)
- French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Electric switching apparatus. 1,614,115; Jan. 11.
- French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,632,592; June 14.
- French, James H., Northfield, Ohio. Ball rocketing and catching device. 1,615,266; Jan. 25.
- French, John W., and E. D. Chabaso, Wilson, Okla. Fire trap. 1,643,434; Aug. 9.
- French, Louis O., Milwaukee, Wis. Ignition device. 1,641,421; Sept. 6.
- French, Sherman, assignor of one-fourth to C. B. French, Portland, Oreg. Furnace. 1,620,883; Mar. 15.
- French, Thomas, Rumford, Me. Dust-laying spraying device. 1,628,458; May 10.
- Freng, Johannes, and E. Bergve, Oslo, Norway. Producing a disinfecting or cleansing spray for hygienic and medical purposes. 1,628,593; Apr. 19.
- Frengle, Frederick, Cotati, Calif. Adjustable brooder. 1,637,537; Aug. 2.
- Frengle, Frederick, Cotati, and F. D. Rohan, Petaluma, assignors to Pride of Petaluma Brooder Stove Company, Petaluma, Calif. Chicken hover. 1,626,251; Apr. 26.
- Frengle, Frederick, Cotati, and F. D. Rohan, assignors to F. D. Rohan and F. S. Conner, a Copartnership doing business under the firm name of Pride of Petaluma Brooder Stove Company, Petaluma, Calif. Chicken brooder. 1,627,279; May 3.
- Freni, Carmelo, Waterbury, Conn. Surfacing tool. 1,642,416; Sept. 13.
- Frère, Maurice P. C. (See Jacquemin, J. E. T., and Frère.)
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Inc., Philadelphia, Pa. Electric socket support and housing. 1,638,662; Aug. 9.
- Frese, Fredrick W., Spokane, Wash. Internal combustion engine. 1,624,404; Apr. 12.
- Freshman Chas., Co. Inc. (See Franklin, Albert W., assignor.)
- Fretts, Henry A., Sacramento, Calif. Trailer and power unit for soil pulverizers. 1,618,000; Feb. 15.
- Fretz-Moon Tube Company. (See Moon, John W., assignor.)
- Freudenberger, Sarah, Brooklyn, N. Y. Pile textile fabric. 1,620,340; Mar. 8.
- Freudenberger, Frederick, Philadelphia, Pa. Garment support. 1,654,418; Dec. 27.
- Freund, Alfred, St. Louis, Mo. Vehicle wheel. 1,654,367; Dec. 27.
- Freund, Cheri S., assignor to Federal Cement Tile Company, Chicago, Ill. Building tile or slab. 1,627,280; May 3.
- Freund, Edward, New York, N. Y. Warp prevention in boards or panels. 1,646,906; Oct. 25.
- Freund, Edward, Long Beach, N. Y. Producing ornamental effects on wood, glass, etc. 1,646,907; Oct. 25.
- Freund, Erwin O., assignor to Visking Corporation, Chicago, Ill. Preparing wiener sausages. 1,631,723; June 7.
- Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Matrix for typographical machines. 1,630,175; May 24.
- Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Matrix for typographical machines. 1,654,368; Dec. 27.
- Freund, Robert E., Denver, Colo. Dirigible light mounting. 1,631,480; June 7.
- Freund, Robert R., assignor to Shot-Lite Corporation of America, Denver, Colo. Lens supporting and retaining means. 1,622,437; Mar. 29.
- Freund, Robert L., Denver, Colo., assignor to Shot-Lite Corporation of America. Spotlight mounting. 1,625,413; Apr. 19.
- Freund, Saly, and B. Stauffer, Nuremberg, Germany. Goldbeater's foil. 1,621,502; Mar. 22.
- Freund, Zdenko, Newark, N. J., assignor to The Tench Stud & Gem. Des. 7,190; Jan. 25.
- Frey, George H., Jr., et al. (See Smith, Charles F., assignor.)
- Frewen, Edmond J., London, England. Constructing walls. 1,652,305; Dec. 13.
- Frey, Charles D., Charlotte, N. C. Combination guide. 1,630,320; May 24.
- Frey, Charles M. (See Hooton, William H., assignor.)
- Frey, Charles N. (See Heidebrandt, F. M., and Frey.)
- Frey, Henry. (See Daugert, P., Frey, and Dunleavy.)

- Frey, Karl, Ennetbaden, assignor to A. G. Brown, Boveri & Cie., Baden, Switzerland. Compressor apparatus. 1,635,318; July 12.
- Frey, Ralph E., Ambler, Pa., assignor to Ambler Asbestos Shingle, Slate and Sheathing Company. Fastener. 1,646,285; Oct. 18.
- Frey, Robert, Altoona, Pa. Trouser stretcher. 1,629,659; May 24.
- Frey, Sigmund, Los Angeles, Calif. Canteen set. 1,651,880; Dec. 6.
- Freydberg, Aaron and J. Marcus, New York, N. Y. Binding strip. 1,638,254; Aug. 9.
- Frey, Brassert & Company. (See Ebner, Alfred J., assignor.)
- Frey, Brassert & Company. (See Willcox, Frederick H., assignor.)
- Frey Engineering Company. (See Eaton, W., and Croton, assignors.)
- Frey Engineering Company. (See Fox, Gordon, assignor.)
- Frey Engineering Company. (See McIntosh, R. L., and Fox, assignors.)
- Frey Engineering Company. (See Willcox, Frederick H., assignor.)
- Freyer, John B., New Britain, Conn., assignor to Krisker's Manufacturing Company, Brooklyn, N. Y. Bathing-belt buckle. 1,648,015; Nov. 8.
- Freyinger, John B., New Britain, Conn., assignor to Krisker's Manufacturing Company, Brooklyn, N. Y. Snap hook. 1,648,016; Nov. 8.
- Frieder, August A. (See Burke, H. C., and Friberg.)
- Frick, Charles, Irvington, N. J. Revolvable metal-cutting stick. 1,617,801; Feb. 15.
- Frick, Chester A. (See Kaye, Samuel, assignor.)
- Frick, Chester A., assignor to Glascock Brothers Manufacturing Company, Muncie, Ind. Corrugating machine. 1,623,918; Apr. 5.
- Frick, Chester A., assignor to Glascock Brothers Mfg. Company, Muncie, Ind. Bottle refrigerator. 1,623,947; Apr. 5.
- Frick, Chester A., assignor to Glascock Brothers Manufacturing Company, Muncie, Ind. Guide for bottle refrigerators. 1,631,091; May 31.
- Frick, Chester A., assignor to Glascock Brothers Manufacturing Company, Muncie, Ind. Corrugated-sheet-bending machine. 1,642,657; Sept. 13.
- Frick, Chester A., assignor to Glascock Brothers Mfg. Company, Muncie, Ind. Refrigerator drain. 1,652,063; Dec. 13.
- Frick, Chester A., and R. W. Dwight, assignors to Glascock Brothers Manufacturing Company, Muncie, Ind. Automobile body. 1,623,946; Apr. 5.
- Frick Company. (See Buchler, L., and Small, assignors.)
- Frick Company. (See Small, N. M., and Buchler, assignors.)
- Frick Company. (See Small, Norman M., assignor.)
- Frick Company. (See Whitaker, C. L., and Middleton, assignors.)
- Frick, Frederick F. (See Laist, F., and Frick.)
- Frick, Frederick F. (See Larson, E. L., Frick, and Caro.)
- Frick, Henry H., Fricks, Pa. Power-transmitting means. 1,645,746; Oct. 18.
- Frick, Rudolph. (See Madison, John H., assignor.)
- Fricke, Leslie W. (See Booty, Philip C. P., assignor.)
- Frierker, Anthony, Lakewood, Ohio. Clasp. 1,621,008; Mar. 15.
- Frickey, Royal E., San Francisco, and A. S. Kalenborn, Redwood City, Calif. Engine controller for welding systems. 1,643,550; Sept. 27.
- Frickey, Royal E., San Francisco, and W. R. Layne, Oakland, Calif. Pumping system. 1,651,881; Dec. 6.
- Friction Power Corporation Limited. (See McPherson, Charles, assignor.)
- Friden, Carl M. F., Oakland, Calif. Motor vehicle and engine control. 1,618,586; Feb. 22.
- Friden, Carl M. F., Oakland, Calif. Calculating machine. 1,640,493; Aug. 30.
- Friden, Carl M. F., Oakland, Calif. Register dial. 1,643,551; Sept. 27.
- Friden, Carl M. F., Oakland, Calif. Calculating machine. 1,651,882; Dec. 6.
- Friden, Carl M. F., Piedmont, Calif. Calculating machine. 1,634,990; July 5.
- Friden, Carl M. F., Piedmont, Calif. Calculating machine. 1,643,710; Sept. 27.
- Friderichsen, Peter C. C., Independence, Mo. Nose tile. 73,124; July 26.
- Friderichsen, Peter C. C., Independence, Mo. Nose tile. 73,125; July 26.
- Frieder, Alfred L., Gibson City, Ill. Cultivator blade. 1,632,958; June 21.
- Fried, Edward B., et al. (See Morris, J. L., and Allen, assignors.)
- Fried, Joseph A., Flushing, assignor to Dubilier Condenser Corporation, New York, N. Y. Condenser. 1,619,201; Mar. 4.
- Fried, Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Bessler, August, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Bretling, Ernst, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Fry, Adolf, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Himmelsbach, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Jacob, Max, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Klingelhoffer, Reinhard, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Lauer, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Lorenz, Rudolf, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Pretzschner, Jakob, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Becker, Heinrich, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Becker, Heinrich, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Herkt, Ernst, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Prof. Wilhelm, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Louis, Martin, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Wenz, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft Germaniawerft. (See Reichenow, Conrad, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Born, Alfred, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Johannsen, Friedrich, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Ulrich, Georg, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Wieghardt, Paul, assignor.)
- Fried, Richard H., et al. (See Morris, J. L., and Allen, assignors.)
- Fried, William F., et al. (See Morris, J. L., and Allen, assignors.)
- Friedberger-Aaron Manufacturing Company. (See Haines, Joseph A., assignor.)
- Friedel, Otto B., Obersachsenberg, Germany. Musical instrument. 1,623,175; Apr. 5.
- Frieder, Leonard P. (See Roe, F. O., and Frieder.)
- Frieder, Leonard P., New York, N. Y., and P. S. Huntley and J. W. Hollas, assignors to National Spun Silk Co., Inc., New Bedford, Mass. Drawing and spinning machine. 1,614,465; Jan. 18.
- Friedl, Hugh J., Buffalo, N. Y. Transmission or brake band. 1,643,946; Oct. 4.
- Friedlaender, Isidor L., Detroit, Mich. Vehicle shipping jack or bracket. Re16,698; Aug. 9.
- Friedlaender, Isidor L., Detroit, Mich. Box for transporting motor vehicles. 1,614,724; Jan. 18.
- Friedlaender, Isidor L., and S. J. Marx, Detroit, Mich. Anti-slip, friction-anchoring device for flat cars. 1,620,758; Mar. 15.
- Friedland, Moshe, Brooklyn, assignor of one-third to S. Berlin, Brooklyn, and one-third to Tamen Brothers, New York, N. Y. Automobile signals. 1,614,427; Jan. 11.
- Friedman, Arthur, New York, N. Y. Sanitary appliance. 1,616,616; Feb. 8.
- Friedman, Benjamin, New York, N. Y. Needle mounting for hypodermic syringes. 1,624,327; Apr. 12.
- Friedman, Bernhardt, New Orleans, La. Novelty box. Des. 72,943; June 28.
- Friedman, David, Rochester, N. Y. Station indicator. 1,653,455; Dec. 20.
- Friedman, Harry, et al. (See Castleton, Eldred O., assignor.)
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,869; Jan. 4.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,867; Jan. 18.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,868; Jan. 18.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric lighting fixture. Des. 71,869; Jan. 18.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,864; Feb. 8.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,965; Feb. 8.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,966; Feb. 8.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,967; Feb. 8.
- Friedman, Harry, assignor to Architectural Iron Works, Los Angeles, Calif. Electric-lighting fixture. Des. 71,968; Feb. 8.
- Friedman, Isaac W., New York, N. Y. Syringe. 1,632,163; Dec. 20.
- Friedman, Jacob. (See Scheinfeld, Morris, assignor.)
- Friedman, Jacob E., New York, N. Y. Display stand. Des. 73,693; Oct. 25.
- Friedman, Louis, New York, N. Y. Bow tie. 1,639,767; Aug. 23.

- Friedman, Philip B., Winnipeg, Manitoba, Canada. Adjustable chair. 1,640,494; Aug. 30.
- Friedman, Samuel, Brooklyn, N. Y. Fur stretching and nailing device. 1,628,588; May 10.
- Friedman, William, Princeville, Ill. Combined window stop and weather strip. 1,626,674; May 3.
- Friedman, William, New York, N. Y. Toilet article. 1,626,927; May 3.
- Friedman, William, New York, N. Y. Toilet accessory. 1,630,566; May 31.
- Friedman, William, New York, N. Y. Combination match packet and pad. 1,634,712; July 5.
- Friedman, William, assignor to J. W. D. H., A. F., and M. C. Arnold, copartners, doing business as F. R. Arnold & Company, New York, N. Y. Combination packet. 1,641,263; Sept. 6.
- Friedman, William, New York, N. Y. Match packet. 1,650,703; Nov. 29.
- Friedman, William, New York, N. Y. Toilet article. 1,652,402; Dec. 13.
- Friedmann Brothers. (See Friedmann, Hugo, assignor.)
- Friedmann, Hugo, assignor to Friedmann Brothers, New York, N. Y. Device for transporting the sick and wounded. 1,618,873; Feb. 22.
- Friedmann, Louis, and H. Deutsch, Vienna, Austria. Exhaust-steam injector. 1,653,954; Dec. 27.
- Friedrich Deckel Fabrik für Präzisionsmechanik und Maschinenbau. (See Barren, Lorenz K., assignor.)
- Friedrich, Edward, San Antonio, Tex. Refrigerator display case. Des. 73,253; Aug. 18.
- Friedrich, Ernest G., Cincinnati, Ohio. Toilet. 1,630,932; May 31.
- Friedrich, Ernst, assignor to the Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Electric lighting of automobile vehicles. 1,649,680; Nov. 15.
- Friedrich, Gustav, Pinkafeld, Austria, and E. Reich, Budapest, Hungary. Knotting and weaving loom. 1,651,812; Dec. 6.
- Friedrich, Karl, Breslau, Germany. Production of a cold glaze upon building material, such as concrete, sandstone, clay, brickwork, and the like. 1,636,860; July 26.
- Friedrich, Kurt K., Annaberg im Erzgebirge, Germany. Collapsible lantern. 1,620,640; Mar. 15.
- Friedrich, Kurt K., Annaberg, Germany. Foldable lantern. 1,653,206; Dec. 20.
- Friedrich, Robert F., assignor to Weber & Friedrich, Inc., Philadelphia, Pa. Stocking. Des. 72,365; Apr. 5.
- Friedrich, Walter, Niederschonevide, Germany, assignor to General Electric Company. Lead-cadmium alloy. 1,645,098; Oct. 11.
- Friedrich, Wilhelm, Berlin-Lankwitz, Germany. Dry fire extinguisher. 1,638,729; Aug. 9.
- Friedrichs, Wilhelm, Berlin, Germany. Mechanism for feeding the letters on other mail to prepayment machine. 1,637,253; July 26.
- Friedrichs, Gustav, Madison, N. J. Collapsible umbrella. 1,642,336; Sept. 13.
- Friel, John J., Tulsa, Okla. Oil saver. 1,623,403; Apr. 5.
- Frieland, Harry, Newark, N. J., assignor to Vogue Brassiere Mfg. Co. Combination abdominal support and brassiere. 1,652,197; Dec. 13.
- Frieman, Jacob G., St. Paul, Minn., and W. A. Rankin, Oak Park, Ill. Direction-signal device for vehicle. 1,615,791; Jan. 25.
- Friend, Ott, New York, N. Y., and G. E. Dustin, Woodcliff, N. J., assignors to American Telephone and Telegraph Company. Automatic telephone system. 1,639,799; Aug. 23.
- Friend, Roydon L., assignor to The P. H. & F. M. Roots Company, Connerville, Ind. Cupola charger. 1,618,181; Feb. 22.
- Friendly, Herbert M., Portland, Ore. Telephone system. 1,614,293; Jan. 11.
- Friendly, Herbert M., Portland, Ore. Automatic telephone system. 1,628,359; May 10.
- Friendly, Herbert M., Chicago, Ill. Telephone system. 1,627,843; May 10.
- Friendly, Herbert M., Chicago, Ill. Automatic telephone system. 1,627,844; May 10.
- Friendly, Herbert M., Chicago, Ill. Automatic telephone system. 1,628,858; May 10.
- Frierson, Carrie B., Cleveland, Miss. Headlight attachment. 1,639,600; Aug. 16.
- Fries, Jalmar W. G., assignor to S. F. Bowser and Company, Incorporated, Fort Wayne, Ind. Meter. 1,624,095; Apr. 12.
- Fries, William P., Cynwyd, Pa. Dustpan. 1,645,806; Oct. 18.
- Friesen, Jacob A., Winkler, Manitoba, Canada. Governor mechanism. 1,614,982; Jan. 18.
- Friesner, Jesse L., Lima, Ohio. Bottle holder. 1,634,747; July 5.
- Friet, Fred L. and J. Parkers Prairie, Minn. Aluminum boat. 1,625,598; Apr. 19.
- Friet, Joseph. (See Friet, Fred L. and J.)
- Frieze, William C. (See Bennett, Guy I., assignor.)
- Frlis, Harald T., Red Bank, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio signaling apparatus. 1,647,349; Nov. 1.
- Frikke, Nis C., Esbjerg, Denmark. Steering-gear brake. 1,635,210; July 19.
- Frillick, James V. (See McDonald, F., jr. and Frillick.)
- Frilli, Ugo. (See Pintacuda, C., and Frilli.)
- Frink, George M., Camden, N. J. Artificial foot. 1,628,498; May 10.
- Frink, I. P., Inc. (See Spencer, William H., assignor.)
- Frink, Melvin L., Wellston, assignor of one-third to W. Kriz and two-thirds to F. D. Reynolds, St. Louis, Mo. Shock absorber and equalizer. 1,618,703; Feb. 22.
- Frisk, Ray A., Detroit, Mich., assignor to White Products Company, Chicago, Ill. Hood latch. 1,647,128; Nov. 1.
- Friskie, Russell A., Middletown, assignor to The J. & E. Stevens Company, Cromwell, Conn. Toy pistol. 1,652,666; Dec. 13.
- Friskie, William A., Minneapolis, Minn. Candy box. 1,653,456; Dec. 20.
- Frischmuth, Ernst, Siemensstadt, near Berlin, Germany. Key for combination locks. 1,642,725; Sept. 20.
- Frisk, Frederick, San Francisco, Calif. Golf-bag carrier. 1,628,771; May 17.
- Frisk, Oscar, New York, N. Y. Stepladder. 1,648,844; Nov. 8.
- Frist, Archie C. (See Frist, Robert P., assignor.)
- Frist, Robert P., assignor of one-half to A. C. Frist. Long Beach, Calif. Fruit stemmer and cleaner. 1,617,105; Feb. 8.
- Fristad, Carl G., Mandan, N. Dak. Sickle holder. 1,623,536; Apr. 5.
- Fritch, James E. (See Fritch, Oscar G. and J. E.)
- Fritch, Oscar G. and J. E., Ashland, Nebr. Greenhouse suspension frame. 1,619,781; Mar. 1.
- Fritchey, Franklin W., Walbrook, Md., assignor to Franklin Railway Supply Company. Draft appliance. 1,648,894; Nov. 15.
- Frith, Arnold J., Selma, Ala. 1,622,999; Mar. 29.
- Fritsch, August, Engelfeld, Saskatchewan, Canada. Combustion cutting and road-scraping machine. 1,635,211; July 12.
- Fritsch, Jules, Paris, France. Landing gear. 1,633,174; June 21.
- Fritts, Edwin C., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,638,569; Aug. 9.
- Fritts, George E., Harbor City, Calif. Ladder-climbing device. 1,630,484; May 31.
- Fritts, George E., Taft, Calif., assignor, by mesne assignments, to F. A. and D. Keefover. Sucker-rod hanger. 1,627,733; May 10.
- Fritz, Adolf. (See Siegert, Richard, assignor.)
- Fritz, Edward C. (See Hill, Frank A., assignor.)
- Fritz, Emil F. L., Chicago, Ill. Loading device. 1,619,610; Mar. 1.
- Fritz, George, Cincinnati, Ohio. Sectional bin. 1,627,084; May 3.
- Fritz, George, Waterbury, Conn. Reamer. 1,645,696; Oct. 18.
- Fritz, Roy D. (See Hoover, W. C., Fritz, and Cahill.)
- Fritz, Roy D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing apparatus. 1,647,040; Oct. 25.
- Fritz, Roy D., and C. C. Cooke, Columbus, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for vulcanizing under fluid pressure. 1,622,438; Mar. 29.
- Fritz, Roy D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing apparatus. 1,651,800; June 7.
- Fritz, Roy D., and C. C. Cooke, Columbus, Ohio. Repairing metal beams. 1,648,891; Nov. 8.
- Fritz, William E., Indianapolis, Nebr. Feed cutter and grinder. 1,634,026; June 28.
- Fritzel, Hugo, Hamburg, Germany. Guide body for reaction rotors. 1,640,891; Aug. 30.
- Fritzeys, John C., Parsons, Ill. Aluminum dinner pail. 1,637,144; July 26.
- Fritzsche, Carl E., Fort Fairfield, Me. Ice-cream-cone wrapper and carrier. 1,628,718; May 17.
- Fritzsche, Hermann, E. Krummenacher, H. Gubler, and O. Kaiser, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Intermediate product for the synthesis of dyes and making same. 1,625,530; Apr. 19.
- Fritzsche, Hermann, E. Krummenacher, H. Gubler, and O. Kaiser, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Intermediate product for the synthesis of azo dyes and making same. 1,625,531; Apr. 19.
- Fritzsche, Hermann, E. Krummenacher, H. Gubler, and O. Kaiser, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Making intermediate products for the manufacture of azo dyes. 1,625,532; Apr. 19.
- Fritzsche, Hermann, E. Krummenacher, H. Gubler, and O. Kaiser, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Intermediate product for the synthesis of azo dyes and making same. 1,625,533; Apr. 19.
- Fritz, Clyde N., Baltimore, Md. Compacting earth. 1,650,827; Nov. 29.
- Frunk, Frank, Columbus, Tex. Combined stock guard and pass way. 1,616,361; Feb. 1.
- Frunk, Frank, Garwood, Tex. Combined stock guard and passway. 1,653,357; Dec. 20.
- Froehlich, William E., Columbus, Kans. House-flue jacket. 1,639,558; Aug. 16.
- Froelich, Clarence H. (See Van Essen, P. D., and Froelich.)

- Froendt, George, Milford, Iowa. Watering device. 1,638,194; Aug. 9.
- Froesch, Charles. (See Masury, A. F., and Froesch.)
- Froesch, Charles, assignor to International Motor Company, New York, N. Y. Brake mechanism. 1,614,835; Jan. 18.
- Froesch, Charles, assignor to International Motor Company, New York, N. Y. Drive for vehicles. 1,616,617; Feb. 8.
- Froesch, Charles, assignor to International Motor Company, New York, N. Y. Flexible coupling. 1,631,196; June 7.
- Froesch, Charles, assignor to International Motor Company, New York, N. Y. Bearing. 1,633,580; June 28.
- Froesch, Charles, assignor to International Motor Company, New York, N. Y. Flexible vehicle body. 1,650,203; Nov. 22.
- Frog Switch and Manufacturing Company. (See Whitman, George W., assignor.)
- Froger, Henricus, The Hague, assignor to the Firm of Commanditaire Vennootschap Froger's Electriciteits Maatschappij, Arnhem, Netherlands. Apparatus for indicating variations of immersion depth of ships and the weight of ships' cargoes. 1,648,882; Nov. 8.
- Fröhlich, Fritz, Breslau, Germany. Buttonhole-sewing apparatus. 1,639,405; Aug. 16.
- Fröhlich, Walter, Berlin-Wilmersdorf, Germany. Water closet. 1,642,920; Dec. 27.
- Frohn, Leonard J., Lynbrook, N. Y. Paper-feeding machine. 1,618,182; Feb. 22.
- Frölich, Ernst, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Hannauer Car Retarder Company, Chicago, Ill. Fluid-pressure regulator. 1,635,989; July 19.
- Frolking, Stanley A., Cleveland, assignor to Brilliant Glass Products, Inc., Brilliant, Ohio. Bathroom fixture. Des. 72,366; Apr. 5.
- Frolking, Stanley A., Cleveland, assignor to Brilliant Glass Products, Inc., Brilliant, Ohio. Bathroom fixture. Des. 72,367; Apr. 5.
- From, Owen C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,616,182; Feb. 1.
- Frommer, Adolph, Corvallis, Oreg. Combination harrow and smoothing machine. 1,615,976; Feb. 15.
- Fromm, Karl. (See Von Karman, T., and Fromm.)
- Fromy, Emile M. F. (See Brillouin, L. N., and Fromy.)
- Fron, Robert, assignor to J. T. Cosgrove, Kansas City, Mo. Telephone muffler and voice control. 1,618,375; Feb. 22.
- Fronek, Lester H., Salt Lake City, Utah. Loud-speaker unit. 1,646,451; Oct. 25.
- Fronrath, Stephen, Detroit, Mich. Door-holding device. 1,634,070; June 28.
- Frontz, Robert O., assignor of one-half to G. A. Melson, Cincinnati, Pa. Antiskid chain for automobiles. 1,636,990; July 26.
- Frood, Herbert, assignor to Perodo Limited, Chapel-en-le-Frith, England. Stair tread. 1,624,405; Apr. 12.
- Frossard, John A., Pepperell, and G. Lamoureux, Worcester, Mass. Doctor-operating mechanism for calculating machines. 1,642,917; Oct. 11.
- Frost, C. Wallace, Great Falls, Mont. Motion-picture machine. 1,613,562; Jan. 4.
- Frost, Harry W., Detroit, Mich. Spring suspension for railway cars. 1,633,011; June 21.
- Frost, John G. G., assignor to The National Smelting Company, Cleveland, Ohio. Treating aluminum dross and the like. 1,615,009; Jan. 18.
- Frost, John G. G., assignor to The National Smelting Company, Cleveland, Ohio. Recovering aluminum from oily metallic mixtures and the like. 1,646,239; Oct. 18.
- Frost, John G. G., assignor to The National Smelting Company, Cleveland, Ohio. Treating aluminum screenings, etc. 1,648,262; Nov. 8.
- Frost, John G. G., assignor to The National Smelting Company, Cleveland, Ohio. Recovering aluminum from aluminum screenings and the like. 1,648,263; Nov. 8.
- Frost, D. Kelms, D. Swindon, England. Card game. 1,622,638; Mar. 29.
- Frost, Leslie E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wood strain insulator. 1,654,286; Dec. 27.
- Frost Manufacturing Company, The. (See Frost, Walter J., assignor.)
- Frost Manufacturing Company. (See Theelen, Oscar H., assignor.)
- Frost, Samuel, New York, N. Y. Electric chandelier. Des. 72,314; Mar. 29.
- Frost, Sylvester P., Dallas, Tex. Scraper. 1,643,336; Dec. 27.
- Frost, Thomas H., and P. Heymans, Brookline, Mass. Dynamometer gauge. 1,623,238; Apr. 5.
- Frost, Walter B., assignor of one-eighth to M. E. Hunt and three-eighths to W. E. Thurlow, Auburn, Me. Police signal system. 1,631,368; June 7.
- Frost, Walter J., assignor to The Frost Manufacturing Company, Kenosha, Wis. Adjustable flange on overflow connection for drains. 1,651,883; Dec. 6.
- Frost, William, London, England. Apparatus for testing motor vehicles. 1,650,504; Nov. 22.
- Frost, Illa Company, The. (See Richmond, Francis A., assignor.)
- Frostman, Carl E., Seattle, Wash. Furniture cleaning and polishing composition. 1,630,699; May 31.
- Fruchtman, William. (See Roettges, Frederick W., assignor.)
- Frue, Alexander C., Detroit, Mich. Device for operating switches. 1,622,439; Mar. 29.
- Fruehauf, Harvey C. (See Schnelder, C. L., and Fruehauf.)
- Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
- Fruehauf Trailer Company. (See Schnelder, C. L., and Fruehauf, assignors.)
- Fruehauf, Walker Company. (See Luff, Henry J., assignor.)
- Fruitema, Henry A., assignor to The Wolf Company, Chambersburg, Pa. Advertising or sample package. 1,633,444; June 21.
- Frulla, Pacifico, Memphis, Tenn. Railroad gate. 1,625,937; Apr. 26.
- Frummiller, Joseph, Pullman, assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible pipe connection. 1,617,587; Feb. 15.
- Frushour, James R., Andrews, Ind. Automobile heater. 1,623,963; Apr. 12.
- Fry, Adolf, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Steel alloy. 1,649,398; Nov. 15.
- Fry, Clayton E., Newark, N. J., assignor to The H. A. Wilson Company. Thermostatic metal. 1,643,809; Dec. 27.
- Fry, H. C., Glass Company. (See Brenner, Ralph F., assignor.)
- Fry, John F. (See Fry, William H., assignor.)
- Fry, John J., Logan City, Utah. Swivel. 1,645,747; Oct. 18.
- Fry, John W., Struthers, Ohio. Multiple spring. 1,643,840; Sept. 27.
- Fry, Sarah E. (See Gildea, C. W., and Fry.)
- Fry, Walter L., New York, N. Y. Brake-testing device. 1,619,714; Mar. 1.
- Fry, Walter L., Scarsdale, N. Y. Seat-back slip cover. 1,635,691; Dec. 20.
- Fry, William H. (See Gildea, C. W., and Fry.)
- Fry, William H., assignor of one-fourth to J. F. Fry, Vass, N. C. Leveling apparatus for spindles in spinning frames. 1,616,686; Feb. 8.
- Fry, Charles M., Amity, Oreg., and J. F. Copp, Hawthorne, Calif. Liquid heating and dispensing mechanism. 1,646,614; Oct. 25.
- Frye, Ray F., Cleveland, Ohio. Automatic lawn sprinkler. 1,628,041; May 10.
- Frye, Robert F., Marlboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material from boots and shoes. 1,633,855; June 28.
- Frye, Robert R., Worcester, Mass. Automatic bottle cap. 1,637,562; Aug. 2.
- Frye, William A., Kansas City, and F. Heady, Coffeyville, Kans., assignors to Sinclair Refining Company, New York, N. Y. Placid device. 1,625,309; Apr. 19.
- Fryer, John W., St. Louis, Mo. Spring. 1,622,711; Mar. 29.
- Fryer, John W., St. Louis, Mo. Combination furniture. 1,632,790; July 19.
- Fryer, Joseph H., Toronto, Ontario, Canada. Furnace grate. 1,634,991; July 5.
- Fryer, Richard, Humboldt, Saskatchewan, Canada. Puzzle. 1,630,530; May 31.
- Frykman, Victor L. (See Lucarelle, J. M., and Frykman.)
- Fryman, Nancy, Indianapolis, Ind. Fruit picker. 1,626,402; Apr. 26.
- Fuchs, David G., Pittsburgh, Pa. Spark plug. 1,624,785; Apr. 12.
- Fuchs, Hugo, New York, N. Y., assignor of one-half to G. S. Scherbaum, Jackson Heights, N. J. Metal-bending machine. 1,630,064; May 24.
- Fuchs, Siegfried, Brooklyn, N. Y. Window cleaner. 1,613,319; Jan. 4.
- Fuch, Frank A., Pittsburgh, Pa. Gear-shift-control apparatus. 1,638,802; Aug. 9.
- Fuehl, Benjamin A., Louisville, Ky. Display card. 1,636,991; July 26.
- Fuerborn, Henry R., et al. (See Flori, Jules L., assignor.)
- Fuerth, Sydney W., Newark, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling. 1,617,386; Feb. 15.
- Fuettner, Otto F., Huntington Beach, assignor, by mesne assignments, to M. E. Farlow, Van Nuys, and J. B. Coleman, San Francisco, Calif. Fire connection. 1,648,392; Nov. 8.
- Fuhr, Rudolf. (See Brecht, E., and Fuigmann.)
- Fuhrbort, Percy C., Fremont, Nebr. Figure wheeled toy. 1,649,519; Nov. 15.
- Fuhrer, Frieda E., Richmond, Va. Ornamented fabric. 1,633,680; June 28.
- Fukunori, Okichi, Tokyo, Japan. X-ray tube. 1,621,926; Mar. 22.
- Fujita, Nobuchika. (See Takamine, J., Jr., and Fujita.)
- Fukuyama, Keikichi, Los Angeles, Calif. Electrotherapeutic apparatus. 1,615,508; Jan. 25.
- Fukuyama, Keikichi, Los Angeles, Calif. Heat applicator and electrode. 1,618,526; Feb. 22.
- Fulcher, Gordon S., assignor to Corning Glass Works, Corning, N. Y. Cast refractory article and making the same. 1,615,750; Jan. 25.

- Fulcher, Gordon S., assignor to Corning Glass Works, Corning, N. Y. Cast refractory product. 1,615,751; Jan. 25.
- Fulcher Pulp Bottle Company. (See Lundgren, Harry, assignor.)
- Fuld, Geurider. (See Fuld, Ludwig, assignor.)
- Fuld, Ludwig, assignor to Gebrüder Fuld, Nuremberg, Bavaria, Germany. Shaving brush. Des. 73,782; Nov. 8.
- Fuld, William A., Baltimore, Md. Toy. 1,654,327; Dec. 27.
- Fulda, Edward, New York, N. Y. Polishing device. 1,638,570; Aug. 9.
- Fulenwider, Harry. (See Fulenwider, Jesse and H. Robinson, and Norris, assignors.)
- Fulenwider, Harry and J., Savannah, Ga. Holding device for chisels. 1,618,077; Feb. 15.
- Fulenwider, Jesse. (See Fulenwider, Harry and J.)
- Fulenwider, Jesse and H., and E. W. Robinson and H. S. Norris Savannah, Ga., assignors to H. and J. Fulenwider. Ridge-cap-forming machine. 1,636,298; July 19.
- Fulenwider, Jesse and H., E. W. Robinson, and H. Norris, assignors to H. and J. Fulenwider, Savannah, Ga. Lock-roofing-forming machine. 1,642,650; Sept. 13.
- Fulghum, Benjamin W. et al. (See Schumacher, Robert H., assignor.)
- Fulghum, Edgar W., et al. (See Schumacher, Robert H., assignor.)
- Fulgora, Fred, assignor of one-half to J. N. McGrath, Jr., Pittsburgh, Pa. High-frequency spark plug. 1,614,885; Jan. 18.
- Fulke, Dorothy H., et al. (See Fulke, Frank L., assignor.)
- Fulke, Frank L., Terre Haute, Ind., assignor of one-half to H. C. Prox and one-half to D. H. Fulke. Mining-machine chain. 1,650,566; Nov. 22.
- Fulkerson, James C., Kansas City, Mo. Vaporizer for explosive engines. 1,636,470; July 19.
- Fulkerson, Nettie R., Fallon, Nev. Cake pan. 1,624,941; Apr. 19.
- Fulkerson, William C., Buechel, Ky. Pedal attachment. 1,638,927; Aug. 16.
- Fulks, Eldridge B., assignor to The American Creosoting Company, Louisville, Ky. Preservatively treating woods. 1,652,109; Dec. 6.
- Fullerton, G. M., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for assembling parts. 1,642,771; Sept. 20.
- Fullenlove, McClellan C., assignor of one-half to P. Jacob, Toledo, Ohio. Lock mechanism. 1,633,087; June 21.
- Fuller, Bert E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-controlling apparatus. 1,640,542; Aug. 30.
- Fuller Brush Company, The. (See Avis, Samuel W., assignor.)
- Fuller Brush Company, The. (See Cave, Henry, assignor.)
- Fuller Brush Company, The. (See Curran, John B., assignor.)
- Fuller Brush Company, The. (See Hickson, Charles A., assignor.)
- Fuller Brush Company, The. (See Sargent, Edmund S., assignor.)
- Fuller Brush Company, The. (See Van Veen, Anton, assignor.)
- Fuller Brush Company, The. (See Van Veen, A., and Matteson, assignors.)
- Fuller, Charles H., Portland, Oreg. Davit. 1,613,030; Jan. 4.
- Fuller, Claud E., New York, N. Y. Storage conveyer. 1,642,992; Sept. 20.
- Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Portable scoving. Re16,634; May 24.
- Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Locking device for lifting forks. 1,649,843; Nov. 15.
- Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Shrinkage-measuring device. 1,651,813; Dec. 6.
- Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Burning brick. 1,651,814; Dec. 6.
- Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Building truss. 1,654,480; Dec. 27.
- Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Kiln bottom. 1,654,481; Dec. 27.
- Fuller, Frederick B. (See Smith, E. L., and Fuller.)
- Fuller, Frederick L., Ilion, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,623,722; Apr. 5.
- Fuller, Frederick L., Bridgeport, Conn., and W. H. Robertson, Dayton, Ohio, assignors, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash register. 1,619,664; Mar. 1.
- Fuller, Glia R., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,640,186; Aug. 23.
- Fuller, Harry M., Salt Lake City, Utah. Spark-plug intensifier. 1,614,951; Jan. 18.
- Fuller, Henry C., Washington, D. C. Medicinal product. 1,627,963; May 10.
- Fuller, James H., Columbus, Ohio. Aiding the sorting of documents. 1,643,841; Sept. 27.
- Fuller, James W. (See Kinyon, Alonzo G., assignor.)
- Fuller-Lehigh Company. (See Collins, Harry R., assignor.)
- Fuller Lehigh Company. (See McCrae, George, assignor.)
- Fuller Lehigh Company. (See Wood, Walter D., assignor.)
- Fuller, Leroy F. (See Hesslink, William, assignor.)
- Fuller, Oliver R. (See Crocker, Elmer S., assignor.)
- Fuller, Omar G., Saginaw, Mich. Producing display forms. 1,613,989; Jan. 11.
- Fuller, Orrie E., Lamont, Iowa. Gambrel. 1,622,102; Mar. 22.
- Fuller, Perley H., Auburn, Me., assignor, by mesne assignments, to The Basic Manufacturing Company, Chicago, Ill. Lubricant-exPELLing cup. 1,645,902; Oct. 13.
- Fuller, Peter H., New York, N. Y. Sound-amplifying device. 1,614,983; Jan. 18.
- Fuller, Richard B. (See Hewlett, J. M., and Fuller.)
- Fuller, Richard B., Lawrence, N. Y., assignor to Stockade Building System, Inc. Mold for building blocks and process of molding. 1,634,900; July 5.
- Fuller, Truman S., Schenectady, N. Y., assignor to General Electric Company, Nickel alloy. 1,623,948; Apr. 5.
- Fuller, Truman S., Schenectady, N. Y., assignor to General Electric Company. Resistance alloy. 1,645,099; Oct. 11.
- Fuller, Truman S., and N. H. Adams, Schenectady, N. Y., assignors to General Electric Company. Thermoelectric generator. 1,618,755; Feb. 22.
- Fuller, W. P., & Co. (See Kern, Eugene F., assignor.)
- Fullerton, Clarence A., New York, N. Y. Display sign. 1,615,449; Jan. 25.
- Fullerton, Herbert S., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Work holder. 1,619,340; Mar. 1.
- Fullgraf, Frank G., New York, N. Y. Display device. 1,620,533; Mar. 8.
- Fulllove, John A., Market Harborough, England. Machine for casting for boxes and other hollow metal articles. 1,633,038; June 21.
- Fullington, William H., Cleveland, Ohio. Rope-making machine. 1,652,111; Dec. 6.
- Fullington, William H., assignor to K. J. Riddell, Cleveland, Ohio. Crucible. 1,652,111; Dec. 6.
- Fullins, George A., assignor of one-half to G. W. Leitch, Milwaukee, Wis. Bottle-capping machine. 1,649,459; Nov. 15.
- Fulper, John W., Annandale, N. J. Making and structure of gears. 1,641,967; Sept. 13.
- Fulper, William E., Birmingham, N. J. Statuette or similar article. Dec. 72,605; May 10.
- Fulton Brick Works. (See Reams, Joseph A., assignor.)
- Fulton Company, The. (See Giesler, Jean V., assignor.)
- Fulton Company, The. (See Kinnard, James A., assignor.)
- Fulton Iron Works Company. (See Hildebrand, Reinhard, assignor.)
- Fulton, James O., Toronto, Ontario, Canada, assignor to The John C. King Lumber Company, Cleveland, Ohio. Hardwood-block flooring. 1,622,103; Mar. 22.
- Fulton, James O., Toronto, Ontario, Canada, assignor to The John C. King Lumber Company, Cleveland, Ohio. Block flooring and making the same. 1,622,104; Mar. 22.
- Fulton, Loyd R., Los Angeles, Calif. Auto lock. 1,634,089; June 28.
- Fulton, Lyle H., Nashville, Tenn. Switch-point protector. 1,649,994; Nov. 22.
- Fulton, Nell, New York, N. Y. Spitless split-curl hair curlers. 1,615,692; Jan. 25.
- Fulton, Nell, New York, N. Y. Ironing spring. 1,647,790; Nov.
- Fulton Sylphon Company, The. (See Carson, William W., Jr., assignor.)
- Fulton Sylphon Company, The. (See Fulton, Weston M., assignor.)
- Fulton Sylphon Company, The. (See Giesler, Jean V., assignor.)
- Fulton Sylphon Company, The. (See Reeder, Frank C., assignor.)
- Fulton, Weston M., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Packless valve. 1,644,775; Oct. 11.
- Fulton, Weston M., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Packless valve. 1,644,825; Oct. 11.
- Fulton, Weston M., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Receptacle for discharging fluids. 1,647,219; Nov. 1.
- Fulton, Weston M., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Tubular corrugated wall and making the same. 1,648,046; Nov. 8.
- Fulton, William H., Irvington, N. J., assignor, by mesne assignments, to Titeflex Metal Hose Co. Hose construction. 1,651,022; Nov. 29.
- Fulweiler, John E., Moylan, Pa. Grate. 1,635,932; July 12.
- Fulweiler, Walter H., Wallingford, and C. W. Jordan, Norwood, assignors to The U. G. I. Contracting Company, Philadelphia, Pa. Purifying gas. 1,632,758; June 14.
- Funchon, Daniel C., Denver, Colo. Vehicle-operated gate. 1,617,680; Feb. 15.

- Funderburk, Otis C., Boston, Mass. Valve for internal-combustion engines. 1,623,176; Apr. 5.
- Funderburk, Otis C., Boston, Mass. Valve for internal-combustion engines. 1,623,177; Apr. 5.
- Funderburk, Otis H., assignor to The Funderm Hoist and Shovel Company, Lima, Ohio. Combined clutch and drum and mounting therefor. 1,652,240; Dec. 13.
- Funderm Hoist and Shovel Company, The. (See Funderm, Otis H., assignor.)
- Funk, Casimir, and H. E. Dubin, assignors, for mesne assignments, to H. A. Metz Laboratories, Inc., New York, N. Y. Obtaining from cod-liver oil a highly concentrated substance rich in antirachitic and antixerophthalmic vitamins and the product thereof. 1,628,074; May 17.
- Funk, Casimir, and H. E. Dubin, assignors, for mesne assignments, to H. A. Metz Laboratories, Inc., New York, N. Y. Obtaining vitamins and product. 1,649,520; Nov. 15.
- Funk, Charles C., Brooklyn, and A. Boehm, New York, N. Y. Mechanical radiator ornament for vehicles. 1,652,775; Dec. 13.
- Funk, Charles J., assignor to The Wahl Company, Chicago, Ill. Pen. 1,613,811; Jan. 11.
- Funk, George C., Brookline, Mass. Ice-skating rink. 1,634,938; July 5.
- Funk, George C., Brookline, and M. J. Palson, Gloucester, Mass., by G. C. Funk, joint inventor and assignee of N. J. Palson, Skating rink floor. Re 1,654,843; Feb. 8.
- Funk, John E., Stockton, Calif. Hoisting-drum mechanism. 1,651,760; Dec. 6.
- Funke, Albert. (See Wagner, H., and Funke.)
- Funnell, Harry M., New Market, N. J. Universal joint. 1,649,460; Nov. 15.
- Fuquay, Benjamin H., Durham, N. C. Planter. 1,618,329; Feb. 22.
- Fur Guide Machine Corporation. (See Ross, Harry, assignor.)
- Furber, Frederick M., deceased; S. R. Cutler, administrator, Revere, Mass. Automobile lock. 1,617,840; Feb. 15.
- Furber, Frederick M., deceased, Revere, Mass.; S. R. Cutler, administrator. Oil cup. 1,640,495; Aug. 30.
- Furber, Frederick M., deceased; S. R. Cutler, administrator, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Burnishing machine. 1,618,183; Feb. 22.
- Furber, Frederick M., deceased, Revere, Mass.; S. R. Cutler, administrator, assignor to C. A. Phippenhag, Chicago, and J. F. Raleigh, River Forest, Ill. Temperature-controlling apparatus for internal-combustion engines. 1,621,064; Mar. 15.
- Furber, Frederick M., deceased, Revere, Mass.; S. R. Cutler, administrator, assignor to C. A. Phippenhag, Chicago, and J. F. Raleigh, River Forest, Ill. Temperature-controlling apparatus for internal-combustion engines. 1,621,065; Mar. 15.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. 1,650,119; Nov. 22.
- Furber, James B., Linden, N. J., and K. L. Rankin, New York, N. Y. Plotting device. 1,633,402; June 21.
- Furbish, Frank R., New York, N. Y., assignor to The Filter Sack Manufacturing Co., Cleveland, Ohio. Filter-sack cloth. 1,649,822; Nov. 22.
- Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Granitville, Mass. Conveyor chain. 1,614,786; Jan. 18.
- Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Granitville, Mass. Press roll for wool washers and the like. 1,628,835; May 17.
- Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Granitville, Mass. 1,642,147; Sept. 14.
- Furedy, Frank, New York, N. Y. assignor to Bushwick National Bank. Pencil. 1,638,026; Aug. 9.
- Furey, Fred M., assignor to Union Tank and Pipe Company, Los Angeles, Calif. Street button. 1,647,861; Nov. 1.
- Furlong, George D., New Orleans, La. Chair. 1,619,503; Mar. 1.
- Furlong, Martin J., Houston, Tex. Liquid-dispensing apparatus. 1,647,565; Nov. 1.
- Furlong, Martin J., Houston, Tex. Liquid-dispensing apparatus. 1,651,690; Dec. 6.
- Furman, Charles S., assignor to Furman Inventions Corporation, Lansing, Mich. Unionall. 1,635,120; July 5.
- Furman, Eugene C., Newport News, assignor of forty-nine per cent to E. F. Heard, Hampton, Va. Method and apparatus for repairing fluid containers. 1,620,154; Mar. 8.
- Furman Inventions Corporation. (See Furman, Charles S., assignor.)
- Furman, Samuel E. (See Hosmer, C. C., and Furman.)
- Furman, William R., Troy Mills, Iowa. Aviator's suit. 1,640,270; Aug. 23.
- Furnace Engineering Company. (See Hirsch, Paul A., assignor.)
- Furnemont, Fernand J. J. (See Scheluto, J., and Furnemont.)
- Furness, William H., National Park, N. J., assignor to Celcollic Company, Philadelphia, Pa. Apparatus for filtering. 1,643,299; Sept. 27.
- Furness, William H., National Park, N. J., assignor to Celcollic Company, Philadelphia, Pa. Pump. 1,646,615; Oct. 25.
- Furness, William H., National Park, N. J., assignor to Celcollic Company, Philadelphia, Pa. Artificial-silk thread-making apparatus. 1,647,791; Nov. 1.
- Furr Automatic Signal Co. (See Furr, Harry L., assignor.)
- Furr, Harry L., Harrisonburg, Va., assignor to Furr Automatic Signal Co., Williamsburg, Va. Attachment for signal-operating means. 1,642,237; Sept. 13.
- Furst, Carl, Bedford, Ind. Bush-hammering machine. 1,626,033; Apr. 26.
- Furst, Ernest, and S. Tave, New York, N. Y. Lamp-shade holder. 1,635,263; July 12.
- Furst, John S., Philadelphia, Pa. Lead-laying machine for pencils. 1,641,078; Aug. 30.
- Fürstenau, Robert, assignor to Radiologie Aktiengesellschaft, Berlin, Germany. Röntgen-ray device. 1,647,614; Nov. 1.
- Fusch, Otis O., Redflower, Calif. Double-piston two-cycle engine. 1,630,841; May 31.
- Fusion Welding Corporation. (See Green, J. Birchard, assignor.)
- Fuson, Ira, Long Beach, Calif. Sink structure. 1,635,361; July 12.
- Fuss, Vincenz, assignor to Vereinigte Aluminium-Werke G., Laufwerk, Germany. Improving aluminum alloys. 1,631,930; June 7.
- Fust, Robert, Glogau, Germany. Arrangement for removing secretions from dental canals by suction. 1,620,599; Mar. 8.
- Futerman, Solomon, Brooklyn, N. Y. Truss for rupture. 1,630,933; May 31.
- Fyfe, Alexander W. (See Perkin, W. H., Fyfe, and Mendoza.)
- Fyleman, Martin E., London, England. Separating mineral oils or the like from sand or rock. 1,615,121; Jan. 18.
- Fynn, Valère A., St. Louis, Mo. Nonsynchronous motor. 1,617,802; Feb. 15.
- Fynn, Valère A., St. Louis, Mo. Nonsynchronous motor. 1,633,891; June 28.
- Fyrac Manufacturing Co. (See Aldeen, Gedor W., assignor.)
- G. & C. Oil Separator Corporation. (See Groves, H. T., and Cushman, assignors.)
- G. E. S. Co., The. (See Gaine, Charles F., assignor.)
- G. & G. Atlas Systems, Inc. (See Dinspel, William H., assignor.)
- G. & G. Atlas Systems, Inc. (See Stoetzel, Joseph J., assignor.)
- G. & H. Tire Chuck Gauge Co. (See Harris, William A., assignor.)
- Gaa, Victor H., Detroit, Mich. Vernier divider or calliper. 1,650,704; Nov. 29.
- Gabier, Johann, Ettlingen, Germany. Loom for weaving. 1,620,123; Mar. 15.
- Gabriel, Adolph, New York, N. Y. Toe slipper. 1,619,665; Mar. 1.
- Gabriel, Anton, East Chicago, Ind. Combination hot-water and hot-air furnace. 1,628,459; May 10.
- Gabriel, Charles R., assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. 1,620,534; Mar. 8.
- Gabriel, Herbert D., New York, N. Y. Automatically-operated end gate for dump vehicles. 1,619,504; Mar. 1.
- Gabriel, John C., assignor to Western Electric Company, Incorporated, New York, N. Y. Inductive coupling device. 1,641,925; Sept. 6.
- Gabriel, Joseph A., Cleveland, Ohio. Regulating valve for liquids and gases. 1,638,152; Aug. 9.
- Gabriel, Raimund, Neustadt, Czechoslovakia. Tool handle fastening device. 1,644,676; Oct. 4.
- Gabriel Steel Company. (See Zabriskie, William F., assignor.)
- Gabriel Tubular Furnace Co. Inc. (See Grunwaldt, Frank E., assignor.)
- Gabrielson, Carl, assignor to L. C. Smith & Bros. Typewriter, Inc., Syracuse, N. Y. Platen clutch. 1,614,548; Jan. 18.
- Gace Corporation. (See Walters, Philip N., assignor.)
- Gadd, William E. (See Disbrow, C. A., and Gadd.)
- Gaddis, Francis, Merrick, N. Y. Aircraft. 1,625,646; Apr. 19.
- Gade, Samuel, New York, N. Y. Escutcheon. 1,649,895; Nov. 22.
- Gadsby, Frederick C., Sydney, New South Wales, Australia. Suitcase, attaché case, and the like. 1,642,851; Sept. 20.
- Gadsby, Frederick C., Sydney, New South Wales, Australia. Adjustable hinge for suitcases or the like. 1,646,286; Oct. 18.
- Gabel, Arthur H., Larchmont, assignor to The Gabel Corporation, New York, N. Y. All-metal telescopic box for cameras. 1,642,651; Sept. 13.
- Gabel Corporation, The. (See Gabel, Arthur H., assignor.)
- Gaertner, Arthur, Danzig-Langfuhr, Free State of Danzig. Theopneumatic instrument. 1,651,349; Nov. 29.
- Gaertner, Fred J., Maplewood, N. J. Combination jewel mounting and gem. Dec. 74,105; Dec. 20.
- Gaffers, Herman B., Watervliet, N. Y. Scaffold. 1,653,763; Dec. 27.

- Gaffin, Benjamin B., Brooklyn, N. Y. Bubble pipe. 1,646,398; Oct. 25.
- Gaffney, James A., and M. J. Hanson, North Redwood, Minn. Clamping tool for wire-fence staples. 1,621,631; Mar. 22.
- Gaffney, John. (See Ryan, J. J., and Gaffney.)
- Gagarin, Andrew A., assignor to Gear Grinding Machine Company, Detroit, Mich. Trimming device. 1,626,232; Apr. 26.
- Gage, Charles H., Washington, D. C. Safety device. 1,626,077; Apr. 26.
- Gage, Charles H., Washington, D. C., assignor of one-fourth to L. D. Seales, Chevy Chase, Md., W. A. Faison, Chester, Pa., and W. D. Riter, Washington, D. C. trustees. Mine-car coupler. 1,617,628; Feb. 15.
- Gage, Charles H., assignor to L. W. Seales, W. D. Riter, Washington, D. C., and W. D. Faison, Chester, Pa. Car coupler. 1,620,535; Mar. 8.
- Gage, Charles H., assignor to L. W. Seales and W. D. Riter, Washington, D. C., and W. A. Faison, Chester, Pa., trustees Railway safety appliance. 1,648,383; Nov. 8.
- Gage, John S., Chicago, Ill., assignor to Tolhurst Machine Works, Troy, N. Y. Centrifugal drying machine. 1,636,177; July 19.
- Gage, Robert B., Trenton, N. J. Paving construction. 1,637,480; Aug. 2.
- Gage, Vincent, Washington, D. C. Paper guide for type-writing machines. 1,619,858; Mar. 8.
- Gage, Vincent, Washington, D. C. Paper guide for type-writers. 1,637,022; July 26.
- Gage, Walter F., Smith, Nev. Toothpick holder. 1,636,595; July 19.
- Gage, Will V. (See Dorman, L. L., and Gage.)
- Gagl, John, Bronx, N. Y. Photographic apparatus to identify holdup men. 1,619,715; Mar. 1.
- Gagné, Augustin, assignor to Hemphill Company, Central Falls, R. I. Controlling mechanism for primary and secondary yams of split-worm circular-knitting machines. 1,623,027; Mar. 29.
- Gagnon, Archie, assignor of one-half to C. G. Greenhalgh, Pawtucket, R. I. Loom attachment. 1,620,601; Mar. 8.
- Gagnon, Bernard E., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Coupling. 1,652,112; Dec. 29.
- Gagnon, Joseph A., Manchester, N. H. Tire tool. 1,616,362; Feb. 1.
- Gagnon, Louis L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,619,341; Mar. 1.
- Gagnon, Samuel M., Lowell, assignor to The Saco-Lowell Shops, Boston, Mass. Locking device. 1,638,300; Aug. 9.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Electrical connector. 1,635,830; July 12.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Electrical connector. 1,635,832; July 12.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Plumbing plug post. 1,646,995; Oct. 25.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Coupling. 1,650,505; Nov. 22.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Coupling. 1,650,506; Nov. 22.
- Gahan, Albert T., Stockton, Calif. Container for fruit-canning apparatus. 1,633,856; June 28.
- Gahan, Albert T., Fresno, Calif. Method of and apparatus for canning figs. 1,635,471; July 12.
- Gahn, Frank, Pasadena, Calif. Vacuum pump and forced-feed oiling system. 1,648,393; Nov. 8.
- Gaidies, George. (See Rüttenauer, A., and Gaidies.)
- Gail, George E., Detroit, Mich., assignor of one-half to A. Seitz, Wayne County, Mich. Compound to solder aluminum. 1,641,422; Sept. 6.
- Gail, Jean B., and N. Adam, Paris, France. Process and apparatus for the removal of oil from condensation waters. 1,617,208; Feb. 8.
- Gail, John F., Evanston, Ill., assignor to Simons Company, Kenosha, Wis. Harness for handling mattresses. 1,622,712; Mar. 29.
- Gail, John F., Evanston, Ill., assignor to Simons Company, Kenosha, Wis. Manufacture of compound helical wire springs. 1,627,600; May 10.
- Gail, John F., Evanston, Ill., assignor to Simons Company, Kenosha, Wis. Metal joint. 1,630,338; May 31.
- Gail, William W., and F. B. Connelly, Billings, Mont. Game apparatus. 1,633,445; June 21.
- Gaillard, Madison W., Mobile, Ala. Automatic chisel hammer. 1,641,031; Apr. 30.
- Gaillard, Madison W., Mobile, Ala. Combined dental mouth mirror and water syringe. 1,647,862; Nov. 1.
- Gain, William M. (See Cloer, Walter J., assignor.)
- Gaine, Charles F., assignor to The G. E. S. Co., Oakland, Calif. Transmission-gear shift. 1,615,220; Jan. 25.
- Gaines, Artimus C., Portland, Oreg. Valve. 1,639,372; Aug. 16.
- Gaines, Mildred A., Farmville, Va. Educational device. 1,634,713; July 5.
- Gaines, Noel, Frankfort, Ky. Automobile flag holder. 1,648,338; Nov. 8.
- Gains, Chester R., Muscatine, Iowa. Reminder clock. 1,620,455; Mar. 8.
- Gair, James, Acton, London, England. Wheel for vehicles and making the same. 1,617,152; Feb. 8.
- Gair, Robert, Company. (See De Clercq, George E. W., assignor.)
- Gair, Robert, Company. (See Tinsley, Edward O., assignor.)
- Gairing, Emil, assignor to Gairing Tool Company, Detroit, Mich. Interchangeable boring and counterboring tool. 1,620,530; Mar. 8.
- Gairing, Emil, assignor to Gairing Tool Company, Detroit, Mich. Device for exhibiting tools. 1,638,928; Aug. 10.
- Gairing, Emil, assignor to Gairing Tool Company, Detroit, Mich. Counterboring tool. 1,648,802; Nov. 8.
- Gairing Tool Company. (See Gairing, Emil, assignor.)
- Gaiser, John, Centerville, Ohio. Nonskid chain. 1,615,752; Jan. 25.
- Gaisman, Henry J., New York, N. Y. Safety razor. 1,633,739; June 28.
- Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Razor-stropping means. 1,624,328; Apr. 12.
- Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Razor-blade holder. 1,629,863; May 24.
- Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Blade holder. 1,639,333; Aug. 16.
- Gaisman, Henry J., New York, and C. Schumacher, Lynbrook, N. Y., assignors to Autan Corporation, Dover, Del. Blade-backing machine. 1,632,593; June 14.
- Gaisman, Henry J., New York, and C. Schumacher, Lynbrook, N. Y., assignors to Autostrop Patents Corporation, Dover, Del. Edging machine. 1,637,074; July 26.
- Gaisman, Henry J., New York, and C. Schumacher, Lynbrook, N. Y., assignors to Autostrop Patents Corporation, Dover, Del. Safety razor. 1,652,568; Dec. 13.
- Gaisman, Lucien, Audenshaw, near Manchester, and A. E. Brown, Brentwood, assignors to Universal Rubber Paviors (Manchester 1923) Limited, Audenshaw, near Manchester, England. Apparatus for forming dovetail or undercut recesses in clay or other plastic material. 1,629,660; May 24.
- Gágyula, Szeged, Hungary, assignor of one-half to B. Golden, New Brunswick, N. J. Rail joint. 1,619,716; Mar. 1.
- Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Lamp and bracket therefor. 1,637,375; Aug. 2.
- Galanis, Emanuel N., New York, N. Y. Miner's cap. 1,652,776; Dec. 13.
- Gallasi, Ernest P., Brooklyn, assignor of one-half to G. Novello, New York, N. Y. Automobile bumper. 1,649,301; Nov. 15.
- Galbraith, Harry F., Philadelphia, Pa. Apparatus and method for curing legumes. 1,647,863; Nov. 1.
- Galbreath, Edwin B., Long Beach, Calif. Sliding-sleeve valve engine and linkage. 1,614,886; Jan. 18.
- Galbreath, Edwin B., Long Beach, Calif. Hydraulic pump and system. 1,623,239; Apr. 5.
- Galbreath, Lon A., et al., trustees. (See Rogers, Harry R., assignor.)
- Gale, Alexander. (See Mellor, Dennis, assignor.)
- Gale, Gordon M., Maywood, Calif. Loose-leaf binder. 1,651,520; Dec. 8.
- Gale, Henry P., Chicago, Ill. Painting apparatus. 1,622,224; Mar. 22.
- Gale, John E., Pittsburgh, Pa. Valise. 1,617,629; Feb. 5.
- Gale, Milton C. (See Kent, D. W., and Gale.)
- Galeski, Joseph S., Richmond, Va. Spectacles. 1,644,776; Oct. 11.
- Galleazzi, Joseph, San Francisco, Calif. Accordion plate. 1,636,299; July 19.
- Galion Iron Works & Mfg. Co., The. (See Arndt, Franklin E., assignor.)
- Galion Iron Works & Mfg. Co., The. (See Keeler, Raymond W., assignor.)
- Galion Metallic Vault Company, The. (See Gay, J. C., Smith, and Quirk, assignors.)
- Galion Metallic Vault Company, The. (See Smith, R. E., Arnold, and Gay, assignors.)
- Gallagher, Arthur D., assignor to Oliver Chilled Plug Works, South Bend, Ind. Cultivator. 1,639,767; Aug. 23.
- Gallagher, Bernard S., Oakland, Calif. Exhaust box. 1,649,896; Nov. 22.
- Gallagher, Dennis J., Brooklyn, N. Y. Cigar-box moisture. 1,637,814; Aug. 2.
- Gallagher, George D., Phoenix, Ariz., assignor, by mesne assignments, of part interests to N. F. Hoose and R. B. Walten, Baltimore, Md., C. F. Moore, Washington, D. C., and J. M. Matthews, Baltimore County, Md. Blade-stropping device. 1,624,592; Apr. 12.
- Gallagher, George D., Washington, D. C., assignor, by mesne assignments, of part interests to N. F. Hoose and R. B. Walten, Baltimore, Md., C. F. Moore, Washington, D. C., and J. M. Matthews, Baltimore County, Md. Safety-razor-blade stropper. 1,624,593; Apr. 12.

- Gallagher, Lillian K. (See Gallagher, Richard D., Jr., assignor.)
- Gallagher, Peter F., Coffeyville, Kans. Washout plug for locomotive boilers. 1,645,046; Oct. 11.
- Gallagher, Philip J., Fallbridge, assignor of one-fourth to N. N. Egan, Wishram, Wash., and one-eighth to W. F. Rogers, Portland, Oreg. Car-brake-controlling device. A. 63,955; Dec. 27.
- Gallagher, Richard D., Jr., assignor to L. K. Gallagher, Freeport, N. Y. Railway draft gear. 1,649,344; Nov. 15.
- Galland, Alfred J., Paris, France. Bottle-filling apparatus. 1,634,416; July 5.
- Gallat, Alfred L., Swannanoa, N. C. Automatic stop motion. 1,651,761; Dec. 6.
- Gallasch, George B. (See Hart, E., and Gallasch.)
- Galloway, William O. (See Nye, Louis R., assignor.)
- Gallett, Delbert L., Aberdeen, S. Dak. Cap for paste tubes. 1,631,525; June 7.
- Gallmore, Keith F., Fond du Lac, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Chuck. 1,647,220; Nov. 1.
- Gallin, Albert E. (See Beck, J., and Gallin.)
- Gallman, Charles E., and F. Haire, Tulsa, Okla., assignors to Oil Well Supply Company, Pittsburgh, Pa. Spudding tool. 1,634,939; July 5.
- Gallopin, Gustavo, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Repairing torn fabric. 1,620,884; Mar. 15.
- Galloway, James W., Waterloo, assignor of one-half to C. A. Hauser, Des Moines, Iowa. Humidifier. 1,637,693; Aug. 2.
- Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Mechanism reversible without backlash error. 1,627,236; May 3.
- Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Lost-motion coupling. 1,627,964; May 10.
- Galloway, Robert M., W. F. Bockhoff, and J. M. Meloy, assignors to The National Automatic Tool Co., Richmond, Ind. Drill holder. 1,645,948; Oct. 18.
- Gallowitz, Gustave A., assignor to Kny-Scheerer Corporation of America, New York, N. Y. Metallic corner. 1,636,412; July 19.
- Galup, Josephus F., Jefferson, Iowa. Cultivator attachment. 1,613,092; Jan. 4.
- Gallus, Joseph M., and J. J. Scheits, Wrightstown, N. J. Treat-signal switch. 1,620,456; Mar. 8.
- Galt, Percie R., Philadelphia, Pa. Sanitary heating pack. 1,633,482; June 21.
- Galt, Thomas A., River Forest, Ill., assignor to The Ad-lake Company. Dome light. 1,651,592; Dec. 6.
- Galusha, Don L., Bronxville, N. Y. Electrical interlock for gas mechanism. 1,654,511; Dec. 27.
- Galvin, Charles B., New York, N. Y. Protractor. 1,637,933; Aug. 2.
- Galvin Electric Manufacturing Company. (See Galvin, J. F., and Koehner, assignors.)
- Galvin, Francis E. (See Compton, L., and Galvin.)
- Galvin, John F., and W. E. Koehner, assignors to Galvin Electric Manufacturing Company, St. Louis, Mo. Fan-oscillating mechanism. 1,638,027; Aug. 9.
- Galvin, Wade S., Akron, Ohio. Tire tread. Des. 73,169; Aug. 2.
- Galvin, Wade S., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,553; May 3.
- Galvin, Wade S., assignor to The Akron Standard Mold Company, Akron, Ohio. Vulcanizer. 1,652,473; Dec. 13.
- Gambill, William M., Merkel, Tex. Articulator. 1,637,934; Aug. 2.
- Gamble, Charles B., assignor of one-half to J. T. Lucas, Minneapolis, Minn. Gas-meter attachment. 1,641,079; Aug. 30.
- Gamble, David E., assignor to The Borg & Beck Company, Chicago, Ill. Friction clutch. 1,623,470; Apr. 5.
- Gamble, David E., assignor to The Borg & Beck Company, Chicago, Ill. Friction clutch. 1,628,877; May 17.
- Gamble, David E., Detroit, Mich., assignor to The Borg & Beck Company, Chicago, Ill. Clutch plate. 1,652,005; Dec. 6.
- Gamble, David E., Detroit, Mich., assignor to The Borg & Beck Company, Chicago, Ill. Clutch plate. 1,652,006; Dec. 6.
- Gamble, David E., Detroit, Mich., assignor to The Borg & Beck Company, Chicago, Ill. Clutch plate. 1,652,007; Dec. 6.
- Gamble, Henry. (See Hall, Samuel T., assignor.)
- Gamble, Hugh A. (See Berry, Hiram N., assignor.)
- Gannett, Robert E., assignor to Standard Steel and Bearings, Incorporated, Philadelphia, Pa. Ball-bearing-assembly device. 1,627,965; May 10.
- Ganewell Company, The. (See Beach, Clarence E., assignor.)
- Ganewell Company. (See Butler, Edward J., assignor.)
- Ganewell Company, The. (See Smith, Harry, assignor.)
- Ganewell Company, The. (See Suren, Nathan H., assignor.)
- Gamino, Bartolo, Pigeon, Mich. Knee-protecting device. 1,627,497; May 3.
- Gammell, Clifton O., assignor of one-half to A. L. Nelson, Green Bay, Wis. Paper-converting machine. 1,641,423; Sept. 6.
- Gammeter, Harry C., Cleveland Heights, Ohio. Pyrotechnic signal. 1,640,892; Aug. 30.
- Gammeter, John R. (See Hadfield, John, assignor.)
- Gammeter, John R. (See Perks, George W., assignor.)
- Gammeter, John R. (See Pierce, Robert C., assignor.)
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Festooning racket. 1,616,363; Feb. 13.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Electric coupling. 1,616,654; Feb. 8.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building method and apparatus. 1,619,019; Mar. 14.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for vulcanizing strip material. 1,619,020; Mar. 1.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Doorcheck strap. 1,619,067; Mar. 1.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for producing elastic strip material. 1,619,342; Mar. 1.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-trimming apparatus. 1,622,440; Mar. 29.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Packing and making the same. 1,627,698; May 10.
- Gammeter, John R., Akron, Ohio, assignor to B. F. Goodrich Company, New York, N. Y. Apparatus for forming and cutting plastic material. 1,628,836; May 17.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Fastening device and the like. 1,632,064; June 14.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Molding and vulcanizing apparatus. 1,632,830; June 21.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Silent gear and making the same. 1,638,295; Aug. 9.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making hollow rubber articles. 1,639,430; Aug. 16.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Precision adjustment device. 1,639,885; Aug. 23.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building apparatus. 1,640,072; Aug. 23.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber-coated article and making the same. 1,645,748; Oct. 18.
- Gammous, Herman T., et al. (See Miller, Max C., assignor.)
- Gamoty, Lucien J., Bondi, near Sydney, assignor to Sceptophones Limited, Sydney, New South Wales, Australia. Telephone silencer. 1,642,543; Sept. 13.
- Gamper, Robert, Brooklyn, N. Y. Centrifugal separator. 1,614,357; Jan. 11.
- Gams, Alphons, and M. Girard, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of calcium salts of inositol-phosphoric acid. 1,644,246; Oct. 4.
- Gams, Alphons, and M. Girard, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of calcium salts of inositol-phosphoric acid. 1,645,233; Oct. 11.
- Gams, Alphons, and G. Widmer, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Aldehyde condensation product and making same. 1,654,215; Dec. 27.
- Gandillon, Pierre A., Paris, France. Sink. 1,614,358; Jan. 11.
- Gangler, Paul, Esslingen, assignor to the Firm Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Stuttgart-Cannstatt, Germany. Closing parcel. 1,625,720; Apr. 19.
- Gangler, Paul, Esslingen, assignor to the Firm Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Stuttgart-Cannstatt, Germany. Machine for manufacturing, filling, and closing packages. 1,627,169; May 3.
- Gangler, Paul, Esslingen, assignor to Firm Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Stuttgart-Cannstatt, Germany. Closing bags. 1,640,316; Aug. 23.
- Gangler, Georges, Geneva, Switzerland. Coach work of vehicles. 1,629,197; May 17.
- Ganio, Ottavio, G. Avondoglio, and O. Grassi, New York, N. Y. Artificial-dower-curling machine. 1,620,523; Apr. 26.
- Gann, John A., assignor to The Dew Chemical Company, Miami, Fla. Magnesium alloy. 1,649,521; Nov. 15.
- Gannaco, Maddalena. (See di Marzo, Francis, assignor.)
- Gannett, William J., Cleveland, Ohio. Internal-combustion engine. 1,634,901; July 5.
- Gannett, Danforth K., Arverne, N. Y., and M. Kirkwood, East Orange, N. J., assignors to American Telephone and Telegraph Company, Electrical network. 1,638,437; Aug. 9.
- Gannett, Homer E., Berwyn, Ill. Lamp mounting. 1,639,336; Aug. 16.
- Gans, Robert S., Detroit, Mich. Emergency control lever. 1,614,254; Jan. 11.

- Ganssen, Robert, Grunewald, Germany. Extraction of ammonium-aluminum sulphate from aluminum-sulphate solutions containing ferric compounds. 1,619,669; Mar. 1.
- Ganster, Joseph A., Philadelphia, Pa. Antifriction bearing and assembling the same. 1,630,393; May 31.
- Garabelli, Bruno, et al. (See Lemma, Joseph, assignor.)
- Garbink, Theodore P., New York, N. Y. Automatic car coupling. 1,612,863; Jan. 4.
- Garbarino, Paul P., San Jose, Calif. Hydrant. 1,636,599; July 19.
- Garbell, Max, Chicago, Ill. Frame for typewriting machines. Des. 74,062; Dec. 73.
- Garber, Charles N., Covington, Va. Anchor-bolt sleeve. 1,645,903; Oct. 18.
- Garber, Daniel H., deceased; G. E. Dunn and A. C. Neer, executors. Device for pulling cables and flexible conduits. 1,653,267; Dec. 20.
- Garbutt, Frank E., Los Angeles, Calif., assignor to Famous Players-Lasky Corporation, New York, N. Y. Universal panoramic tripod. 1,624,096; Apr. 12.
- Garbutt, Frank E., Los Angeles, Calif., assignor to Famous Players-Lasky Corporation, New York, N. Y. Film-take-up device with brake. 1,629,029; May 17.
- Garbutt, Frank E., Los Angeles, Calif. Automatic film-tensioning mechanism having individual spools. 1,629,030; May 17.
- Garbutt, Frank E., Los Angeles, Calif. Automatic film-tensioning mechanism. 1,636,954; July 26.
- Garbutt, Frank E., and R. G. Fear, Los Angeles, Calif., assignors to Famous Players-Lasky Corporation. Process of and apparatus for eliminating granular effects in photographic enlargements. 1,642,772; Sept. 20.
- Garcia, Emilio, New York, N. Y. Automobile brake mechanism. 1,644,671; Oct. 11.
- Garcia, Enrique G., Tampico, Mexico. Fire-preventing cover for fuel tanks and the like. 1,637,298; July 26.
- Garcia, Marcelino Y., New York, N. Y. Cross game device. 1,624,167; Apr. 12.
- Gard, Earle W. (See Rial, W. D., and Gard.)
- Gard, Earle W., Wilmington, Calif. Apparatus for sampling oils. 1,649,399; Nov. 15.
- Gardels, John H., Hildreth, Neb. Snow fence. 1,612,972; Jan. 4.
- Garden, Alexander T., Augusta, Kans. Oil regulator. 1,644,918; Oct. 11.
- Gardiner, Arthur, Midland Junction, Western Australia, Australia. Shears. 1,632,284; June 14.
- Gardiner, Henry C., Anaconda, Mont. Timber preservation. 1,639,601; Aug. 16.
- Gardiner, John F. (See Drew, Henry J. and J. A. H., and Gardiner.)
- Gardiner, Walter B., Hartford, Conn. Ball-grinding machine. 1,629,864; May 24.
- Gardner, William B., assignor of forty-eight one-hundredths to S. March, Quincy, Mass. Adjustable sick bed. 1,625,534; Apr. 19.
- Gardner, William C., Toronto, assignor to Satin Finish Hardwood Flooring Company, Limited, Weston, Ontario, Canada. Treatment of lumber. 1,635,665; July 12.
- Gardner, Daniel, Weybridge, England. Manufacture of paints. 1,617,754; Feb. 15.
- Gardner, Edward B., J. Nielsen, and E. D. Gardner, Beloit, Wis. Grinding machine. 1,651,382; Dec. 6.
- Gardner, Frederic E., Beloit, Wis. Work carrier. 1,628,878; May 17.
- Gardner, Frederic E., Beloit, Wis. Grinding machine. 1,638,028; Aug. 9.
- Gardner, Frederic E., Beloit, Wis. Grinding machine. 1,649,823; Nov. 22.
- Gardner, George W., Flint, Mich. Spark plug. 1,620,341; Mar. 8.
- Gardner, Grandison, Dayton, Ohio. Recording accelerometer. 1,634,992; July 5.
- Gardner, Harlan P., assignor to L. Gardner, St. Paul, Minn. Ice-cream scoop. 1,642,726; Sept. 20.
- Gardner, Henry, Detroit, assignor to Ford Motor Company, Highland Park, Mich. Plating and method of accomplishing the same. 1,642,183; Sept. 13.
- Gardner, John E. (See White, T. U., and Gardner.)
- Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,621,503; Mar. 22.
- Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,624,829; Apr. 12.
- Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,626,034; Apr. 26.
- Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multi-office telephone system. 1,626,807; May 3.
- Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multi-office telephone system. 1,638,331; Aug. 9.
- Gardner, John E., Chicago, and J. I. Bellamy, Brookfield, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,646,399; Oct. 25.
- Gardner, Joseph B. (See Gerlich, F. A., and Gardner.)
- Gardner, Kenneth C., assignor to The Greenville Steel Car Company, Greenville, Pa. Car construction. 1,630,001; May 24.
- Gardner, Kenneth C., assignor to The Greenville Steel Car Company, Greenville, Pa. Cross tie. 1,641,885; Sept. 6.
- Gardner, Leonard T., assignor of one-half to C. J. Jording, Baltimore, Md. Device for raising sunken submarines. 1,622,866; Mar. 29.
- Gardner, Lucile. (See Gardner, Harlan P., assignor.)
- Gardner, Oscar E., Shreveport, La., assignor to Arkansas Oak Flooring Company, Pine Bluff, Ark., and Arkansas Oak Flooring Company, Inc., Alexandria, La. Sawyer's gauge. 1,649,956; Nov. 23.
- Gardner, Percy, East Orange, N. J., assignor to H. M. Bunker & Company, Inc., New York, N. Y. Machine for forming tubular fabrics. Re16,517; Jan. 4.
- Gardner, Percy, East Orange, N. J., assignor to H. M. Bunker & Co., Inc., New York, N. Y. Bias-cutting machine. 1,648,157; Sept. 20.
- Gardner, Phoebe G., assignor of one-half to P. Kay, Chicago, Ill. Combination furniture. 1,618,922; Feb. 22.
- Gardner, Ralph D. (See Gardner, E. B., Nielsen, and Gardner.)
- Garnett, Lutherford E., North Bennington, Vt. Coaster. 1,613,508; Jan. 4.
- Gardner, William, Cleveland, Ohio. Apparatus for and reduction of finely-divided material. 1,619,295; Mar. 1.
- Gardner, William R., assignor of one-tenth to W. B. Truslow and C. C. Post and one-tenth to D. G. Collins, Los Angeles, Calif. Vehicle spring hanger. 1,625,023; Apr. 19.
- Garey, Albert A., Altadena, Calif. Safety device. 1,645,131; Oct. 11.
- Garey, Charles C., assignor of one-third to T. L. Smith, Bremerton, Wash. Electrical heater. 1,620,537; Mar. 8.
- Garey, Edward M., New York, N. Y. Combined lamp and supporting bracket. Des. 73,126; July 26.
- Garey, John P., Elmira Heights, and L. B. Hasbrouck, Elmira, N. Y. Stop-motion device for spinning frames. 1,634,614; July 5.
- Garey, Raymond M. (See Henwood, Abraham, assignor.)
- Garfunkel, Benjamin J., et al. (See Lanfranchi, Jean T., assignor.)
- Garfunkel, Harry I., et al. (See Ginsburg, Marcus O., assignor.)
- Garner, Nathan J., et al. (See Lanfranchi, Jean T., assignor.)
- Gargan, John O., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrostatic condenser. 1,635,990; July 19.
- Gargan, John O., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Variable inductive device. 1,636,178; July 19.
- Gargan, John O., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electric coil. 1,647,615; Nov. 1.
- Gariglio, Joseph E., Brooklyn, N. Y. Safety attachment for washing machines. 1,641,080; Aug. 30.
- Gariso, Theodore J., Allentown, Pa. Let-off device. 1,620,641; Mar. 15.
- Garland, Charles S. (See Hinchley, J. W., and Watson, assignors.)
- Garland, James A., Portsmouth, N. H. Tire-chain fastener. 1,633,524; June 21.
- Garland, Mamie M., assignor to Garland Ventilator Company, Chicago, Ill. Ventilator. 1,621,531; Mar. 22.
- Garland, Mamie M., assignor to Garland Ventilator Company, Chicago, Ill. Ventilator for busses and other vehicles. 1,654,166; Dec. 27.
- Garland, Mather, assignor to Garland Ventilator Company, Chicago, Ill. Ventilating apparatus. 1,640,986; Aug. 30.
- Garland, Oscar A., Hot Springs, Ark. Talking doll. 1,622,441; Mar. 29.
- Garland, Robt. C., assignor to Skinner Automotive Device Co. Inc., Detroit, Mich. Lubrication of internal-combustion engines. 1,629,695; May 24.
- Garland, Richard, Junction City, Kans. Plugging knife. 1,630,420; May 31.
- Garland Ventilator Company. (See Garland, Mamie M., assignor.)
- Garland Ventilator Company. (See Garland, Mather, assignor.)
- Garlick, Fred G., assignor to General American Tank Car Corporation, Chicago, Ill. Tank car. 1,633,811; June 28.
- Garlick, James D., Port Huron, Mich. Transmission gearing for motor-driven vehicles. 1,650,621; Nov. 29.
- Garlock Packing Company, The. (See Farrington, Winfield O., assignor.)
- Garlock Packing Company, The. (See Hubbard, Cecil R., assignor.)
- Garman, Bertram C., West Hampstead, London, and C. Oliver, Chislehurst, assignors to Oliver Pell Control Limited, Woolwich, England. Step-by-step rotary electric switch. 1,615,373; Jan. 26.
- Garner, Arthur L. (See Anderson, J. B., and Garner.)
- Garner, James E. (See Anderson, J. B., and Garner.)
- Garner, Martin D., Tulsa, Okla. Telephone equipment. 1,633,892; June 28.
- Garnett, Henry J. (See Smith, W. S., and Garnett.)
- Garnett, James M. (See Luke, J., and Garnett.)
- Garnett, Max W. (See Corlett, E. H., and Garnett.)

- Garrard, Charles G., London, England. Change-speed gear. 1,613,749; Jan. 11.
- Garrard, Charles G., London, England. Transmission of power. 1,625,052; Apr. 5.
- Gratston, Harry D., assignor to H. F. Waite, New York, N. Y. X-ray system. 1,629,338; May 17.
- Garrett, Amos B., Tyler Woods, Pa. Hoe. 1,630,121; May 24.
- Garrett, Berkeley B., Roanoke, Va. Calipers. 1,654,459; Dec. 27.
- Garrett, Berton A., Ballston Spa, N. Y., assignor to General Electric Company. Locomotive or car body. 1,631,677; June 7.
- Garrett, Henry, Dallas, Tex. Traffic signal. 1,625,990; Apr. 26.
- Garrett, Henry, Dallas, Tex. Radio fire-alarm system. 1,629,337; May 17.
- Garrett, Neal, Berkeley, Calif. Concrete wall construction. 1,618,421; Feb. 22.
- Garrett, Richard M., Yonkers, assignor to Nestle's Food Company, New York, N. Y. Apparatus for condensing milk. 1,640,271; Aug. 23.
- Garrett, Stuart G., Tulsa, Okla. Choke control for carburetors. 1,616,082; Feb. 1.
- Garrett, William, and G. Gaylets, Old Forge, Pa. Segment fastener. 1,618,422; Feb. 22.
- Garrigues, William C., Cincinnati, Ohio. Display-sample device. 1,627,281; May 8.
- Garric, André, Layrac, France. Garden plow. 1,648,384; Nov. 8.
- Garrigues, William C., assignor to The Williams Foundry and Machine Company, Akron, Ohio. Tire. Des. 73,254; Aug. 16.
- Garrigues, William C., assignor to The Williams Foundry and Machine Company, Toledo, Ohio. Tire. Des. 73,255; Aug. 16.
- Garrison, John L. (See Harris, W. R., and Garrison.)
- Garrison, John W., et al. (See Flanagan, William A., assignor.)
- Garro, Carmelo, New Britain, Conn. Foot-propelled boat. 1,634,257; July 5.
- Garst, George. (See Berscheid, J. J., and Garst.)
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Hole-cleansing mechanism. 1,614,026; Jan. 11.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock-drilling device. 1,620,885; Mar. 15.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Feeding mechanism. 1,621,662; Mar. 22.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Fluid-pressure motor. 1,621,663; Mar. 22.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock-drilling device. 1,626,277; Apr. 26.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Braking mechanism. 1,631,369; June 7.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Hole-cleansing device. 1,634,495; July 5.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,648,877; Nov. 8.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Braking device. 1,650,013; Nov. 22.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock-drilling mechanism. 1,651,199; Nov. 29.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,653,268; Dec. 20.
- Gartling, George, Los Angeles, Calif. Rotary well-drilling bit. 1,634,860; July 5.
- Gartner, Gustav W., Maywood, Calif. Vehicle load scale. 1,649,930; Aug. 30.
- Gärtner, Richard H., Hamburg, Germany. Removing tetranitromethane from trinitrotoluene. 1,632,950; June 21.
- Garton, John T., Toronto, Ontario, Canada. Floor-finishing apparatus. 1,619,571; Mar. 1.
- Gartner, Robert H., Drummond, Idaho. Expansion pulley. 1,634,285; July 5.
- Garvey, Richard, Los Angeles, Calif. Rotary swing or captive aeroplane. 1,652,474; Dec. 13.
- Garvin, Victor J., Chicago Ill. Merchandising coupon. 1,613,881; Jan. 11.
- Garwick, Ed. (See Karow, Emil, assignor.)
- Gary, Charles L., Kenmore, assignor to Spencer Lens Company, Buffalo, N. Y. Binocular microscope. 1,637,563; Aug. 2.
- Gary, Stephen J. (See Guarneri, Stephen J.)
- Gary, Stephen J., assignor of one-half to J. E. Lewis, New York, N. Y. Cross-jointed metal bar. 1,637,220; July 26.
- Garza, Daniel, New Orleans, La. Porous composition building material. 1,637,935; Aug. 2.
- Garzon, Peter, et al. (See Thomas, George M., assignor.)
- Gas Appliance Manufacturing Co., The. (See Waddell, Homer J., assignor.)
- Gas Refrigeration Corporation. (See Otto, S., and Jankus, assignors.)
- Gas Research Company, The. (See Smith, Harry F., assignor.)
- Gaschler, Alois, Berlin, Germany. Artificially producing radioactive substances. 1,644,370; Oct. 4.
- Gase, Eugene, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Dial scale and similar apparatus. 1,634,324; July 5.
- Gasifier Company, The. (See Reichhelm, George L., assignor.)
- Gaskill, Walter J., assignor of one-half to C. D. Hunter, Philadelphia, Pa. Lady bandeau and permanent wave. 1,652,933; Dec. 13.
- Gasoline Products Company. (See Cross, Roy, assignor.)
- Gasoline Products Company. (See Cross, Walter M., assignor.)
- Gasoline Products Company. (See Snelling, Walter O., assignor.)
- Gasoline Recovery Corporation. (See Canter, Vernon C., assignor.)
- Gasoline Recovery Corporation. (See Voress, C. L., and Turner, assignors.)
- Gaspard, John, assignor to De Luxe Optical Co. Inc., New York, N. Y. Eyeglass frame. Des. 73,077; July 19.
- Gass, Ernest, Clifty, France. Lubricating device. 1,630,700; May 31.
- Gass, William L., assignor to Columbia Machine Works & Tooling Co., Inc., Brooklyn, N. Y. Vehicle hoist. 1,650,438; Nov. 22.
- Gast, Ernest A., Cincinnati, Ohio. Plating machine. 1,643,604; Sept. 27.
- Gaston, Ralph M., Chicago, Ill., assignor, by mesne assignments, to Wayne Company, Fort Wayne, Ind. Gasoline burner. 1,614,359; Jan. 11.
- Gaston, William, New York, N. Y. Golf-game apparatus. 1,640,699; Aug. 30.
- Gatch, Milton W., Baltimore, Md. Fly swatter. 1,639,559; Aug. 16.
- Gatch, Frederick D., New York, N. Y. Grease can or cartridge. 1,632,594; June 14.
- Gatchell, George S., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser foot for sewing machines. 1,646,961; Oct. 25.
- Gatchell, Helen C., Chicago, Ill. Street sign. 1,643,552; Aug. 16.
- Gates, Augustus J. (See Deady, Frederick W., assignor.)
- Gates Corporation, The. (See Carpenter, Frank D., assignor.)
- Gates, Donald E., administrator. (See Gates, Elmer.)
- Gates, Earl. (See Christian, R. A., and Gates.)
- Gates, Elmer, assignor of one-half to F. G. Vila, San Diego, Calif. Automobile bumper. 1,648,394; Nov. 8.
- Gates, Elizabeth H., Los Angeles, Calif. Measuring instrument. 1,639,936; Aug. 23.
- Gates, Elmer deceased, Washington, D. C.; Donald E. Gates, administrator. Flatiron. 1,636,359; July 19.
- Gates, Ernest W., Needham, Mass. Puzzle or game. 1,631,587; June 7.
- Gates, Grandon D., Derby, Conn., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Liquid-cooling device. 1,638,571; Aug. 9.
- Gates, Horatio, Worcester, Mass. Machine for labeling cylindrical articles. 1,651,691; Dec. 6.
- Gates, Howard B., Palatka, Fla. Shock absorber. 1,621,532; Mar. 22.
- Gates, Paul G., Long Beach, Calif. Fishing tool. 1,628,042; May 10.
- Gates, Philip W., assignor to Hanna Engineering Works, Chicago, Ill. Lubricator. 1,620,253; Mar. 8.
- Gates, Sylvester A., Detroit, Mich. Metal-back building material. 1,644,247; Oct. 4.
- Gates, Thayer P. (See Watson, John C., assignor.)
- Gates, William J., assignor to American Auto Laundry Equipment Company, Los Angeles, Calif. Atomizing device. 1,617,681; Feb. 15.
- Gat Gun Lubricating Corporation. (See Hundemer, Walter F., assignor.)
- Gathmann, Emil, Baltimore, Md. Shrink-head casing for ingot molds. 1,630,612; May 31.
- Gathmann, Emil, Baltimore, Md. Ingot mold. 1,636,224; July 19.
- Gathmann, Emil, Baltimore, Md. Ingot mold and ingot. 1,643,241; Sept. 20.
- Gathmann, Emil, Baltimore, Md. Ingot mold. 1,649,522; Mar. 15.
- Gathmann, Emil, assignor to The Gathmann Engineering Company, Baltimore, Md. Ingot mold. 1,621,402; Mar. 15.
- Gathmann Engineering Company, The. (See Dornin, George A., assignor.)
- Gathmann Engineering Company, The. (See Gathmann, Emil, assignor.)
- Gathmrs Research Corporation. (See Madorsky, Samuel L., assignor.)
- Garial, George, assignor of one-half to S. Matlasko, Gary, Ind. Pa. Cushion tire. 1,631,175; Aug. 16.
- Gatko, Thomas L., Oak Park, Ill. Friction lining and forming same. 1,626,403; Apr. 26.
- Gatti, Hector, Chicago, Ill. Machine-operated portable fan. 1,620,457; Mar. 8.
- Gatti, Mario, Milan, Italy. Internal-combustion engine. 1,646,780; Oct. 25.
- Gattiker-Tanner, Heinrich. (See Dam, Henry M. R., assignor.)
- Gaudard, Robert, Bern, Switzerland. Panel frame. 1,648,584; Nov. 8.

- Gaudet, Ernest, Hyde Park, Mass. Mat. 1,641,029; Aug. 30.
- Gaudin, William F., Dallas, Tex. Wall construction. 1,623,917; Apr. 5.
- Gauger, Alfred W., and H. H. Storch, Westend, Calif., assignors to Burnham Chemical Company, Reno, Nev. Decreasing the rate of crystallization of borax from brine. 1,621,927; Mar. 22.
- Gauger, Frank A., assignor to Time-O-Stat Corporation, Milwaukee, Wis. Thermostatic control for ovens. 1,619,505; Mar. 1.
- Gauger, Frank A., and R. W. Johnson, assignors to Time-O-Stat Corporation, Milwaukee, Wis. Heater lighter. 1,652,524; Dec. 13.
- Gaugh, Wilford A., Erie, assignor to American Meter Company, Philadelphia, Pa. Gas-meter mechanism. 1,629,031; May 17.
- Gaughrin, William, Chicago, Ill. Clinker-removing device. 1,622,312; Mar. 29.
- Gaugler, Charles L. (See Davy, James A. and P. H., and Gaugler.)
- Gaulard, Alfred, assignor to Ateliers des Vosges, Paris, France. Automatic brake for weaving looms. 1,648,264; Apr. 8.
- Gaulard, Alfred, assignor to Ateliers des Vosges, Paris, France. Shuttle locking and releasing control. 1,649,302; Nov. 15.
- Gauld, Harry W., Brandon, Manitoba, Canada. Starter for gas engines. 1,619,414; Mar. 1.
- Gaulke, Waldo F. (See Fell, H. V. M., and Gaulke.)
- Gault, Frank W., Jr., assignor of one-half to H. J. Greive, Louisville, Ky. Gas mixer. 1,613,388; Jan. 4.
- Gault, Floyd, M. B. Reynolds, and R. C. Hughes, assignors to Reynolds Gas Regulator Co., Anderson, Ind. Gas Regulator. 1,626,581; Apr. 26.
- Gauriat, Pierre S., assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Motion-picture projection apparatus. Re16,769; Oct. 11.
- Gause, Frederick T., Wilmington, Del. Tire chain. 1,627,555; May 10.
- Gause, Paul G., Indianapolis, Ind. Ladder-pulley-block support. 1,620,254; Mar. 8.
- Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Press. 1,618,001; Feb. 15.
- Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Diamond lap. 1,625,463; Apr. 19.
- Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, New York, N. Y. Bearing. 1,639,692; Aug. 23.
- Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Punch press. 1,642,773; Sept. 10.
- Gautschy, Otto, et al. (See Schauman, Eror M., assignor.)
- Gavaza, George V., Quincy, Mass. Siphon holder. 1,627,734; May 10.
- Gaven, Mary E. (See Gaven, William J., assignor.)
- Gaven, Mary E., administratrix. (See Gaven, William J., assignor.)
- Gaven, William J., deceased, assignor of one-half to M. E. Gaven, Wilkes-Barre, Pa.; M. E. Gaven, administratrix. Making composition articles. 1,620,538; Mar. 8.
- Gaven, William J., deceased, assignor of one-half to M. E. Gaven, Wilkes-Barre, Pa.; Mary E. Gaven, administratrix of the said William J. Gaven. Composition article and manufacture. 1,628,400; May 10.
- Gavin, Percy, National Sanatorium, Tenn. Electron-discharge device. 1,645,904; Oct. 18.
- Gaw, Luther A., Charlottesville, Va., assignor to Dillon-Gaw Motor Company, Fayetteville, W. Va. Sieve-valve internal-combustion engine. 1,650,120; Nov. 22.
- Gawley, Joseph L., Los Angeles, Calif. Multiple-jet oil lift. 1,616,220; Feb. 1.
- Gaw-O'Hara Envelope Company. (See Ahlquist, Eugene F., assignor.)
- Gaw-O'Hara Envelope Co. (See Olgy, Albert, assignor.)
- Gay, Francis W., Newark, N. J. Electrical current-limiting system. 1,625,463; Apr. 19.
- Gay, Henry, Newark, N. J. Toy parachute. 1,639,602; Aug. 16.
- Gay, Henry G., Mankins, Tex. Double adjustable drive-chain idler. 1,631,258; June 7.
- Gay, Horace C. (See Jeffers, Bailey L., assignor.)
- Gay, John C. (See Smith, R. E., Arnold, and Gay.)
- Gay, John E., R. P. Smith, and H. J. Quirk, assignors to The Gallon Metallic Vault Company, Gallon, Ohio. Dump body. 1,615,267; Jan. 25.
- Gay, Norman H., Los Angeles, Calif. Precooling fruits and vegetables and other perishable commodities for shipment. 1,617,630; Feb. 15.
- Gay, Norman H., Los Angeles, Calif. Regenerative purging system for refrigerating plants. 1,617,631; Feb. 15.
- Gay, Norman H., Los Angeles, Calif. Ice-can dump. 1,637,901; Aug. 2.
- Gayle, Norman W., Beech Grove, assignor to C. N. Van Cleave, Indianapolis, Ind. Coin-controlled lock. 1,628,193; Apr. 26.
- Gaylets, George. (See Garrett, W., and Gaylets.)
- Gaylord, Bennie E., Lakewood, Ohio, assignor to Weyerhaeuser Forest Products, St. Paul, Minn. Crate or box. 1,616,618; Feb. 8.
- Gaylord, James A., assignor of one-third to L. Gaylord, Sharon, Tenn. Seed-gathering reel attachment for mowing machines. 1,650,705; Nov. 29.
- Gaylord, John F., Indianapolis, Ind. Variable-speed governor. 1,620,724; Mar. 15.
- Gaylord, John F., Indianapolis, Ind. Clutch. 1,642,107; Sept. 13.
- Gaylord, John F., Indianapolis, Ind. Clutch mechanism for transmission gearing. 1,646,646; Oct. 25.
- Gaylord, Lillie. (See Gaylord, James A., assignor.)
- Gaylor, Arthur C., Stratford, Conn. Contact receptacle. 1,641,224; Sept. 6.
- Gaynor, Arthur C., Stratford, Conn. Insulating inclosure. 1,641,265; Sept. 6.
- Gaynor, Arthur C. and E. G. Stratford, Conn.; said E. G. Gaynor, assignors to said A. C. Gaynor. Electric switch. 1,641,264; Sept. 6.
- Gaynor, Edwin G. (See Gaynor, Arthur C. and E. G.)
- Gaynor, Joseph, Jersey City, N. J. Finger grip for violin bows. 1,632,003; June 14.
- Gaynor, Joseph E. (See Cremo, A. L. N., and Gordon, assignors.)
- Geake, William H. G., Killara, near Sydney, New South Wales, Australia, assignor to W. Rutherford, London, England, and J. Bain, Ottawa, Canada. Dispensing container for plastic substances. 1,631,931; June 7.
- Geake, William H. G., Killara, Sydney, Australia, assignor of one-half to W. Rutherford, London, England, and J. Bain, Ottawa, Canada. Semifluid-dispensing device. 1,641,671; Sept. 6.
- Geake, William H. G., Killara, near Sydney, New South Wales, Australia, assignor to W. Rutherford, London, England, and J. Bain, Ottawa, Canada. Dispensing container. 1,642,103; Sept. 6.
- Geale, Frederick M., assignor to T. F. Hire, in trust, Toronto, Ontario, Canada. Telephone dial. 1,646,996; Oct. 25.
- Geannopoulos, George C., Evanston, Ill. Bumper. 1,633,782; June 28.
- Gear Grinding Company, The. (See Snarry, John W., assignor.)
- Gear Grinding Machine Company. (See Gagarin, Andrew A., assignor.)
- Geare, Randolph E. S., and R. M. Norstrom, assignors to Schryer & Koerting Company, Philadelphia, Pa. Low-level jet condenser. 1,622,945; Mar. 29.
- Gearhart, Lewis E., Marietta, Ohio. Building-block mold. 1,623,178; Apr. 5.
- Gearhart, Ralph W., assignor to Gearhart Sales Cabinet Co. Inc., Clearfield, Pa. Manufacturing, hardening, storing, and dispensing plant for ice cream and other frozen food products. 1,619,717; Mar. 1.
- Gearhart, Roy E., Kansas City, Mo. Electric welding or soldering device. 1,638,301; Aug. 9.
- Gearhart Sales Cabinet Co. Inc. (See Gearhart, Ralph W., assignor.)
- Geaton, Edward, et al. (See Geatron, John, assignor.)
- Geatron, John, assignor of one-fourth to M. V. Geatron, and one-fourth to E. Geatron, Chicago, Ill. Periscope. 1,614,466; Jan. 18.
- Geatron, Michael V., et al. (See Geatron, John, assignor.)
- Geck, Robert O., Rockdale, Australia. Lever top can. 1,629,441; May 17.
- Genslen, Richard L., Chicago, Ill. Water-heater apparatus. 1,651,692; Dec. 6.
- Geatty, Charles A., Elkridge, Md. Alloy. 1,644,425; Oct. 4.
- Geay, Charles A., Elkridge, Md. Brake band and lining. 1,647,221; Nov. 1.
- Gebers, Friedrich, Vienna, Austria. Propelling mechanism for ships. 1,628,837; May 17.
- Gebert, Albert E. (See Antoine, A. D., and Gebert.)
- Gebert, Albert E. (See Richardson, M. H., and Gebert.)
- Gebhardt, John B., and H. Althaus, Dyersville, Iowa. Crossing signal. 1,620,600; Mar. 8.
- Gebhardt Brothers Company, The. (See Gebhardt, Edwin, assignor.)
- Gebhardt, Edwin, assignor to The Gebhardt Brothers Company, Cincinnati, Ohio. Bracelet. 1,649,108; Nov. 15.
- Gebhardt, William, San Antonio, Tex. Resilient disk wheel. 1,617,209; Feb. 8.
- Gebhardt, Edwin, Bellwood, Pa. Agricultural implement. 1,649,681; Nov. 15.
- Gebhardt, Folding Box Company, The. (See Gebhardt, Louis H., assignor.)
- Gebhart, George D. (See Kuhn, M. A., and Gebhart.)
- Gebhart, Louis H., assignor to The Gebhart Folding Box Company, Dayton, Ohio. Box. 1,635,666; July 12.
- Gebr. Baumann Maschinen und Motorenfabrik g. m. b. H. & Cie., Commanditgesellschaft. (See Eiernann, Karl, assignor.)
- Gebr. Himmelsbach Aktiengesellschaft. (See Himmelsbach, Joseph, assignor.)
- Gebrüder Bühler. (See Wüthrich, Christian, assignor.)
- Gebrüder Hardy Maschinenfabrik und Giesserei A. G. (See Ribosek, J., and Leuchter, assignors.)
- Gebrüder Hardy Maschinenfabrik und Giesserei Aktien-Gesellschaft. (See Ribosek, J., and Leuchter, assignors.)
- Gebrüder Stelmel. (See Kuchenmeister, Fritz, assignor.)
- Gebrüder Sulzer Aktiengesellschaft. (See Heftli, Wilhelm, assignor.)
- Gedarovich, Ignatz, Brooklyn, N. Y. Roofing compound. 1,618,078; Feb. 15.

- Geddes, David, Berkeley, Calif. Grain washer, stoner, and conditioner. 1,622,580; Mar. 29.
- Geddes, David, Guadalajara, Jalisco, Mexico. Grain washing and drying machine. 1,624,831; Apr. 12.
- Geddis, George, Detroit, Mich. Engine. 1,643,158; Sept. 20.
- Gedon, Paul, Cologne-Bransfeld, and K. Schwade, Cologne-Lindenthal, Germany. Cutting-off device particularly for tubes. 1,625,850; Apr. 26.
- Gedion, Paul, Cologne-Bransfeld, and K. Schwade, Cologne-Lindenthal, Germany. Device for the electrical welding of seamed tubes. 1,629,524; Apr. 26.
- Ged, Alfred, et al. (See Potts, Harold E. assignor.)
- Gee, William J., London, England. Variable-speed gear. 1,652,824; Dec. 13.
- Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Composite product and making the same. 1,617,538; Feb. 15.
- Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Laminated material and making the same. 1,617,707; Feb. 15.
- Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Golf ball and making the same. 1,626,459; Apr. 26.
- Geesmann, Delbert B. (See O'Brien, A. D., and Geesmann.)
- Geffins, Theodore, Ogden, Utah. Cooking utensil. 1,628,860; May 10.
- Gegenheimer, Ralph E. (See MacMullin, R. B., and Gegenheimer.)
- Gegenheimer, William, Baldwin, and E. E. Barney, Port Washington, N. Y. Apparatus for cleaning cylinders of offset and other presses. 1,623,723; Apr. 5.
- Gehauf, Bernard, and H. W. Walker, Edgewood, Md. Making silicofluorides and products thereof. 1,617,708; Feb. 15.
- Gehle, & Co. A.-G. (See Erdmann, Gustav, assignor.)
- Gehrsky, William W., assignor of one-half to W. G. Ruppencamp, Los Angeles, Calif. Adjustable spotlight. 1,612,806; Jan. 4.
- Gehrlert, Richard S., Detroit, Mich. Coffee urn. 1,636,179; July 19.
- Gehres, Hewitt A., Mount Vernon, Ohio. Cylinder and liner construction. 1,625,357; Apr. 19.
- Gehres, Hewitt A., Mount Vernon, Ohio. Engine-cylinder-scavenging mechanism. 1,644,777; Oct. 11.
- Gehrig, Walter, Montreal, Quebec, Canada. Steering apparatus for vehicles. 1,647,404; Nov. 1.
- Gehrke, Max. (See Schoeller, W., and Gehrke.)
- Gehrein, Vincent, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,636,225; July 19.
- Gehrein, Vincent, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,636,225; July 19.
- Gelber, John F., assignor to Master Metal Products, Inc., Buffalo, N. Y. Sanitary waste can. 1,639,992; Aug. 23.
- Gelbel, John F., assignor to Master Metal Products, Inc., Buffalo, N. Y. Sanitary waste can. 1,645,100; Oct. 11.
- Geler, P. A., Company, The. (See Schiltz, Bernard P., assignor.)
- Geler, P. A., Company, The. (See Willis, Olo C., assignor.)
- Geiger, Ernst, Irvington, N. J. Garage. 1,636,600; July 19.
- Geiger, Erwin A., Ridgewood, N. J., assignor to Rapid Addressing Machine Company. Selective card-handling apparatus. 1,621,716; Mar. 22.
- Geiger, Erwin A., Ridgewood, N. J., assignor to Rapid Addressing Machine Company. Colored stencil card. 1,645,593; Oct. 18.
- Geiger, Erwin A., Westfield, N. J., assignor to Rapid Addressing Machine Company. Hand-operated addressing machine. 1,651,762; Dec. 6.
- Geiger, Erwin A., Ridgewood, N. J., A. F. Schraegle, Ridgewood, and H. T. Jennings, Glendale, N. Y., assignors to Rapid Addressing Machine Company. Selective attachment for addressing machines. 1,625,358; Apr. 19.
- Geiger, Erwin A., Ridgewood, N. J., and A. F. Schraegle, Ridgewood, and H. T. Jennings, Glendale, N. Y., assignors to Rapid Addressing Machine Company. Extensible pedal connection for addressing machines. 1,648,452; Nov. 8.
- Geiger, Erwin A., Wyoming, N. J., and A. F. Schraegle, Ridgewood, and H. T. Jennings, Glendale, N. Y., assignors to Rapid Addressing Machine Company. Detachable pedal connection for addressing machines. 1,648,453; Nov. 8.
- Gelert, Eugen, Karlsruhe, Germany. Rotating endless screen belt for the mechanical purification of water. 1,629,572; May 24.
- Gelert, Eugen, Karlsruhe, Germany. Rotating endless screen belt for the mechanical purification of water. 1,640,663; Aug. 30.
- Geiser, Fredrick, Cleveland, and G. C. Swift, Cleveland Heights, assignors to The Enamel Products Company, Cleveland, Ohio. Machine for forming flanges. 1,614,116; Jan. 11.
- Geiser, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,626,015; Oct. 8.
- Geiser, Paul H., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,626,928; May 3.
- Geiger, Paul H., Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway train-control apparatus. 1,643,337; Sept. 27.
- Geiser, Ulysses S., North English, Iowa. Starting device. 1,632,399; June 14.
- Geiser, Walter J. (See Blake, H. D., and Geiser.)
- Geiser, William A., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Resilient shackle. 1,620,642; Mar. 15.
- Geiser, William A., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,640,033; Aug. 23.
- Geiser, William A., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,648,265; Nov. 8.
- Geiser, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Antifriction bearing. 1,648,302; Nov. 8.
- Geiser, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,648,303; Nov. 8.
- Geiser, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,650,439; Nov. 22.
- Gelgy, J. R., S. A. (See Hoz, H. Bernoulli, and Link, assignor.)
- Geigy, J. R., S. A. (See Schiefer, Joseph, assignor.)
- Geigy, T. R., A. G. (See Müller, Hermann, assignor.)
- Geis, Walter A., Midvale, Ohio. Pipe-cutting device. 1,623,833; Apr. 5.
- Geis, George E., Covington, Ky. Kassette. 1,622,371; Mar. 29.
- Geise, Henry F., Whites, Wash. Artificial hand. 1,649,400; Nov. 15.
- Geiser, George B., Philadelphia, Pa., assignor to Berger Bros. Company. Support for gutter-hanger circles. 1,639,934; May 31.
- Geiser, George B., assignor to Berger Brothers Company, Philadelphia, Pa. Gutter-hanger circle. 1,630,935; May 31.
- Geiser, George P., Chicago, Ill. Bowling pin. 1,635,472; July 12.
- Geisner, Joseph R., Grand Island, Nebr. Flying duck decoy. 1,629,442; May 17.
- Geisler, Alois R., Spokane, Wash. Cigar. 1,616,851; Feb. 8.
- Geisler, August, Limburg-on-the-Lahn, Germany, assignor to Arranhe Doll Company. Sleeping eye for rubber dolls. 1,652,777; Dec. 13.
- Geisler, Otto, Chicago, Ill. Rigid airship. 1,642,727; Sept. 20.
- Geissenhainer, Frederick W., Freehold, N. J., and M. S. Cummer, Brooklyn, assignors to Nestor Manufacturing Company, Inc., New York, N. Y. Bus-bar bender. 1,633,248; June 21.
- Geissinger, Harry G., Detroit, Mich. Temperature-controlling system. 1,650,622; Nov. 29.
- Geissinger, Harry G., Detroit, Mich. Control system. 1,650,623; Nov. 29.
- Geissinger, Harry G., assignor to Acme Clutch Company, Milwaukee, Wis. Friction clutch. 1,625,201; Apr. 19.
- Geistert, Albert G., assignor to General Motors Corporation, Detroit, Mich. Vehicle spring. 1,613,700; Jan. 11.
- Geitner, Alexander L., Rochester, N. Y. Adjustable locking means for locking cutting tools into tool holders. 1,642,852; Sept. 20.
- Gelder, Royal W., Greeley, Colo. Concrete pavement for reservoirs, dams, levees, and the like. 1,646,997; Oct. 25.
- Geldhof, Peter E. (See Nelson, J. C., and Geldhof.)
- Geldhof, Peter E., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Drainage valve for clothes-washing machine. 1,614,117; Jan. 11.
- Geldhof, Peter E., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Lubricating system for power-driven washing mechanism. 1,616,852; Feb. 8.
- Geldhof, Peter E., Syracuse, assignor, by mesne assignments, to United States Hoffman Machinery Corporation, New York, N. Y. Garment press. 1,624,726; Apr. 12.
- Geldhof, Peter E., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Ironing-machine steam remover. 1,641,137; Aug. 30.
- Geldhof, Peter E., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Ironing machine. 1,650,828; Nov. 29.
- Gelfand, Simon, Baltimore, Md. Preparing a food product and the product resulting therefrom. 1,631,858; June 7.
- Gellen, Henri C. J. H., Rijswijk, Netherlands, assignor, by mesne assignments, to Novadel Process Corporation, Buffalo, N. Y. Improving milling products. 1,620,458; Mar. 8.
- Gell, Philip V. W., C. E. Gould, W. M. Hampton, and H. S. Martin, assignors to Chance Brothers and Co., Limited, Smethwick, England. Colorless Crookes glass. 1,634,182; June 23.
- Gellen, Balint. (See Gal, Gyula, assignor.)
- Gellenbeck, Benjamin G. (See Gellenbeck, Henry F., E. J., and D. G.)
- Gellenbeck, Edward J. (See Gellenbeck, Henry F., E. J., and D. G.)
- Gellenbeck, Henry F., E. J., and B. G. Tacoma, Wash. Intermittent absorption refrigerating system. 1,632,701; June 14.

- Gellette Schmidt Corporation. (See Schmidt, Benjamin F., assignor.)
 Geilhorn, George, St. Louis, Mo. Obstetrical bed. 1,622,313; Mar. 29.
 Geloso, John, New York, assignor to Pilot Electric Manufacturing Company, Inc., Brooklyn, N. Y. Escutcheon plate for a vernier dial. Dvs. 73,170; Aug. 2.
 Gelstharp, Frederick, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Glass-melting tank. 1,615,832; Feb. 1.
 Gelstharp, Frederick, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making plate glass. 1,615,834; Feb. 1.
 Gelstharp, Frederick, and J. C. Parkinson, Tarentum, Pa., assignors to Pittsburgh Plate Glass Company. Glass-grinding process and apparatus. 1,615,833; Feb. 1.
 Geltan Company. (See Tullis, John K., assignor.)
 Gem City Sheet Metal Company, The. (See Elters, William S., assignor.)
 Gem Crib & Cradle Company. (See Shuffleton, Wilford P., assignor.)
 Gem Doughnut Machine Company. (See Wallace, David A., assignor.)
 Gemeinder, Emil, Philadelphia, Pa. Lock-up cover for receptacles. 1,619,506; Mar. 1.
 Gemeinhardt, Walter F., New York, assignor to The Woodwind Company, New York, N. Y. Saxophone. 1,628,719; May 17.
 Gem Hammock & Fly Net Company. (See Kootz, Arthur C., assignor.)
 Gemmer, George A., and C. E. Campbell, Newark, N. J. Time electric switch. 1,641,161; Sept. 6.
 Gemmer Manufacturing Company. (See Maries, Henry, assignor.)
 Genchy, Steven, New York, N. Y. Eye-dust-removing instrument. 1,652,778; Dec. 13.
 Gendron Wheel Company. (See Nauts, Frank A., assignor.)
 General American Tank Car Corporation. (See Garlick, Fred G., assignor.)
 General American Tank Car Corporation. (See Klemoff, Paul, assignor.)
 General American Tank Car Corp. (See Parks, Ostrander J., assignor.)
 General American Tank Car Corporation. (See Weaver, Robert E., assignor.)
 General Box Company. (Roebuck, Alfred L., assignor.)
 General Chain Company. (See Eklund, Alexander, assignor.)
 General Chemical Company. (See Derr, Ralph B., assignor.)
 General Chemical Company. (See Gillett, Lowry, assignor.)
 General Chemical Company. (See Jones, Hugh H., assignor.)
 General Chemical Company. (See Lewers, George R., assignor.)
 General Chemical Company. (See Lipfert, William J., assignor.)
 General Chemical Company. (See Lohmann, William H., assignor.)
 General Chemical Company. (See Merriam, Henry E., assignor.)
 General Chemical Company. (See Murray, William, assignor.)
 General Chemical Company. (See Proctor, James W., assignor.)
 General Die-Casting Company. (See Pomeroy, John N., assignor.)
 General Dry Batteries, Incorporated. (See Deibel, Cyril P., assignor.)
 General Dry Batteries, Incorporated. (See Deibel, C. P., and Waitt, assignors.)
 General Electric Company. (See Abbott, Charles C., assignor.)
 General Electric Company. (See Adams, Nathan H., assignor.)
 General Electric Company. (See Alexander, Johann, assignor.)
 General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
 General Electric Company. (See Anderson, Arvid E., assignor.)
 General Electric Company. (See Atkinson, William H., assignor.)
 General Electric Company. (See Atwood, Windfield A., assignor.)
 General Electric Company. (See Austin, Edward, assignor.)
 General Electric Company. (See Axtell, Clinton J., assignor.)
 General Electric Company. (See Bahr, Fritz, assignor.)
 General Electric Company. (See Bailey, Percy S., assignor.)
 General Electric Company. (See Baker, Walter R. G., assignor.)
 General Electric Company. (See Bany, Herman, assignor.)
 General Electric Co. (See Barringer, L. E., and Peterson, assignors.)
 General Electric Company. (See Barton, Frederick C., assignor.)
 General Electric Company. (See Barton, Theophilus F., assignor.)
 General Electric Company. (See Basch, David, assignor.)
 General Electric Company. (See Batchelder, Asa F., assignor.)
 General Electric Company. (See Batehols, Charles F., assignor.)
 General Electric Company. (See Beckmann, Johannes, assignor.)
 General Electric Company. (See Beechlyn, John T., assignor.)
 General Electric Company. (See Benford, Frank A., assignor.)
 General Electric Company. (See Bennett, Frank S., assignor.)
 General Electric Company. (See Berglund, Herman, assignor.)
 General Electric Company. (See Bergman, Sven R., assignor.)
 General Electric Company. (See Bergmans, Jan, assignor.)
 General Electric Company. (See Berry, E. R., and Devers, assignors.)
 General Electric Company. (See Berry, Edward R., assignor.)
 General Electric Company. (See Biermanns, Josef, assignor.)
 General Electric Company. (See Bill, Earl M., assignor.)
 General Electric Company. (See Blake, H. D., and Geiger, assignors.)
 General Electric Company. (See Blanchard, Walter P., assignor.)
 General Electric Company. (See Blume, Louis F., assignor.)
 General Electric Company. (See Brand, Frederick F., assignor.)
 General Electric Company. (See Brandenburg, Wilson C., assignor.)
 General Electric Company. (See Briggs, William N., assignor.)
 General Electric Company. (See Brophy, Gerald R., assignor.)
 General Electric Company. (See Brown, Carrol G., assignor.)
 General Electric Company. (See Brown, C. A., and Van Sickle, assignors.)
 General Electric Company. (See Brown, George R., assignor.)
 General Electric Company. (See Brown, Harold W., assignor.)
 General Electric Company. (See Brown, William W., assignor.)
 General Electric Company. (See Brown, W. W., and Love, assignors.)
 General Electric Company. (See Brückel, Waldemar, assignor.)
 General Electric Company. (See Bruynes, Johannes, assignor.)
 General Electric Company. (See Bullock, Charles F., assignor.)
 General Electric Company. (See Burgeson, Charles F., assignor.)
 General Electric Company. (See Burnap, Robert S., assignor.)
 General Electric Company. (See Burnham, Locke H., assignor.)
 General Electric Company. (See Butler, Henry E., assignor.)
 General Electric Company. (See Byles, Frank A., assignor.)
 General Electric Company. (See Byrnes, Irving F., assignor.)
 General Electric Company. (See Campbell, Percy A., assignor.)
 General Electric Company. (See Carichoff, Eugene R., assignor.)
 General Electric Company. (See Carothers, Robert M., assignor.)
 General Electric Company. (See Carter, Emmett F., assignor.)
 General Electric Company. (See Champlin, Franklin J., assignor.)
 General Electric Company. (See Chapman, Charles H., assignor.)
 General Electric Company. (See Chapman, Vern J., assignor.)
 General Electric Company. (See Charlton, Ernest E., assignor.)
 General Electric Company. (See Christensen, C., and Lantry, assignors.)
 General Electric Company. (See Church, Frederick P., assignor.)
 General Electric Company. (See Clarke, Edith, assignor.)
 General Electric Company. (See Collingham, Robert H., assignor.)
 General Electric Company. (See Collins, Edgar F., assignor.)
 General Electric Company. (See Conrad, Paul M., assignor.)
 General Electric Company. (See Coolidge, William D., assignor.)
 General Electric Company. (See Creighton, Elmer E. F., assignor.)
 General Electric Company. (See Crocker, Clarence T., assignor.)
 General Electric Company. (See Currier, Philip M., assignor.)

- General Electric Company. (See Dalton, William, assignor.)
- General Electric Company. (See De Boer, Jan H., assignor.)
- General Electric Company. (See de Graaf, Antonius, assignor.)
- General Electric Company. (See De Jong, Hendrik, assignor.)
- General Electric Company. (See De Jong, H., and Koning, assignors.)
- General Electric Company. (See De Reamer, Frank C., assignor.)
- General Electric Company. (See Devaud, Albert J., assignor.)
- General Electric Company. (See Devers, Philip K., assignor.)
- General Electric Company. (See Doherty, Robert E., assignor.)
- General Electric Company. (See Donovan, John F., assignor.)
- General Electric Company. (See Doran, John H., assignor.)
- General Electric Company. (See Dreher, Gustave F., assignor.)
- General Electric Company. (See Dushman, Saul, assignor.)
- General Electric Company. (See Eaton, John, assignor.)
- General Electric Company. (See Eby, Eugene D., assignor.)
- General Electric Company. (See Ehlers, Walther, assignor.)
- General Electric Company. (See Ellis, Alvarado L. R., assignor.)
- General Electric Company. (See Emmet, William L. R., assignor.)
- General Electric Company. (See Enders, Jacob M., assignor.)
- General Electric Company. (See Evans, Lewis W., assignor.)
- General Electric Company. (See Ewald, Harry W., assignor.)
- General Electric Company. (See Fagan, J. T., and Malloy, assignors.)
- General Electric Company. (See Falge, Robert N., assignor.)
- General Electric Company. (See Flinterman, Rudolph F., assignor.)
- General Electric Company. (See Fonda, Gorton, R., assignor.)
- General Electric Company. (See Forsberg, Peter W., assignor.)
- General Electric Company. (See Fortin, Paul R., assignor.)
- General Electric Company. (See Foulke, Ted E., assignor.)
- General Electric Company. (See French, Henry G., assignor.)
- General Electric Company. (See Friedrich, Walter, assignor.)
- General Electric Company. (See Fuller, Truman S., assignor.)
- General Electric Company. (See Fuller, T. S., and Adams, assignors.)
- General Electric Company. (See Garrett, Berton A., assignor.)
- General Electric Company. (See Gerstmayr, Johann, assignor.)
- General Electric Company. (See Given, Ralph D., assignor.)
- General Electric Company. (See Goff, Robert W., assignor.)
- General Electric Company. (See Goodwin, Victor E., assignor.)
- General Electric Company. (See Gosling, Joseph W., assignor.)
- General Electric Company. (See Graf, Georg, assignor.)
- General Electric Company. (See Gräner, Ladislaus P., assignor.)
- General Electric Company. (See Griffith, Morgan J., assignor.)
- General Electric Company. (See Guay, E. J., and Mansur, assignors.)
- General Electric Company. (See Hall, Chester I., assignor.)
- General Electric Company. (See Hall, Horton W., assignor.)
- General Electric Company. (See Halliwell, Reginald F., assignor.)
- General Electric Company. (See Halvorson, Cromwell A. B., Jr., assignor.)
- General Electric Company. (See Hamilton, William S. H., assignor.)
- General Electric Company. (See Hastings, H. C., and Sarjant, assignors.)
- General Electric Company. (See Hepperlen, John A., assignor.)
- General Electric Company. (See Herald, Gardner T., assignor.)
- General Electric Company. (See Herklotz, Max, assignor.)
- General Electric Company. (See Hewlett, Edward M., assignor.)
- General Electric Company. (See Hewlett, E. M. and Rankin, assignors.)
- General Electric Company. (See Hewlett, E. M., and Willard, assignors.)
- General Electric Company. (See Hilliard, John D., assignor.)
- General Electric Company. (See Hobart, Henry M., assignor.)
- General Electric Company. (See Hodges, William F., assignor.)
- General Electric Company. (See Holmes, Charles E., assignor.)
- General Electric Company. (See Hoof, Addison C., assignor.)
- General Electric Company. (See Hort, Wilhelm, assignor.)
- General Electric Company. (See Hüsel, P., and Pagel, assignor.)
- General Electric Company. (See Hoxie, Charles A., assignor.)
- General Electric Company. (See Huber, Herman J. H., assignor.)
- General Electric Company. (See Hull, Albert W., assignor.)
- General Electric Company. (See Hull, John I., assignor.)
- General Electric Company. (See Hundt, Albert, assignor.)
- General Electric Company. (See Hutt, Leonard P., assignor.)
- General Electric Company. (See Ibele, Walter C., assignor.)
- General Electric Company. (See Ihn, Alois, assignor.)
- General Electric Company. (See Isaac, Archibald C. T., assignor.)
- General Electric Company. (See Jackson, James A., assignor.)
- General Electric Company. (See Jacoby, Richard, assignor.)
- General Electric Company. (See Jewitt, Dennis E., assignor.)
- General Electric Company. (See Johannesen, Svend E., assignor.)
- General Electric Company. (See Johnson, Ernest E., assignor.)
- General Electric Company. (See Jones, Benjamin W., assignor.)
- General Electric Company. (See Jones, B. W., and Wolfe, assignors.)
- General Electric Company. (See Jones, C. E., and Atuesta, assignors.)
- General Electric Company. (See Jordan, Hans, assignor.)
- General Electric Company. (See Jump, George H., assignor.)
- General Electric Company. (See Junggren, Oscar, assignor.)
- General Electric Company. (See Junken, Lawrence H., assignor.)
- General Electric Company. (See Karapetoff, Vladimir, assignor.)
- General Electric Company. (See Kearsley, William K., Jr., assignor.)
- General Electric Company. (See Keenan, William J., assignor.)
- General Electric Company. (See Kelley, Floyd C., assignor.)
- General Electric Company. (See Kellogg, Edward W., assignor.)
- General Electric Company. (See Kelsey, Charles A., assignor.)
- General Electric Company. (See King, Terry T., assignor.)
- General Electric Company. (See Kingdon, K. H. and Langmuir, assignors.)
- General Electric Company. (See Köchling, Wilhelm, assignor.)
- General Electric Company. (See Koning, Willem, assignor.)
- General Electric Company. (See Koref, Fritz, assignor.)
- General Electric Company. (See Koref, F., and Altherthum, assignors.)
- General Electric Company. (See Koref, F., and Hoffman, assignors.)
- General Electric Company. (See Koref, F., and Moers, assignors.)
- General Electric Company. (See Kowalik, Siegfried, assignor.)
- General Electric Company. (See Kowitn, Harry N., assignor.)
- General Electric Company. (See Krämer, Christian, assignor.)
- General Electric Company. (See Langley, Ralph H., assignor.)
- General Electric Company. (See Langmuir, Irving, assignor.)
- General Electric Company. (See Lasche, O., and Post, assignors.)
- General Electric Company. (See Laurentius, Walter, assignor.)
- General Electric Company. (See Lawier, Frank P., assignor.)
- General Electric Company. (See Leddick, George S., assignor.)
- General Electric Company. (See Ledig, W., and Asmussen, assignors.)
- General Electric Company. (See Lennox, Thomas C., assignor.)

- General Electric Company. (See Lewinnek, Georg, assignor.)
 General Electric Company. (See Libby, Sam H., assignor.)
 General Electric Company. (See Liebmann, Alfred J., assignor.)
 General Electric Company. (See Linn, Frank C., assignor.)
 General Electric Company. (See Loebe, W. W., and Grossmann, assignors.)
 General Electric Company. (See Mackay, G. M. J., and Charlton, assignors.)
 General Electric Company. (See Macloskie, George, assignor.)
 General Electric Company. (See Macmillan, Campbell, assignor.)
 General Electric Company. (See Mallett, C. S., and Aldis, assignors.)
 General Electric Company. (See Martin, Carl, assignor.)
 General Electric Company. (See Maurer, Louis A., assignor.)
 General Electric Company. (See McDonald, Gordon R., assignor.)
 General Electric Company. (See McFarland, Edward H., assignor.)
 General Electric Company. (See McGee, Richard R., assignor.)
 General Electric Company. (See McMahon, Nicholas J., assignor.)
 General Electric Company. (See McSheen, Edward W., assignor.)
 General Electric Company. (See Merrick, Eldridge G., assignor.)
 General Electric Company. (See Merrill, Frank W., assignor.)
 General Electric Company. (See Merrill, Wilbur L., assignor.)
 General Electric Company. (See Mershon, Alfred V., assignor.)
 General Electric Company. (See Mickey, Bruce D., assignor.)
 General Electric Company. (See Miller, Levi B., assignor.)
 General Electric Company. (See Minorsky, Nicolas, assignor.)
 General Electric Company. (See Mitchell, L. E., and White, assignors.)
 General Electric Company. (See Mole, Peter, jr., assignor.)
 General Electric Company. (See Montsinger, Vincent M., assignor.)
 General Electric Company. (See Moody, Walter S., assignor.)
 General Electric Company. (See Moss, Sanford A., assignor.)
 General Electric Company. (See Moss, S. A. and Robinson, assignors.)
 General Electric Company. (See Müller, Gustav W., assignor.)
 General Electric Company. (See Murphy, Edwin J., assignor.)
 General Electric Company. (See Murphy, E. J., and Huff, assignors.)
 General Electric Company. (See Newton, Edward G., assignor.)
 General Electric Company. (See Nolte, Henry J., assignor.)
 General Electric Company. (See Norris, Marvin L., assignor.)
 General Electric Company. (See O'Neil, James A., assignor.)
 General Electric Company. (See Otis, Albert N., assignor.)
 General Electric Company. (See Pacz, Aladar, assignor.)
 General Electric Company. (See Pagel, Gustav, assignor.)
 General Electric Company. (See Pöffe, Konstantin K., assignor.)
 General Electric Company. (See Paul, William E., assignor.)
 General Electric Company. (See Paxton, Earl B., assignor.)
 General Electric Company. (See Penney, Frank H., assignor.)
 General Electric Company. (See Perkins, Lucius J., assignor.)
 General Electric Company. (See Perry, Charles L., assignor.)
 General Electric Company. (See Peterson, Charles F., assignor.)
 General Electric Company. (See Pike, Otis W., assignor.)
 General Electric Company. (See Place, Claude W., assignor.)
 General Electric Company. (See Pohl, Robert, assignor.)
 General Electric Company. (See Pollock, Alan A., assignor.)
 General Electric Company. (See Potter, William B., assignor.)
 General Electric Company. (See Pratt, William H., assignor.)
 General Electric Company. (See Prescott, Arthur C., assignor.)
 General Electric Company. (See Price, D. R. and Bowman, assignors.)
 General Electric Company. (See Price, Edgar, assignor.)
 General Electric Company. (See Prince, David C., assignor.)
 General Electric Company. (See Prindle, Raymond B., assignor.)
 General Electric Company. (See Raus, A., and Isaac, assignors.)
 General Electric Company. (See Rice, Chester W., assignor.)
 General Electric Company. (See Rich, Theodore A., assignor.)
 General Electric Company. (See Rogivue, Carl, assignor.)
 General Electric Company. (See Rohde, Paul, assignor.)
 General Electric Company. (See Rosch, Arthur, assignor.)
 General Electric Company. (See Ruder, William E., assignor.)
 General Electric Company. (See Rüttenauer, Alfred, assignor.)
 General Electric Company. (See Rüttenauer, A. and Gaidies, assignors.)
 General Electric Company. (See Sabbah, Camille A., assignor.)
 General Electric Company. (See Samson, Curt, assignor.)
 General Electric Company. (See Savage, Marion A., assignor.)
 General Electric Company. (See Schilling, Walter W., assignor.)
 General Electric Company. (See Schombourger, Lucien, assignor.)
 General Electric Company. (See Schrage, Hilde, assignor.)
 General Electric Company. (See Schrage, Hilde K., assignor.)
 General Electric Company. (See Schwennker, Charles F., assignor.)
 General Electric Company. (See Sclater, Ivanhoe H., assignor.)
 General Electric Company. (See Seede, John A., assignor.)
 General Electric Company. (See Selz, Walter, assignor.)
 General Electric Company. (See Senzul, Nobuo, assignor.)
 General Electric Company. (See Severin, Carl, assignor.)
 General Electric Company. (See Shroyer, Jacob L., assignor.)
 General Electric Company. (See Simonds, Dewey T., assignor.)
 General Electric Company. (See Skaupy, Franz, assignor.)
 General Electric Company. (See Skaupy, F., Pirani, and Fehse, assignors.)
 General Electric Company. (See Skoglund, Charles, assignor.)
 General Electric Company. (See Smith, Arthur R., assignor.)
 General Electric Company. (See Spease, John F., assignor.)
 General Electric Company. (See Sprenger, George W., assignor.)
 General Electric Company. (See Sprenger, Richard, assignor.)
 General Electric Company. (See Sprenger, R., and Conrad, assignors.)
 General Electric Company. (See Sprong, Severn D., assignor.)
 General Electric Company. (See Stack, George E., assignor.)
 General Electric Company. (See Standerwick, Reginald G., assignor.)
 General Electric Company. (See Steenstrup, Christian, assignor.)
 General Electric Company. (See Stein, Theodor, assignor.)
 General Electric Company. (See Steiner, Oscar, assignor.)
 General Electric Company. (See Steinmetz, Charles P., assignor.)
 General Electric Company. (See Temple, Elmer J., assignor.)
 General Electric Company. (See Thompson, Louis W., assignor.)
 General Electric Company. (See Thomson, David P., assignor.)
 General Electric Company. (See Thomson, Elihu, assignor.)
 General Electric Company. (See Tobey, Harry W., assignor.)
 General Electric Company. (See Toewe, Fritz, assignor.)
 General Electric Company. (See Tournier, Julius C., assignor.)
 General Electric Company. (See Townsend, George R., assignor.)
 General Electric Company. (See Traver, Oliver C., assignor.)
 General Electric Company. (See Treanor, Edward D., assignor.)
 General Electric Company. (See Tschopp, Jacob T., assignor.)
 General Electric Company. (See Tuttle, Robert L., assignor.)
 General Electric Company. (See Umansky, Leonid A., assignor.)
 General Electric Company. (See Umezawa, Tsutomu, assignor.)
 General Electric Company. (See Unger, Magnus, assignor.)

- General Electric Company. (See Valentine, Irving R., assignor.)
- General Electric Company. (See Van Amburg, Otto H., assignor.)
- General Electric Company. (See Vogt, Theodore B. H., assignor.)
- General Electric Company. (See Wagner, Edward A., assignor.)
- General Electric Company. (See Walle, Ludvig S., assignor.)
- General Electric Company. (See Warner, Russell A., assignor.)
- General Electric Company. (See Warren, Glenn B., assignor.)
- General Electric Company. (See Warren, Henry E., assignor.)
- General Electric Company. (See Watson, George O., assignor.)
- General Electric Company. (See Watson, Harold L., assignor.)
- General Electric Company. (See Way, Alva O., assignor.)
- General Electric Company. (See Wayringer, Henry A., assignor.)
- General Electric Company. (See Weed, James M., assignor.)
- General Electric Company. (See Weller, Wilhelm, assignor.)
- General Electric Company. (See Weiske, Paul, assignor.)
- General Electric Company. (See Welch, Alfred F., assignor.)
- General Electric Company. (See Weldon, John J., assignor.)
- General Electric Company. (See Weston, Frederick H., assignor.)
- General Electric Company. (See Whitaker, Frank P., assignor.)
- General Electric Company. (See White, William C., assignor.)
- General Electric Company. (See Whiting, Max A., assignor.)
- General Electric Company. (See Wilkinson, James, assignor.)
- General Electric Company. (See Willheim, Raoul, assignor.)
- General Electric Company. (See Williamson, James L., assignor.)
- General Electric Company. (See Wilson, Robert M., assignor.)
- General Electric Company. (See Winter, Fred H., assignor.)
- General Electric Company. (See Witherow, Harry M., assignor.)
- General Electric Company. (See Wright, Daniel K., assignor.)
- General Electric Company. (See Wright, Edward H., assignor.)
- General Electric Company. (See Wright, J. G. E., and Bartlett, assignors.)
- General Electric Company. (See Young, A. P., and Hutt, assignors.)
- General Electric Company. (See Young, Arthur P., assignor.)
- General Electric Company. (See Youtz, Jesse P., assignor.)
- General Electric Company. (See Yuyama, Juzi, assignor.)
- General Electric Company. (See Zebrowski, Willy, assignor.)
- General Electric Company. (See Zelewski, Alexander, assignor.)
- General Electric Company. (See Zelt, Elmer J., assignor.)
- General Electric Company Limited, The. (See Bartlett, A. C., and Le Rossignol, assignors.)
- General Fire Extinguisher Company. (See Hoffman, Herbert E., assignor.)
- General Fire Extinguisher Company. (See Knight, Ira W., assignor.)
- General Fire Extinguisher Company. (See Loepsinger, assignor.)
- General Fireproofing Company, The. (See Brainard, George C., assignor.)
- General Fireproofing Company, The. (See Hoge, William, assignor.)
- General Fuel Briquette Corporation, The. (See Zwoyer, Ellsworth B. A., assignor.)
- General Gas Light Company. (See Humphrey, Hubert R., assignor.)
- General Industries Company, The. (See Bonsieur, Le, assignor.)
- General Insulating and Manufacturing Company. (See Sabin, Clayton R., assignor.)
- General Motors Corporation. (See Anderson, David E., assignor.)
- General Motors Corporation. (See Anibal, Benjamin H., assignor.)
- General Motors Corporation. (See Aseltine, Fred E., assignor.)
- General Motors Corporation. (See Ayers, Joseph G., Jr., assignor.)
- General Motors Corporation. (See Ayers, Joseph G., assignor.)
- General Motors Corporation. (See Ayers, J. G., Chapman, and Berlowitz, assignors.)
- General Motors Corporation. (See Beringer, Roscoe, assignor.)
- General Motors Corporation. (See Blackmore, Lloyd, assignor.)
- General Motors Corporation. (See Bower, Ferdinand A., assignor.)
- General Motors Corporation. (See Brittain, Richard J., Jr., assignor.)
- General Motors Corporation. (See Calingaert, George, assignor.)
- General Motors Corporation. (See Carnowsky, R. R., and Stratman, assignors.)
- General Motors Corporation. (See Chapman, William H., assignor.)
- General Motors Corporation. (See Chase, Theron P., assignor.)
- General Motors Corporation. (See Church, Harold D., assignor.)
- General Motors Corporation. (See Cramer, Raymond H., assignor.)
- General Motors Corporation. (See Davis, William N., assignor.)
- General Motors Corporation. (See Denyes, H. M., and Kull, assignors.)
- General Motors Corporation. (See De Waters, Enos A., assignor.)
- General Motors Corporation. (See Esterbrook, Edward T., assignor.)
- General Motors Corporation. (See Fauser, George, assignor.)
- General Motors Corporation. (See Flint, R. N., and Blackmore, assignors.)
- General Motors Corporation et al. (See Foster, Harry C., assignor.)
- General Motors Corporation. (See Geistert, Albert G., assignor.)
- General Motors Corporation. (See Gibbons, Harold R., assignor.)
- General Motors Corporation. (See Griswold, F. C., and Chapman, assignors.)
- General Motors Corporation. (See Harris, Mark B., assignor.)
- General Motors Corporation. (See Himes, Howard I., assignor.)
- General Motors Corporation. (See Holden, Fenn M., assignor.)
- General Motors Corporation. (See Hunt, Ormond E., assignor.)
- General Motors Corporation. (See Jack, Robert K., assignor.)
- General Motors Corporation. (See Jerome, Benjamin, assignor.)
- General Motors Corporation. (See Kettering, C. F., and Midgley, assignors.)
- General Motors Corporation. (See Knudsen, William S., assignor.)
- General Motors Corporation. (See Krotz, Alvaro S., assignor.)
- General Motors Corporation. (See Lannon, J. D., and Todd, assignors.)
- General Motors Corporation. (See Lefere, Benonie G., assignor.)
- General Motors Corporation. (See Lewellen, Albert R., assignor.)
- General Motors Corporation. (See Lovett, George A., assignor.)
- General Motors Corporation. (See Main, Frank L., assignor.)
- General Motors Corporation. (See McConkey, Montgomery W., assignor.)
- General Motors Corporation. (See McConkey, M. W., and Jones, assignors.)
- General Motors Corporation. (See Midgley, Thomas, Jr., assignor.)
- General Motors Corporation. (See Minch, Walter B., assignor.)
- General Motors Corporation. (See Morrison, Joe W., assignor.)
- General Motors Corporation. (See Parker, G. E., and Stahlhuth, assignors.)
- General Motors Corporation. (See Parker, Guy E., assignor.)
- General Motors Corporation. (See Rummins, John, assignor.)
- General Motors Corporation. (See Ruppert, Albert A., assignor.)
- General Motors Corporation. (See Schadt, Ewald K., assignor.)
- General Motors Corporation. (See Schwarze, H., and Holden, assignors.)
- General Motors Corporation. (See Short, Charles R., assignor.)
- General Motors Corporation. (See Smarr, Benjamin M., assignor.)
- General Motors Corporation. (See Stoll, Herman, assignor.)
- General Motors Corporation. (See Taub, Alex, assignor.)
- General Motors Corporation. (See Tetens, Raymond E., assignor.)
- General Motors Corporation. (See Wells, Reginald E., assignor.)
- General Motors Corporation. (See Whitacre, Clarence J., assignor.)
- General Motors Corporation. (See White, John W., assignor.)
- General Motors Corporation. (See Woodruff, Henry S., assignor.)

- General Motors Corporation. (See Wyzalek, John F., assignor.)
- General Motors Corporation. (See Young, Otto W., assignor.)
- General Motors Research Corporation. (See Aseltine, Fred E., assignor.)
- General Motors Research Corporation. (See Boegehold, Alfred L., assignor.)
- General Motors Research Corporation. (See Chase, Theron P., assignor.)
- General Motors Research Corporation. (See Fabian, Jules, assignor.)
- General Motors Research Corporation. (See Fitzsimmons, John T., assignor.)
- General Motors Research Corporation. (See Fitzsimmons, J. T., and Wallace, assignors.)
- General Motors Research Corporation. (See Geyer, Harvey D., assignor.)
- General Motors Research Corporation. (See Hallett, George E. A., assignor.)
- General Motors Research Corporation. (See Henry, Howard W., assignor.)
- General Motors Research Corporation. (See Hunt, John H., assignor.)
- General Motors Research Corporation. (See Hunt, J. H., and Fitzsimmons, assignors.)
- General Motors Research Corporation. (See Kettering, Charles F., assignor.)
- General Motors Research Corporation. (See Kettering, C. F., and Hunt, assignors.)
- General Motors Research Corporation. (See Kettering, C. F., and Short, assignors.)
- General Motors Research Corporation. (See Lee, C. L., and Van Degrift, assignors.)
- General Motors Research Corporation. (See Mougey, Harry C., assignor.)
- General Motors Research Corporation. (See Pearson, Frank C., assignor.)
- General Motors Research Corporation. (See Short, Charles R., assignor.)
- General Motors Research Corporation. (See Summers, Caleb E., assignor.)
- General Motors Research Corporation. (See Wallace, Hugh, assignor.)
- General Motors Research Corporation. (See Wallace, H., and Hunt, assignors.)
- General Motors Research Corporation. (See Williams, Harry M., assignor.)
- General Motors Research Corporation. (See Williams, H. M., and Bogenhold, assignors.)
- General Norit Company. (See Lourens, Cornelis, assignor.)
- General Optical Co. (See Clement, Hans, assignor.)
- General Optical Company. (See Clement, H., and Dey, assignors.)
- General Optical Company. (See Dey, Gilbert S., assignor.)
- General Petroleum Corporation. (See Dickey, Samuel J., assignor.)
- General Petroleum Corporation of California. (See Dickey, S. J., and Wheeler, assignors.)
- General Petroleum Corporation of California. (See Dickey, Samuel J., assignor.)
- General Phonograph Manufacturing Co. (See Bonsieur, Le, assignor.)
- General Phonograph Manufacturing Company, The. (See Mizer, Edwin N., assignor.)
- General Railway Signal Company. (See Bushnell, Charles S., assignor.)
- General Railway Signal Company. (See Carter, Paul E., assignor.)
- General Railway Signal Company. (See Cave, Henry, assignor.)
- General Railway Signal Company. (See Day, Salisbury M., assignor.)
- General Railway Signal Company. (See Dicke, Oscar H., assignor.)
- General Railway Signal Company. (See Dudley, S. W., and Bushnell, assignors.)
- General Railway Signal Company. (See Estwick, Charles F., assignor.)
- General Railway Signal Company. (See Hailes, William D., assignor.)
- General Railway Signal Company. (See Howe, W. K., and Bushnell, assignors.)
- General Railway Signal Company. (See Howe, Winthrop K., assignor.)
- General Railway Signal Company. (See Larry, Edwin C., assignor.)
- General Railway Signal Company. (See Leake, Richard C., assignor.)
- General Railway Signal Company. (See Peabody, James A., assignor.)
- General Railway Signal Company. (See Reichard, Wade H., assignor.)
- General Railway Signal Company. (See Salmon, Wilmer W., assignor.)
- General Railway Signal Company. (See Sindelband, Maurice L., assignor.)
- General Railway Signal Company. (See Stephenson, James E., assignor.)
- General Railway Signal Company. (See Wenholz, Walter W., assignor.)
- General Rubber Company. (See Gibbons, W. A., and Shepard, assignors.)
- General Rubber Company. (See Jury, A. E., and Smith, assignors.)
- General Rubber Company. (See Mansfield, Daniel E., assignor.)
- General Seafoods Corporation. (See Barry, James J., assignor.)
- General Seafoods Corporation. (See Birdseye, Clarence, assignor.)
- General Shoe Machinery Company. (See Ballard, Harrie A., assignor.)
- General Street Signal Corporation. (See Ruddick, John J., assignor.)
- General Tire and Rubber Company, The. (See Denmire, Harold A., assignor.)
- General Tire & Rubber Company, The. (See Iredell, Robert, assignor.)
- General Tire & Rubber Company. (See Jahant, Charles J., assignor.)
- General Zeolite Company. (See Behrman, Abraham S., assignor.)
- General Zeolite Company. (See Green, W. H., and Behrman, assignors.)
- General Zeolite Company. (See Green, Walter H., assignor.)
- General Zeolite Company. (See Schreier, Arthur, assignor.)
- Genest, Homer A., Hartford, Conn., assignor to United States Hat Machinery Corporation, New York, N. Y. Method of an apparatus for shrinking and feltting felt articles. 1,620,957; Mar. 15.
- Gennis, Mary, et al. (See Herman, Henry, assignor.)
- Genosco, John, San Francisco, Calif. Safety paper. 1,626,078; Apr. 26.
- (Gentes, Vincent, Honolulu, Hawaii. Illuminated screw driver. 1,635,933; July 12.)
- Gensior, Nicholas, et al. (See Szakacs, Joseph, assignor.)
- Gensley, Frank J., Victor, Iowa. Washing machine. 1,631,630; June 7.
- Gensmer, Theodore, Portland, Oreg., assignor to Automatic Transmission Company. Automatic change-speed transmission apparatus. 1,624,097; Apr. 12.
- Gensmer, Theodore, and R. Z. Farmer, Portland, Oreg., assignors to Automatic Transmission Company. Automatic gearless transmission. 1,638,689; Aug. 9.
- Gent, Edgar W., Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Pneumatic valve. 1,613,946; Jan. 11.
- Gent, Edgar W., Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Pneumatic relay. 1,631,958; June 14.
- Gent, Edgar W., Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching device. 1,647,792; Nov. 1.
- Gent, Edward W., Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Terminal bank and constructing it. 1,650,706; Nov. 29.
- Gent, Albert L., Salt Lake City, Utah, assignor, by mesne assignments, to Genter Thickener Company. Thickening mixtures. 1,642,673; Sept. 20.
- Genter, Albert L., and J. A. McCaskell, Salt Lake City, Utah, assignors to United Filters Corporation, New York, N. Y. Removing filter cakes from filter mediums. 1,644,381; Nov. 15.
- Genter Thickener Company. (See Genter, Albert L., assignor.)
- Gentsch, Frank F., Cincinnati, Ohio. Direction signal for motor vehicles. 1,637,744; Aug. 2.
- Gentsch, Theodore, Spokane, Wash. Weeding tool. 1,644,426; Oct. 4.
- Gentz, Herman. (See Balhasar, J., and Gentz.)
- Gentzke, Fritz. (See Kruckenberg, F., and Gentzke.)
- Gentzke, Fritz. (See Weiss, G., and Gentzke.)
- Genung, Gilbert, Chicago, assignor to J. M. Humiston, Beverly, Ill. Earth boring machine. 1,641,926; Sept. 6.
- Geometric Tool Company, The. (See Breitenstein, Albert F., assignor.)
- Geometric Tool Co., The. (See Breitenstein, A. F., and Bartelt, assignors.)
- Geometric Tool Company, The. (See Leonard, Wilbur A., assignor.)
- Geometric Tool Co., The. (See Strickland, Royce M., assignor.)
- Georg, Otto, Dusseldorf, Germany. Ruptural safety reclus. 1,652,352; Dec. 13.
- George, Abram N., South Pasadena, and V. Bressi, Oceanside, Calif. Concrete-laying machine. 1,652,434; Dec. 13.
- George, Barnett L., Salt Lake City, Utah. Flotation agent and making the same. 1,647,793; Nov. 1.
- George, David, Lyndal, Westcross, Wales. Packing of goods. 1,626,525; Apr. 26.
- George, Ellwyn de L., Canon City, Colo. Multiple-arch sling. 1,638,842; Aug. 16.
- George, Enoch, Jr. (See McConway, W., Jr., and George, Jr.)
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling mechanism. 1,641,424; Sept. 6.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupler mounting. 1,644,577; Oct. 4.
- George, Enoch, Jr., Pittsburgh, Pa., assignor to The McConway & Torley Company. Draft yoke. 1,648,339; Nov. 8.

- George, Enoch, jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. 1,648,340; Nov. 8.
- George, Ernest A., Chelsea, England. Cigarette case. 1,650,066; Nov. 22.
- George, Harry F., Chicago, Ill. Tumbler lock. 1,619,252; Jan. 1.
- George, Harry W., Buffalo, N. Y. Microscope attachment. 1,654,369; Dec. 27.
- George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Apparatus for cooling and annealing metal bars. 1,642,437; Sept. 13.
- Georg, John H., Philadelphia, Pa. Safety-plug lock for gas cocks. 1,644,578; Oct. 4.
- George, John W., Ogden, Utah. Device for aiding combustion in furnaces. 1,617,943; Feb. 15.
- George, Ross F., Seattle, Wash. Pen. 1,624,942; Apr. 19.
- George, Thomas A., Fancy Farm, Ky. Mowing-machine-tongue support. 1,639,421; May 31.
- Georgievitch, Nicolas, Paris, France. Impact device. 1,645,477; Oct. 11.
- Georgi, John J., West Orange, N. J. Gas generator. 1,632,285; June 14.
- Gephart, George P., Peabody, Kans. Well-drilling rig. 1,636,631; July 19.
- Gepp, Herbert W., H. Hey, and G. Rigg, Melbourne, Victoria, and R. H. Stevens and R. T. D. Williams, Risdon, Hobart, Tasmania, assignors to Electrolytic Zinc Company of Australasia Limited, Melbourne, Victoria, Australia. Treatment of zinc-bearing ores and metal-lic products. 1,634,100; June 28.
- Geraerds, Jean H., administratrix. (See Geraerds, Theodorius H.)
- Geraerds, Theodorius H., deceased, New York, N. Y.; J. H. Geraerds, administratrix. Reinforcement of master blocks. 1,633,587; Jan. 4.
- Geraghty, John P., Jersey City, N. J. Safety device for internal-combustion engines. 1,652,113; Dec. 6.
- Geran, Henry C., Matawan, N. J. Shipping crate. 1,651,267; Nov. 29.
- Gerau, George B., New Castle, Pa., assignor of one-eighth interest to C. F. Walther, and to G. Zeller, Cleveland, Ohio, one-eighth to C. G. Wallgren, C. M. S. Anderson, and J. S. Johnson, and one-sixteenth to H. W. Johnson and H. G. Johnson. Internal-combustion engine. 1,613,990; Jan. 11.
- Gerbaczewski, Charles, Jersey City, N. J. Clothespin. 1,635,833; July 12.
- Gerber, Bernhard, Stellingen, near Hamburg, Germany. Device for cleaning pipe lines. 1,624,786; Apr. 12.
- Gerber, Lydia M. (See Ulrich, Tomey D., assignor.)
- Gerber, Wilhelm, Krefeld, Germany. Machine for stretching hanks or skeins. 1,638,843; Aug. 16.
- Gerch, Frederick A. (See Hutteman, G. A., and Gerch.)
- Gerchik, Frederick A., Oakland, Calif. Splasher back for stoves. 1,633,089; June 21.
- Gerchik, Frederick A., and J. B. Gardner, assignors to Hammer-Bray Company, Oakland, Calif. Oven door. 1,652,008; Dec. 6.
- Gerdeman, Frank H., assignor to The National Conveyor Company, Findlay, Ohio. Building derrick for bunkers. 1,652,403; Dec. 13.
- Gerdes, Adolf F., Berlin, Germany. Magneto-electric machine. 1,619,926; Mar. 8.
- Gerdien, Hans, Berlin-Grunewald, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Device for determining a difference in length. 1,644,333; Oct. 4.
- Gerdien, Hans, Berlin-Grunewald, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Device for measuring microscopically small distances. 1,648,895; Nov. 15.
- Gerding, Edward A. (See Gerding, Herbert H., and E. A.)
- Gerding, Fred A., Bedford, Ohio. Sprinkler. 1,615,010; Jan. 18.
- Gerding, Herbert H., Newport, and E. A. Gerding, Fort Thomas, Ky. Bottle carrier. 1,625,359; Apr. 19.
- Gerdt, Gustav F., Braunschweig, Germany. Determining critical temperature. 1,630,485; May 31.
- Gerhard, Ferdinand, Konigsberg, and E. Schumacher, Frankfurt-on-the-Main, Germany. Producer with cooling water jacket. 1,618,079; Feb. 15.
- Gerhard, Joseph M., Sheridan, Wyo. Candy-dispensing machine. 1,629,631; May 24.
- Gerhard, Karl F., Hatton, Wash. Duplex pump. 1,640,402; Aug. 30.
- Gerhard, Paul E., assignor to Lebanon Steel Foundry, Lebanon, Pa. Flange-way guard for highway crossings. 1,645,279; Oct. 11.
- Gerhardt, Adelbert P., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working pulpos material. 1,615,374; Jan. 25.
- Gerhardt, William F., Dayton, Ohio. True-air-speed indicator. 1,653,700; Dec. 27.
- Gerier Lighting Fixing Mfg. Co. (See Peinlich, Max.)
- Gerlinger, Moris. (See Peinlich, Max. assignor.)
- Gerke, Frederic L., Troy, N. Y. Windshield wiper operating mechanism. 1,641,753; Sept. 6.
- Gerke, Herman H. (See Schuster, D. O., and Gerke.)
- Gerken, Fred W., Mitchell, S. Dak. Headlight shield. 1,651,765; Dec. 6.
- Gerken, John, Jamaica, N. Y. Automobile washing device. 1,612,913; Jan. 4.
- Gerker, Bernard H., Detroit, Mich. Spare-tire and fender protector. 1,614,725; Jan. 18.
- Gerlach, Fred, et al., trustees. (See Graham, William S., assignor.)
- Gerlach, Oscar, La Salle, Ill., assignor to Matthiessen Hegeler Zinc Co. Rolling zinc. 1,616,033; Feb. 1.
- Gerlach, Oscar, La Salle, Ill. Manufacture of hydraulic cement and the like. 1,627,170; May 3.
- Gerlach, Oscar, La Salle, Ill. Manufacture of plaster material. 1,634,459; July 5.
- Gerlach, Ernst, Ohligs-Solingen, Germany. Manufacturing the knives of razors. 1,635,614; July 12.
- Gerlinger, Carl P., Dallas, Oreg. Lumber carrier. 1,618,330; Feb. 22.
- Gerlinger, Carl F., Dallas, Oreg. Spark consumer. 1,650,120; Aug. 25.
- Gerlinger, Frederick W., Dallas, Oreg. Automobile heater. 1,616,792; Feb. 8.
- Gerlinger, Gertrude, Montebello, Calif. Table decoration. 1,631,631; June 7.
- Germain, Albert A., et al., trustees. (See Germain, Edward F., assignor.)
- Germain, Edward F., et al., trustees. (See Germain, Edward F., assignor.)
- Germain, Edward F., Saginaw, Mich., assignor to L. Germain, jr., A. A. Germain, and J. Heidenkamp, Pittsburg, Pa., and E. F. Germain, Saginaw, Mich., trustees. Making fibrous composition and articles produced therefrom. 1,623,583; Apr. 5.
- Germain, Louis, jr., et al., trustees. (See Germain, Edward F., assignor.)
- German, Howard M., Crafton, assignor to Universal Steel Company, Bridgeville, Pa. Hack saw. 1,616,364; Feb. 8.
- German, Howard M., Crafton, Pa. Hardness-testing machine and method of testing hardness. 1,646,195; Oct. 18.
- Germer, Edward G., Erie, Pa. Stove. Des. 72,206; Mar. 15.
- Germond, Henry S., jr. (See Eldmann, Frank L., assignor.)
- Germond, Henry S., jr., Bayonne, N. J., and H. Green, Yonkers, N. Y., assignors to said Germond. Elevating apparatus. 1,628,239; May 10.
- Germond, Henry S., jr., Bayonne, and F. L. Eldmann, North Bergen, N. J., assignors to said Henry S. Germond, jr. Elevating truck. 1,646,729; Oct. 25.
- Gernandt Motor Corporation. (See Hay, John D., assignor.)
- Gernelle-Danloy, Joseph E., Rouen, France. Grinding, crushing, and mixing machine or mill. 1,636,360; July 19.
- Gerner, Otto G., San Francisco, Calif. Office indicator. 1,616,687; Feb. 8.
- Gerngross, Otto, Grunewald, near Berlin, assignor to the Firm Continentale Aktiengesellschaft für Chemie, Berlin. Production of ammonium chloride and alkali-metal sulphate. 1,634,370; July 5.
- Gerns, William H. (See Brigham, C. A., and Gerns.)
- Gerns, William H. (See Dietrich, F., and Gerns.)
- Gerns, William H. (See Rowe, C. R., and Gerns.)
- Gerns, William H., East Orange, assignor to Brandes Laboratories, New York, N. Y. Cone type loud speaker. Des. 72,368; Apr. 5.
- Gernsback, Hugo, New York, N. Y. Mounting induc-tances. 1,618,002; Feb. 15.
- Gernsback, Hugo, New York, N. Y. Depliator. 1,620,539; Mar. 8.
- Gero, William B., and G. W. Hallock, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Manufac-ture of oxide-coated cathodes. 1,648,941; Nov. 15.
- Gerow, John A., and A. C. Cannon, El Segundo, Calif. Flagpole holder. 1,648,220; Nov. 8.
- Gerrard, Alec J. (See Hintz, Leroy F., assignor.)
- Gerrard, Alec J., and P. Wright, Chicago, Ill.; said Wright assignor to said Gerrard. Portable wire ten-sioning and twisting machine. 1,617,387; Feb. 15.
- Gerrard, Alec J., and P. Wright, Chicago, Ill.; said Wright assignor to said Gerrard. Wire-twisting ma-chine. 1,626,404; Apr. 26.
- Gerrard, Alec J., and P. Wright, Chicago, Ill.; said Wright assignor to said Gerrard. Wire-typing machine. 1,653,164; Dec. 20.
- Gerrard, Alec J., and P. Wright, Chicago, Ill.; said Wright assignor to said Gerrard. Wire-typing machine. 1,653,165; Dec. 20.
- Gerrish, Edward W., West Lynn, Mass. Hinged last. 1,638,627; Aug. 9.
- Gerrish, Edward W., assignor of one-half to Lynn Last Company, Lynn, Mass. Hinged last. 1,612,807; Jan. 4.
- Gersbach, John K., et al. (See Fenner, George E., as-signor.)
- Gershenov, Robert K., Chicago, Ill. Bloomers. 1,616,658; Feb. 8.
- Gershon, Victor P. (See Grosvenor, W. M., and Gershon.)
- Gershorvitz, Barnett, Canton, Ohio. Combined mold and wringer. 1,632,470; June 12.
- Gersmann, Harvey M., Chicago, Ill. Expanded metal. 1,615,578; Jan. 25.
- Gersmann, Harvey M., Chicago, Ill. Expanded sheet metal. 1,621,664; Mar. 22.
- Gersmehl, Vern R., Cheyenne, Wyo. Lamp. Des. 72,996; July 5.

- Gerson, Meyer I., assignor to Union Taxi Owners Association, New York, N. Y. Badge. Des. 73,403; Sept. 6.
- Gerson Stewart Corporation Company, The. (See Goldrick, Albert R., assignor.)
- Gerstmayr, Johann, Berlin, Germany, assignor to General Electric Company. Internal-combustion engine. 1,640,445; Aug. 30.
- Gerstner, August, Richmond Hill, N. Y. Nursing bottle and envelope therefor. 1,617,931; Feb. 15.
- Gerth, Felix, Berlin-Tempelhof, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High-frequency electric furnace. 1,645,526; Oct. 13.
- Gerth, Felix, and W. Fischer, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High-frequency furnace circuit. 1,642,193; Sept. 13.
- Gerth, Lewis W. (See Dailey, J. A., and Gerth.)
- Gertloff, Richard. (See Günther, A., and Gertloff.)
- Gervais, Maurille, and W. Biron, New Bedford, Mass. Pipeette. 1,634,183; June 23.
- Gervais, Walwrigt B., assignor to Variety Fire Door Company, Chicago, Ill. Folding closure and operating same. 1,619,816; Mar. 8.
- Gerwick, Ben C., Berkeley, Calif. Coffin and making the same. 1,624,330; Apr. 12.
- Gerwig, Frederick H. N., North Braddock, Pa. Bosh-cooling plate. 1,647,710; Oct. 25.
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Kummerer, Wilhelm, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches. (See Meissner, Alexander, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches. (See Osnos, Mendel, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches. (See Rukop, Hans, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Schaffer, Walter, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Ufer, 12/13. (See Von Arco, Graf G., assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Zeletzki, Willy, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hegner, Kurt, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Leib, August, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Lock, Michael, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Meissner, Alexander, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Osnos, M., and Kasarnowsky, assignors.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. et al. (See Senn, A., and Schaffer, assignors.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Von Arco, George, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Bronk, Otto, assignor.)
- Gesing, John H., et al. (See Rice, John A., assignor.)
- Gessert, Frederick, Jamaica, N. Y. Kick-back for bowling alleys. 1,625,599; Apr. 19.
- Gessler, Otto, Detroit, Mich. Sash lifter. 1,613,093; Jan. 4.
- Gestetner, D. Limited. (See Gestetner, David, assignor.)
- Gestetner, D. Limited. (See Gestetner, Sigmund, assignor.)
- Gestetner, David, Tottenham Hale, London, assignor to D. Gestetner, Limited, London, England. Duplicating. 1,615,221; Jan. 25.
- Gestetner, David, Tottenham Hale, London, assignor to D. Gestetner, Limited, London, England. Duplicating. 1,650,868; Nov. 29.
- Gestetner, Sigmund, assignor to D. Gestetner Limited, London, England. Stencil sheet and stencil adapted for use in duplicating. 1,614,549; Jan. 13.
- Gestrine, Carl L., Buda, Ill. Card-drying stand. 1,652,114; Dec. 6.
- Getchell, Benjamin E., Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric safety switch. 1,620,814; Mar. 15.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 1,622,907; Mar. 29.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Multiple-circuit switch. 1,626,233; Apr. 26.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Spring means for electric switches. 1,629,911; May 24.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric Switch. 1,648,385; Nov. 8.
- Getchell, Robert M., Dayton, Ohio. Airship mooring drum. 1,622,130; Mar. 22.
- Getchell, Robert M., Dayton, Ohio. Mooring masthead. 1,622,140; Mar. 22.
- Getz, George, et al. (See Snyder, James R., assignor.)
- Gettnar, Karl H., Detroit, Mich. Sash-regulating device. 1,640,931; Aug. 30.
- Getty, Fred I., Jennings, La. Whipstock. 1,625,600; Apr. 19.
- Getz, Benjamin E., Morton, Ill. Washing machine. 1,635,402; July 12.
- Getz, Benjamin E., Morton, Ill. Electric motor. 1,646,400; Oct. 25.
- Getz, Benjamin E., Morton, Ill. Fuel-burning system. 1,650,790; Nov. 29.
- Getz, Phares E., Neosho, Mo. Well bucket. 1,629,912; May 24.
- Geyer, Paeschke & Frey Company. (See Kempter, Philip, assignor.)
- Geulen, Klara, née Schreiber, executrix. (See Geulen, Wilhelm.)
- Geulen, Wilhelm, deceased; K. Geulen, née Schreiber, executrix, assignor to C. Herzog, Freiburg, Germany. Aseptic lighting torch. 1,625,556; Apr. 19.
- Gierink, Edward A., East Cleveland, Ohio. Gas burner and making same. 1,639,693; Aug. 23.
- Gewalt, Otto, Gottenborg, Sweden. Improving the qualities of coffee. 1,636,300; July 19.
- Geyer, Harvey D., assignor to General Motors Research Corporation, Dayton, Ohio. Automobile theftproof device. 1,640,222; Mar. 22.
- Geyer, Harvey D., assignor, by mesne assignments, to The Inland Manufacturing Company, Dayton, Ohio. Hand-wheel. 1,629,075; May 17.
- Geyer, Harvey D., assignor to Dayton, Wright Company, Dayton, Ohio. Liquid level indicator. 1,641,380; Sept. 6.
- Geyer, Harvey D., and A. W. Scott, assignors to The Inland Manufacturing Company, Dayton, Ohio. Locking steering wheel. 1,640,763; Aug. 30.
- Geyer, John W., Pittsburgh, Pa. Christmas-tree holder. 1,614,952; Jan. 18.
- Geyser, Frank R., New York, N. Y. Vacuum tube. 1,624,331; Apr. 12.
- Gfeller, Frederick, Alhambra, Calif. Water-shut-off valve. 1,631,481; June 7.
- Gfeller, Frederick, Alhambra, assignor to Joshua Hendy Iron Works, Sunnyvale, Calif. Water-discharge valve. 1,631,482; June 7.
- Ghegan, John J., East Orange, N. J. Variable grid leak. 1,618,003; Feb. 15.
- Gherassimoff, Nicolas, Le Vesinet, France. Wheel tire. 1,632,731; June 14.
- Giambra, Gandolfo, Paterson, N. J. Coin controlled mechanism. 1,629,211; May 17.
- Giancon, Nicholas, assignor of one-third to J. Reece and E. H. Behrle and one-sixth to R. L. McLaren, St. Louis, Mo. Lapel turner. 1,643,410; Sept. 27.
- Giandonato, Nicola, Philadelphia, Pa. Bolt-cutting device. 1,638,483; Aug. 9.
- Glaum, Atrille, Richmond, Va. Control apparatus. 1,615,693; Jan. 25.
- Glannattasio, Ettore F., New York, N. Y. Driving mechanism. 1,613,991; Jan. 11.
- Gliardino, Joachim, West New York, N. J. Tension device for the harness of looms. 1,623,105; Apr. 5.
- Gliardino, Joseph F. (See Gliardino, Liborio G. and Gliardino, Liborio G.)
- Gliardino, Liborio G. and J. F. Brockton, Mass. Flushing mechanism. 1,639,288; Aug. 16.
- Glaueque, Oscar C. (See Wood, J. W., and Glaueque.)
- Gibb Instrument Company. (See Brueckner, Julius R., assignor.)
- Gibb, John M., and G. M. Jobe, Providence, R. I. Tire-repair tool. 1,645,101; Oct. 31.
- Gibbons, Eugene W., Boulder, Colo. Electric welding apparatus. 1,618,080; Feb. 15.
- Gibbons, Frank J., Worcester, Mass. Detachable arch support. 1,641,886; Sept. 6.
- Gibbons, Harold R., Chatham, N. J., assignor to General Motors Corporation, Detroit, Mich. Antifriction bearing. 1,615,815; Dec. 6.
- Gibbons, Willis A. (See Bradley, C. E., and Gibbons.)
- Gibbons, Willis A. (See Hopkinson, E., and Gibbons.)
- Gibbons, Willis A., Little Neck, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Vulcanizing rubber. 1,654,167; Dec. 27.
- Gibbons, Willis A., and M. G. Shepard, assignors to General Rubber Company, New York, N. Y. Process and apparatus for concentrating fluids. 1,651,764; Dec. 6.
- Gibbs, Alonzo L., and J. A. Gill, Tulsa, Okla. Composition for treating inner tires. 1,620,342; Mar. 8.
- Gibbs, Burton D., Westfield, Mass. Stabilizer for automobiles. 1,618,651; Feb. 22.
- Gibbs, Edward F. G., Washington, D. C. Cutting-off tool. 1,647,989; Nov. 8.
- Gibbs, Frederick H., Trustee. (See Purdy, Walter S., assignor.)
- Gibbs, Frederick H., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Antifriction bearing application. 1,631,318; June 7.
- Gibbs, Harry D., Penns Grove, N. J., and E. L. Frederick, Catonsville, Md., assignors to E. I. Du Pont de Nemours & Company, Wilmington, Del. Making aryl-peri acids. 1,617,313; Feb. 8.
- Gibbs, John H. (See Flood, C. A., and Gibbs.)
- Gibbs, John W., Charleston, Ill. Weeder. 1,641,032; Aug. 30.
- Gibbs Utilities Company. (See Gibbs, William E., assignor.)
- Gibbs, Walter A., Holly Oak, Del. Device and method for removing live decoys. 1,617,153; Feb. 8.
- Gibbs, William E., East Orange, N. J., assignor to Gibbs Utilities Company, New York, N. Y. Oil burner. 1,624,943; Apr. 19.
- Giblin, Marc A. (See Rodgers, T. T., Giblin, and Moore.)
- Gibney, James J., Minneapolis, Minn. Dishwashing machine. 1,637,376; Aug. 2.

- Gibson, Adelbert R., Los Angeles, Calif., and H. E. Schorr, New York, N. Y. Headlight lens. 1,627,498; May 3.
- Gibson, Arthur A., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Regulator for mercury gauges. 1,629,540; Mar. 8.
- Gibson, Charles, New Kensington, assignor to Union Spring & Manufacturing Company, Pittsburgh, Pa. Journal box. 1,629,805; May 24.
- Gibson, Charles J., assignor to Gibson Refrigerator Company, Greenville, Mich. Hanger. 1,647,794; Nov. 1.
- Gibson, Charles M., Rochester, N. Y. Window sash construction. 1,629,076; May 17.
- Gibson, Earl S. (See Williams, S. B., and Gibson.)
- Gibson, Earl S., Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,618,423; Feb. 22.
- Gibson, Ernest L., Dora, Tex. Footrest for automobile accelerators. 1,635,473; July 12.
- Gibson, Frank S., Greenville, Mich. Refrigerator construction. 1,650,791; Nov. 29.
- Gibson, George H., Montclair, N. J. Flow-controlling apparatus. 1,619,253; Mar. 1.
- Gibson, George H., Montclair, N. J. Furnace regulation. 1,627,893; May 10.
- Gibson, George H., Montclair, N. J. Heating boiler feed water. 1,641,138; Aug. 30.
- Gibson, George H., Montclair, N. J., assignor to Cochran Corporation, Philadelphia, Pa. Deaerating water. 1,634,776; July 5.
- Gibson, George H., Montclair, N. J., assignor to Cochran Corporation, Philadelphia, Pa. Water heating and deaerating. 1,636,361; July 19.
- Gibson, George H., Upper Merion, N. J., assignor to Cochran Corporation, Philadelphia, Pa. Deaerating water. 1,618,424; Feb. 22.
- Gibson, George H., Montclair, N. J., assignor to Cochran Corporation, Philadelphia, Pa. Deaerating water. 1,646,132; Oct. 11.
- Gibson, George H., Montclair, N. J., and J. D. Yoder, assignors to Cochran Corporation, Philadelphia, Pa. Water treatment. 1,638,803; Aug. 9.
- Gibson, Harry, Los Angeles, Calif. Garment hanger. 1,638,844; Aug. 16.
- Gibson, Harry, Los Angeles, Calif. Wax-applying tool. 1,639,817; Mar. 8.
- Gibson, Horace N., San Antonio, Tex. Veneer construction and making the same. 1,642,066; Sept. 13.
- Gibson, Hugo C., Philadelphia, Pa. Resilient road wheel. 1,643,473; Oct. 11.
- Gibson, John G., Ventnor, N. J. Water grate. 1,624,230; Apr. 12.
- Gibson, John H., Bruin, Pa. Blade sharpener. 1,644,778; Oct. 11.
- Gibson, Randolph H., Chicago, Ill. Cigar-lighter cabinet. Des. 73,516; Sept. 27.
- Gibson Refrigerator Company. (See Gibson, Charles J., assignor.)
- Gibson, Symon Z., Seattle, Wash. Hair clipper. 1,617,682; Feb. 15.
- Gibson, William A., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Constant temperature heater for sheet glass drawing machines. 1,641,807; Sept. 6.
- Gibson, William J. (See Pike, W. J., and Gibson.)
- Gibson, William E., Forest Hills, N. Y. Chimney. 1,626,808; May 8.
- Gibson, William W., Alameda, Calif. Mill. 1,621,775; Mar. 22.
- Giddings, Lawson H., Pasadena, Calif. Electric furnace. 1,632,126; June 14.
- Giddings & Lewis Machine Tool Company. (See Kempton, Herbert, assignor.)
- Gies, Frank G., assignor to Our Sales and Service Company, Detroit, Mich. Washing machine. 1,652,273; Dec. 13.
- Giese, Barney J., Oconto, Wis. Headlight. 1,618,425; Feb. 22.
- Giese, Henry, assignor to Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa. Ventilator. 1,628,965; May 17.
- Giese, Otto E., Brooklyn, N. Y. Filter. 1,632,960; June 21.
- Giesecke, Hermann. (See Giesecke, Julius and H.)
- Giesecke, Julius and H. G., Leipzig-Leutzsch, Germany. Apparatus for feeding paper sheets. 1,649,401; Nov. 15.
- Giesecke, Henry J., Elizabeth, N. J., assignor to Mrs. K. Goodyear, New York, N. Y. Hydrocarbon burner. 1,633,176; June 21.
- Giesen, Paul, Solingen, Germany. Pocket knife. 1,647,405; Nov. 1.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Regulating device. 1,628,137; May 10.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Steam engine. 1,628,138; May 10.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Thermostatically-regulated incubator. 1,628,139; May 10.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Vapor regulator. 1,628,140; May 10.
- Giesler, Jean V., assignor, by mesne assignments, to The Fulton Siphon Company, Knoxville, Tenn. Combined float and thermostat. 1,648,047; Nov. 8.
- Giesler, Jean V., assignor, by mesne assignments, to The Fulton Siphon Company, Knoxville, Tenn. Packless valve. 1,648,884; Nov. 8.
- Glessel, Henry, Company. (See Hansen, Harold N., assignor.)
- Giest, John W., Ely, Mo. Operating table for animals. 1,632,831; June 21.
- Giffen, Ernest K., Salida, Colo. Process and apparatus for recovering silver from photographer's spent hyposulphite solution. 1,629,212; May 17.
- Gifford, Ernest, Newark, N. J. Rupture or hernia truss. 1,640,065; June 14.
- Gifford, Albert J., Shrewsbury, Mass., assignor to Leland-Gifford Company. Motor support. 1,613,031; Jan. 4.
- Gifford, Albert J., Shrewsbury, and B. S. T. Bishop, assignors to Leland-Gifford Company, Worcester, Mass. Centrifugal-milling machine. 1,649,109; Nov. 15.
- Gifford, Arnold M., and B. Smith, near San Jose, Calif. Trailer hitch. 1,617,709; Feb. 15.
- Gifford, Harrison H., Montreal, Quebec, assignor to Holden Company Limited, Montreal, Canada. Rail anchor. 1,625,938; Apr. 26.
- Gifford, Harrison H., assignor to Holden Company Limited, Montreal, Quebec, Canada. Rail anchor. 1,625,939; Apr. 26.
- Gifford-Wood Company. (See Harding, Howard V., assignor.)
- Giggal, William C., Denver, Colo. 1,627,085; May 3.
- Gilbert, Alfred C., Company, The. (See Gilbert, Alfred C., assignor.)
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy construction element. Des. 73,604; Oct. 11.
- Gilbert & Bark, Manufacturing Company. (See Neal, Franklin G., assignor.)
- Gilbert, Clarence E., Aberdeen, S. Dak. Scarifier. 1,629,784; May 24.
- Gilbert, Clarence E., Aberdeen, S. Dak. Scraper shoe. 1,629,785; May 24.
- Gilbert, Ella J., New York, N. Y. Protector. 1,622,639; Mar. 29.
- Gilbert, Evangeline I., Rochester, N. Y. Appliance for producing dimples. 1,643,221; Nov. 8.
- Gilbert, Frank N. (See Allen, Durward M., assignor.)
- Gilbert, Harry E., Bridgeport, Conn. Still. 1,621,319; Mar. 15.
- Gilbert, Harry E., & Son. (See Gilbert, Harry E., assignor.)
- Gilbert, Harry E., & Son. (See Gilbert, Horace L., assignor.)
- Gilbert, Harry E., assignor to Harry E. Gilbert & Son, Bridgeport, Conn. Galvanizing furnace. 1,649,824; Nov. 22.
- Gilbert, Henry J., Saginaw, Mich. Folding table. 1,627,556; May 10.
- Gilbert, Henry J., Saginaw, Mich. Folding table. 1,627,557; May 10.
- Gilbert, Henry J., Saginaw, Mich. Washboard. 1,628,772; May 17.
- Gilbert, Henry J., Saginaw, Mich. Folding table. 1,628,773; May 17.
- Gilbert, Henry J., assignor to Saginaw Manufacturing Co., Saginaw, Mich. Hub for split pulleys and the like. 1,629,498; May 24.
- Gilbert, Henry J., Saginaw, Mich. Folding table. 1,644,672; Oct. 11.
- Gilbert, Horace L., Devon, assignor to Harry E. Gilbert & Son, Bridgeport, Conn. Heater. 1,649,218; Nov. 15.
- Gilbert, James L. (See Birger, Jacobson, assignor.)
- Gilbert, John J., Douglaston, assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. 1,654,328; Dec. 27.
- Gilbert, Joseph N., Grand Island, Nebr. Apparatus for imparting oscillating motions to rotating fans. 1,634,140; June 28.
- Gilbert, Lewis W., Seneca Falls, N. Y. Automatic switch. 1,635,075; July 5.
- Gilbert, Lovie R. (See Blackston, Edward A., assignor.)
- Gilbert, Max F., Philadelphia, Pa., assignor to Richardson & Boynton Company, New York, N. Y. Heater. 1,627,086; May 3.
- Gilbert, Victor G. W., London, England, and F. H. Steinicke, assignors to Foamite-Childs Corporation, New York, N. Y. Marine fire-extinguishing system. 1,650,267; Nov. 22.
- Gilbert, Walter V., Westminster, London, assignor to Gilbert's Patents Limited, London, England. Detachable-wheel mechanism. 1,627,499; May 3.
- Gilbert, Walter V., Westminster, London, assignor to Gilbert's Patents Limited, London, England. Implement for effecting the relative movement of two elements. 1,631,110; May 31.
- Gilbert, William E., et al. (See Boutin, Stanley, assignor.)
- Gilbert, William N., Hudson Heights, N. J., assignor to Dayton Scale Company, Dayton, Ohio. Pendulum scale. 1,614,726; Jan. 18.
- Gilbert, William N., assignor to International Scale Company, Dayton, Ohio. Scale. 1,650,204; Nov. 22.
- Gilbert's Patents Limited. (See Gilbert, Walter V., assignor.)
- Gilbert, Ansel P., Wausau, Wis. Coin-controlling mechanism for vending machines. 1,613,882; Jan. 11.
- Gilbertson, Eln, Fairchild, Wis. Dishwashing machine. 1,646,749; Oct. 18.

- Gillbough, Benjamin G., Los Angeles, Calif. Automatic oil cup. 1,638,484; Aug. 9.
- Gil-Campro, Enrique. (See Schwartz, Federico, assignor.)
- Gilchrist, Clarence F., assignor, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio. Engine starter. 1,622,377; Mar. 29.
- Gilchrist Company, The. (See Gilchrist, Raymond B., assignor.)
- Gilchrist, James M., assignor to Federal Electric Company, Inc., Chicago, Ill. Electrically-illuminated sign. 1,651,383; Dec. 6.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Drink mixer. 1,616,655; Feb. 8.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Drink mixer. 1,618,650; Feb. 22.
- Gilchrist, William L., Albany, Oreg. Automatic hydraulic ball cock. 1,618,331; Feb. 22.
- Gilchrist, William L., Albany, Oreg. Automatic hydraulic ball cock. 1,646,691; Oct. 25.
- Gilday, Frank, and W. J. Duffy, Mayfield, Pa. Automatic signal system. 1,627,380; May 3.
- Gildea, Christopher W., and W. H. Fry, deceased, Kansas City, Mo.; S. E. Fry, widow of and by decree of court owner of the property of said W. H. Fry. Shock absorber. 1,629,493; May 24.
- Gildemeister, Carl J., San Antonio, assignor of one-half to W. D. McFarlane, Young County, Tex. Key holder. 1,649,402; Nov. 15.
- Gilderdale, Charles W. (See Baker, G. R., Prescott, and Gilderdale.)
- Gildersleeve, John H., Corona, N. Y. Demountable interlocking rim for vehicle tires. 1,623,834; Apr. 5.
- Gildersleeve, John H., and H. J. Faint, Corona, N. Y. Wheel for detachable tires. 1,635,362; July 12.
- Giles, David J., assignor to Latrobe Electric Steel Company, Latrobe, Pa. Cutlery article. 1,633,783; June 28.
- Giles, David J., assignor to Latrobe Electric Steel Company, Latrobe, Pa. Steel alloy. 1,650,707; Nov. 29.
- Giles, Henry G., assignor of one-half to W. H. McFarland, Pittsburgh, Pa. Tire mounting and dismounting device. 1,613,389; Jan. 4.
- Giles, Henry G., assignor of one-half to W. H. McFarland, Pittsburgh, Pa. Tire mounting and dismounting device. 1,637,815; Aug. 2.
- Giles, Isaac F., Yonkers, assignor to Ilette Electric Manufacturing Corporation, Tuckahoe, N. Y. Electric socket. 1,643,655; Sept. 27.
- Giles, Isaac F., Yonkers, assignor to Ilette Electric Manufacturing Corporation, Tuckahoe, N. Y. Multiple-socket electric plug. 1,650,869; Nov. 29.
- Giles, John W., Greer, S. C., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading shuttle for looms. 1,651,089; Nov. 29.
- Giles, Theodore E., Portland, Oreg. assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Measuring instrument. 1,641,266; Sept. 6.
- Giles, Walter D., Leesville, La. Well rigging. 1,621,009; Mar. 15.
- Giles, William, Chicago, Ill. Pan lifter and remover. 1,651,384; Dec. 6.
- Gillespie, Paul E., Dearborn, Mich. Toy. 1,652,934; Dec. 13.
- Gilewicz, Michael K., New York, N. Y. Shoe lace. 1,635,884; July 12.
- Gilg, Henry F. (See Dodds, Ethan L., assignor.)
- Gilg, Henry F. (See Heine, Albert W., assignor.)
- Gill, Alexander F., Johannesburg, Transvaal, South Africa. Gate valve. 1,613,509; Jan. 4.
- Gill, Clarence D., Trenton, N. J. Loading and hauling automobiles. 1,643,885; Sept. 27.
- Gill, Frank, Shortlands, Kent, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Producing coated cores. 1,615,375; Jan. 25.
- Gill, Frank P., Jr., East Cleveland, assignor to The Ferro Machine and Foundry Co., Cleveland, Ohio. Piston. 1,646,998; Oct. 25.
- Gill, James F., and J. N. Chaviara, Liverpool, England. Electrodynamic power-transmitting mechanism. 1,635,319; July 12.
- Gill, Joseph A. (See Gibbs, A. L., and Gill.)
- Gill, Samuel A., Nevada, Iowa. Advertising sign. Des. 72,148; Mar. 8.
- Gill, William E., Lake Geneva, Wis. Battery connection. 1,624,047; Apr. 12.
- Gillam, Arthur L., administrator. (See Gillam, Manly M.)
- Gillam, Manly M., deceased, Flushing, N. Y.; A. L. Gillam, administrator. Device for vaporizing and burning liquid fuel. 1,619,855; Mar. 8.
- Gillam, Wallace R., Tallmadge, assignor to Lambert Tire & Rubber Co., Barborton, Ohio. Tire. Des. 72,825; June 14.
- Gillam, Wallace R., Tallmadge, assignor to Lambert Tire & Rubber Co., Barborton, Ohio. Tire. Des. 72,826; June 14.
- Gillan, Gowan C., assignor to The Ontario Knife Co., Inc., Franklinville, N. Y. Display case and tray. 1,625,647; Apr. 19.
- Gillaspy, Lemuel G. (See Hungate, Fred, assignor.)
- Gilleland, Edgar B., Kansas City, Mo., assignor of one-fourth to J. McSweeney, Council Bluffs, Iowa. Com-mutator brush. 1,643,842; Sept. 27.
- Gillen, Charles J., Carbondale, Pa. Guard for electric meters. 1,647,566; Nov. 1.
- Gillen, George A., Jersey City, N. J., assignor to Gillen Laboratories Corporation, Elmhurst, N. Y. Sound-reproducer mounting. 1,623,785; Apr. 5.
- Gillen, George A., Jersey City, N. J., assignor to Gillen-Kimney, Baker Syndicate Inc., Elmhurst, N. Y. Condenser. 1,626,526; Apr. 26.
- Gillen-Kimney, Baker Syndicate Inc. (See Gillen, George A., assignor.)
- Gillen Laboratories Corporation. (See Gillen, George A., assignor.)
- Gillen, William H., Milwaukee, Wis. Water barrier. 1,632,545; June 14.
- Gilles, Richard L., Fargo, N. Dak. Evaporation meter. 1,625,319; Apr. 19.
- Gillespie, B., K. See Waslo, L. J., and Gillespie.)
- Gillespie, Clarence O., El Paso, Tex. Road-planing device. 1,630,422; May 31.
- Gillespie, George, Bellevue, Pa. Drawing machine. 1,617,632; Feb. 15.
- Gillespie, William F., Stamford, Conn., assignor to Stamford Rubber Supply Company, Mounting for typewriters and the like. 1,622,713; Mar. 29.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Windshield wiper. 1,613,883; Jan. 11.
- Gillet, Benjamin B., Kansas City, Mo. Open-end wrench. 1,626,809; May 3.
- Gillet, Frank E. (See Williams, A. D., and Gillett.)
- Gillet, Lowry, Syosset, assignor to General Chemical Company, New York, N. Y. Sulphur burner. 1,638,902; Aug. 16.
- Gillette, Charles E., Hornell, N. Y. Key-ring holder. 1,632,390; Jan. 4.
- Gillette, George T., Los Angeles, Calif. Coin-wrapping machine. 1,628,240; May 10.
- Gillette, George T., Los Angeles, Calif. Clip and retainer. 1,637,564; Aug. 2.
- Gillette, King C., et al. (See Schmidt, Benjamin F., assignor.)
- Gillette, Lucy M., Milford, Conn. Mattress. 1,647,222; Nov. 1.
- Gillette, Maude M., New York, N. Y. Frame. 1,631,807; June 7.
- Gillette Rubber Co. (See Hutchens, H. O., and Kessler, assignors.)
- Gillette Rubber Company. (See Hutchens, H. O., and Krause, assignors.)
- Gillette Rubber Company. (See Hutchens, Ralph W., assignor.)
- Gillette Safety Razor Company. (See Fairweather, Nelson H., assignor.)
- Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
- Gillette-Schmidt Gear Shift Company. (See Schmidt, Benjamin F.)
- Gillette, Walter H., Long Beach, Calif. Sash fastener. 1,631,370; June 7.
- Gilliam, Belden D., Chicago, Ill. Button-applying implement. 1,636,052; July 19.
- Gilliam, Herman, Columbus, Ohio. Glove. 1,620,643; Mar. 15.
- Gilliam, Herman, Columbus, Ohio. Work glove. 1,637,181; July 26.
- Gillick, Laurence H., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible joint. 1,614,667; Jan. 18.
- Gillick, Lawrence H., St. Paul, Minn., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible joint. 1,620,094; Mar. 8.
- Gillick, Lawrence H., St. Paul, Minn., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible joint. 1,639,800; Aug. 29.
- Gillies, James H., Hobart, Tasmania, Australia. Dirigible headlight. 1,619,068; Mar. 1.
- Gillies, William R., assignor to Equipment Specialties Co., Chicago, Ill. Sealing wall and floor joints, etc. 1,643,934; Oct. 4.
- Gilligan, Frank H., Worcester, Mass. Bridge-warning device. 1,628,720; May 17.
- Gilligan, George H., New Bedford, Mass., assignor to U. S. Ring Traveler Company. Traveler for twister. 1,636,992; July 26.
- Gilliland, Orrin L., assignor of one-fifth to E. L. M. Minn. Minneapolis, Minn. Trend chain for tractors. 1,635,403; July 12.
- Gillinder, Edgar A., Philadelphia, Pa. Manufacturing glass shades and product thereof. 1,652,779; Dec. 13.
- Gilling, Arthur H. (See Pountney, E. C., Gilling, and Akroyd.)
- Gilling, Preston E., East Orange, N. J. Electrical condenser. 1,624,332; Apr. 12.
- Gilling, Preston E., East Orange, N. J. Electrical condenser. 1,624,333; Apr. 12.
- Gilling, Preston E., East Orange, N. J. Electrical condenser. 1,624,334; Apr. 12.
- Gillis, J. W., Co. (See Ford, Fred A., assignor.)
- Gillis, Julius H., Elizabeth, N. J., assignor, by mesne assignments, to Anaconda Sales Company. Roofing element and making the same. 1,625,888; Apr. 26.
- Gills, Lyle N., Rosecrest, Va. Degumming. 1,619,111; Mar. 1.

- Gillis, Lyle N., Rose Crest, Va., assignor of one-half to The Flororia Corporation, and one-half to E. J. Newcomer, Baltimore, Md. Floor-polishing machine. 1,635,474; July 12.
- Gillman, John J., Muskegon, assignor to Solar-Polar Storm Sash and Screen Co., Muskegon Heights, Mich. Window construction. 1,628,879; May 17.
- Gillmor, Horatio G., Washington, D. C. Antireepeer. 1,635,506; July 19.
- Gillmor, Horatio G., Washington, D. C. Antireepeer. 1,647,350; Nov. 1.
- Gillmor, Horatio G., Washington, D. C. Rail anchor. 1,647,909; Nov. 1.
- Gillot, Henri F., Lyon, France. Weaving loom. 1,613,320; Jan. 4.
- Gilson, Charles B. (See Stolp, Samuel S., assignor.)
- Gillson, Louis K., Wilmette, Ill. Fuel-throwing vane or shovel. 1,627,381; May 3.
- Gilman, A. S. (See Burdell, Arthur, assignor.)
- Gilman, Albert E., assignor to King & Hamilton Company, Ottawa, Ill. Corn sheller. 1,614,921; Jan. 13.
- Gilman, Arthur S. (See Strawn, Ervin E., assignor.)
- Gilman, Charles D., Oakland, Calif. Apparatus for supporting tree limbs and the like. 1,621,776; Mar. 22.
- Gilman, Charles D., Oakland, Calif. Clamping band for tree limbs. 1,635,090; June 21.
- Gilman Fanfold Company. (See Bonnar, Henry O., assignor.)
- Gilman Fanfold Corporation, Ltd. (See Mannhardt, R. T. and Hitzel, assignors.)
- Gilman, George H., Boston, Mass. Material-handling apparatus. 1,614,787; Jan. 18.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,616,486; Feb. 8.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,616,487; Feb. 8.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,616,488; Feb. 8.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,616,489; Feb. 8.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,616,490; Feb. 8.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,632,400; June 14.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,635,475; July 12.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,635,934; July 12.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,642,949; Sept. 20.
- Gilman, George H., Claremont, N. H. Tool-steel-retaining device. 1,642,950; Sept. 20.
- Gilman, George H., Belmont, Mass. Drilling machine. 1,644,120; Oct. 4.
- Gilman, George W., Attleboro, Mass., assignor, by mesne assignments, to The Parker Pen Company, Janesville, Wis. Pencil. 1,632,371; June 14.
- Gilmer, Ludwell H., Philadelphia, Pa. Collar. 1,614,118; Jan. 11.
- Gilmer, Ludwell H., Philadelphia, Pa. Collar. 1,642,544; Sept. 13.
- Gilmot Products Corporation. (See Hopkins, Nevil M., assignor.)
- Gilmore, Benjamin V., Ganley Bridge, W. Va. Inner-tube foot. 1,640,403; Aug. 30.
- Gilmore, Forrest E., assignor of one-sixth to F. Ahlburg, Los Angeles, and one-sixth to W. K. White, San Francisco, Calif. Method of and apparatus for making gasoline. 1,649,345; Nov. 15.
- Gilmore, John M., Chicago, Ill. Motor. 1,613,884; Jan. 11.
- Gilmore, Lou S., assignor, by mesne assignments, to Tourist Supply Company, Los Angeles, Calif. Tourist's kitchenette or cabinet. Re16,664; June 28.
- Gilmore, Thomas S., La Grande, Ore. Pneumatic sander. 1,637,609; Aug. 2.
- Gilmore, William L., Port Washington, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Company, Inc., Garden City, N. Y. Variable lift—variable resistance aerofoil. 1,631,259; June 7.
- Gilmore, William L., Mineola, assignor to Curtiss Aeroplane & Motor Company, Incorporated, Garden City, N. Y. Aeroplane. 1,639,029; Aug. 16.
- Gilmour, Benjamin R., Yonkers, N. Y. Game. 1,638,094; Aug. 9.
- Gilmour, John P., Terre Haute, Ind. Lock nut. 1,651,268; Nov. 29.
- Gilovitz, Benjamin, Bronx, New York, assignor of one-third to A. Fishbain, New York, N. Y. Fire escape. 1,615,753; Jan. 25.
- Gilpin, Francis. (See van Diest, E. C. and Gilpin.)
- Gilpin, Garth G., Riverside, Ill., assignor to P. H. Murphy Company, New Kensington, Pa. Metal roof for freight cars. 1,631,260; June 7.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Positioning device for railway car couplers. 1,636,180; July 19.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated metallic plate for railway cars. 1,638,153; Aug. 9.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated structure for railway cars. 1,638,154; Aug. 9.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Reinforcing hopper door for railway cars. 1,638,155; Aug. 9.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated metallic plate for railway cars. 1,638,156; Aug. 9.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Hopper door for railway cars. 1,638,157; Aug. 9.
- Gilpin, Garth G., Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill. Corrugated structure for railway cars. 1,645,190; Oct. 11.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. End structure for railway cars. 1,649,461; Nov. 15.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated structure for railway cars. 1,649,462; Nov. 15.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated structure for railway cars. 1,649,463; Nov. 15.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated car part. 1,649,464; Nov. 15.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Upper buffer mechanism. 1,649,465; Nov. 15.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Car-coupler-positioning device. 1,649,466; Nov. 15.
- Gilpin, Garth G., Riverside, Ill., assignor, by mesne assignments, to Railway Metal Products Company, Freight-car door. 1,649,582; Nov. 15.
- Gilpin, Paul. (See Adie, H. P. and Gilpin.)
- Gilpin, Victor L., and C. R. Wells, Baltimore, Md.; said Wells assignor to said Gilpin. Automobile lock. 1,635,079; July 5.
- Gilpin, Victor L., and C. R. Wells, Baltimore, Md.; said Wells assignor to said Gilpin. Automobile lock. 1,635,080; July 5.
- Gilson, Albert F. F., Oradell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system and apparatus. 1,653,898; Dec. 27.
- Gilson, John P., assignor to Kwik-Mix Concrete Mixer Co., Port Washington, Wis. Concrete mixer. 1,654,168; Dec. 27.
- Gilson, Lorenzo H., Brockton, Mass. Shoe-bottom construction. 1,639,769; Aug. 23.
- Gilson, Lorenzo H., Brockton, Mass. Innersole-channel filler. 1,639,770; Aug. 23.
- Gilson Manufacturing Company. (See Donald, Forrest V., assignor.)
- Gilson Manufacturing Company. (See Travers, Charles J., assignor.)
- Gilson, Michael, assignor to Kwik-Mix Company, Port Washington, Wis. Concrete mixer. 1,648,446; Nov. 8.
- Gilson, Robert M. (See Beall, C. R. and Gilson.)
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical switching apparatus. 1,619,860; Mar. 1.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,627,322; May 3.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,628,313; May 10.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,631,808; June 7.
- Gilson, Robert M., Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,646,401; Oct. 25.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,653,358; Dec. 20.
- Gimbel, Herbert E. (See Kofsky, H. M., and Gimbel.)
- Gimpel, Julius H., Decatur, Ill. Brake-beam safety hanger. 1,634,902; July 5.
- Ginsburg, Raymond H., Waukegan, Ill. Toothbrush cabinet. 1,625,202; Apr. 19.
- Ginger, Frank M., assignor of one-third to H. J. Olsen and one-third to W. G. Blankinship, El Dorado, Kans. Indicator for railroad cars. 1,645,193; Oct. 11.
- Gingras, Edward F., Buffalo, N. Y. Belt fastener. 1,635,624; Dec. 27.
- Gingras, Louis J., and A. St. Onge, Websterville, Vt. Door holder. 1,626,810; May 3.
- Ginsburg, Abe. (See Lerner, H., and Ginsburg.)
- Ginsburg, Henry, New York, N. Y., assignor to Roach-Appleton Manufacturing Company, Chicago, Ill. Out-leak-box support. 1,639,496; Aug. 16.
- Ginsch, Marcus O., Corona, assignor of one-third to J. E. Sloe and one-third to H. J. Garfunkel, New York, N. Y. Egg-shipping box. 1,620,541; Mar. 8.
- Ginzkey-Maffersdorf, Inc. (See Dickinson, Stella B., assignor.)
- Glometti, John, San Francisco, Calif. Marble grinding and polishing machine. 1,653,166; Dec. 20.
- Glowny, S. S., St. Louis, Mo. Brake for motor vehicles. 1,614,119; Jan. 11.
- Giraldi, Armando, East Braintree, Mass. Muscle exerciser. 1,623,869; Apr. 5.
- Girard, Frank L., Siltcoos, Ore. Convertible seat for vehicles. 1,652,124; Dec. 6.

- Girard, Fritz, Hanau-on-the-Maine, Germany. Reflector for quartz lamps. 1,633,525; June 21.
- Girard, Fritz, assignor to the Firm: Quarzlampe-Gesellschaft mit beschränkter Haftung, Hanau-am-Main, Germany. Irradiation device for therapeutical and other purposes. 1,622,142; Mar. 22.
- Girard, Henry A., Hartford, Conn. Automotive tool. 1,623,786; Apr. 5.
- Girard, Louis J., Thionville at Suresnes, France. Relay. 1,636,933; July 26.
- Girard, Max (See Gams, A. and Girard.)
- Girardeau, Emile, (See Betbenod, J. and Girardeau.)
- Girardier, Wilton A. and B. B. Hibbard, St. Clair, Mo. Governor for gas engines. 1,632,471; June 14.
- Girardin, Augusta F., Dampierre, France. Acetylene generator. 1,649,682; Nov. 15.
- Girler, Samuel B., Montclair, N. J. Receptacle. 1,634,777; July 5.
- Girdwood-Blackett, Roirden B., Santo Domingo, Dominican Republic. Car or wagon. 1,651,693; Dec. 6.
- Giri, Christian, assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Automobile bumper. 1,623,404; Apr. 5.
- Girling, Albert H. G., Harlow, England. Braking mechanism. 1,619,718; Mar. 1.
- Giroux, Philip S., West Warren Mass. Stop motion for spinning machines. 1,623,964; Apr. 12.
- Giroux, Pierre E., Johnston, N. Y. Slipper. 1,613,321; Jan. 4.
- Girten, Charles E., Houston, Tex. Belt clamp. 1,637,694; Aug. 2.
- Girton, Charles E. (See Woodall, W. T. and Girton.)
- Girton, Thomas C., and F. J. P. Kuhlmann, assignors to H. M. Goldberg Co., San Francisco, Calif. Awning frame. 1,620,958; Mar. 15.
- Gister, Julia, Staten Island, N. Y. Shield for nursing bottles. 1,649,580; Nov. 15.
- Giske, Walter P., Chicago, Ill. Electrical connector. 1,636,413; July 10.
- Gist, Sabe G., Stockton, Calif. Awning construction. 1,618,184; Feb. 22.
- Giszczynski, Stanley, Philadelphia, Pa. Umbrella runner. 1,644,579; Oct. 4.
- Gittins, George E. (See Coates, W. A., Gittins, and Davies.)
- Given, Guy C. (See Shipley, S. D. and Given.)
- Givens, Ralph D., Leamington, England, assignor to General Electric Company. Electric-motor control for feed mechanisms. 1,648,080; Nov. 8.
- Givens, Alex., St. Petersburg, Fla. Combined curtain, shade, and drapery support. 1,636,601; July 19.
- Givens, Maurice H. (See Hill, C. B., and Givens.)
- Gizewski, John, assignor of one-half to J. J. Klimoski, Denver, Colo. Headlight-control switch. 1,623,937; Apr. 5.
- Gjankovich, Stanko, New York, N. Y. Spinning device. 1,639,844; Aug. 23.
- Glabbau, Charles A. (See Wagner, T. B., and Glabbau.)
- Glberman, Harry, Brooklyn, N. Y. Display rack. 1,636,771; July 26.
- Glberman, Harry, assignor to National Form & Fixture Co., Brooklyn, N. Y. Base for display fixtures or similar articles. Des. 73,908; Nov. 22.
- Glincken, Edward F., Brooklyn, N. Y. Bottle. 1,650,440; Nov. 22.
- Glader, Wm., Machine Works. (See Neuhengen, Alexander J., assignor.)
- Gladstone, William D., New York, N. Y. Key holder. 1,621,777; Mar. 22.
- Gladstone, William D., New York, N. Y. Drum-supporting device. 1,630,701; May 31.
- Gladstone, William D., New York, N. Y. Operating device for cymbals. 1,643,553; Sept. 27.
- Gladstone, William D., New York, N. Y. Operating device for cymbals. 1,647,795; Nov. 1.
- Gladwell, Harry D., Dulwich, England. Crumb brush and tray. 1,650,507; Nov. 22.
- Gladwill, Rudolf H., Ada, and G. M. Ramsey, Altus, Okla. Check-endorsing attachment for adding machines. 1,620,542; Mar. 8.
- Glaenzler, Harry, Philadelphia, Pa. Driving wheel for locomotives, etc. 1,638,663; Aug. 9.
- Glaesener, Fred, Castleford, Idaho. Agricultural implement. 1,626,811; May 3.
- Glaesser, Walter, Brooklyn, N. Y. Producing mercury. 1,637,481; Aug. 2.
- Gleze, Frederick L. and O. C. Cooper, Winchester, Va. Fruit grader. 1,650,441; Nov. 22.
- Glans, Jöns E. (See Glans, Karl J. and J. E.)
- Glans, Karl J. and J. E., Stockholm, Sweden. Firearm. 1,632,892; June 21.
- Glascock Brothers Manufacturing Company. (See Frick, Chester A., assignor.)
- Glascock Brothers Manufacturing Company. (See Frick, C. A., and Dwight, assignors.)
- Glasby, Jonathan P., Jr., Verona, N. J. Cooling system for crank cases of internal-combustion engines. 1,645,134; Oct. 11.
- Glasel, Charles J., New York, N. Y. Tanning apparatus. 1,628,966; May 17.
- Glaser, Frank S., et al. (See Anschutz, Edward C., assignor.)
- Glaser, Julius M., et al. (See Anschutz, Edward C., assignor.)
- Glaser, née Plettl, Creszenzia, Paris, France. Protecting the gelatin coating of photographic plates and films. 1,640,148; Aug. 23.
- Glasgow, William R., St. Louis, Mo. Machine for handling materials. 1,613,992; Jan. 11.
- Glashow, Lewis, New York, N. Y. Steam boiler. 1,641,162; Sept. 6.
- Glassner, Rudolph W., and J. Nelson, assignors to Marquette Tool & Manufacturing Co., Chicago, Ill. Blank-holding means. 1,619,069; Mar. 1.
- Glasner, Rudolph W., and O. G. Nilson, assignors to Marquette Tool & Manufacturing Company, Chicago, Ill. Blank-holding means. 1,625,891; Apr. 26.
- Glass, Clifton A., Kansas City, Mo. Oil tank. 1,651,959; June 14.
- Glass, Clifton A., Kansas City, Mo. Deck for oil tanks. 1,650,340; Nov. 22.
- Glass Container Association of America. (See Ford, Karl L., assignor.)
- Glass, James A., Windsor, Ontario, Canada. Ventilating window construction. 1,643,554; Sept. 27.
- Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,652,274; Dec. 13.
- Glass, Peter, New Haven, Conn. Carpenter's rule. 1,652,980; Dec. 13.
- Glass, Walter L. (See Rogers, B. W., and Glass.)
- Glassen, Charles E., Columbia, Ill., assignor to Columbia Quarry Company, St. Louis, Mo. Dumping apparatus. 1,646,815; Oct. 25.
- Glasser, Thomas, Red Bank, N. J. Vise. 1,636,181; July 19.
- Glasshoffer, Daniel, Roselle, N. J. Animal trap. 1,624,548; Apr. 12.
- Glassmobile Company. (See Loud, William C., assignor.)
- Glasspell, Herbert, assignor of one-half to H. J. Balkema, Grand Rapids, Mich., and one-half to C. Dregge. Luggage carrier. 1,651,950; Dec. 6.
- Glatte, William, New York, N. Y. Variable-stroke pump. 1,645,420; published Oct. 11.
- Glauber, Myron J., Los Angeles, Calif. Combination spot and spray fixture. 1,652,956; Dec. 27.
- Glaubit, Arthur. (See Regelein, W. and Glaubit.)
- Glaubit, Arthur, assignor to the Firm: Thyssen & Co. Aktiengesellschaft, Mulheim-Ruhr, Germany. Rotor for electrical machines. 1,637,182; July 26.
- Glaudel, George, Los Angeles, assignor of fifteen per cent to H. Miller, South Pasadena, Calif. Glass-grinding machine. 1,617,106; Feb. 8.
- Glaus, Marie, Union City, N. J. Door alarm. 1,632,893; June 21.
- Glaze, Herbert L., South Pasadena, assignor of one-half to A. R. Mans Chemical Co., Los Angeles, Calif. Dispensing matter into finely-divided form. 1,625,203; Apr. 19.
- Glaze, Herbert L. and G. C. Humphrey, assignors to United Products Company, Inc., Los Angeles, Calif. Die. 1,653,269; Dec. 20.
- Glaizer, Robert C., et al., executors. (See Chapin, Charles E., assignor.)
- Glaizer, Robert C., et al., executors. (See Chapin, Charles E., assignor.)
- Gleason, Dennis E. (See Maurer, Frank, assignor.)
- Gleason, Frederick H., New York, N. Y. Automobile chassis-lubricating device. 1,629,453; May 17.
- Gleason, James E., assignor to Gleason Works, Rochester, N. Y. Machine for cutting gears. 1,616,257; Feb. 1.
- Gleason, James E., and E. C. Head, assignors to Gleason Works, Rochester, N. Y. Producing gear teeth. 1,617,445; Feb. 15.
- Gleason, James J., Stamford, Conn. Oil burner. 1,618,185; Feb. 22.
- Gleason, James J., assignor to Walter L. Parker Company, Lowell, Mass. Spool and making the same. 1,630,791; May 31.
- Gleason-Tiebout Glass Company. (See Barnes, Stanley H., assignor.)
- Gleason, William P. (See Meaker, J. W. and Gleason.)
- Gleason Works. (See Bullock, Edward W., assignor.)
- Gleason Works. (See Candee, A. H., and Johanson, assignors.)
- Gleason Works. (See Gleason, James E., assignor.)
- Gleason Works. (See Gleason, J. E., and Head, assignors.)
- Gleason Works. (See Finsen, Evind, assignor.)
- Gleason Works. (See Head, Ernest C., assignor.)
- Gleason Works. (See Johanson, Magnus H., assignor.)
- Gleason Works. (See Jolls, Le Roy E., assignor.)
- Gleason Works, The. (See Logue, Charles H., assignor.)
- Gleason Works. (See Slade, Alton P., assignor.)
- Gleason Works. (See Taylor, Herbert E., assignor.)
- Gleason Works. (See Troblevich, Nikola, assignor.)
- Gleason Works. (See Wildhaber, Ernest, assignor.)
- Gledhill, Arthur H., Halifax, England. Workman's time recorder. 1,623,000; Mar. 29.
- Gledhill, Edward C., Gallon, Ohio. Grader. Re16,624; May 17.
- Gledhill, Edward C., Gallon, Ohio. Steering gear for road graders. 1,629,573; May 24.
- Gledhill, Edward C., Gallon, Ohio. Vehicle guard. 1,643,555; Sept. 27.
- Gleeson, William H., San Francisco, Calif. Copyholder. 1,640,121; Aug. 23.

- Gleichmann, Hans, Berlin-Siemensstadt, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, Germany. System or arrangement for tapping or bleeding steam. 1,653,560; Dec. 20.
- Gleichrichter-Aktien-gesellschaft, The Firm. (See Seitz, Oskar, assignor.)
- Glein, Ferdinand, assignor to the Firm Wales Adding Machine Company, Schaffhausen, Switzerland. Carriage-moving mechanism for typewriters and adding machines. 1,640,764; Aug. 30.
- Glen, John. (See Simpson, J., and Glen.)
- Glen, Lauchlan M., assignor of one-half to C. R. Mac-Gillivray, Johannesburg, Transvaal, South Africa. Pipe-coupling means for making steam and other fluid-tight joints. 1,642,728; Sept. 20.
- Glenister, Annie, Ipsom, England. Spring roller for blinds and screens. 1,628,835; Apr. 5.
- Glenn, Howard A., and L. S. Dromgold, Chicago, Ill. Hopper for refrigerating cars. 1,639,176; Aug. 16.
- Glenn, Ivo B., et al. (See Williams, Arthur J., assignor.)
- Glenn, William F., jr., et al. (See Williams, Arthur J., assignor.)
- Glennan, William S., Norfolk, Va. Freezing process. 1,641,199; Aug. 30.
- Glennon, James, Rochester, Minn. Dirigible headlight. 1,644,427; Oct. 4.
- Glennon, Michael F., Glen Ridge, N. J. Lead pencil. 1,636,927; Mar. 28.
- Glennon, Michael J., Summit, and H. G. Higham, Murray, Hill, N. J. Instructing golf strokes. 1,637,339; Aug. 2.
- Glenny, Andrew M. (See Webster, Milton W., assignor.)
- Glenshaw Glass Company. (See Meyer, J. J., jr., and Lepper, assignors.)
- Glennwood Range Company. (See Wilde, Samuel A., assignor.)
- Glessner, Charles E., Portland, Oreg. Optical instrument. 1,649,303; Nov. 15.
- Glezen, Lee L. (See Shackleton, S. P., and Glezen.)
- Glezen, Lee L., Millburn, and S. P. Shackleton, Wyoming, N. J., and E. Vroom, Ossining; said Vroom assignor to Western Electric Company, Incorporated, New York, N. Y.; said Glezen and said Shackleton assignors to American Telephone and Telegraph Company. Telephone system. 1,647,796; Nov. 1.
- Glick, Benjamin, et al. (See Weiss, Max M., assignor.)
- Glick, Herman H., et al. (See Stowell, Francis H., assignor.)
- Glick, Isaac M., Boston, Mass. Antitheft device. 1,637,858; Aug. 2.
- Glieberman, Abraham. (See Kirsch, J., and Glieberman.)
- Gliebenberg, Leo, Leoben, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuff from an aminodiphenyloxy. 1,624,944; Apr. 19.
- Glitzke, Ewald C., Kansas City, Mo. Control for electric furnaces. 1,650,624; Nov. 29.
- Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
- Globe Company, The. (See Honold, Gottlob F., assignor.)
- Globe Lighting Fixture Manufacturing Co. (See Petersen, Thorvald J., assignor.)
- Globe Lighting Fixture Mfg. Co. (See Petersen, Thorvald J., assignor.)
- Globe Lighting Fixture Mfg. Co. (See Rosenblatt, Isidor, assignor.)
- Globe Lighting Fixture Mfg. Co. (See Villaret, Gustave E., assignor.)
- Globe Machinery & Supply Company. (See Bristol, Cyrus J., assignor.)
- Globe Machinery and Supply Company. (See Harshbarger, Franz S., assignor.)
- Globe Match Corporation. (See Christianson, A. W., and Milligan, assignors.)
- Globe Register Company, The. (See Konerman, H. H., and Imbus, assignors.)
- Globe-Wernicke Company. (See Ringler, William A., assignor.)
- Globus, Henry, Cleveland, Ohio. Perforated illuminated sign and its manufacture. 1,647,090; Oct. 25.
- Glock, Friedrich A. (See Zimmermann, J., and Glock.)
- Glocksteinwerke Aktien-gesellschaft vorm. Rich Linden-burg. (See Oertel, Wilhelm, assignor.)
- Glockier, Bernard, Company. (See Ehrgrott, Karl, assignor.)
- Glockler, John E., Pittsburgh, Pa. Sheet-metal sink construction. 1,642,853; Sept. 20.
- Glockner, John E., Pittsburgh, Pa. Supporting means for horizontally disposed surfaces. 1,645,421; Oct. 11.
- Glorient, Inc. (See Matthews, Joseph M., assignor.)
- Gloss, Alois A., assignor of twenty-five one-hundredths to G. J. Devoto and twenty-six of one-hundredths to C. B. Herbst, St. Louis, Mo. Internal-combustion motor. 1,644,908; Jan. 18.
- Gloss, Samuel D., and W. Wright, assignors, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,654,252; Dec. 27.
- Gloffely, W. Bruce. (See Howe, Charles A., assignor.)
- Glover Corporation. (See Sturm, Frank K., assignor.)
- Glover, Amos L. (See Glover, Smith, Jr., and A. L.)
- Glover, Charles A., Lincoln, Mass. Extension foot for ladders. 1,624,945; Apr. 19.
- Glover, Fred, Caulfield, Victoria, Australia. Jet and spray nozzle. 1,633,012; June 21.
- Glover, Hubert, Boyles, Ala. Slip-on repair top for automobiles. 1,613,270; Jan. 4.
- Glover, John, Chicago, Ill. Mop. 1,617,329; Feb. 15.
- Glover, Smith, Jr., and A. L. Glover, Loneke, assignors to Glover Tool Company, Little Rock, Ark. Bushing re-ducer. 1,641,787; Sept. 6.
- Glover Tool Company. (See Glover, Smith, Jr., and A. L., assignors.)
- Glover, Walter II., Bedford, and E. Van Weyenbergh, Coventry, assignors to Courtaulds Limited, London, England. Making acylated cellulose ethers. 1,613,451; Jan. 4.
- Glover, William C., Kansas City, Mo. Gasoline filter. 1,624,832; Apr. 12.
- Glover, William C., Kansas City, Mo. Apparatus for re-claiming used gasoline. 1,639,373; Aug. 16.
- Glowacki, Charles, Philadelphia, Pa. Garter. 1,631,261; June 7.
- Glowacki, John B., Chicago, Ill. Fuse plug, screw type, with indicator. 1,636,182; July 19.
- Glowacki, Michael, Shennadoh, Pa. Adjustable propeller for aeroplanes. 1,649,296; Nov. 15.
- Gluck, Julius, New York, N. Y., assignor, by mesne assignments, to Ohmer Fare Register Company, Dayton, Ohio. Taximeter. 1,612,864; Jan. 4.
- Gluck, Julius, and R. R. Karich, assignors to The Yellow Taxi Corporation, New York, N. Y. Taximeter. 1,650,121; Nov. 22.
- Gluck, William S. (See Bernstein, Alexander, assignor.)
- Gluck, William S., New York, N. Y., assignor to The Lox Seal Corporation. Pile-wire cutter. 1,616,316; Feb. 1.
- Gluid, Wilhelm, Dortmund-Eving, Germany. Manufacture of hydrocyanic acid. 1,622,455; Mar. 29.
- Clund, Wilhelm, Dortmund, Germany, assignor to The Koppers Company, Pittsburgh, Pa. Removing sulphureted hydrogen from gases. Re1,651; May 24.
- Gluyas, Edwin L., Maricao, Calif. Sucker rod and plunger rotator. 1,633,013; June 21.
- Glynn, Joseph C., Minneapolis, Minn. Poultry roost. 1,618,186; Feb. 22.
- Gmelin, Eugene C. (See Muehlenbeck, Fred P., assignor.)
- Gminder, Emil, Reutlingen, Germany. Elimination of fibrous waste from machines. 1,637,340; Aug. 2.
- Gnaud, Lawrence C., Lima, Ohio. Liner for pipe openings and producing the same. 1,651,269; Nov. 29.
- Goates, John E. (See Conant, M. A., and Goates.)
- Gobbato, Vittorio, Milan, Italy. Mechanism for reproducing all the movements of the steps of quadrupeds. 1,638,332; Aug. 9.
- Gobiet, Alfred, Karwin, Czechoslovakia. Screen or sieve for separating purposes. 1,642,652; Sept. 13.
- Goble, Fred J., administrator. (See Day, David T.)
- Goble, Lawrence E., Columbia City, Ind. Combined incubator and hover. 1,614,727; Jan. 18.
- Goble, William E., Orsoli, Calif. Brush shredding and cutting machine. 1,643,341; May 8.
- Gobos, Stefan, Chicago, Ill. Device for causing vehicle signal lights to flicker. 1,620,955; Mar. 15.
- Gocke, James B. (See Wilson, C. A., Gocke, and De Corse.)
- Gocke, James B., and C. F. De Corse, Los Angeles, Calif.; said De Corse, assignor to said Gocke. Pipe straightener. 1,623,405; Apr. 5.
- Goddard, Louis. (See Latty, Teodoro, assignor.)
- Goddard, George E., Detroit, Mich., assignor, by mesne assignments, to Dodge Brothers, Inc. Separable auto body construction. 1,644,826; Oct. 11.
- Goddard, Walter T., Hamilton, Ontario, Canada, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,621,246; Mar. 15.
- Goddard, Walter T., Hamilton, Ontario, Canada, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,625,601; Apr. 19.
- Goddard, Walter T., Hamilton, Ontario, Canada, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,628,241; May 10.
- Goddell, Frank R. (See Kenyon, F. C., Jr., and Goddell.)
- Goddu, George. (See Mackenzie, F. L., and Goddu.)
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on boots and shoes. 1,614,836; Jan. 13.
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,642,729; Sept. 20.
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,643,550; Sept. 27.
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Controlling mechanism. 1,651,152; Dec. 6.
- Goddin, William, Winchester, assignor to L. S. Avak & Co., Boston, Mass. Valve construction for liquid-dispensing pipes. 1,652,142; Dec. 6.
- Goddin, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,633,006; Dec. 20.
- Goddu, George, Winchester, and F. L. Mackenzie, licensor, assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting mechanism. 1,620,200; Mar. 8.
- Godofroy, Alexandre E., St. Louis, Mo. Solenoid motor. 1,635,935; July 12.

- Godfrey, Edward R., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Rebound check. 1,641,381; Sept. 6.
- Godfrey, Alfred A., assignor to Linoleum Manufacturing Company, Limited, London, England. Manufacture of linoleum. 1,653,270; Dec. 20.
- Godfrey, Edward J., Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company. Making brief cases. 1,651,765; Dec. 6.
- Godfrey, William F., Kearney, Neb., Endless-chain pump. 1,626,812; May 8.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Hook for lamp doors. 1,614,728; Jan. 18.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Focusing lamp. 1,614,729; Jan. 18.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Circuit connector for compartmental lamps. 1,614,730; Jan. 18.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. 1,621,585; Mar. 22.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Reflector. 1,621,586; Mar. 22.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Headlight construction. 1,625,648; Apr. 19.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Lamp-door fastening. 1,626,405; Apr. 26.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Fluted lamp lens. 1,626,408; Apr. 26.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Focusing device. 1,626,407; Apr. 26.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Headlight construction. 1,628,460; May 10.
- Godley, Charles E., Detroit, Mich., assignor to C. M. Hall Lamp Company. Electric fitting; 1,630,936; May 31.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Combination rear light for vehicles. 1,631,678; June 7.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Combination tail lamp. 1,639,497; Aug. 16.
- Godley, Charles E., Detroit, Mich., assignor, by mesne assignments, to C. M. Hall Lamp Company. Reflector seal for lamps. 1,641,731; Jan. 18.
- Godley, Charles E., Ypsilanti, assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing lamp. 1,631,724; June 7.
- Gooley, Edwin A. (See Grubman, L. J., and Godley.)
- Gooley, Edwin A., and L. J. Grubman, New York N. Y. Machine for grading and measuring lumber. 1,652,198; Dec. 13.
- Gooley, Paul F. (See Farrand, C. L., Ross, and Godley.)
- Godowsky, Leopold, jr. (See Mannes, L. D., and Godowsky.)
- Godoy, Humbert. (See Feeney, T. L., and Godoy.)
- Godsey, H. Mitchell, Shreveport, La., assignor to Godsey-Murphy Company, Inc. Gas burner. 1,625,992; Apr. 26.
- Godsey-Murphy Company. (See Godsey, H. Mitchell, assignor.)
- Godshalk, Clarence A., Philadelphia, Pa. Locked-nut apparatus. 1,637,995; Aug. 2.
- Godshalk, Clarence A., Ardmore, assignor to A. H. Fox Gun Company, Philadelphia, Pa. Vehicle signaling device. 1,640,700; Aug. 30.
- Goebel, Clayton J. (See Bartels, C., and Goebel.)
- Goebel, George, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Apparatus for compacting granular material. 1,627,601; May 10.
- Goebel, George, and W. V. Derby, assignors to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Apparatus for arranging and feeding articles. 1,641,672; Sept. 6.
- Goebels, Paul, Dessau, Germany. Drum mill. 1,646,532; Oct. 25.
- Goebels, Paul, assignor to the Firm G. Polysius, Dessau, Germany. Compound mill. 1,650,508; Nov. 22.
- Goebert, Conrad, and O. Kugler, sr., Philadelphia, Pa., assignors to Otis Elevator Company, Jersey City, N. J. Elevator-controlling device. 1,642,674; Sept. 20.
- Goebert, Elmer C., U. S. Army, Philadelphia, Pa. Fastening device for shields. 1,636,128; July 19.
- Goeller, Edward P., New York, N. Y. Battery-terminal connector. 1,633,176; June 21.
- Goeller, Lawrence E., Circleville, Ohio. Combination whisk-broom holder and shoe polisher. 1,635,885; July 12.
- Goeller, Vernon R., Boonton, N. J. Tire spreader. 1,626,460; Apr. 26.
- Goeller, Vernon R., Boonton, N. J. Tire spreader. 1,627,500; May 8.
- Gockr, Jacob, Irvington, N. J. Brief bag. 1,646,730; Oct. 25.
- Goertz, August, & Co. (See Bellingrath, August, assignor.)
- Goertz, August, & Co. (See Goertz, Frederick, assignor.)
- Goertz, August, and Co. (See Goertz, F., and Wacker, assignors.)
- Goertz, Frederick, Newark, N. J., assignor to August Goertz & Co., Vanity box. 1,636,133; July 19.
- Goertz, Frederick, Maplewood, N. J., assignor to August Goertz & Co., Inc. Receptacle. 1,642,866; Sept. 13.
- Goertz, Frederick, Maplewood, and W. E. Wacker, Newark, N. J., assignors to August Goertz & Co., Inc., Newark, N. J. Receptacle. 1,636,184; July 19.
- Goetz, C. P., Optische Anstalt Aktiengesellschaft, Aklavia Spolecnost K. P. Goetz Optickystav. (See Maurer, M., and Haechek, assignors.)
- Goetz, C. P., Optische Anstalt Aktiengesellschaft, Aklavia Spolecnost K. P. Goetz opticky ustav. (See Petschenig, Karl, assignor.)
- Goeser, Edwin W., assignor, by mesne assignments, to Emco Derrick & Equipment Company, Los Angeles, Calif. Rotary machine. 1,612,914; Jan. 4.
- Goeser, Edwin W., Los Angeles, assignor to Union Tool Company, Torrance, Calif. Drill-stem roller driving bushing. 1,639,337; Aug. 16.
- Goeser, Edwin W., and W. D. Davidson, assignors, by mesne assignments, to Emco Derrick & Equipment Company, Los Angeles, Calif. Rotary table. 1,627,323; May 8.
- Goetschius, Dalton M., Dumont, N. J., assignor to Radium Development Company, Long Island City, N. Y. Sign. 1,654,370; Dec. 27.
- Goettert, Lula B., Aberdeen, Wash. Puzzle. 1,652,115; Dec. 6.
- Goetting, Arthur, Buckley, Ill. Nut-applying device. 1,620,360; Mar. 15.
- Goetting, Henry C., New York, N. Y. Collar. 1,613,653; Jan. 11.
- Goetz, Charles, New York, N. Y. Tamping device for tobacco pipes. 1,648,454; Nov. 8.
- Goetz, Julius F., Hartford, Wis. Muffler. 1,613,322; Jan. 11.
- Goetz, Oscar H., Springfield, Mass., assignor to American Chain Company, Inc. Automobile bumper. 1,623,471; Apr. 5.
- Goetzberger, Ralph L., Philadelphia, Pa. Antiaircraft fire-control system. 1,613,822; Jan. 11.
- Goetzberger, Ralph L., Philadelphia, Pa. Fire-control mechanism. 1,616,183; Feb. 1.
- Goewey, James E., Newark, assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J. Bolt anchor. 1,653,359; Dec. 20.
- Goff, Harold W., assignor to Western Electric Company, Incorporated, New York, N. Y. Stepping switch. 1,614,953; Jan. 18.
- Goff, Harold W., assignor to Western Electric Company, Incorporated, New York, N. Y. Coupling. 1,653,899; Dec. 27.
- Goff, Henry J., assignor to Stockton Box Company, Stockton, Calif. Method of and apparatus for making box lids. 1,627,744; May 7.
- Goff, Jess, assignor of one-half to L. M. Adams, Los Angeles, Calif. Pipe rip and cut-off. 1,629,696; May 24.
- Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Push-button switch. 1,626,461; Apr. 26.
- Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic operating means and motor controller employing the same. 1,633,812; June 28.
- Goffin, John, assignor to Chisholm-Ryder Co. Inc., Niagara Falls, N. Y. Hulling green peas. 1,620,644; Mar. 15.
- Goggin, David E., New York, N. Y. Disposal of gases and vapors resulting from the boiling of oils, gums, resins, and the like. 1,612,915; Jan. 4.
- Goggin, David E., New York, N. Y. Varnish fire. 1,639,845; Apr. 16.
- Golke, J. B., et al. (See McCulloch, Stewart B., assignor.)
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,615,540; Jan. 25.
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,615,694; Jan. 25.
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,615,835; Feb. 1.
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,615,976; Feb. 1.
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,622,640; Mar. 29.
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,631,197; June 7.
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,636,129; July 19.
- Going, George G., Middletown, Conn., assignor to Remington-Noiseless Typewriter Corporation, New York, N. Y. Typewriting machine. 1,647,827; Nov. 1.
- Golt, Laurence E. (See French, C. A., and Golt.)
- Gold Car Hearing & Lighting Company. (See Gold, Edward E., assignor.)

- Gold, Charles. (See Burns, William A., assignor.)
- Gold, Charles. (See Dickson, Charles F., assignor.)
- Gold Dust Corporation. (See Bardach, Lloyd H., assignor.)
- Gold Dust Corporation. (See Van Sant, Robert H., assignor.)
- Gold Dust Corporation. (See Vickery, Frank E., assignor.)
- Gold, Edward E., New York, assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y. Pipe joint. 1,651,622; Dec. 6.
- Gold, Egbert H., Chicago, Ill. Flexible pipe connection. 1,612,973; Jan. 4.
- Gold, Egbert H., Chicago, Ill. Flexible pipe connection. 1,617,589; Feb. 15.
- Gold, Egbert H., Chicago, Ill. Car-heating system. 1,626,234; Apr. 26.
- Gold, Egbert H., Chicago, Ill. Car-heating system. 1,639,338; Aug. 16.
- Gold, Egbert H., Evanston, Ill. Train-pipe end valve. 1,643,900; Sept. 27.
- Gold, Egbert H., and E. A. Russell; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill. End-train-pipe valve. 1,618,756; Feb. 22.
- Gold, Egbert H., Evanston, and E. A. Russell; said Russell assignor of his one-half to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible joint. 1,639,771; Aug. 23.
- Gold, Egbert H., Evanston, and E. A. Russell; said Russell assignor of his one-half to Vapor Car Heating Company, Inc., Chicago, Ill. Suspension device for flexible joints. 1,639,772; Aug. 23.
- Gold, Louis, Chicago, Ill. Lamp shade. Des. 73,171; Aug. 2.
- Gold, Louis, Chicago, Ill. Lamp shade. Des. 73,172; Aug. 2.
- Gold, Samuel, Los Angeles, Calif. Spring surface bolt. 1,632,332; June 21.
- Gold, Samuel B., Independence, assignor to Weber Engine Works, Kansas City, Mo. Internal-combustion engine. 1,627,532; May 3.
- Goldberg, Abraham, Bronx, assignor to Texto* Metal Art Products Co., Inc., New York, N. Y. Lamp stem. Des. 73,655; Oct. 18.
- Goldberg, Arthur M., assignor to Electric Controller Company, Indianapolis, Ind. Thermostatic switch for incubators. 1,639,374; Aug. 16.
- Goldberg, Carl M., assignor to Schaffer & Goldberg, New York, N. Y. Sport visor cap. 1,624,727; Apr. 12.
- Goldberg, David D. (See Gordon, C. J., and Goldberg.)
- Goldberg, H. M. Co. (See Gilton, T. C., and Kuhlmann, assignors.)
- Goldberg, Jacob M. (See Goldberg, L. B., N., W., and J. M.)
- Goldberg, Jacob M. (See Goldberg, Louis B., N., W., and J. M.)
- Goldberg, John, Hopkins, Minn. Furnace regulator. 1,636,906; July 26.
- Goldberg, Leon, assignor to Vincent Horwitz Co., Inc., New York, N. Y. Bedroom slipper. Des. 71,969; Feb. 8.
- Goldberg, Louis B., N., W., and J. M., Denver, Colo. Gasoline camp stove. 1,620,095; Mar. 8.
- Goldberg, Louis B., N., W., and J. M., Denver, Colo. Umbrella tent clamp. 1,649,219; Nov. 15.
- Goldberg, Maximilian M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Card-sorting machine. 1,627,028; May 3.
- Goldberg, Nathan. (See Goldberg, L. B., N., W., and J. M.)
- Goldberg, Nathan. (See Goldberg, Louis B., N., W., and J. M.)
- Goldberg, Otto. (See Wild, M., and Goldberg.)
- Goldberg, Samuel, Dorchester, Mass. Hair curler. 1,620,543; Mar. 8.
- Goldberg, Samuel, New York, N. Y. Horn. 1,623,106; Apr. 5.
- Goldberg, Solomon H., and W. H. Hermadsorf, Chicago, Ill.; said Hermadsorf assignor to said Goldberg. Machine for making cartons. 1,645,136; Oct. 11.
- Goldberg, William. (See Goldberg, L. B., N., W., and J. M.)
- Goldberg, William. (See Goldberg, Louis B., N., W., and J. M.)
- Goldberger, Eugene, Brooklyn, N. Y. Doll. Des. 73,404; Sept. 6.
- Goldberger, Morris, assignor to Cresco Creamery Supply Co., Chicago, Ill. Cap delivery and applying mechanism. 1,614,467; Jan. 18.
- Goldberger, Richard, New York, N. Y. Stormproof umbrella. 1,646,144; Oct. 18.
- Golblath, Henry, Kansas City, Mo. Cutting tool. 1,624,136; Apr. 12.
- Golten, Charles E. (See Anderson, Edward V., assignor.)
- Golden, Elliott, Mobile, Ala. Plaster cleaner. 1,645,479; Oct. 11.
- Golden, John O., Portland, Ore. Sterilizing apparatus. 1,651,346; Nov. 29.
- Golden, Joseph A. (See Whiteman, Charles E., assignor.)
- Golden Lighting Fixture Co. (See Lipsky, Norman, assignor.)
- Goldenberg, Benjamin, assignor to E. I. Horsman Co., Inc., New York, N. Y. Doll. 1,644,827; Oct. 11.
- Goldens, Ephraim, and S. Fowler, Oklahoma City, Okla. Electric fan. 1,631,411; June 7.
- Goldfarb, Jacob, Brooklyn, N. Y. Removable denture. 1,641,887; Sept. 6.
- Goldfield, Harry, Brooklyn, N. Y. Teacup. 1,652,935; Dec. 13.
- Golding, John F., Philadelphia, Pa. Making nut blanks. 1,636,955; July 26.
- Golding, John F., Philadelphia, Pa. Making nut blanks. 1,636,956; July 26.
- Golding, John F., Philadelphia, Pa. Making castle nuts. 1,642,854; Sept. 20.
- Golding, William H., Merrick, N. Y. Railway-crossing guard. 1,619,070; Mar. 1.
- Golinger, Carl M., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncoupling lever. 1,626,929; May 8.
- Goldman, Abraham W., Los Angeles, Calif. Window sash and screen. 1,626,336; Apr. 26.
- Goldman, Abraham W., Los Angeles, Calif. Pulley for balanced window sashes. 1,646,908; Oct. 25.
- Goldman, Barney, New York, N. Y. Skylight. 1,642,675; Sept. 20.
- Goldman, Bronislaw, Berlin-Grunewald, Germany. Baffle to be set automatically. 1,651,816; Dec. 6.
- Goldman, Clarence F. (See Mitchell, S. W., Naud, and Goldman.)
- Goldman, Matthew S., and E. W. Huttig, assignors to McCallum Decorative Corporation, Pittsburgh, Pa. Display background. 1,619,719; Mar. 1.
- Goldman, Max and R. Karabab, Brooklyn, N. Y. Signaling device. 1,629,380; May 17.
- Goldman, Melvin, Los Angeles, Calif. Dispensing machine. 1,644,371; Oct. 4.
- Goldman, Sigmund L., assignor to Red Sun Products Co., Chicago, Ill. Bottle-capping machine. 1,643,557; Sept. 27.
- Goldman, Sigmund L., assignor to Red Sun Products Co., Chicago, Ill. Decanting and filtering float device. 1,644,248; Oct. 4.
- Golner, Louis, Brooklyn, N. Y. Spattee. 1,650,509; Nov. 22.
- Goldrick, Albert R., Cleveland, Ohio. Electrical swivel connector. 1,650,014; Nov. 22.
- Goldrick, Albert R., assignor to The American Multi-graph Company, Cleveland, Ohio. Composite printing slug. 1,613,094; Jan. 4.
- Goldrick, Albert R., assignor to The Gerson Stewart Corporation, Company, Cleveland, Ohio. Liquid-soap dispenser. 1,624,231; Apr. 12.
- Golding, Ida. (See Heilbron, Jacob, assignor.)
- Goldsborough, Thaddeus R., Wilkensburg, and O. H. Eschholz, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Photo-electric cell. 1,645,230; Oct. 11.
- Goldsborough, Washington L., assignor, by mesne assignments, to Dictaphone Corporation, New York, N. Y. Correction device for phonographic machines. 1,651,056; Nov. 29.
- Goldsbrough, Robert E., Consett, England. Burner for hydrocarbon and similar fuel. 1,637,695; Aug. 2.
- Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsgsselskab, Ordrup, Charlottenlund, Denmark. Percussive hand tool. 1,620,201; Mar. 8.
- Goldscholl, Abraham, New York, N. Y. Belt fastener. 1,648,395; Nov. 8.
- Goldschult, Alfred N., and J. Weinberger, New York, N. Y. assignors to Radio Corporation of America. Radiotelephony. 1,622,033; Mar. 22.
- Goldsmith, Bertram J. (See Koeb, Emil, and Goldsmith.)
- Goldsmith, Bertram J., New York, assignor, by mesne assignments, to Perfect Window Regulator Corporation, Long Island City, N. Y. Door handle. 1,633,177; June 21.
- Goldsmith, Bertram J., and E. Koeb, New York, assignors to Perfect Window Regulator Corporation, Long Island City, N. Y. Window regulator. 1,624,098; Apr. 12.
- Goldsmith, Bertram J., and E. Koeb, New York, assignors to Perfect Window Regulator Corporation, Long Island City, N. Y. Window and operating means therefor. 1,639,455; Aug. 16.
- Goldsmith, Bertram J., and E. Koeb, New York, assignors to Perfect Window Regulator Corporation, Long Island City, N. Y. Window regulator. 1,642,020; Sept. 13.
- Goldsmith, Bertram J., and E. Koeb, New York, assignors to Perfect Window Regulator Corporation, Long Island City, N. Y. Window regulator. 1,642,021; Sept. 13.
- Goldsmith, Bertram J., and E. Koeb, New York, assignors to Perfect Window Regulator Corporation, Long Island City, N. Y. Window regulator. 1,645,136; Oct. 11.
- Goldsmith, Bertram J., New York, and E. Koeb, Tucka-hoe, assignors, by mesne assignments, to Perfect Window Regulator Corporation, Long Island City, N. Y. Bolt. 1,652,621; Dec. 13.
- Goldsmith, Byron B., New York, N. Y. Mechanical pencil. 1,627,602; May 10.
- Goldsmith, Elmer E., Newark, N. J., assignor to Miller & Goldsmith, New York, N. Y. Novelty handkerchief holder. 1,636,301; July 19.
- Goldsmith, Gustave M., and C. Bartels, assignors to The Mosler Safe Company, Hamilton, Ohio. Construction of vault or safe doors and the like. 1,622,826; Mar. 29.
- Goldstein, Harlan C. (See Cook, J. T., Jr., Murphy, Brunsnick, and Goldsmith.)
- Goldstein, Hugo. (See Vogt, F. A., Fleisch, and Goldsmith.)

- Goldsmith, Hugo, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Valve for playing balls. 1,641,382; Sept. 6.
- Goldsmith, Hugo, and W. A. Sonnett, assignors to The P. Goldsmith Sons Company, Cincinnati, Ohio. Football protective harness. 1,640,654; Aug. 30.
- Goldsmith, Joseph, Seattle, Wash. Ice-cream cabinet. 1,619,611; Mar. 1.
- Goldsmith, Mary L., Denver, Colo. Cupid or similar article. 1,619,611; Jan. 25.
- Goldsmith Metal Lath Company, The. (See Goldsmith, William M., assignor.)
- Goldsmith, P., Sons Company, The. (See Goldsmith, Hugo, assignor.)
- Goldsmith, P., Sons Company, The. (See Goldsmith, H., and Sonnett, assignors.)
- Goldsmith, P., Sons Company, The. (See Joseph, Leslie B., assignor.)
- Goldsmith, P., Sons Company, The. (See Vogt, F. A., Fleisch, and Goldsmith, assignors.)
- Goldsmith, Walter A., Company, The. (See Williams, Edward L., assignor.)
- Goldsmith, William H., Brookline, assignor to Abington Textile Machinery Works, Boston, Mass. Pneumatic card-stripper system. 1,635,834; July 12.
- Goldsmith, William M., assignor to The Goldsmith Metal Lath Company, Cincinnati, Ohio. Tie and spacing means for plastic construction. 1,623,338; Apr. 5.
- Goldsmith, Wolf T., Newark, N. J. Hand-bag frame. Des. 73,564; Oct. 4.
- Goldsmith, Wolf T., Newark, N. J. Hand-bag frame. Des. 73,565; Oct. 4.
- Goldstein, Aaron A., Buffalo, N. Y. Buckle. 1,644,720; Oct. 11.
- Goldstein, Aaron A., Buffalo, N. Y. Fastener for watch straps. 1,653,457; Dec. 20.
- Goldstein, Albion M., St. Louis, Mo. Pipe-bowl reamer. 1,651,593; Dec. 6.
- Goldstein, Alfred D., New York, N. Y. Soluble strap for local medication of the oral cavity. 1,642,653; Sept. 13.
- Goldstein, Benjamin E. (See Jones, M., and Goldstein.)
- Goldstein, Charles, Chicago, Ill. Binder. 1,623,339; Apr. 5.
- Goldstein, Herman, Philadelphia, Pa. Portable power attachment for slicing machines. 1,650,442; Nov. 22.
- Goldstein, Isidore M., Brooklyn, assignor to N. Nestler, New York, N. Y. Skipping rope. 1,651,057; Nov. 29.
- Goldstein, Jacob, West Hazleton, Pa. Ventilator. 1,634,184; June 28.
- Goldstein, Samuel, Bronx, N. Y. Necktie fastener. 1,619,667; Mar. 1.
- Goldstein, William, Philadelphia, Pa., Motion-picture screen. 1,650,341; Nov. 22.
- Goldstone, Jean, and R. C. F. Entwistle, New York, N. Y. Artificial lighting. 1,614,837; Jan. 18.
- Goldsworthy, George W., Pittsburgh, Pa. Plate-printing machine. 1,649,583; Nov. 15.
- Goldsworthy, William J., San Francisco, Calif. Golf practicing and training device. 1,640,765; Aug. 30.
- Goldthorpe, Jack J., Albany, N. Y. Game. 1,627,501; May 3.
- Goldwyn, Jack, Brooklyn, N. Y. Window safety latch. 1,618,754; Jan. 25.
- Golembiewski, Boleslaw, Utica, N. Y. Theft-preventing device for automobiles. 1,644,334; Oct. 4.
- Golfinopoulos, Paul, Reading, Pa. Artificial marble. 1,612,808; Jan. 4.
- Golthub Rubber Company, The. (See Fischer, Charles L., assignor.)
- Golinski, Mieczyslaw. (See Dziuba, W., and Golinski.)
- Golladay, Lawrence R. (See Breisch, E. W., and Golladay.)
- Golladay, Lawrence R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Indicating arrest for lightning arresters. 1,642,239; Sept. 13.
- Golladay, Lawrence R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device. 1,642,241; Sept. 13.
- Golladay, Lawrence R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Casing for lightning arresters. 1,652,990; Dec. 13.
- Golladay, Lawrence R., East Pittsburgh, and I. R. Smith, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Lightning arrester. 1,642,240; Sept. 13.
- Golbach, Joseph, and Nicolaus, Calif. Machine for treating grain with copper carbonate. 1,623,001; Mar. 29.
- Gollert, Reinhold, Charlottenburg, Germany. Manufacture of Semisolid Rubber Tires. 1,625,117; Apr. 19.
- Gollnick, Paul A., assignor to Spiegel, May, Stern Co., Chicago, Ill. Listing attachment for addressing machines. 1,639,131; Aug. 16.
- Gollnick, Paul A., and J. J. Toolan, assignors to Spiegel, May, Stern Co., Chicago, Ill. Punching machine for cards and stencils. 1,613,271; Jan. 4.
- Gollnick, Paul A., and J. J. Toolan, assignors to Spiegel, May, Stern Company, Chicago, Ill. Making inking pads. 1,642,199; Sept. 13.
- Gollnik, Arthur T., New York, N. Y. Box or similar container. Des. 72,207; Mar. 15.
- Golo Slipper Co. (See Vêran, Eugène, assignor.)
- Gologan, Dumitru, Newark, N. J. Protector means or guard for cigarette holders. 1,659,993; Aug. 23.
- Golomb, Morris, assignor to Everlast Sporting Goods Mfg. Co., New York, N. Y. Protective device for boxers. 1,627,382; May 3.
- Golub, Abe, St. Louis, Mo. Rubber heel. 1,636,772; July 26.
- Gomez, Etienne F., New Orleans, La. Boll-weevil exterminator. 1,637,254; July 26.
- Gomb, Morris, assignor to E. C. Atkins & Company, Indianapolis, Ind. Hack saw. 1,648,369; Oct. 18.
- Gommels, John P., Monmouth, Ill. Road sign. Des. 73,694; Oct. 25.
- Gomory, Albert B., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Automobile insulation. 1,619,415; Mar. 1.
- Gonard, John L., Englewood Cliffs, N. J., assignor, by mesne assignments, to Kant-Bac Corporation. Device for preventing retrograde movement of motor vehicles. 1,651,270; Nov. 29.
- Gonder, Earl, Detroit, Mich. Vehicle signal. 1,640,496; Aug. 30.
- Gondolf, Nicholas J., New Orleans, La. Flushing tank. 1,625,311; Apr. 19.
- Gonsalves, Vincente. (See Antunes, Alberto, assignor.)
- Gonyk, Ignatz, Ljubljana, Yugoslavia. Lamp. 1,622,373; Mar. 29.
- Gonyk, Ignatz, Ljubljana, Yugoslavia. Scythe. 1,628,589; May 10.
- Gonzalez, Daniel, Gallup, N. Mex. Animal and bird trap. 1,633,857; June 28.
- González, Juanita, New York, N. Y. Cocktail shaker. Des. 73,656; Oct. 18.
- Go, Emma S. K., Honolulu, Hawaii. Statuette. Des. 73,695; Oct. 25.
- Good, Frederick C. (See Good, George C. and F. C.)
- Good, George C. and F. C., Philadelphia, Pa. Portable elevator. 1,641,847; Sept. 6.
- Good Inventions Co. (See Good, John, assignor.)
- Good, J. R., et al. (See Stone, Lester V., assignor.)
- Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Engine-cooling system. 1,616,966; Feb. 8.
- Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Starting combustion engines. 1,617,107; Feb. 8.
- Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Engine fuel system. 1,629,500; May 24.
- Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Inclosed liquid-fuel burner. 1,650,342; Nov. 22.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Fuel-supply means for combustion engines. 1,620,645; Mar. 15.
- Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Vaporizing apparatus for internal-combustion engines. 1,625,312; Apr. 19.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Combustion apparatus. 1,625,313; Apr. 19.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Liquid-fuel-combustion apparatus. 1,626,813; May 3.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Electrically-ignited liquid-fuel burner. 1,650,342; Nov. 22.
- Good Road Equipment Corporation. (See Daly, J. F., Coats, and Lutz, assignors.)
- Good Rubber Company, The. (See Good, William D., assignor.)
- Good, William D., Akron, assignor to The Good Rubber Company, Kenmore, Ohio. Toy. 1,635,835; July 12.
- Goodall, Clyde S. (See Hull, Harry B., assignor.)
- Goodall, Fred E., assignor, by mesne assignments, to Van Ess Laboratories, Inc., Chicago, Ill. Skin cream. 1,626,814; May 3.
- Goodall, Howard W., Aldan, Pa. Hose clamp. 1,635,733; July 12.
- Goodall, Samuel W., Phoenix, Ariz. Carburetor. 1,613,947; Jan. 11.
- Goodard, Alvin C. (See Lamm, Anthony, assignor.)
- Goode, Gilbert C., East Cleveland, assignor to The White Motor Company, Cleveland, Ohio. Brake-actuating device. 1,628,967; May 17.
- Goode, Gilbert C., Buffalo, N. Y., assignor to The White Motor Company, Cleveland, Ohio. Front-wheel mount. 1,652,780; Dec. 13.
- Goode, William, Knoxville, Tenn. Cut-off valve. 1,613,164; Jan. 4.
- Goodell, George H. (See Endicott, G. F., and Goodell.)
- Goodell, Manufacturing Company. (See Cary, George W., assignor.)
- Goodell-Pratt Company. (See Hagwood, Oscar D., assignor.)
- Goeder, Seth M. (See Noe, F. P., and Goeder.)
- Goederham, John W., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,650,708; Nov. 29.
- Goodfellow, Arthur N., trustee. (See Nice, Budd G., assignor.)
- Goodfellow, Joseph. (See Chapman, Charles E., assignor.)

- Goodfellow, Sampson J., assignor to Western Implements Limited, Regina, Saskatchewan, Canada. Stubble burner. 1,618,332; Feb. 22.
- Goodfellow, Sumner, Bloomington, Ill. Tie-press appliance. 1,651,884; Dec. 6.
- Goodfellow, Walter V., Los Angeles, Calif. Producing an anesthetic. 1,648,547; Nov. 8.
- Goodgame, Allen, Rexford, Mont. Fishhook. 1,623,870; Apr. 5.
- Goodhue, Julian G., Evanston, and H. J. Sauvage, Chicago, assignors to Electric Thermostatic Control Company, Chicago, Ill. Alarm-clock switch. 1,643,843; Sept. 27.
- Gooding, George E., assignor to John T. Robinson Company, Boston, Mass. Box-covering machine. 1,642,067; Sept. 13.
- Gooding, George E., Boston, assignor to John T. Robinson Company, Hyde Park, Mass. Box-covering machine. 1,649,523; Nov. 15.
- Goodknecht, Louis G., Kankakee, Ill. Animal trap. 1,614,788; Jan. 18.
- Goodland, John Jr. (See Nevins, G. F., and Goodland.)
- Goodland, John H. (See Goodland, Walter H. and J. H.)
- Goodland, Walter H. and J. H., Butte, Mont. Rock-drill holder. 1,636,934; July 26.
- Goodlett, M. Nicholas, assignor to Arkell Safety Bag Company, New York, N. Y. Process and mechanism for producing crinkled paper. 1,626,527; Apr. 26.
- Goodlett, Nicholas M., assignor to Arkell Safety Bag Company, New York, N. Y. Apparatus for operating on paper and other fabrics. 1,627,966; May 10.
- Goodline, George, Pawtucket, R. I. Motion-transmitting mechanism. 1,622,780; Mar. 29.
- Goodloe, William H. (See Menefee, Elmer, assignor.)
- Goodloe, Alfred M., assignor to Midwest Steel & Supply Co. Inc., New York, N. Y. Dust separator. 1,649,220; Nov. 15.
- Goodloe, Elmore L., and G. E. Peniston, Kansas City, Mo., Illuminated advertising device. 1,629,697; May 24.
- Goodman, Aaron, New York, N. Y. Antiholdup device. 1,635,121; July 5.
- Goodman, Albert J., assignor of one-fifth to R. L. Watt, Reidsville, N. C. Tent. 1,636,507; July 19.
- Goodman, Frank G., Sioux Falls, S. Dak. Windshield wiper. 1,643,067; Sept. 20.
- Goodman, Harry, Britton, Okla. Dirigible headlight for motor vehicles. 1,632,026; June 14.
- Goodman, Harry S., Chicago, Ill. Savings bank. 1,626,408; Apr. 26.
- Goodman, Joseph, Whitneyville, assignor to The Mt. Carmel Mfg. Co., Mount Carmel, Conn. Making door handles. 1,626,278; Apr. 26.
- Goodman, Louis, San Francisco, Calif. Flexible coupling. 1,621,980; Mar. 22.
- Goodman Manufacturing Company. (See Benedict, Allan B., assignor.)
- Goodman Manufacturing Company. (See Bodin, George, assignor.)
- Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
- Goodman Manufacturing Company. (See Doberstein, Edward J., assignor.)
- Goodman Manufacturing Company. (See Esselstein, Alfred B., assignor.)
- Goodman Manufacturing Company. (See Farnham, Sidney W., assignor.)
- Goodman Manufacturing Company. (See Gray, Walter S., assignor.)
- Goodman Manufacturing Company. (See Housman, John S., assignor.)
- Goodman Manufacturing Company. (See McCullough, William T., assignor.)
- Goodman Manufacturing Company. (See Packer, Glenn W., assignor.)
- Goodman Manufacturing Company. (See Pearce, James W., assignor.)
- Goodman Manufacturing Company. (See Poole, Clarence F., assignor.)
- Goodman Manufacturing Company. (See Pray, Thomas L., assignor.)
- Goodman Manufacturing Company. (See Sloane, William W., assignor.)
- Goodman Manufacturing Company. (See Vodoz, Frederick W., assignor.)
- Goodman Manufacturing Company. (See Wood, Robert J., assignor.)
- Goodman, Patrick, Brooklyn, N. Y. Gas-main stopper. 1,627,502; May 3.
- Goodman, Patrick, Brooklyn, N. Y. Fitting for gas-pressure gauges. 1,643,886; Sept. 27.
- Goodman, Samuel. (See Greenberg, J., and Goodman.)
- Goodman, Samuel, Chicago, Ill. Window. 1,613,570; Jan. 4.
- Goodnow, Harry L., Pavenport, Iowa. Danger signal. 1,615,621; Jan. 25.
- Goodnow, Wallace F., Greenwich, Conn., and G. H. Vickor, Eastwood, N. Y., assignors to Pierce, Butler & Pierce Manufacturing Corp., Syracuse, N. Y. Hot-water and steam heater. 1,635,404; July 12.
- Goodrich, B. F., Company, The. (See Ambler, Robert R., assignor.)
- Goodrich, B. F., Company, The. (See Bauman, Harry A., assignor.)
- Goodrich, B. F., Company, The. (See Bauman, H. A., and Pierson, assignors.)
- Goodrich, B. F., Company, The. (See Bedford, Clayton W., assignor.)
- Goodrich, B. F., Company, The, et al. (See Bedford, Clayton W., assignor.)
- Goodrich, B. F., Company, The. (See Bodle, V. H., and Jaquith, assignors.)
- Goodrich, B. F., Company, The. (See Cadden, C. C., Sushner, and Evans, assignors.)
- Goodrich, B. F., Company, The. (See Callahan, J. J., and Rogers, assignors.)
- Goodrich, B. F., Company, The. (See Eakin, Willard D., assignor.)
- Goodrich, B. F., Company, The. (See Evans, Benjamin, assignor.)
- Goodrich, B. F., Company, The. (See Falor, Abram E., assignor.)
- Goodrich, B. F., Company, The. (See Falor, A. E., and Martin, assignors.)
- Goodrich, B. F., Company, The. (See Fisher, Harry L., assignor.)
- Goodrich, B. F., Company, The. (See Freeman, W. B., Ilare, and Hartung, assignors.)
- Goodrich, B. F., Company, The. (See Fritz, Roy D., assignor.)
- Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
- Goodrich, B. F., Company, The. (See Geer, William C., assignor.)
- Goodrich, B. F., Company. (See Hoover, W. C., Fritz, and Cabill, assignors.)
- Goodrich, B. F., Company, The. (See James, James V., assignor.)
- Goodrich, B. F., Company, The. (See Jaquith, W. E., Evans, and Foerster, assignors.)
- Goodrich, B. F., Company, The. (See Kment, Waldemar D., assignor.)
- Goodrich, B. F., Company, The. (See Leguillon, Charles W., assignor.)
- Goodrich, B. F., Company, The. (See L'Hollier, Leslie H., assignor.)
- Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)
- Goodrich, B. F., Company, The. (See Manderbach, Charles B., assignor.)
- Goodrich, B. F., Company, The. (See Martin, Frederick H., assignor.)
- Goodrich, B. F., Company, The. (See Matthias, G. L., and Kment, assignors.)
- Goodrich, B. F., Company, The. (See Mell, Tod J., assignor.)
- Goodrich, B. F., Company, The. (See Nied, Fred A., assignor.)
- Goodrich, B. F. Co., The. (See Pierson, Robert M., assignor.)
- Goodrich, B. F., Company, The. (See Richardson, C. M., and Sargisson, assignors.)
- Goodrich, B. F., Company, The. (See Rogers, B. W., and Glass, assignors.)
- Goodrich, B. F., Company, The. (See Scrote, Merle C., assignor.)
- Goodrich, B. F., Company, The. (See Sears, Edward M., assignor.)
- Goodrich, B. F., Company, The. (See Shook, Florain J., assignor.)
- Goodrich, B. F., Company, The. (See Tew, James D., assignor.)
- Goodrich, B. F., Company, The. (See Wilson, G. F., and Leguillon, assignors.)
- Goodrich, B. F., Company, The. (See Work, B. G., and Slade, assignors.)
- Goodrich, B. F., Company, The. (See Young, Harvey L., assignor.)
- Goodrich, Chauncey M., Windsor, Ontario, Canada. Turntable center. 1,634,417; July 5.
- Goodrich, Chauncey M., Windsor, Ontario, Canada. Turntable center. 1,636,993; July 26.
- Goodrich, Clarence L., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cam-shaft comparator. 1,652,435; Dec. 13.
- Goodrich, Coy C., Charlotte, Mich. Spring equalizer. 1,615,376; Jan. 25.
- Goodrich, Coy C., San Francisco, Calif. Lubricating system. 1,623,240; Apr. 5.
- Goodrich, Emery, Milford, Mich. Tractor clutch control. 1,615,076; Jan. 18.
- Goodrich, John J., Compton, Calif. Automatic bearing oiler. 1,649,467; Nov. 15.
- Goodrich, Norris E., assignor to Sanitarium and Hospital Equipment Company, Battle Creek, Mich. Therapeutic lamp. 1,641,629; Sept. 6.
- Goodrich, Norris E., assignor to Sanitarium and Hospital Equipment Company, Battle Creek, Mich. Exercise apparatus. 1,647,616; Nov. 1.
- Goodrich, Norris E., assignor to Sanitarium and Hospital Equipment Company, Battle Creek, Mich. Portable therapeutic lamp. 1,651,385; Dec. 6.
- Goodrich, Robert J. (See Ulrich, L. H., and Goodrich.)
- Goodridge, George E., Reading, assignor to R. C. Henth, Brookline, Mass. Liquid-fuel-burning apparatus. 1,629,032; May 17.
- Goodridge, George E., Reading, assignor to Ballard Service Corporation, Boston, Mass. Liquid-fuel-burning apparatus. 1,631,859; June 7.

- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment plug and receptacle. 1,621,864; Mar. 15.
- Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Co., Bridgeport, Conn. Chain ornament. 1,646,999; Oct. 25.
- Goodroe, James W., Experiment. Ga. Machine for opening and weaving cotton. 1,632,372; June 14.
- Goodrow, William. (See Kretschmer, Henry A., assignor.)
- Goodrum, Charles L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,647,990; Nov. 8.
- Goodman, Charles W., Linton, Oreg. Combination fountain and aquarium. 1,649,683; Nov. 15.
- Goodspeed, Arthur B., Chester, Conn. Oil burner. 1,646,816; Oct. 25.
- Goodspeed, Arthur B., Chester, Conn. Oil burner. 1,647,091; Oct. 25.
- Goodspeed, Arthur B., Chester, Conn. Oil burner. 1,647,092; Oct. 25.
- Goodspeed, Charles A. (See Blakely, W. W., and Goodspeed.)
- Goodspeed, Charles A., assignor to Wm. W. Blakely, Detroit, Mich. Wheel block. 1,621,504; Mar. 22.
- Goodspeed, Charles A., Detroit, assignor to W. W. Blakely, Dexter, Mich. Vehicle anchorage device. 1,628,660; May 17.
- Goodspeed Machine Company. (See Witt, John J., assignor.)
- Goodstein, Charles B., Brooklyn, assignor of one-half to E. G. Oppenheim, New York, N. Y. Staple. 1,654,371; Dec. 21.
- Goodstein, William L., Waynesburg, Pa. Motor-vehicle lamp. 1,652,127; June 14.
- Goodstein, William L., Yonkers, N. Y. Buffing device. 1,645,047; Oct. 11.
- Goodwillie, John E., Brooklyn, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,622,374; Mar. 29.
- Goodwin, Alfred D., Ripon, Calif. Mowing-machine clip. 1,642,808; Oct. 20.
- Goodwin, Camillo J., London, England, assignor to The Mathieson Alkali Works, New York, N. Y. Synthesizing oxides of nitrogen. 1,652,781; Dec. 13.
- Goodwin, Ernest G., Brooklyn, assignor to Standard Coupler Co., New York, N. Y. Friction draft gear. 1,619,112; Mar. 1.
- Goodwin, Ernest G., New York, N. Y., assignor, by mesne assignments, to Goodwin Side Bearing Co., Inc., Wilmington, Del. Side bearing. 1,627,432; May 3.
- Goodwin, Ernest G., Pelham, assignor to Standard Coupler Company, New York, N. Y. Draft gear and installing same. 1,627,433; May 3.
- Goodwin, Harry, Waterville, Me. Plate and brace for railroad guard rails. 1,636,302; July 19.
- Goodwin, James R., deceased; P. E. and W. C. Goodwin, administrators, assignors to The Steel Scaffolding Company, Evansville, Ind. Adjustable post bracket. 1,636,185; July 19.
- Goodwin, John E., Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y. Plate or similar article. Des. 74,009; Dec. 6.
- Goodwin, Nathaniel B., Trenton, N. J. Attachment for calendars. 1,633,249; June 21.
- Goodwin, Percy E., et al., administrators. (See Goodwin, James R.)
- Goodwin, Percy E., assignor to The Steel Scaffolding Company, Evansville, Ind. Mortar-board adjustable and foldable stand. 1,653,764; Dec. 27.
- Goodwin, Percy E., assignor to The Steel Scaffolding Company, Evansville, Ind. Combination scaffold bracket. 1,650,939; Nov. 29.
- Goodwin Side Bearing Co. (See Goodwin, Ernest G., assignor.)
- Goodwin, Victor E., Pittsfield, Mass., assignor to General Electric Company. Condenser switching apparatus. 1,646,240; Oct. 18.
- Goodwin, Walter C., et al., administrators. (See Goodwin, James R., assignor.)
- Goodwin, Walter C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronous-motor starter. 1,633,938; June 28.
- Goodwin, William E., Cedar Bluff, Va. Battery connection. 1,653,999; Dec. 27.
- Goodyear, Charles H., Portland, Oreg. Foldable cellular carton. 1,636,508; July 19.
- Goodyear, Mrs. Katherine. (See Gieseke, Henry J., assignor.)
- Goodyear Tire & Rubber Company, The. (See Andrews, George G., assignor.)
- Goodyear Tire & Rubber Company. (See Bedford, Clayton W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Beebe, Paul, assignor.)
- Goodyear Tire & Rubber Company, The. (See Bruson, Herman A., assignor.)
- Goodyear Tire & Rubber Company. (See Burdette, Richard S., assignor.)
- Goodyear Tire & Rubber Company, The. (See Clark, Rufus W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Colley, Fred, assignor.)
- Goodyear Tire & Rubber Company, The. (See Cooper, James F., assignor.)
- Goodyear Tire & Rubber Company, The. (See Endres, Richard, assignor.)
- Goodyear Tire & Rubber Company, The. (See Hamilton, Charles B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kelly, William J., assignor.)
- Goodyear Tire & Rubber Company. (See Kimmich, Elgin G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
- Goodyear Tire & Rubber Company, The. (See Lind, Frederick A., assignor.)
- Goodyear Tire & Rubber Company, The. (See Marietta, Alphons H., assignor.)
- Goodyear Tire & Rubber Company, The. (See McGovern, Bernard F., assignor.)
- Goodyear Tire & Rubber Company, The. (See Milligan, Robert J., assignor.)
- Goodyear Tire & Rubber Company, The. (See O'Brien, William G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Oyler, Kimball, assignor.)
- Goodyear Tire & Rubber Company, The. (See Pappano, Philip, assignor.)
- Goodyear Tire & Rubber Company, The. (See Schrock, Charles I., assignor.)
- Goodyear Tire & Rubber Company, The. (See Seabell, Lorin B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Shively, Joseph, assignor.)
- Goodyear Tire & Rubber Company, The. (See Shively, Walter E., assignor.)
- Goodyear Tire & Rubber Company. (See Smith, Claude H., assignor.)
- Goodyear Tire & Rubber Company, The. (See Steere, Samuel, assignor.)
- Goodyear Tire & Rubber Company, The. (See Stephens, William, assignor.)
- Goodyear Tire & Rubber Company, The. (See Straits, Joseph A., assignor.)
- Goodyear Tire & Rubber Company, The. (See Templeton, Edwin, assignor.)
- Goodyear Tire & Rubber Company, The. (See Tempelin, Ellis W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Teppema, Jan, assignor.)
- Goodyear Tire & Rubber Company, The. (See Urquhart, W. B. Post, Humphrey, and Van Arsdale, assignors.)
- Goodyear Tire & Rubber Company, The. (See Van Orman, Wart T., assignor.)
- Goodyear Tire & Rubber Company, The. (See Williams, Dayton L., assignor.)
- Goodyear Tire & Rubber Company, The. (See Young, C. W., and Diggett, assignors.)
- Goodyear Tire & Rubber Company, The. (See Zimmerman, Charles H., assignor.)
- Goodyear-Zeppelin Corporation. (See Helma, Paul, assignor.)
- Goodyear-Zeppelin Corporation. (See Klemperer, Wolfgang B., assignor.)
- Goodyear-Zeppelin Corporation. (See Liebert, H. R., and Fischer, assignors.)
- Goodyear-Zeppelin Corporation. (See Liebert, R., and Fischer, assignors.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Godfrey, Edward J., assignor.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Randall, C. J., and Wurtgenberg, assignors.)
- Goodykoonitz, Albert M., Harlingen, Tex. Gasoline receptacle. 1,623,107; Apr. 5.
- Googe, Charles, and H. Lindsey, Corinth, Miss. Safety device for railroad switches. 1,646,287; Oct. 18.
- Goosman, Aaron C., Rochester, N. Y. Garment pattern. 1,618,874; Feb. 22.
- Goosmann, Clifford J., Cincinnati, Ohio. Soldering iron. 1,637,728; Nov. 2.
- Gordatski, J. B., et al. (See Stewart, Frank H., assignor.)
- Gorden, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. 1,632,472; June 14.
- Gorden, William, Union, N. J. Pipe wrench. 1,618,820; Feb. 22.
- Gordijn, Cornelius, jr., Amsterdam, assignor to Naamloze Vennootschap Kopergieterij, Appendage en Pompe-Fabriek van G. Dikkers & Co., Hingelo (O), Netherlands. Apparatus for operating fire engines. 1,613,165; Jan. 4.
- Jordan, Abraham L., New York, N. Y. Physical-development shoe. 1,637,565; Aug. 2.
- Jordan, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp-end holder for warp beams. 1,632,472; June 14.
- Jordan, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Stop for weights of multiple-needle detectors. 1,633,631; June 28.
- Jordan, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism for drop-box looms. 1,633,632; June 28.
- Jordan, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Device to delay transmission of an indication of weft exhaustion. 1,639,845; Aug. 23.
- Jordan, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam for looms. 1,644,721; Oct. 11.

- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Web-detecting mechanism for drop box looms. 1,647,729; Nov. 1.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Chain for loom pattern mechanism. 1,651,594; Dec. 6.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom dobby. 1,653,207; Dec. 20.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Web-replenishing mechanism for multishuttle looms. 1,654,121; Dec. 27.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tube-frame bracket. 1,654,122; Dec. 27.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam for looms. 1,654,216; Dec. 27.
- Gordon, Albert B., assignor to A. H. Opperman and T. Allebrandt, Indianapolis, Ind. Electrical hair curler. 1,638,802; Aug. 9.
- Gordon, Albert J. (See Cremona, A. L. N., and Gordon.)
- Gordon, Bertrand D., and W. H. E. Pearen, Medora, Manitoba, Canada. Automobile rim. 1,639,886; Aug. 23.
- Gordon, Charles E., Detroit, Mich., assignor to G. Hedrick, Hailey, Idaho. Automatic dispensing and weighing machine. 1,646,817; Oct. 25.
- Gordon, Chester S., New York, N. Y., and J. T. Lowe, Newark, N. J., assignors to American Telephone and Telegraph Company. Carbon-monoxide detector. 1,644,014; Oct. 4.
- Gordon, Cyril J., and D. D. Goldberg, Chicago, Ill. Safety faucet. 1,633,581; June 28.
- Gordon, Daniel E., Fort Worth, Tex. Tackle-spreading block for splicing wires. 1,648,803; Nov. 8.
- Gordon, David D., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Electric switch. 1,645,628; Oct. 18.
- Gordon, David D., Chicago, Ill., assignor to McGill Manufacturing Company, Valparaiso, Ind. Lamp-socket switch. 1,634,418; July 5.
- Gordon, David D., and W. Lindsay, Chicago, Ill., assignors to Economy Fuse and Manufacturing Company, Chicago, Ill. Adjustable light-holding means. 1,645,527; Oct. 18.
- Gordon, Doc E., Berkeley, Calif. Waffle iron. 1,615,122; Jan. 18.
- Gordon, Fred M. (See Rhodes, John J., assignor.)
- Gordon, George G., Dollis Hill, London, England. Disinfectant composition. 1,619,861; Mar. 8.
- Gordon, Harry L., New York, N. Y. Antiglaze attachment for headlights. 1,619,720; Mar. 1.
- Gordon, Henry F., Chicago, Ill. Toy navigator. 1,619,668; Mar. 1.
- Gordon, Israel. (See Miller, W. R., and Gordon.)
- Gordon, Jacob, Brooklyn, N. Y. Toy balloon. Des. 1,406; Dec. 20.
- Gordon, James C., assignor to Gordon Pagel Company, Detroit, Mich. Arch. 1,640,932; Aug. 30.
- Gordon, John, Chicago, Ill. Thermostatic-controlled valve. 1,651,817; Dec. 6.
- Gordon, Manuel, Chicago, Ill. Electric lamp. Des. 72,997; July 5.
- Gordon, Max, Paterson, N. J. Weigher for coal and similar material. 1,632,595; June 14.
- Gordon Pagel Company. (See Gordon, James C., assignor.)
- Gordon, Robert R. (See Jones, C. W., and Gordon.)
- Gordon, William A., Shelton, Conn. Force-feed lubricator. 1,619,026; Nov. 15.
- Gordon, William R., Toledo, Ohio. Motor vehicle. 1,634,828; July 5.
- Gorham, Joseph, et al. (See Moore, S., and Sheets, assignor.)
- Gorham Mfg. Co. (See Magnusson, Erik, assignor.)
- Gorham Mfg. Company. (See Staf, Axel H., assignor.)
- Gorham, Sidney S., trustee. (See Baur, Hugo J., assignor.)
- Gorham, Sidney S., trustee. (See Tanner, Arnold J., assignor.)
- Goria, Frederick P., Seattle, Wash. Index. 1,614,838; Jan. 18.
- Gorin, Frederick P., Seattle, assignor of one-half to H. S. Emerson, King County, Wash. Thumb index. 1,617,446; Feb. 15.
- Gorin, Frederick P., Seattle, assignor of one-half to H. S. Emerson, King County, Wash. Thumb index. 1,622,641; Mar. 29.
- Gorman, Frank D., New York, N. Y. Ironing board. 1,633,403; June 21.
- Gorman, John H. (See Layman, Stephen D., assignor.)
- Gorman, Max E., Newark, N. J. Tool holder. 1,647,441; Nov. 1.
- Gormley, Frank L., Brookline, Mass. Lifting jack. 1,615,268; Jan. 25.
- Gormley, Frank L., Brookline, Mass., assignor to The Liftin' Jacks Co., Boston, Mass. Operating mechanism for lifting jacks. 1,623,108; Apr. 6.
- Gorr, John A. (See Huff, William D., assignor.)
- Gorrell, John B., Phoenix, Ariz. Loading machine. 1,647,910; Nov. 1.
- Gorrell, William R., Alhambra, assignor of one-half to H. Barkesmith, Los Angeles, Calif. Collapsible inclinometer. 1,651,818; Dec. 6.
- Gorsuch, George J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing apparatus. 1,634,498; July 5.
- Gorsuch, Robert A., Gambler, Ohio. Shipping box for chicks. Re16,518; Jan. 4.
- Gorton, Arthur F., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Ceramic article and method of producing them. 1,612,916; Jan. 4.
- Gorton, Walter T., U. S. Army, Springfield, Mass. Sear mechanism for guns. 1,618,280; Feb. 22.
- Gorton, Walter T., U. S. Army, Springfield, Mass. Mount for machine guns. 1,619,113; Mar. 1.
- Gorton, Walter T., U. S. Army, Springfield, Mass. Machine gun. 1,625,993; Apr. 26.
- Gorton, Walter T., U. S. Army, Springfield, Mass. Machine gun. 1,625,994; Apr. 26.
- Gorton, William S., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave-transmitting means. 1,654,075; Dec. 27.
- Gosch, William H., assignor to The Nolde and Horst Company, Reading, Pa. Revisable sample folder. 1,622,314; Mar. 29.
- Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company, Ltd. Loud speaker. Des. 73,030; July 12.
- Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company, Ltd. Lantern. 1,640,446; Aug. 30.
- Gossling, William J., assignor to James Corporation Limited, Montreal, Quebec, Canada. Razor-blade-stripper. 1,653,271; Dec. 20.
- Gosper, Amos, Brighton Le Sands, New South Wales, Australia. Expandable boring machine. 1,637,745; Aug. 2.
- Goss and De Leeuw Machine Company, The. (See De Leeuw, Adolph L., assignor.)
- Goss, Harold J., Nashua, N. H., assignor to The Lake Erie Trust Company, Cleveland, Ohio. Machine for making set-up boxes. 1,651,200; Nov. 29.
- Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Pin-hinge snap fastener. 1,649,768; Nov. 15.
- Goss, William A. (See Fraser, C. C., and Goss.)
- Goss Printing Press Company, The. (See Andersen, Niels C., assignor.)
- Goss Printing Press Company. (See Brushaber, Martin W., assignor.)
- Goss Printing Press Company. (See Evensen, William, assignor.)
- Goss Printing Press Company. (See Henzi, Albert A., assignor.)
- Goss, William C., Minneapolis, Minn. Disappearing step for vehicles. 1,616,793; Feb. 8.
- Gossage, James E., Everett, Wash. Vise. 1,616,039; Feb. 1.
- Gossard, H. W. Co., The. (See Cunningham, Katherine E., assignor.)
- Gosse, Henry, sr., Wabasha, Minn. Adjustable safety device for seeders and the like. 1,613,272; Jan. 4.
- Gosselt, John N., Sheridan, Mont. Lamp-supporting collar. 1,625,007; Mar. 29.
- Gossler, Paul, Noireaux, Switzerland. Short-circuiting rod. 1,652,116; Dec. 6.
- Gossling, Walter B., New York, N. Y., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Clamp terminal. 1,646,909; Oct. 25.
- Gotham Silk Hosiery Company. (See Wagner, Alfred, assignor.)
- Gotham, Walter E., Elizabeth, N. J. Evaporable device. 1,640,272; Aug. 23.
- Gothberg, Arthur W., Newark, N. J. Cable support. 1,630,423; May 31.
- Gothberg, Herman E., Wyoming, N. Y. Mop wringer. 1,627,383; May 3.
- Goths, Theodore H., South Orange, N. J. Travelling bag. 1,618,955; Feb. 22.
- Gotsche, Frank. (See Wolke, Herman, assignor.)
- Gott, Sam A., San Francisco, Calif. Steam-applying device. 1,617,755; Feb. 15.
- Gott, Monroe, Memphis, Tenn. Sacking, packing, and mixing machine. 1,635,036; July 12.
- Gottesman, Osias M., and I. Rosenfeld, New York, N. Y., assignors to Harvey Instrument Co., Inc. Thermometer attachment. 1,615,269; Jan. 25.
- Gottlieb, Charles, New York, N. Y. Vienna-roll-forming machine. 1,625,049; Apr. 19.
- Gottlieb, Abraham, assignor to A. D. Levi and P. Hanauer, Erie, Pa. Knicker cuff. 1,648,642; Nov. 8.
- Gottlieb, Harry R., Maplewood, Mo. Advertising billboard. Des. 72,895; June 21.
- Gottlieb, Louis E., St. Clair, Mo. Chair. Des. 74,010; Dec. 6.
- Gottmanns, Karl, Hilden, Germany. Machining double conical work pieces. 1,625,850; Apr. 19.
- Gottschalk, Frederick P., Plainfield, N. J. Tool for the use of electricians. 1,638,438; Aug. 9.
- Gottschalk, John W., Philadelphia, Pa. Scouring device. 1,639,804; Aug. 9.
- Gottschalk, Otto, Buenos Aires, Argentina. Attachment for measuring instruments. 1,622,105; Mar. 22.
- Gottschalk, Prosper L., Wauwatosa, Wis. Form for building construction. 1,627,171; May 3.
- Götz, Konrad, Furtth, Germany. Toy for playing with sand. 1,649,221; Nov. 15.

- Goudard, Félix, Neuilly-sur-Seine, France. Closure for vessels. 1,650,510; Nov. 22.
- Goude, Charles T., Washington, D. C. and O. Kelley, Bluemont, Pa. Form clamp. 1,648,342; Nov. 8.
- Goudet, Charles. (See Breslauer, J. and Goudet.)
- Goudy, Carl F., Flushing, assignor to Pacent Electric Company, Incorporated, New York, N. Y. Variable condenser. 1,613,032; Jan. 4.
- Goufer, Frank H., Carlisle, Pa. Can or receptacle. 1,643,009; Sept. 20.
- Gouge, Arthur. (See Short, Albert E. and H. O., and Gouge.)
- Gough, James J., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Electric cigar lighter. Des. 73,418; Apr. 12.
- Gough, James J., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Auxiliary lamp. 1,614,732; Jan. 18.
- Gough, James J., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Electric cigar lighter. 1,641,808; Sept. 6.
- Gough, Joseph, Newark, N. J., assignor to Gough Stemming Machine Corporation. Leaf separator. 1,631,198; June 7.
- Gough, Ned E., Seattle, Wash. Valve lifter. 1,619,669; Mar. 1.
- Gough Stemming Machine Corporation. (See Cornwall, George R., assignor.)
- Gough Stemming Machine Corporation. (See Gough, Joseph, assignor.)
- Gougler, Clyde J., Tulsa, Okla. Corner brace for tubular derricks joints. 1,643,887; Sept. 27.
- Gougler, Clyde J., Tulsa, Okla. Girt brace for derricks. 1,643,888; Sept. 27.
- Gougner, Henri C. L., assignor to Societe Belge des Produits Rationnels, Abin-Lez-Huy, Belgium. Suppository and insertion of the same. 1,626,079; Apr. 26.
- Goumand, Reine, and Pache, Edouard, New York, N. Y.; J. Pache, administratrix. Clamp. 1,627,172; May 3.
- Goulas, Henry, assignor of one-third to O. O. Mobley, Quantico, Va. Pipe wrench. 1,620,016; Mar. 8.
- Gould, Allen A. (See Wellman, S. K., and Gould.)
- Gould Car Lighting Corporation. (See Blake, Eli J., assignor.)
- Gould Car Lighting Corporation. (See Bouche, W. F., and Blake, assignors.)
- Gould, Charles E. (See Gell, P. V. W., Gould, Hampton, and Martin.)
- Gould, Charles T. E., Detroit, Mich. Window. 1,620,646; Mar. 15.
- Gould, Charles T. E., Detroit, Mich. Shoe lace. 1,625,204; Apr. 19.
- Gould, Charles T. E., Toronto, Ontario, Canada. Bathtub. 1,638,582; June 28.
- Gould Coupler Company. (See Sauvage, William H., assignor.)
- Gould & Eberhardt. (See Zimmermann, William F., assignor.)
- Gould, George, Olney, Ill. Mop. 1,623,672; Apr. 5.
- Gould, Harold G., and K. D. Obenshain, McKinney, Tex. Surgical appliance. 1,625,602; Apr. 19.
- Gould, Herman. (See Ackermann, F., and Gould.)
- Gould, Leslie J. and R., Toronto, Ontario, Canada. Compensating for unevenness in printer's type. 1,624,594; Apr. 12.
- Gould, Percival A., Gibsonburg, Ohio. Articulator. 1,617,590; Feb. 15.
- Gould, Robert. (See Gould, Leslie J. and R.)
- Gould, Roy F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,640,568; Aug. 30.
- Gould Storage Battery Company. (See Snyder, Almond H., assignor.)
- Gould, William G., Montreal, Quebec, Canada. Animated advertising device. 1,644,580; Oct. 4.
- Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Abrading machine. 1,619,021; Mar. 1.
- Gouldbourn, Joseph, and W. T. Minett, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Splitting machine. 1,638,929; Aug. 16.
- Goulden, Albert, Los Angeles, Calif. Combination lingerie and dress clasp. 1,651,595; Dec. 6.
- Goulder, Eli I. (See Fisher, A. S., and Goulder.)
- Gouldin, Benjamin, New York, N. Y. Game apparatus. 1,615,077; Jan. 18.
- Goulding, Benjamin J. J., Altrincham, assignor to Linotype and Machinery Limited, London, England. Rotary-web offset printing press. 1,618,983; Feb. 1.
- Goulding, Benjamin J. J., Altrincham, assignor to Linotype and Machinery Limited, London, England. Washing lithographic printing surfaces. 1,627,774; May 10.
- Goulding, Benjamin J. J., assignor to Linotype and Machinery Limited, London, England. Washing lithographic printing surfaces. 1,640,235; Aug. 23.
- Gourdon, Charles E. P., St. Mandé, France. Variable-pressure-operated expansion device. 1,631,262; June 7.
- Gourie, William J., Philadelphia, Pa. Knitting device. 1,635,547; July 12.
- Gourley, William F., Good Pine, La. Wrench. 1,639,177; Aug. 16.
- Goutal, Edouard. (See Hennebutte, H., and Goutal.)
- Gouverneur, Minor F. H., Rochester, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,617,154; Feb. 8.
- Gouverneur, Minor F. H., Victor, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,651,201; Nov. 29.
- Gouvin, Franz, Brussels, Belgium. Liquid-distributing apparatus. 1,642,302; Sept. 13.
- Government and the People of the United States, The. (See Dunning, Duncan, assignor.)
- Government and the People of the United States, The. (See Webb, Byron H., assignor.)
- Government and the People of the United States of America, The. (See Howard, B. J., and Stephenson, assignors.)
- Government and the People of the United States of America, The. (See Leighton, Alan, assignor.)
- Government and the People of the United States of America, The. (See Sale, J. W., and Wilson, assignors.)
- Government and the People of the United States of America, The. (See Smith, William D., assignor.)
- Government of the United States. (See Fraser, Charles E., assignor.)
- Gow, James, Romford, England. Treatment of amosite asbestos. 1,617,803; Feb. 15.
- Gowan, Lee L., assignor of one-half to J. M. Davis, Newberry, S. C. Tension regulator for slashers. 1,653,397; Dec. 20.
- Gowans, James, Leonia, N. J., assignor to Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabric. Des. 74,093; Dec. 13.
- Gowans, John M., Hartford, Conn. Cake support. 1,619,818; Mar. 8.
- Gowen, Robert F., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Radio panel board. 1,613,573; Jan. 4.
- Gower, Thomas C., and J. H. Williams, Greenville, S. C. Automatically-revolving billboard. 1,650,205; Nov. 22.
- Gower, Walter, Tampa, Fla. Clipping device. 1,616,447; Feb. 8.
- Gowland, Fred W., assignor of one-half to F. C. Croyle, Phillipsburg, Pa. Spark-plug-testing device. 1,639,603; Aug. 16.
- Goyea, Frank, et al. (See Donnellson, Blanche, assignor.)
- Gozzo, Michael, et al. (See Lindsey, George C., assignor.)
- Grab, Carl, Ludwigshafen-on-the-Rhine, Germany. Air-moistener. 1,643,844; Sept. 27.
- Grab, Eugene G., Nashville, Tenn. Retort for treatment of fruit. 1,613,452; Jan. 4.
- Grabill, John D., Woodstock, Va. Sizing machine for fruits and vegetables. 1,636,227; July 19.
- Grabler, Peter, Rocky River, assignor of one-half to C. E. Day, Lakewood, Ohio. Copyholding apparatus. 1,620,961; Mar. 15.
- Grabler, Peter, Rocky River, assignor of one-half to Charles E. Day, Lakewood, Ohio. Copyholder. 1,637,075; July 26.
- Grabowski, Romuald, Trenton, N. J. Floor-scraping machine. 1,616,896; Feb. 8.
- Grace, George G., assignor of one-half to R. E. Kline, Los Angeles, Calif. Belt connector. 1,635,939; June 28.
- Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,650,268; Nov. 22.
- Grace, John F., Kearny, N. J., assignor to Worthington Pump & Machinery Corporation. Surface condenser. 1,618,658; Feb. 8.
- Grace, John F., Kearny, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Expansion joint for turbine and condenser connections. 1,639,225; Aug. 16.
- Grace, John F., Kearney, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Tube cleaner. 1,644,995; Oct. 11.
- Grad, Frank, Carnegie, Okla. Bottle. Des. 73,497; Sept. 20.
- Graddick, Fletcher C., et al. (See Griffin, James T., assignor.)
- Gradoh, William F., and G. Mueller, assignors to The De Vilbiss Manufacturing Company, Toledo, Ohio. Air brush. 1,613,588; Jan. 4.
- Grady, James T., Wanamassa, N. J., assignor of one-third to H. Stemme, New York, N. Y. Automatic cooking apparatus. 1,618,557; Feb. 22.
- Gratigner, Benjamin, Zurich, Switzerland. Fluid-flow meter. 1,619,416; Mar. 1.
- Graesser Monsanto Chemical Works Limited, The. (See Maxwell-Lefroy, Harold, assignor.)
- Graf, Adolph, Chicago, Ill. Steam-heated iron. 1,625,535; Apr. 19.
- Graf, Edward F. (See Proust, W. S., and Graf.)
- Graf, Georg, Berlin-Pankow, Germany, assignor to General Electric Company. Protective device. 1,624,728; Apr. 12.
- Graf, Henry G., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Orchard-heater lighter. 1,640,222; Nov. 15.
- Graf, Raymond L., assignor to Keeler Brass Company, Grand Rapids, Mich. Hood fastener. 1,652,275; Dec. 13.
- Graf, Richard, South Bend, Ind., assignor to Graf-Lite Corporation, Chicago, Ill. Lamp. Des. 73,830; Nov. 15.
- Graf, Richard, South Bend, Ind. Lamp. 1,614,027; Jan. 11.

- Graf, Rudolf, and W. Lapp, Nuremberg, Germany. Glass ampul serving as packing receptacle for surgical sewing material. 1,645,490; Sept. 27.
- Graff, Charles, assignor to Graff, Washbourne & Dunn, New York, N. Y. Combined cigar lighter and ash tray. Des. 72,091; Mar. 1.
- Graff, Charles, assignor to Graff, Washbourne & Dunn, New York, N. Y. Combined cigar lighter and ash tray. Des. 72,092; Mar. 1.
- Graff Furnace Company. (See Bennett, Wilbur, assignor.)
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Corner light. Des. 72,419; Apr. 12.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Vehicle lamp or similar article. Des. 73,078; July 19.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Dome light. Des. 73,405; Sept. 6.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Handle for door latches or the like. Des. 73,429; Sept. 13.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Window-regulator handle. Des. 73,783; Nov. 8.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Handle for door latches or the like. Des. 73,909; Nov. 22.
- Graff, Washbourne & Dunn. (See Graff, Charles, assignor.)
- Graffnberger, Gust, Portland, Oreg. Trimmer-saw mechanism. 1,645,750; Oct. 18.
- Graffnberger, Gust, Portland, Oreg. Valve. 1,645,751; Oct. 18.
- Grallin, Lewis, Ocean View, assignor to Two-Season Process, Incorporated, Norfolk, Va. Heating system. 1,640,766; Aug. 30.
- Graham, Beatrice L., Catford, England. Lifeguard or obstruction remover for motor-propelled and similar vehicles. 1,622,868; Mar. 20.
- Graf-Lite Corporation. (See Graf, Richard, assignor.)
- Gragg, Robert L. (See Stripling, Luke S., assignor.)
- Graham, Adoniram J., and L. O. Tekell, Whittier, assignors to Gra-Kell Line-Spooler Company, Los Angeles, Calif. Line spooler. 1,624,232; Apr. 12.
- Graham, Alfred, et al., executors. (See Graham, Edward A.)
- Graham-Barnett, William, New York, N. Y. Hair shield. 1,613,095; Jan. 4.
- Graham Brothers. (See Kuhn, Clinton J., assignor.)
- Graham, David E., Coudersport, assignor of one-half to J. C. Patchen, Jersey Shore, Pa. Socket-wrench container. 1,617,109; Feb. 8.
- Graham, Edward A., deceased, Brockley, England; M. Graham and A. Graham, executors. Horn, trumpet, or like acoustic amplifier. 1,613,511; Jan. 4.
- Graham, Edward A., deceased, London, England; M. Graham and A. Graham, executors. Combined gramophone and telephonic sound duct. 1,613,512; Jan. 4.
- Graham, Edward A., deceased, Brockley, London, England; M. Graham and A. Graham, executors. Telephonic receiver. 1,619,114; Mar. 1.
- Graham, Edward A., deceased, Brockley, England; M. Graham and A. Graham, executor and executor. Telephone receiver. 1,625,995; Apr. 26.
- Graham, Edward A., deceased, Brockley, London, England; M. Graham and A. Graham, executors. Telephone receiver with detachable sound amplifier. 1,636,362; July 19.
- Graham, Edward A., deceased, Brockley, England; M. and A. Graham, executors. Combined gramophone and wireless sound-reproducing means. 1,650,344; Nov. 22.
- Graham, Elmer R., assignor of one-half to A. R. Millitz, Pittsburgh, Pa. Adjustable wall-bracket hanger for electric fixtures. 1,648,117; Nov. 8.
- Graham, Frank H., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission control. 1,641,425; Sept. 6.
- Graham, George, and C. C. Helms, Douglaston, N. Y. Fabric-roll holder. 1,626,080; Apr. 26.
- Graham, George C., and R. S. Robe, Watertown, Mass. Pump installation. 1,653,167; Dec. 20.
- Graham, Glass Company. (See Lents, J. M., and Miller, assignors.)
- Graham Glass Company, The. (See Miller, Frank R., assignor.)
- Graham, Guy G. (See Jensen, H., Salsbery, and Graham.)
- Graham, James H., Wilkinsburg, Pa., assignor, by mesne assignments, to Johns-Manville, Incorporated, New York, N. Y. Shingle covering. 1,637,522; Aug. 2.
- Graham, Louis A., Evanston, and C. L. Low, Chicago, Ill. Sign-composing device. 1,626,815; May 3.
- Graham, Maria, et al., executors. (See Graham, Edward A.)
- Graham, Matthew P. (See Crawford, F. C., and Graham.)
- Graham, Matthew P., Detroit, Mich., assignor to Thompson Products Inc., Cleveland, Ohio. Tie-rod construction. 1,646,288; Oct. 18.
- Graham, Ota T., Richmond, Va. Gasoline-dispensing system. 1,633,483; June 21.
- Graham, Paul, assignor of one-half to H. O. Childreth, Long Beach, Calif. Trip gate for chutes or the like. 1,654,043; Dec. 27.
- Graham, Percy, Chicago, Ill. Pneumatic-tire tread. Des. 73,173; Aug. 2.
- Graham, Stephen J. (See Donathan, William F., assignor.)
- Graham, Tom C., assignor to The Embossing Company, Albany, N. Y. Plant and flower modeling outfit. 1,630,082; May 24.
- Graham, William A., Brooklyn, N. Y., assignor to Radio Corporation of America. Wireless apparatus. 1,614,524; Jan. 18.
- Graham, William R., Bronx, N. Y. Box. 1,637,299; July 20.
- Graham, William S., Canton, assignor, by mesne assignments, to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Depth adjuster for plows. 1,632,128; June 14.
- Graham, Willie, Houston, Tex. Concrete-molding machine. 1,632,286; June 14.
- Grahame, Dallas F., Toronto, Ontario, Canada, assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Stoker-ram drive. 1,632,401; June 14.
- Grahame, Dallas F., Toronto, Ontario, Canada, assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Drive for stokers. 1,639,087; Aug. 10.
- Grahonia, Joe, et al. (See Thomas, George M., assignor.)
- Gra-Kell Line-Spooler Company. (See Graham, A. J., and Tekell, assignors.)
- Grames, Lawrence R. (See Cornwell, A. L., and Grames.)
- Gran, Albert, Chicago, Ill. Receptacle. 1,627,282; May 3.
- Granade, Fred C., assignor of one-half to Mueller Brass Foundry Company, St. Louis, Mo. Apparatus for making castings. 1,614,360; Jan. 13.
- Granat, Elie, Paris, France. Electric differential control system. 1,616,794; Feb. 8.
- Granat, Elie, Paris, France. Polyphase distant control system for differential transmission. 1,616,795; Feb. 8.
- Granat, Elie, Paris, France. Electric transmission system. 1,642,438; Sept. 13.
- Granath, Joseph D., Chicago, Ill. Internal-combustion engine. 1,623,589; Apr. 5.
- Granberg, Albert J. (See Brodie, R. N., and Granberg.)
- Granberg, Albert J., Berkeley, Calif. Fluid meter. 1,613,885; Dec. 6.
- Grandbois, Urs G., Kalamazoo, Mich. Coin-controlled vending machine. 1,643,068; Sept. 20.
- Grand Central Mining Company. (See Hendrickson, Harry H., assignor.)
- Grand Council of the Order of De Molay. (See Stange, Christopher L., assignor.)
- Grandin, Lewis M., New York, N. Y. Telephone casing. Des. 73,910; Nov. 22.
- Grandolph, William F., and G. Mueller, assignors to The De Villibus Manufacturing Company, Toledo, Ohio. Spray gun. 1,613,823; Jan. 11.
- Grand Rapids Machine & Chair Company. (See Clark, Frank J., assignor.)
- Grand Rapids Brass Company. (See Osbeck, Elmer C., assignor.)
- Grand Rapids Metalcraft Corporation. (See De Boer, Rudolph, assignor.)
- Grand Rapids Store Equipment Corporation. (See Morris, Edmund, assignor.)
- Grand Rapids Trust Company, executor. (See Burns, David E.)
- Grandstaff, Albert L., Akron, Ohio. Steam trap. 1,618,081; Feb. 15.
- Grandstaff, Albert L., Akron, Ohio. Steam trap. 1,623,003; Mar. 29.
- Grandt, Edward S. (See Greenfield, Sigmund.)
- Gräner, Ladislaus P., Eindhoven, Netherlands, assignor to General Electric Company. Electric-light equipment. 1,652,981; Dec. 13.
- Gräner, Ladislaus P., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Metal cap for electric incandescent lamps and its manufacture. 1,623,836; Apr. 5.
- Grange, John D., Brookfield, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Makers' articles and process of making articles. 1,642,774; Sept. 20.
- Grange, John D., Brookfield, and E. F. Vosyka, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Process of and apparatus for making steel sheets. 1,641,605; Jan. 18.
- Grant, Wallace H., San Francisco, Calif. Ink fountain for printing presses. 1,642,809; Sept. 20.
- Granite City Electric Company. (See Ellenbecker, John P., assignor.)
- Grandsen, William H., Tulsa, Okla., assignor to Westinghouse Electric & Manufacturing Company. Control device. 1,617,841; Feb. 15.
- Grant, Erik. (See Nordenfalk, P., and Granstedt.)
- Granstedt, Erik, assignor to Aktiebolaget Formator, Stockholm, Sweden. Machine for handling tobacco. 1,619,507; Mar. 1.
- Grant, Albert E., New York, N. Y., assignor to Calorol Burner Corporation. Oil burner. 1,632,402; June 14.
- Grant, Charles W., Lynn, Mass. Game. 1,627,087; May 3.
- Grant, Edward, Manhattan, Kans. Sash-weight mold. 1,649,162; Nov. 15.
- Grant, F. E., et al. (See Nesmith, Samuel D., assignor.)
- Grant, Frederick C., Chicago, Ill. Accelerator pedal. 1,618,652; Feb. 22.

- Grant, George E., Derry, N. H. Jar opener. 1,624,833 Apr. 12.
- Grant, George W., Everett, assignor to Lovell & Covey Co., Boston, Mass. Box. 1,645,807; Oct. 18.
- Grant, Harry L., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Protecting device for electric detonators. Rel.6,544; Feb. 8.
- Grant, Jim A., Chicago, Ill., and G. A. Lowry, New York, N. Y. Brick-cleaning machine. 1,647,991; Nov. 8.
- Grant, Jim A., and G. A. Lowry, New York, N. Y. Brick handling and cleaning machine. 1,622,869; Mar. 29.
- Grant, John, Los Angeles, Calif. Tongs or wrench. 1,614,610; Jan. 18.
- Grant, John, Los Angeles, assignor to Dunn Manufacturing Company, Oxnard, Calif. Well elevator. 1,653,095; Dec. 20.
- Grant, Jordan W., Portsmouth, Va. Nozzle stand. 1,650,829; Nov. 29.
- Grant, Kipling A., F. R. Halliday, and A. W. Cameron, Toronto, Ontario, Canada; said Halliday, and said Cameron assignors to said Grant. Imitation tree. 1,641,163; Sept. 6.
- Grant, Lewis C. (See Gregory, R. W., and Grant.)
- Grant, R. S., Co. (See Grant, Robert S., assignor.)
- Grant, Richard F., et al. (See Wetherbee, Herbert E., assignor.)
- Grant, Richard F., et al. (See Wetherbee, H. E., and Jacobus, assignors.)
- Grant, Robert S., assignor to R. S. Grant Co., Inc., Providence, R. I. Flexible chain, bracelet, or the like. 1,635,269; July 12.
- Grant, Simon P., New Westminster, British Columbia, Canada. Lieuman's lifting and hoisting device. 1,625,118; Apr. 19.
- Grant, W. T., Company. (See Marcouillier, Ernest J., assignor.)
- Grant, Walter S., St. Louis, Mo. Container. 1,649,223; Nov. 15.
- Grant, William C., E. J. Thomas, and G. W. Drew, assignors to Acme Partition Company, Oakland, Calif. Colling door. 1,621,717; Mar. 22.
- Grant, William H., Milwaukee, Wis. Carriage for polishing machines. 1,615,977; Feb. 1.
- Grant, William M., San Francisco, Calif., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,652,569; Dec. 13.
- Granter, Jacob, and J. Davis, Oakland, Calif. Automobile signal device. 1,638,028; Aug. 9.
- Grantier, Leslie V., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Vapor-cooling system. 1,632,596; June 14.
- Grantland, John W., assignor to The Edna Brass Manufacturing Company, Cincinnati, Ohio. Gauge cock. 1,632,403; June 14.
- Gräntzsdörfer, August, Magdeburg, Germany. Vacuum pan. 1,650,122; Nov. 22.
- Granular Iron Company. (See Smith, Joseph K., assignor.)
- Granzow, Carl A. (See Mueller, J. G., and Granzow.)
- Granzow, Henry M. (See Mueller, J. G., and Granzow.)
- Graser, George W., Beaver Falls, assignor to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Link coupler. 1,630,486; May 31.
- Grass, George W., Milwaukee, Wis. Outboard motor. 1,659,339; Aug. 10.
- Grass, Jacob T., Owatonna, Minn. Attachment for squares. 1,648,266; Nov. 8.
- Grasselli Chemical Company, The. (See Alvord, Earl B., assignor.)
- Grasselli Chemical Company, The. (See Corson, Harry P., assignor.)
- Grasselli Chemical Company, The. (See Drefabl, Louis C., assignor.)
- Grasselli Chemical Company, The. (See Graves, Walter G., assignor.)
- Grasselli Chemical Company, The. (See Howald, Arthur M., assignor.)
- Grasselli Chemical Company, The. (See Howard, Henry, assignor.)
- Grasselli Chemical Company. (See Kline, Emil, assignor.)
- Grasselli Chemical Company, The. (See McQuaid, Howard S., assignor.)
- Grasselli Chemical Company, The. (See Schweitzer, William K., assignor.)
- Grasselli Chemical Company, The. (See Tanner, Wellington L., assignor.)
- Grasselli Dyestuff Corporation. (See Berliner, R., Stein, and Trautner, assignors.)
- Grasselli Dyestuff Corporation. (See Cotton, William, assignor.)
- Grasselli Dyestuff Corporation. (See Daimler, K., Marchschall, and Baile, assignors.)
- Grasselli Dyestuff Corporation. (See Duisberg, W., Hentrich, and Zeh, assignors.)
- Grasselli Dyestuff Corporation. (See Duisberg, W., Hentrich, Zeh, and Huismann, assignors.)
- Grasselli Dyestuff Corporation. (See Glietenberg, Eugen, assignor.)
- Grasselli Dyestuff Corporation. (See Hartmann, Erich, assignor.)
- Grasselli Dyestuff Corporation. (See Hentrich, W., and Hardtmann, assignors.)
- Grasselli Dyestuff Corporation. (See Herz, Richard, assignor.)
- Grasselli Dyestuff Corporation. (See Herz, R., and Müller, assignors.)
- Grasselli Dyestuff Corporation. (See Herz, R., and Schulte, assignors.)
- Grasselli Dyestuff Corporation. (See Hohl, Alfred, assignor.)
- Grasselli Dyestuff Corporation. (See Kahn, M., and Mayer, assignors.)
- Grasselli Dyestuff Corporation. (See Kränzlein, G., and Voss, assignors.)
- Grasselli Dyestuff Corporation. (See Kraus, Carl, assignor.)
- Grasselli Dyestuff Corporation. (See Kugel, Max, assignor.)
- Grasselli Dyestuff Corporation. (See Nawalsky, P., Bräunsdorf, and Holzapfel, assignors.)
- Grasselli Dyestuff Corporation. (See Neelmeier, Wilhelm, assignor.)
- Grasselli Dyestuff Corporation. (See Neelmeier, W., and Nocken, assignors.)
- Grasselli Dyestuff Corporation. (See Neelmeier, W., Nocken, and Rebnor, assignors.)
- Grasselli Dyestuff Corporation. (See Rabe, Paul, assignor.)
- Grasselli Dyestuff Corporation. (See Rabe, P., and Scheps, assignors.)
- Grasselli Dyestuff Corporation. (See Schirmacher, K., Zahn, Wilke, and Ochwat, assignors.)
- Grasselli Dyestuff Corporation. (See Schmidt, Maximilian P., assignor.)
- Grasselli Dyestuff Corporation. (See Schmidt, M. P., and Neugebauer, assignors.)
- Grasselli Dyestuff Corporation. (See Schmidt, Robert E., assignor.)
- Grasselli Dyestuff Corporation. (See Steln, Berthold, assignor.)
- Grasselli Dyestuff Corporation. (See Tesche, H., and Job, assignors.)
- Grasselli Dyestuff Corporation. (See Thiess, K. Müller, Kunne, and Schaeffer, assignors.)
- Grasselli Dyestuff Corporation. (See Wagner, Hermann, assignor.)
- Grasselli Dyestuff Corporation. (See Wagner, H., and Funke, assignors.)
- Grasselli Dyestuff Corporation. (See Wagner, H., Langbein, Beck, and Thiess, assignors.)
- Grasselli Chemical Company, The. (See Wood, Charles I., assignor.)
- Grassie, Onorato. (See Gania, O., Avondoglio, and Grassie.)
- Grassmann, Peter, Berlin, Germany. Loud speaker for wireless telephony and other purposes. 1,632,287; June 14.
- Grating Company of America, The. (See Nagin, Harry, assignor.)
- Grattan, Joseph G., Long Beach, Calif. Hydraulic control device. 1,613,563; Jan. 4.
- Grattan, Joseph G., Long Beach, Calif., assignor, by mesne assignments, to Texas Iron Works Sales Corporation, Houston, Tex. Joint-breaking apparatus. 1,615,695; Jan. 25.
- Gratton, Edward, Detroit, Mich. Commutator. 1,635,886; July 12.
- Grau, Herbert E. (See Watson, G. D., and Grau.)
- Grave, Frederick, Washington, D. C., assignor of one-half to T. Kent, Baltimore, Md. Loop antenna. 1,615,755; Jan. 25.
- Grael, Edwin L., assignor to The Graulock Company, Cincinnati, Ohio. Locking-device control. 1,630,263; May 31.
- Graver, Allan H., assignor of one-half to C. T. Comstock, Syracuse, N. Y. Washing machine. 1,641,481; Sept. 6.
- Graul, William F., Northampton, Mass. Wood filler for lacquers. 1,652,353; Dec. 13.
- Graulock Company, The. (See Grauel, Edwin L., assignor.)
- Graulock Company, The. (See Kentrup, Clemens T., assignor.)
- Graupner, Paul L., Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Mueller & Co., Rod-Claret machine. 1,622,378; Mar. 29.
- Gravel, James H., Elkins Park, Pa. Metal pickling. 1,632,833; June 21.
- Graveman, William H., Kenilworth, N. J., assignor to Kar-Ben-Cast Manufacturing Company, Inc., New York, N. Y. Making shingles and similar building articles. 1,657,709; Nov. 29.
- Graver Corporation. (See Cobb, Lonie, assignor.)
- Graves, Arnold, Frinton-on-Sea, England. Vehicle lamp. 1,620,202; Mar. 8.
- Graves, Benjamin P., Cranston, R. I., assignor to Brown Sharp Manufacturing Company. Overarm for milling machines. 1,633,846; Dec. 27.
- Graves, Benjamin P., Providence, R. I., assignor to Brown and Sharp Manufacturing Company. Milling machine. 1,654,496; Dec. 27.
- Graves, George C., Rockford, Mich. Automobile sled attachment. 1,638,195; Aug. 9.
- Graves, Harry S., assignor to Spiral Piston Ring Company, Detroit, Mich. Apparatus for electrically forming spiral piston rings. 1,619,296; Mar. 1.
- Graves, Harry S., assignor to Spiral Piston Ring Company, Detroit, Mich. Method and apparatus for testing piston rings. 1,637,482; Aug. 2.

- Graves, Rebecca, Spokane, Wash. Bathtub appliance. 1,650,067; Nov. 22.
- Graves, Roy M., and E. R. D'Olive, assignors to Associated Engineers Company, Chicago, Ill. Lighting fixture. 1,636,414; July 9.
- Graves, Scott S., San Diego, Calif. Pressure cooker. 1,635,476; July 12.
- Graves, Walter G., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Drying and calcining lithopone. 1,630,613; May 31.
- Graves, Walter M., Hingham, Mass. Steam-fitter's appliance. 1,622,506; Mar. 29.
- Graveure, Louis, New York, N. Y. Golf club. 1,652,404; Dec. 13.
- Gray, Albert W., Eldora, Iowa. Potato agitator. 1,653,957; Dec. 27.
- Gray, Arthur W., Milford, Del. Centrifugal casting or coating system. 1,636,228; July 19.
- Gray, Bartlett S., trustee. (See Anderson, John A., assignor.)
- Gray, Bertram, and R. Curtis, Johannesburg, Transvaal, South Africa. Liquid rheostat. 1,630,176; May 24.
- Gray, Charles B., Philadelphia, Pa. Machine for cutting sheet-form material. 1,639,904; Aug. 23.
- Gray, Charles B., Philadelphia, Pa. Machine for cutting sheet-form material. 1,646,145; Oct. 18.
- Gray, Christian H., London, England. Manufacture of hollow articles of rubber. 1,640,987; Aug. 30.
- Gray, Dallas H., Armona, Calif. Fruit-tray cleaner. 1,617,756; Feb. 15.
- Gray, Daniel M., E. Haub, and J. J. Williams, assignors to Hazel-Atlas Glass Company, Wheeling, W. Va. Closure for food containers. 1,629,698; May 24.
- Gray, David. (See Rider, Herbert B., assignor.)
- Gray, David G., Vancouver, British Columbia, Canada. Combination square and level. 1,653,561; Dec. 20.
- Gray, David N., Pittsburgh, Pa. Pocketbook-fastening device. 1,630,002; May 24.
- Gray & Dudley Company. (See Griswold, William A., assignor.)
- Gray, Earl C., St. Charles, Mo. Antiglare device. 1,653,208; Dec. 20.
- Gray, Elmer E., Lynn, Mass., assignor, by mesne assignments, to Elliott Addressing Machine Company. Envelope-sealing device. 1,632,648; June 14.
- Gray & Emmet F., Detroit, Mich. Muffler. 1,619,115; Mar. 1.
- Gray, Emmet P., Detroit, Mich. Automobile heater. 1,619,116; Mar. 1.
- Gray, Emmet P., Detroit, Mich. Valve control. 1,619,117; Mar. 1.
- Gray, Emmet P., Detroit, Mich. Automobile heater cover. 1,640,137; Aug. 23.
- Gray, Ernest A., Augusta, Me. Legging. 1,613,885; Jan. 11.
- Gray, Frederick O., Dayton, Ohio. Speed-controlling device for motor-driven vehicles. 1,640,149; Aug. 23.
- Gray, Frederick O., assignor to Ohmer Fare Register Company, Dayton, Ohio. Taximeter-fare-counter control. 1,615,541; Jan. 25.
- Gray, G. A., Company, The. (See Cardullo, Forrest E., assignor.)
- Gray, Geoffrey A., Cincinnati, Ohio, and M. B. Newburger, Covington, Ky. Treating butter cream. 1,643,301; Sept. 27.
- Gray, George C. G., Philadelphia, Pa., assignor to Automatic Fuel Savings Company. Automatic combustion control for steam boilers. 1,617,591; Feb. 15.
- Gray, Hiram L., Scarsdale, assignor to Oakite Products, Inc., New York, N. Y. Cleaning device. 1,628,141; May 10.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Fish eviscerator. 1,628,968; May 17.
- Gray, James A., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Creased flange. 1,636,957; July 26.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Fish-feeding means. 1,649,304; Nov. 15.
- Gray, James H., New York, N. Y. Burner for liquid fuel. 1,644,372; Oct. 4.
- Gray, James W., Keithsburg, Ill. Closure means for filling openings. 1,613,886; Jan. 11.
- Gray, Jane, Company. (See Stokes, Jane G., assignor.)
- Gray, Joseph H., St. Joseph, Mo. Device for aligning wheels. 1,639,604; Aug. 16.
- Gray, Lester H., Portage, Pa. Surfacing machine. 1,620,459; Mar. 8.
- Gray, Owen H., and C. E. Murdock, Salt Lake City, Utah. Ore-sampling machine. 1,642,337; Sept. 13.
- Gray, Peter, & Sons Inc. (See Kelsea, Clarence H., assignor.)
- Gray Products, Inc. (See Field, Crosby, assignor.)
- Gray, Ralph B., Chicago, Ill. Windshield wiper. 1,634,460; July 5.
- Gray, Tom F., Manchester, England. Valve. 1,642,242; Sept. 13.
- Gray, Tom F., Stockport, England. Valve. 1,648,986; Nov. 15.
- Gray, W. D. (See Sullins, H. I., and Mustain, assignors.)
- Gray, Walter S., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive. 1,619,572; Mar.
- Gray, Wilburn D. (See Sullins, Harold L., assignor.)
- Gray, William B., Chicago, Ill. Windshield wiper. 1,645,646; Oct. 18.
- Gray, William E., Chicago, Ill. Electrical vibrator. 1,635,405; July 12.
- Green, Alexandre M., New York, N. Y. Scarf. 1,652,982; Dec. 13.
- Gransen, Edmund W., New York, N. Y. Artist's composing frame and color chart. 1,645,102; Oct. 11.
- Greassometer Corporation, The. (See Brinton, William C., Jr., assignor.)
- Greason, William, Detroit, Mich. Oil cup. 1,646,196; Oct. 18.
- Greenhouse, Lucien H., Jamaica, assignor of one-third to C. H. Keel, New York, N. Y. Catalyst for ammonia synthesis. 1,618,004; Feb. 15.
- Great Lakes Auto Products Company. (See Johnson, Jav M., assignor.)
- Great Lakes Golf Corporation. (See Sleith, Samuel W., assignor.)
- Great Northern Paper Company. (See Allen, Carlton H., assignor.)
- Great Northern Paper Company. (See Cram, Hervey G., assignor.)
- Great Northern Paper Company. (See Whitcomb, William A., assignor.)
- Great Western Electric Chemical Co. (See Farnsworth, William H., assignor.)
- Great Western Electro Chemical Company. (See Hirschkind, Wilhelm, assignor.)
- Greaves, Abilio M. de S., Cambridge, Mass. Portable fire alarm. 1,624,866; Apr. 12.
- Grebe, Alfred H., Hollis, N. Y. Radio receiving apparatus. 1,623,918; Apr. 5.
- Grebe, Alfred H., Hollis, N. Y. Illuminating dial. 1,642,676; Sept. 20.
- Grebe, Alfred H., Hollis, N. Y. Illuminating dial. 1,642,677; Sept. 20.
- Grechko, Izidor, Homestead, Pa. Pontoon. 1,630,003; May 24.
- Greco, Joseph, New York, N. Y. Stocking. Des. 71,790; Jan. 4.
- Gregor, Ralph H. (See Rush, A., and Gregor.)
- Gregor, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting curtain. 1,646,646; Oct. 4.
- Green, Albert H., executor. (See Green, Walter R.)
- Green, Albert N., et al. (See Walston, Joseph A., assignor.)
- Green, Andrew, assignor to American Gas Machine Company, Inc., Albert Lea, Minn. Adjusting valve and making the same. Re16,617; May 10.
- Green, Andrew, assignor to American Gas Machine Company, Inc., Albert Lea, Minn. Adjusting valve. 1,618,323; Jan. 4.
- Green, Archibald H., London County, England, assignor to The International Silencer Company (1926) Limited, county of London, England. Silencer for gaseous current. 1,627,322; May 8.
- Green, Arthur, Coventry, England. Refrigerating apparatus. 1,621,161; Mar. 15.
- Green, Arthur, Coventry, England. Refrigeration and cold storage. 1,623,871; Apr. 5.
- Green, Arthur, Coventry, England. Pump for refrigerating apparatus. 1,635,615; July 12.
- Green, Charles F., Romford, England, assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding mechanism for rotary printing machines. 1,653,958; Dec. 27.
- Green, Clifford H., assignor, by mesne assignments, to Automatic Musical Instrument Company, Grand Rapids, Mich. Spool mechanism for musical-instrument-player devices. 1,647,112; Oct. 25.
- Green, Collingwood, Bolton, England. Wheel for road vehicles. 1,617,210; Feb. 8.
- Green, Dennis E., Amarillo, Tex. Garage-door-operating device. Des. 73,789; Jan. 18.
- Green, Edward W., London, and H. Orden, Westcliff-on-Sea, England. Apparatus for separating fuel and other oils from water contaminated therewith. 1,636,815; July 26.
- Green Engineering Company. (See Marsh, Thomas A., assignor.)
- Green, Fred C., assignor to Illinois Refrigerator Company, Morrison, Ill. Water cooler for refrigerators. 1,621,162; Mar. 15.
- Green, Frederick M. (See Wylie, H. N., and Green.)
- Green Fuel Economizer Company, The. (See Messler, Clinton S., assignor.)
- Green, George C., Johannesburg, Transvaal, South Africa. Spring wheel for road vehicles. 1,630,937; May 31.
- Green, Harold. (See Germond, H. S., and Green.)
- Green, Harold K., and J. W. Jennings, Providence, R. I. Vase. Des. 73,733; Aug. 30.
- Green, Henry, Union Hill, N. J., assignor to H. Fischer, New York, N. Y. Radio loud speaker. 1,639,036; Aug. 10.
- Green, Henry M., deceased, Los Angeles, Calif.; Pacific Southwest Trust & Savings Bank, administrator, assignor to P. H. Bray. One-piece plunger body. 1,636,935; July 26.

- Green, Irving W., Cranford, N. J., assignor to American Telephone and Telegraph Company. Headband for telephone receivers. 1,616,491; Feb. 8.
- Green, J. Birchard, assignor to Fusion Welding Corporation, Chicago, Ill. Welding rod. 1,632,546; June 14.
- Green, Jack, Norfolk, Va. Lawn-edge trimmer. 1,632,129; June 14.
- Green, Jack, Norfolk, Va. Clamp for containers. 1,632,732; June 14.
- Green, Jack, Norfolk, Va. Cleaning apparatus. 1,651,766; Dec. 6.
- Green, Jacob M. (See Mapou, Harry B., assignor.)
- Green, James A., Bayard, Va. Apparatus for teaching by ear in addition of musical compositions. 1,653,458; Dec. 20.
- Green, Jerry S., Le Claire, Iowa. Self-locking clothesline receiver. 1,626,728; May 3.
- Green, Lee B., Lakewood, assignor of one-third to E. L. Jones, Cleveland, one-third to C. L. Finney, Canton, and one-third to C. B. Krouse, Cleveland, Ohio. Pump. 1,618,333; Feb. 22.
- Green, Lee B., Lakewood, assignor of one-third to E. L. Jones, Cleveland, one-third to C. L. Finney, Canton, and one-third to C. B. Krause, Cleveland, Ohio. Refrigerating apparatus. 1,642,925; Sept. 20.
- Green, Lee B., Lakewood, assignor of one-half to C. B. Krause, Cleveland, Ohio. Repeating fuse switch. 1,652,782; Dec. 13.
- Green, Matthew, Detroit, and H. H. Willard, Ann Arbor, assignors to Parker Rust-Proof Company, Detroit, Mich. Rustproofing and articles produced thereby. 1,639,694; Aug. 23.
- Green, Michael A., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Cap for bottles or similar articles. Des. 73,696; Oct. 25.
- Green, Newton B., assignor to Eastman Kodak Company, Rochester, N. Y. Light control for photographic printers. 1,651,767; Dec. 6.
- Green, Robert G., Minneapolis, Minn. Gauge. 1,653,163; Dec. 20.
- Green, Royal L., Greenville, S. C. Safety cranking device. 1,651,635; Dec. 20.
- Green, Samuel G. (See Jervey, T. M., and Green.)
- Green, Samuel G., Gray, Ga. Rear sight for guns. 1,621,476; Mar. 15.
- Green, Samuel G., Gray, Ga. Tripod mount. 1,639,846; Aug. 23.
- Green, Samuel G., Gray, Ga. Mount for guns. 1,643,491; Sept. 27.
- Green, Samuel G., Camp Benning, Ga., and J. S. Hatcher, Annapolis, Md., assignors to United States Machine Gun Company, Boston, Mass. Gunmount. 1,621,365; Mar. 15.
- Green, Samuel W., Philadelphia, Pa. Woodworking machine. 1,616,745; Feb. 8.
- Green, Thomas L. (See Williams, Charles H., assignor.)
- Green, Thomas L., W. P. Morton, and C. H. Williams, Indianapolis, Ind., said Williams and said Morton assignors to said Green. Lubricating system. 1,648,173; Nov. 8.
- Green, Thomas W., Westmont, N. J., assignor to Thomas Wilbraham Green Engineering Co., Philadelphia, Pa. Suction cleaner. 1,633,367; June 21.
- Green, Thomas W., Westmont, N. J., assignor to Thomas Wilbraham Green Engineering Co., Philadelphia, Pa. Electric suction sweeper. 1,646,088; Oct. 18.
- Green, Thomas Wilbraham, Engineering Co. (See Green, Thomas W., assignor.)
- Green, Walter H., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Apparatus for regeneration of zeolites and the like. 1,620,886; Mar. 15.
- Green, Walter H., assignor to General Zeolite Company, Chicago, Ill. Chemical mixing and feeding apparatus. 1,638,119; Aug. 9.
- Green, Walter H., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Process and apparatus for utilizing zeolites. 1,644,469; Oct. 4.
- Green, Walter H., and A. S. Behrman, assignors, by mesne assignments, to General Zeolite Company, Chicago, Ill. Purifying water. 1,653,272; Dec. 20.
- Green, Walter R., deceased, A. H. Green, executor, assignor to International Stamping Company, Chicago, Ill. Tire carrier. 1,647,442; Nov. 1.
- Green, William A. (See Coxton, W. J., and Green.)
- Green, William M. (See Schmidt, F. W., and Green.)
- Green, William P., et al. (See Pennebaker, George B., assignor.)
- Greenbaum, Alexander L. (See Ford, R. H., Richardson, Greenbaum, and Priest.)
- Greenan, Frank D., assignor to Fostoria Glass Co., Moundsville, W. Va. Des. 72,827; June 14.
- Greenan, James E., Ashton, R. I. Votive stand. 1,636,994; July 26.
- Greenawalt, John E. (See Alexovits, Thomas M., assignor.)
- Greenawalt, Lewis J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic disk. 1,654,510; Dec. 27.
- Greenawalt, Ralph D., assignor of one-half to W. T. Jane, Chicago, Ill. Animated display device. 1,636,415; July 19.
- Greenawalt, William E., Denver, Colo. Copper-extraction process. 1,614,668; Jan. 18.
- Greenawalt, William E., Denver, Colo. Copper-extraction process. 1,614,669; Jan. 18.
- Greenawalt, William E., Denver, Colo. Copper-extraction process. 1,614,670; Jan. 18.
- Greenawalt, William E., Denver, Colo. Metallurgical process. 1,633,091; June 21.
- Greenawalt, William E., Denver, Colo. Metallurgical process. 1,634,497; July 6.
- Greenbaum, L. F., Rockaway, and E. Van Hoofstadt, Oceanside, N. Y., assignor to Lion Match Company, Inc. Match book. 1,628,661; May 17.
- Greenbaum, Nathan, New York, N. Y., and A. Rosenband, Newark, N. J. Interchangeable initial or ornamentation for hand bags and other articles. 1,630,130; July 19.
- Greenberg, Arthur S., New York, N. Y. Adjustable extension for treadles. 1,639,375; Aug. 16.
- Greenberg, Ella, New York, N. Y. Combined umbrella and package carrier. 1,652,667; Dec. 13.
- Greenberg, Harry, Brooklyn, N. Y. Die press. 1,629,268; May 17.
- Greenberg, Jacob, and S. Goodman, Chicago, Ill. Child's garment. 1,615,301; Jan. 25.
- Greenberg, Joseph, and D. Dworkin, Wilkes-Barre, Pa. Brake mechanism. 1,637,300; July 26.
- Greenblatt, Nathan, New York, N. Y. Watchcase center. 1,621,110; Mar. 15.
- Greenberg, Raul, Brooklyn, N. Y. Window cleaner. 1,623,004; Mar. 29.
- Greenberg, Samuel, New York, N. Y. Child's overcoat. 1,634,169; Sept. 20.
- Greenberg & Schwartz. (See Soman, Michael E., assignor.)
- Greene, Albert E., Seattle, Wash. Electric furnace. 1,616,796; Feb. 8.
- Greene, Albert E., Seattle, Wash. Combination induction furnace. 1,639,840; Feb. 8.
- Greene, Albert E., Medina, Wash. Electrode mechanism for electric furnaces. 1,616,797; Feb. 8.
- Greene, Albert E., Medina, near Seattle, Wash. Electrode mechanism for electric furnaces. 1,616,798; Feb. 8.
- Greene, Albert E., Medina, Wash. Electric furnace. 1,634,419; Dec. 27.
- Greene, Ambrose E., Berkeley, Calif. Screen. 1,644,121; Oct. 4.
- Greene, David W., assignor to Max E. Bernhardt, New York, N. Y. Cigarette case. 1,628,590; May 10.
- Greene, D. L., Pittsburg, Pa. Washboard. 1,643,845; Sept. 27.
- Greene, Elmer G., Cleveland, Ohio. Cleaning and polishing machine. 1,615,622; Jan. 25.
- Greene, Frederick E. (See Hinman, G. L., and Greene.)
- Greene, Frederick E., assignor to The Greist Manufacturing Company, New Haven, Conn. Outside door handle. Des. 73,256; Aug. 16.
- Greene, Frederick J., assignor to Christensen Machine Co., Racine, Wis. Signature machine. 1,641,482; Sept. 6.
- Greene, Harry A. Jr. (See Wood, S. J., and Greene.)
- Greene, Heall M., Whittier, Calif. Cutting oil-well casings and drill pipe. 1,641,483; Sept. 6.
- Greene, Irving H., New York, N. Y. Nutcracker. 1,649,468; Nov. 15.
- Greene, Oscar V., Cleveland, Ohio. Air filter. 1,639,132; Aug. 16.
- Greene, Oscar V., Cleveland, Ohio. Filter element. 1,639,133; Aug. 16.
- Greene, Otto W., Amherst Township, Lorain County, Ohio, assignor, by mesne assignments, to The Pfaunder Company, Rochester, N. Y. Liquid-agitating mechanism. 1,615,391; Jan. 4.
- Greene, Robert F., Waban, Mass. Wall construction and building block. 1,618,281; Feb. 22.
- Greene, Robert F., Waban, Mass. Building block and wall construction. 1,618,426; Feb. 22.
- Greene, Tweed & Co. (See McGurk, Edward J., assignor.)
- Greene, Whitney E., and A. E. Morong, Brookline, Mass. Valve-lifting device. 1,632,834; June 21.
- Greener, Joseph, New York, N. Y. Butter mold. 1,639,937; Aug. 23.
- Greenewald, Eugene L., Washington, D. C. Closure. 1,632,668; Dec. 13.
- Greenewalt, Mary H., Philadelphia, Pa. Associating light and music. Re16,825; Dec. 20.
- Greenfield, Hugh G., assignor of one-half to Variety Machinery Company, Tacoma, Wash. Veneer-taping machine. 1,638,664; Aug. 9.
- Greenfield, Sigmond, now by judicial change of name E. S. Grandt, New York, N. Y. Dispensing top for containers. 1,622,714; Mar. 29.
- Greenfield Tap and Die Corporation. (See Addis, Wendell A., assignor.)
- Greenfield Tap and Die Corporation. (See Drake, Alden M., assignor.)
- Greenfield Tap and Die Corporation. (See Echols, Francis G., assignor.)
- Greenfield Tap and Die Corporation. (See Morgan, Ralph L., assignor.)
- Greenhalgh, Charles G. (See Gagnon, Archie, assignor.)
- Greenhalgh, George H. (See Sweetland, E. J., and Greenhalgh.)
- Greenhill, Pink E., Charlotte, N. C., assignor to Abington Textile Machinery, Trustees, Boston, Mass. Pneumatic stripper for carding engines. 1,616,896; Feb. 8.

- Greenhouse, Samuel, Akron, Ohio. Pressure-operable valve. 1,631,263; June 7.
- Greenig, Merlin D., La Harpe, Ill. Self-adjusting cone-rod bearing. 1,634,993; July 5.
- Greenland, Walter R., Los Angeles, Calif. Ink dispenser. 1,632,473; June 14.
- Greenleaf, George E., Plainfield, and H. L. Blood, North Plainfield, and R. H. Rausch, Plainfield, N. J., as signors to Niles-Bement-Pond Company, New York, N. Y. Tool-operating mechanism. 1,640,767; Aug. 30.
- Greenleaf, Robert L., Shaker Heights, assignor to F. Billings, Cleveland, Ohio. Loading system. 1,646,197; Oct. 18.
- Greenlee Bros. & Co. (See Edward, D. W., and Mansfield, Edward, assignors.)
- Greenlee, Fred, Galia, Ohio. Dirigible headlight construction for automobiles. 1,631,412; June 7.
- Greenman, Wolf, Brooklyn, N. Y. Metallic bedstead. 1,639,847; Aug. 23.
- Greenspoon, Hovner, Los Angeles, Calif. Window awning. 1,646,910; Oct. 25.
- Greinstein, Philip D., assignor to The Raybestos Company, Bridgeport, Conn. Friction element and making same. 1,649,110; Nov. 15.
- Greenstreet, Charles J., Chicago, Ill. Powdered soluble fruit, vegetable, or other edible natural or manufactured substances and making a powdered fruit, vegetable, or other edible substance or composition. 1,619,202; Mar. 1.
- Greenstreet, Charles J., Chicago, Ill., assignor to American Coalinoli Corporation, New York, N. Y. Fuel and producing same. 1,623,241; Apr. 5.
- Greenstreet, Oliver P., Owensville, Mo. Ridge cap. 1,653,847; Dec. 27.
- Greenstreet, Oliver P., Owensville, assignor of one-fourth to W. H. Oberg, St. Louis, and one-fourth to J. T. Tate, Owensville, Mo. Clothes washer. 1,638,730; Aug. 9.
- Greenville Steel Car Company. (See Dietrich, William S., assignor.)
- Greenville Steel Car Company. (See Gardner, Kenneth C., assignor.)
- Greenwald, Harold A., assignor to T. C. Whitehead, Detroit, Mich. Compressor. 1,649,584; Nov. 15.
- Greenwald, Leslie J., Chicago, Ill. Vanity case. 1,631,588; June 7.
- Greenwald, Sidney, and S. Cascio, Brooklyn, N. Y. Tool for applying shoe buttons. 1,647,024; Oct. 25.
- Greenwalt, William E., Denver, Colo. Metallurgical process. 1,618,187; Feb. 27.
- Greenway, Milton E., and R. W. Chambers, Whitewright, Pa. Automatic circuit breaker. 1,627,029; May 8.
- Greenway, Richard J., Westery, R. I., assignor to C. B. Cottrell & Sons Company, Stonington, Conn. Antioffset mechanism for printing presses. 1,638,572; Aug. 9.
- Greenway, Richard J., Westery, R. I., assignor to C. B. Cottrell & Sons Company, Stonington, Conn. Antioffset mechanism for printing presses. 1,638,573; Aug. 9.
- Greenway, Richard J., Westery, R. I., assignor to C. B. Cottrell & Sons Company, Stonington, Conn. Antioffset mechanism for printing presses. 1,638,574; Aug. 9.
- Greenway, Richard J., Westery, R. I., assignor to C. B. Cottrell & Sons Company, Stonington, Conn. Antioffset mechanism for printing presses. 1,638,575; Aug. 9.
- Greenway, Richard J., Westery, R. I., assignor to C. B. Cottrell & Sons Company, Stonington, Conn. Antioffset mechanism for printing presses. 1,638,576; Aug. 9.
- Greenwell, Nevil, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa. Detonating fuse. 1,651,696; Dec. 6.
- Greenwich, Anna J., assignor of one-half to W. M. Roewer, Chicago, Ill. Marcel water waver. 1,637,816; Aug. 2.
- Greenwich, Anna J., assignor of one-half to W. M. Roewer, Chicago, Ill. Hairpin. 1,647,797; Nov. 15.
- Greenwood, Charles H., La Salle, assignor to The Carborundum Company, Niagara Falls, N. Y. Drier. 1,615,222; Jan. 25.
- Greer, Andrew J., Gallatin, Tenn. Lawn mower. 1,632,226; Dec. 6.
- Greer, Butts F., San Francisco, Calif. Savings bank. 1,624,335; Apr. 12.
- Greer, Commodore L., League City, Tex. Hanger. 1,618,334; Feb. 22.
- Greer, Edward R., assignor to Trail-It Company, Minneapolis, Minn. Tractor hitch. 1,623,179; Apr. 5.
- Greer, Fredric, Elmhurst, Ill. Writter, assignor.)
- Greer, James B., Pittsburgh, Pa. Glass-cutting machine. 1,615,978; Feb. 1.
- Greer, James B., Pittsburgh, Pa., assignor to The Greer Manufacturing Company, Cleveland, Ohio. Glass-cutting apparatus. 1,650,345; Nov. 22.
- Greer, Jesse W., Cambridge, Mass. Conveyer. 1,635,406; July 12.
- Greer Manufacturing Company, The. (See Greer, James B., assignor.)
- Greer, Theobert H., et al. (See Hunt, John D., as signor.)
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,606; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,607; May 10.
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- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,611; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,612; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,613; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,614; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,615; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,616; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,617; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,618; May 10.
- Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,619; May 10.
- Gregel, Fred F., Fort Lupton, Colo. Shingling gauge. 1,645,808; Oct. 18.
- Greger, Henrik, assignor to The Hooven, Owens, Rent-schler Company, Hamilton, Ohio. Valve gear. 1,648,492; Sept. 27.
- Gregersen, Siegfried W., Crookston, Neb. Repair guard for mowers and the like. 1,619,721; Mar. 1.
- Gregg, Charles F., Indianapolis, Ind. Drying machine. 1,652,276; Dec. 13.
- Gregg Company, The. (See Gregg, Louis D., assignor.)
- Gregg, William C., Ithaca, assignor by mesne assignments, to A. S. Evelett, Little Falls, N. Y. Egg receptacle for incubators. 1,638,303; Aug. 9.
- Gregg, Louis D., Hackensack, N. J., assignor to The Gregg Company, Limited, New York, N. Y. Vehicle for the transportation of sugar cane and the like. 1,634,778; July 5.
- Gregg, Louis D., Hackensack, N. J., assignor to The Gregg Company, Limited, New York, N. Y. Cane car and the like. 1,634,779; July 5.
- Gregg, Louis D., Hackensack, N. J., assignor to The Gregg Company, Limited, New York, N. Y. Cane car and the like. 1,651,768; Dec. 6.
- Gregg, Mahlon H. (See Pennock, T. E., and Gregg.)
- Gregg, Mark H., Oakland, Calif. Tire vulcanizer. 1,648,493; Sept. 27.
- Gregg, Robert D. (See Shidler, F. L., and Gregg.)
- Gregoire, Joseph J., Hollywood, Calif. Internal-combus-tion engine. 1,637,748; Aug. 2.
- Gregorius, Joseph S. (See Koupal, W. G., and Gregorius.)
- Gregorius, Joseph S., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Apparatus for drawing sheet glass. 1,631,319; June 7.
- Gregory Auto Awning Corporation. (See Gregory, Oscar Gregory, Bike, Vernon, Tex. Quick-change rotary drill. 1,653,900; Dec. 27.
- Gregory, Bige, and C. C. Mitchell, Vernon, assignors of three-sixteenths to J. Love, three-sixteenths to E. L. Isham, and one-fourth to C. Thrasher, Wilbarger County, Tex. Automatic trip valve for storage tanks. 1,645,480; Oct. 11.
- Gregory-Butts Company. (See Butts, Emil F., assignor.)
- Gregory, Charles, assignor of one-half to W. Freeman, Denison, Tex. Boot and shoe stretcher. 1,630,295; May 31.
- Gregory Furniture Mfg. Co. (See Wall, Thomas, as-signor.)
- Gregory, George P., assignor to The Boston Auto Gage Company, Pittsfield, Mass. Strainer. 1,613,166; Jan. 4.
- Gregory, George P., assignor to The Boston Auto Gage Company, Pittsfield, Mass. Strainer. 1,617,048; Feb. 8.
- Gregory, George P., assignor to The Boston Auto Gage Company, Pittsfield, Mass. Float gauge. 1,633,322; June 21.
- Gregory, Oscar T., Chicago, Ill., assignor to Gregory Auto Awning Corporation, Oil City, Pa. Awning. 1,645,697; Oct. 18.
- Gregory & Read Company. (See Gulliford, Nicholas L., assignor.)
- Gregory, Richard W., Hexham-on-Tyne, assignor to Elec-trical Improvements Limited, Newcastle-upon-Tyne, England. Electric circuit breaker. 1,626,528; Apr. 26.
- Gregory, Richard W., Hexham-on-Tyne, and L. C. Grant, Heaton, England, assignors to Electrical Improvements Limited, Newcastle-upon-Tyne, England. Electric switch or circuit breaker. 1,645,905; Oct. 18.
- Gregory, William S., Cincinnati, Ohio. Safety buffer ap-paratus for automobiles and other vehicles. 1,632,170; Dec. 13.
- Greif Brothers Copperage Company, The. (See Raible, John R., assignor.)
- Greiner, Max, Charlottenburg, Germany. Magneto-electric automatic interrupter. 1,643,270; Sept. 20.
- Greiner, Richard, Berlin, Germany. Artificial eye. 1,634,986; June 28.
- Greiner, William P. (See Wigglesworth, H. H., and Greiner.)
- Greist Manufacturing Company, The. (See Carmichael, Andrew J., assignor.)

- Greist Manufacturing Company, The. (See Carmichael, A. J., and Thurber, assignors.)
- Greist Manufacturing Company, The. (See Greene, Frederick B., assignor.)
- Greist Manufacturing Company. (See Hinman, G. L., and Greene, assignors.)
- Greist Manufacturing Company, The. (See Thurber, Harry F., assignor.)
- Groive, Edmund J., Los Angeles, Calif. Casket. 1,620,544; Mar. 8.
- Groive, H. (See Gault, Frank W., jr., assignor.)
- Greiwie, Hugo F. (See Kelley, E. H., Greiwie, and Hoskin.)
- Grell, Fred G., San Antonio, Tex. Condensing apparatus. 1,645,481; Oct. 11.
- Gremel, Ernst J., Detroit, Mich. Mold fastener. 1,641,927; Sept. 6.
- Grenier, Henry J., Bridgeport, Conn. Cue-tip fastener. 1,620,545; Mar. 8.
- Grenier, Henry J., assignor of one-half to B. Jacobs, Bridgeport, Conn. Cue tip. 1,648,613; Nov. 8.
- Grenier, Walter J. (See Ackermann, F. B., Steffan, and Greiner.)
- Greseth, Melvin I. (See Overboe, E. C., and Greseth.)
- Gress, Karl. (See Edeleuann, L., Pfeiffer, Gress, and Jodeck.)
- Gresser, Peter, Detroit, Mich. Lubricating system. 1,648,896; Nov. 15.
- Grether, Carl, Todtnau, Germany. Brush. 1,626,816; May 3.
- Gretsch, Frederick, Brooklyn, N. Y. Reed holder. 1,625,651; Apr. 19.
- Gretsch, Walter. (See Cohn, Herman, assignor.)
- Greulich, Michael I., North Plainfield, N. J. Case. 1,631,371; June 7.
- Greulich, Gerald G., Cleveland, Ohio. Reinforcing frame for concrete structures. 1,613,392; Jan. 4.
- Greulich, Emil. (See Riegel, Jacob, assignor.)
- Greve, Edgar E., Bellevue, Pa. Tong support for earth. 1,612,974; Jan. 4.
- Greve, Edgar E., Bellevue, Pa. Casing elevator. 1,618,653; Feb. 22.
- Greve, Edgar E., Bellevue, Pa. Crank for drilling rigs. 1,621,665; Mar. 22.
- Greve, Edgar E., Bellevue, Pa. Flexible shaft coupling. 1,634,940; July 5.
- Greve, Edgar E., Bellevue, Pa. Rotary for earth boring, boring apparatus. 1,644,470; Oct. 4.
- Greve, Edgar E., Bellevue, Pa. Valve-seat puller. 1,652,857; Dec. 13.
- Greve, Herman L., Brooklyn, N. Y. Carton. Des. 73,127; July 26.
- Greve, Herman L., Brooklyn, N. Y. Mailing package. 1,636,773; July 26.
- Grewin, Fredrik, Norrköping, Sweden, assignor to American Voith Contact Company, Incorporated, New York, N. Y. Drying. 1,631,026; May 31.
- Grey Iron Casting Company. (See Coventry, William A., assignor.)
- Grey, Robert B., London, England. Machinery foundation. 1,633,940; June 28.
- Grey, William G., Baltimore, Md. Duplex umbrella. 1,625,539; May 15.
- Gribbe, Arthur. (See Williams, William G., assignor.)
- Gribble, Elmer T., assignor of one-half to R. E. Richard, Conaling, Calif. Sucker-rod turner. 1,633,092; June 21.
- Grid-Iron-Grip Company. (See Slauson, Louis E., assignor.)
- Grieger, Richard. (See Westphal, C., and Grieger.)
- Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories, Inc. Bracket for electric lamps. Des. 73,493; Sept. 20.
- Gries, Frank X., assignor to C. J. Reitz, Sunbury, Pa. Stovepipe lock. 1,631,027; May 31.
- Gries, Lester M., assignor of one-half to United Tool and Manufacturing Co. and one-half to Master Woodworker Manufacturing Co., Detroit, Mich. Floor-surfacing machine. 1,640,933; Aug. 30.
- Griesbaum, Maurice W., Cincinnati, Ohio. Laundry marking machine. 1,650,608; Nov. 25.
- Griest, Elmer G., Toledo, Ohio. Detachable power unit for vehicles. 1,648,375; Nov. 8.
- Griese, Elmer G., assignor to The Liberty Development Company, Toledo, Ohio. Radiator construction. 1,648,804; Nov. 8.
- Griesedieck, Robert J., St. Louis, Mo. Shank reinforcement. 1,628,960; May 17.
- Griesinger, John, Los Angeles, Calif. Identification device. 1,634,419; July 5.
- Grieve, David, Detroit, Mich. Drafting ellipsograph. 1,635,270; July 12.
- Grievio, Medford A. (See Burr, H. B., and Grieve.)
- Griewank, Arthur C., Oakland, Calif. Concrete railway cars. 1,637,817; Aug. 2.
- Griffes, Arthur R., Wroming, Ohio, assignor, by mesne assignments, to The Plinkote Company, Boston, Mass. Display device. 1,648,987; Nov. 15.
- Griffey, Dinney F., assignor of one-half to R. N. Cox, Red Jacket, W. Va. Railway-switch locking and operating means. 1,627,503; May 3.
- Griffin, Cedric E. (See Eaton, Leslie E., assignor.)
- Griffin, Charles, Ypsilanti, Mich. Combined coffee and tea pot. 1,631,932; June 7.
- Griffin, David G., Chattanooga, Tenn. Chemical container. 1,617,155; Feb. 8.
- Griffin, Frank W., Galesburg, Ill. Clothesline reel. 1,640,224; Nov. 15.
- Griffin, George E., Pittsburgh, Pa. Container for artificial bait and the like. 1,624,233; Apr. 12.
- Griffin, Harry, West Branch, Mich. Animal trap. 1,648,765; Nov. 8.
- Griffin, James B., Waterbury, Conn. Vanity box. 1,637,133; July 26.
- Griffin, James T., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Cementing material. 1,632,404; June 14.
- Griffin, James T., assignor of forty per cent to F. C. Graddick and thirty-five per cent to H. C. Hargrove, Wadsworth, N. Y. Belt. 1,636,602; July 19.
- Griffin, John F. (See St. John, H. A., and Griffin.)
- Griffin, Joseph E., Savannah, Ga. Airplane wing construction. 1,630,938; May 31.
- Griffin, Joseph F., Brooklyn, assignor to The Superheater Company, New York, N. Y. Pressure gauge. 1,621,320; Mar. 15.
- Griffin, Samuel P., Sulphur Springs, Fla. House-moving truck. 1,641,848; Sept. 6.
- Griffin, Wayne M., Manchester, N. H. Musical instrument. 1,653,169; Dec. 20.
- Griffin Wheel Company. (See Vial, F. K., and Evans, assignors.)
- Griffith, William A., Buffalo, N. Y. Apparatus for charging cupolas and the like. 1,643,208; Sept. 20.
- Griffith, Charles G. (See Meyer, Julius A., assignor.)
- Griffith, Edna M. (See Griffith, George W., assignor.)
- Griffith, George W., assignor to E. M. Griffith, Laurel, Neb. Lifting device. 1,618,923; Feb. 22.
- Griffith, Isaac E., Lowell, Ind. Portable swing. 1,646,089; Oct. 13.
- Griffith, James, New Toronto, Ontario, Canada, assignor to The Brunswick-Balke-Coller Company, Wilmington, Del. Bowling alley. 1,635,784; July 12.
- Griffith, John H., Scottville, Pa. Fastening device for automobile plates. 1,613,654; Jan. 11.
- Griffith, Morgan J., Schenectady, N. Y., assignor to General Electric Company. Suspension of trolley wires. 1,643,209; Sept. 20.
- Griffith, Nick. (See Casselman, E. J., Griffith, and Johnson.)
- Griffith, Palmer W. (See Buchanan, G. H., and Griffith.)
- Griffith, Porter M., assignor to Grunbagen's, San Francisco, Calif. Book end. Des. 72,149; Mar. 8.
- Griffith, Richard H., Richmond, Ind., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Cultivator. 1,619,862; Mar. 8.
- Griffith, Richard H., Richmond, Ind., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Cultivator. 1,645,422; Oct. 11.
- Griffith, Richard H., Richmond, Ind., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Cultivator. 1,649,825; Nov. 22.
- Griffith, Thomas H., Dover, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,616,184; Feb. 1.
- Griffith, Thomas R., Dover, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron-discharge device. 1,647,617; Nov. 1.
- Griffith, William B., Philadelphia, Pa., assignor to Star Sprinkler Corporation. Valve. 1,638,131; July 19.
- Griffiths, George F., Mount Vernon, N. Y., Paper clip. 1,654,076; Dec. 27.
- Griffiths, George F., Mount Vernon, N. Y. Machine for and making paper clips. 1,654,077; Dec. 27.
- Griffiths, Harry A., Edgbaston, England. Sheet feeding mechanism. 1,623,032; Mar. 29.
- Griffiths, Harry A., Birmingham, and R. H. Griffiths, Sutton Coldfield, England. Press for operating on metal sheets or for like purposes. 1,615,623; Jan. 25.
- Griffiths, Richard H. (See Griffiths, Harry A., and R. H.)
- Griffiths, Richard T. (See Steele, C. V., and Griffiths.)
- Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Article made from plastic material and making the same. 1,613,993; Jan. 11.
- Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Manufacturing seamed hollow rubber articles. 1,644,122; Oct. 4.
- Griffiths, Samuel G., Huntington, Ind. Reinforcing truss or frame. 1,618,527; Feb. 22.
- Griffiths, William J., Toronto, Ontario, Canada. Controlling mechanism for water-heating systems. 1,630,741; May 31.
- Griffiths, William U., Philadelphia, Pa. Valve operating means for flush tanks. 1,620,547; Mar. 15.
- Griffiths, William U., Philadelphia, Pa. Actuating flush tank valves. 1,620,648; Mar. 15.
- Griggs, Francis G., Rosetown, Saskatchewan, Canada. Cultivator. 1,636,936; July 26.
- Griggs, Fred D., Springfield, Mass. Signboard or article of similar nature. Des. 71,791; Jan. 4.
- Griggs, Stephen A. (See Hibbee, James F., assignor.)
- Grigby, Richard H. (See Grunow, William C., assignor.)
- Grigby, Bertram J., Park Ridge, Ill. Drink mixer. 1,615,875; Feb. 1.
- Grigshy-Grunow-Hinds Co. (See Grigshy, Owen E., assignor.)
- Grigshy-Grunow-Hinds Co. (See Grunow, W. C., assignor.)

- Grigsby-Grunow-Hinds Co. (See Johnson, Bernard G., assignor.)
- Grigsby, Owen E., Park Ridge, assignor to Grigsby-Grunow-Hinds Co., Chicago, Ill. Weather shield and glare visor. 1,615,078; Jan. 18.
- Grigsby, Owen E., Park Ridge, assignor to Grigsby-Grunow-Hinds Co., Chicago, Ill. Visor for automobiles. 1,615,079; Jan. 18.
- Grigsby, Owen E., Park Ridge, assignor to Grigsby-Grunow-Hinds Co., Chicago, Ill. Automobile windshield visor. 1,632,474; June 14.
- Grikscheit, William, Detroit, Mich. Carburetor. 1,627,845; May 10.
- Grikscheit, William, Detroit, Mich. Carburetor. 1,634,461; July 5.
- Grill, Calvin E., San Francisco, Calif. Automatic gun. 1,617,683; Feb. 15.
- Grill, Daniel, Roanoke, Va. Storage-battery cover. 1,618,528; Feb. 22.
- Grill, Euren. (See Pfisterer, Karl, assignor.)
- Grillo, Stanley, and J. Guerra, Tuckahoe, N. Y. Animated wind-operated ornament. 1,635,937; July 12.
- Grimaldi, Ignatius B., Brooklyn, N. Y. Automatic light indicator for pianos. 1,642,810; Sept. 20.
- Grimble, Frank, M., Caird, and E. Coombs, London, England. Centrifugal separating apparatus. 1,643,346; Nov. 15.
- Grimditch, William H. (See Holland, W. E., and Grimditch.)
- Grimditch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Wood separator and preparing same. 1,638,765; Aug. 9.
- Grimm, Archie E., Decatur, Ohio. Incubator. 1,654,372; Dec. 27.
- Grimes, David, Tompkinsville, N. Y., assignor to American Telephone and Telegraph Company. Alternating-current relay. 1,621,533; Mar. 22.
- Grimes, Frank M., Eldorado, assignor of one-half to H. P. Hanson, Wichita, Kans. Internal-combustion engine. 1,622,917; Jan. 4.
- Grimes, Robert B. (See Founds, Edison A., assignor.)
- Grimes, William E., Washington, D. C. Insulator. 1,649,111; Nov. 15.
- Grimley, William, Smethwick, England. Syringe or sprayer. 1,653,562; Dec. 20.
- Grimm, Frank V. (See Rogers, F. M., Grimm, and Wendt.)
- Grimm, Gerhardt E., Springfield, assignor to Westfield River Paper Company, Russell, Mass. Paper and coating the same. 1,614,611; Jan. 18.
- Grimm, Gerhardt E., Springfield, assignor to Westfield River Paper Company, Russell, Mass. Coated paper and making the same. 1,617,945; Feb. 15.
- Grimm, Gerhardt E., Springfield, assignor to Westfield River Paper Company, Russell, Mass. Tinted burnished metal-coated paper. 1,617,946; Feb. 15.
- Grimme, Natalis & Co., Aktiengesellschaft. (See Hoffmeister, Hermann, assignor.)
- Grimme, Natalis u. Co. Aktiengesellschaft. (See Schlichter, Willi, assignor.)
- Grimme, Natalis & Co. Aktiengesellschaft, Braunschweig, Germany. (See Wernecke, Otto, assignor.)
- Grimshaw, William, Glen Ellyn, Ill. Fusible link. 1,613,453; Jan. 4.
- Griness, Frank. (See Travnick, Frank.)
- Grings, Casper H., assignor to Waterloo Saddlery Company, Waterloo, Iowa. Shaping and stapling machine. 1,647,443; Nov. 1.
- Grinoch, Jacob B. (See Vogel, M. J., and Grinoch.)
- Grinoch, Jacob B. and S. Bronx, N. Y. Continuously-sounding piano device. 1,619,722; Mar. 1.
- Grinoch, Simon. (See Grinoch, Jacob B. and S.)
- Gripcock, Inc. (See Lucrott, Winfred N., assignor.)
- Grip Nod Co. Company. (See Sharp, William E., assignor.)
- Griscom, Alfred C., assignor to King Sanitary Pipe Cleaner Company, Sandy Hook, Conn. Cutter for milk-bottle seal rings. 1,625,603; Apr. 19.
- Griscom-Russell Company, The. (See Bogardus, Arthur G., assignor.)
- Griscom-Russell Company, The. (See Dewald, Edward A., assignor.)
- Griscom-Russell Company, The. (See Jones, Russell C., assignor.)
- Griscom-Russell Company, The. (See Pabodie, Robert J., assignor.)
- Griscom-Russell Company, The. (See Price, Joseph, assignor.)
- Griscom-Russell Company, The. (See Sebald, Leslie E., assignor.)
- Grisdale, George W., assignor to The Brown Instrument Company, Philadelphia, Pa. Multiple switch. 1,616,450; Feb. 25.
- Griser, Wendell P. (See Hoard, Milo C., assignor.)
- Grisinger, Elwood, Buffalo, N. Y. Sound-vibration-transmitting device. 1,628,242; May 10.
- Grissold, Andrew E., Seattle, Wash. Safety switch. 1,629,158; May 17.
- Groat, J. C., Newark, and W. H. Chapman, Montclair, N. J., assignors to General Motors Corporation, Detroit, Mich. Gauging machine. 1,627,699; May 10.
- Grissold, John L., Dodge Center, Minn. Wire-webbing anchoring device. 1,644,015; Oct. 4.
- Grissold, John W., Warren, Pa., assignor to Henry L. Doherty & Company, New York, N. Y. Method of and apparatus for controlling the combustion of fuel in furnaces. 1,644,123; Oct. 4.
- Grissold, Lester E., Columbus, Ohio. Thong cutter. 1,621,718; Mar. 22.
- Grissold Manufacturing Company. (See Massing, Charles A., assignor.)
- Grissold, Robert G., Westfield, N. J., assignor to Doherty Research Company, New York, N. Y. Distilling coal. 1,635,667; July 12.
- Grissold, Robert G., Westfield, N. J., assignor to Doherty Research Company, New York, N. Y. Gas distribution. 1,645,137; Oct. 11.
- Grissold, Walter E., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,645,323; Oct. 11.
- Grissold, William A., assignor to Gray & Dudley Company, Inc., Nashville, Tenn. Foot warmer for furnaces. 1,647,828; Nov. 1.
- Gritman, Abel D., Philadelphia, Pa. Dental apparatus. 1,646,749; Oct. 25.
- Gritman, Add D. and C., Spokane, Wash. Storage battery. 1,645,698; Oct. 18.
- Gritman, Carl. (See Gritman, Add D. and C.)
- Gritton, Alpheus J., Fairmont, Minn. Timepiece. 1,650,123; Nov. 22.
- Griwe, Victor J., Paris, France. Dental forceps. 1,636,861; July 26.
- Grizzard, George D., North Emporia, Va. Peanut digger. 1,634,660; July 5.
- Groak, Irwin D. (See Cohen, Irving H., assignor.)
- Grobe, Julius J., Chicago, Ill. X-ray operating table. 1,628,043; May 10.
- Groehn, Otto J., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Automobile body. 1,642,730; Sept. 20.
- Groehn, Otto J., and W. Blaskewitz, assignors to Clayton & Lambert Manufacturing Company, Detroit, Mich. Fire-pot construction. 1,618,981; Mar. 1.
- Groehn, Otto J., and W. Blaskewitz, assignors to Clayton & Lambert Manufacturing Company, Detroit, Mich. Fire-pot construction. 1,639,938; Aug. 23.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe. 1,617,992; Feb. 15.
- Groene, William F., assignor to The R. K. Leblond Machine Tool Company, Cincinnati, Ohio. Crank-shaft lathe. 1,633,683; June 28.
- Groene, William F., assignor to The R. K. Leblond Machine Tool Company, Cincinnati, Ohio. Tool feed for machine tools. 1,639,995; Aug. 23.
- Groenebaum, Wilhelm, Neu-Babelsberg, near Berlin, Germany, assignor to the Firm Naamloze Vennootschap Financierale Maatschappij "Driebergen," Scheveningen, Netherlands. Record cylinder carrier of speech-recording or reproducing machines. 1,614,335; Oct. 4.
- Groenestein, Philip, Cleveland, Ohio. Combined glare shield and a supporting bracket therefor. Des. 73,005; Oct. 11.
- Groeniger, William C., and J. C. Cromwell, Columbus, Ohio, assignors by mesne assignments, to Testite Company. Closet connection. 1,618,188; Feb. 22.
- Groesbeck, Harold L., Salt Lake City, Utah. Locking cap for tanks. 1,625,652; Apr. 19.
- Groeschel, Lesser B., Mount Vernon, N. Y. Film mount. 1,617,304; Feb. 8.
- Groetken, Joseph J., Aurora, Ill. Fluid-testing device. 1,638,333; Aug. 9.
- Groff, Aaron, St. Paul, Minn. Folded paper napkin. 1,639,031; Aug. 16.
- Groff, Francis G., Clyde, Kans. Time-limit stop. 1,649,684; Nov. 15.
- Groff, George B. (See Sherwood, A. W., and Groff.)
- Groff, James O. (See Seymour, W., Jr., Groff, and Schaff.)
- Groff, Suttan H., Long Beach, Calif. Diathermy knife. 1,639,996; Aug. 23.
- Groff, William A., Philadelphia, Pa. Permanent-hair-waving device. 1,624,336; Apr. 12.
- Grogg, Charles C., Mansfield, Ohio. Container. 1,626,930; May 3.
- Groh, Jacob B., Los Angeles, assignor of one-half to J. H. Groh, Ocean Park, Calif. Sign. 1,642,022; Sept. 13.
- Groh, James H. (See Groh, Jacob B., assignor.)
- Groh, Melvin S., Toronto, Ontario, Canada, and J. A. Hallis, assignors, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Machine for expanding metal sheets. 1,636,774; July 26.
- Groisser, Bennett M. (See Shlager, A. E., and Groisser.)
- Grolan Manufacturing Company, The. (See Carter, Alice L., assignor.)
- Grolan Manufacturing Company, The. (See Cole, C. M., and Adams, assignors.)
- Grolan Manufacturing Company, The. (See Frank, Walter N., assignor.)
- Grolan Manufacturing Company, The. (See Groves, Frank A. and J. F., assignors.)
- Grolan Manufacturing Company, The. (See Hill, Reuben, assignor.)
- Grolan Manufacturing Company, The. (See Rippling, E. J., assignor.)
- Gromeko, John. (See Trotnoff, M., and Gromeko.)
- Gronberg, Clarence O., assignor of one-third to A. M. Price, Elgin, Ill. Lead pencil. 1,619,508; Mar. 1.
- Gron Dahl, Lars O. (See Lee, F. W., and Gron Dahl.)

- Gron Dahl, Lars O. (See Nettleton, L. L. and Gron Dahl.)
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. Re16,744; Sept. 27.
 Gron Dahl, Lars O., Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. Re16,784; Nov. 8.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,619,928; Mar. 8.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,626,931; May 3.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,629,617; May 24.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical translating device. 1,634,420; July 5.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Unidirectional current-carrying device. 1,640,335; Aug. 23.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,644,428; Oct. 4.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,645,529; Oct. 18.
 Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Phasemeter. 1,649,585; Nov. 15.
 Gron Dahl, Lars O., Pittsburgh, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,653,625; Dec. 27.
 Gron Dahl, Lars O., Pittsburgh, and H. M. Ryder, Forest Hills Borough, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 1,655,966; Apr. 22.
 Gron Dahl, Lars O., Pittsburgh, and H. M. Ryder, Bradford, assignors to Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 1,629,866; May 24.
 Gronfeldt, Johannes, assignor to R. Sachs Gesellschaft mit beschränkter Haftung, Berlin, Germany. Contrivance for rolling zinc and other sheet-metal hollow ware. 1,634,661; July 5.
 Groninger, Holmes B., et al. (See Egler, Nicklas F., assignor.)
 Groninger, Holmes B., Port Royal, Pa. Welding furnace. 1,617,804; Feb. 15.
 Gronke, Barney, Chicago, Ill., assignor to International Harvester Company. Stone shield for conveyer supports. 1,646,452; Oct. 25.
 Grönkwist, Oscar R., Stockholm, Sweden. Method of and apparatus for atomizing liquid fuel. 1,625,997; Apr. 26.
 Gronner, George, Davenport, Iowa. Swivel pipe joint. 1,625,586; Apr. 19.
 Grönningaeter, Sigurd, Brooklyn, assignor of one-half to Fischer Hollinshed Co., Inc., New York, N. Y. Transferring vitamins. 1,629,618; May 24.
 Grönroos, Jakob, Fairport Harbor, Ohio. Stair rods. 1,628,662; May 17.
 Gronski, Charles, Sheridan, Wyo. Cramping device. 1,618,654; Feb. 22.
 Groote, August, Dusseldorf, Germany. Combination bar for the intermediate frames in justifying-strip-perforating machines of the monotype typesetting-machine system. 1,635,748; July 12.
 Groove-Lock Co. (See Zeindhofer, Anton, sr., assignor.)
 Gros, Edward F., Canajoharie, N. Y. Coffee percolator. 1,615,542; Jan. 25.
 Grose, Frank E., Coburg, Victoria, Australia. Jig-saw machine. 1,623,673; Apr. 5.
 Grose, Oran W., Vermilion, Ill., and H. Fisher, Terre Haute, Ind. Multirheostat. 1,613,994; Jan. 11.
 Grosjean, James E., Lima, Ohio. Shoe sole. Des. 72,011; Feb. 15.
 Grosjean, James E., Lima, Ohio. Shoe sole. Des. 72,208; Mar. 15.
 Grosjean, James E., Lima, Ohio. Heel for boots and shoes. 1,650,511; Nov. 22.
 Gross, Anna L., Philadelphia, Pa. Button fastener. 1,635,785; July 12.
 Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 72,477; Apr. 19.
 Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 72,896; June 21.
 Gross, Benjamin & Edward J., Co. Inc. (See Gross, Benjamin, assignor.)
 Gross, Cecil, Elkins, W. Va. Combined log-deck block and kicker structure. 1,617,757; Feb. 15.
 Gross Chandler Co. (See Bakula, Frank A., assignor.)
 Gross, Christian, Paris, France. Money holder. 1,637,936; Aug. 2.
 Gross, David S. (See Caprarola, Domenick, assignor.)
 Gross, Edward H., Stamford, Conn. Temperature control of the air constituent of fuel for explosive engines. 1,639,032; Aug. 16.
 Gross, Emil, Wauwatosa, and E. J. Brikner, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine. 1,641,765; Sept. 8.
 Gross, Ernest A., La Moille, Minn. Armament. 1,642,855; Sept. 20.
 Gross, Frederick J., Auburn, Me. Heeled shoe. 1,645,191; Oct. 11.
 Gross, John W., Unionopolis, Ohio. Checkrow corn planter. 1,652,714; Dec. 13.
 Gross, Morris, New York, N. Y. Tire rim. 1,629,913; May 24.
 Gross, Moses, Fort Worth, Tex. Transportation container. 1,611,030; Aug. 30.
 Gross, Paul M., and R. B. Arnold, Durham, N. C., assignors, by mesne assignments, to Tobacco By Products and Chemical Corporation. Fumigating apparatus. 1,634,354; July 5.
 Gross, Ralph, Buffalo, N. Y. Automatic railway signal. 1,628,663; May 17.
 Grossbard, Barnett, San Francisco, Calif. Motor attachment for sewing machines. 1,638,256; Aug. 9.
 Grossbard, Barnett, San Francisco, Calif. Motor attachment for sewing machines. 1,648,267; Nov. 8.
 Grossbacher, Henry E., Overland, Mo. Cooking utensil. 1,646,858; Oct. 25.
 Grosser, Hans, Buenos-Aires, Argentina, assignor to the Firm United States Import House Emanuel Van Dam, Amsterdam, Netherlands. Printing apparatus for printing india-rubber balloons in an inflated condition. 1,646,021; Oct. 18.
 Grossinger, Anton, Milwaukee, Wis. Building construction. 1,644,996; Oct. 11.
 Grossman, Herman P., Boonville, Ind. Corn shredder and husker. 1,628,461; May 10.
 Grossman, Samuel, et al. (See Grossman, Samuel, assignor.)
 Grossman, Samuel, assignor to David Klebanoff and Samuel Grossman, copartners trading under the firm name of Klebanoff and Grossman, New York, N. Y. Finger ring. Des. 72,150; Mar. 8.
 Grossman, Samuel, assignor to D. Klebanoff and S. Grossman, copartners trading under the firm name of Klebanoff and Grossman, New York, N. Y. Finger ring. Des. 72,766; May 31.
 Grossman, Samuel, assignor to K. Klebanoff and Grossman, New York, N. Y. Finger ring. Des. 72,795; June 7.
 Grossman, Samuel, assignor to K. Klebanoff and Grossman, New York, N. Y. Finger ring. Des. 72,796; June 7.
 Grossmann, Max. (See Loebe, W., and Grossmann.)
 Grosvenor, Graham B., Chicago, Ill., assignor to Otis Elevator Company, Jersey City, N. J. Electric elevator system. 1,632,225; June 14.
 Grosvenor, Graham B., Chicago, Ill., assignor to Otis Elevator Company, Jersey City, N. J. Electric elevator system. 1,632,226; June 14.
 Grosvenor, John E., Chaddeley Corbett, and W. T. Picking, Kidderminster, England. Shedding and shuttle-actuating mechanism for looms. 1,617,388; Feb. 15.
 Grosvenor, John E., Hagley, and W. T. Picking, Kidderminster, assignors to Woodward Grosvenor and Company Limited, Worcester Cross, Kidderminster, England. Shuttle-actuating mechanism for looms. 1,648,897; Nov. 15.
 Grosvenor, William M., and V. P. Gershon, New York, N. Y.; said Gershon assignor to said Grosvenor. Anthraquinone paste and making the same. 1,631,589; June 7.
 Grosveld, Fred E., Eau Claire, Wis. Flexible waste-pipe cleaner. 1,638,766; Aug. 9.
 Grotendorst, Willem F., Helder, Netherlands. Apparatus for indirectly laying antiaircraft guns. 1,615,509; Jan. 25.
 Grotendorst, Willem F., Helder, Netherlands. Tabular calculating apparatus particularly for use in the laying of ordnance. 1,615,510; Jan. 25.
 Grotendorst, Willem F., Helder, Netherlands. Instrument for correcting the line of fire of ordnance. 1,615,511; Jan. 25.
 Grotenhuis, James T., Orange City, Iowa. Oil burner. 1,635,836; July 12.
 Grothe, Henry, Le Sueur Center, Minn. Auger for post-holes and wells. 1,639,939; Aug. 23.
 Grotta, Bennett. (See Wilcoxon, F., and Grotta.)
 Grotta, Sidney S., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for making glass tubing. 1,653,848; Dec. 27.
 Ground Coal Engineering Corporation. (See Arrowood, Milton W., assignor.)
 Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Coil. 1,625,465; Apr. 19.
 Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Tension device. 1,637,483; Aug. 2.
 Grout, Ransom A., San Bruno, Calif. Telegraph-receiving instrument. 1,627,030; May 3.
 Grove, Charles O. (See Blair, M., and Grove.)
 Grove, Rene D., Middletown, Pa. Animal toy. Des. 73,374; Aug. 30.
 Grove, Thomas E. (See Binkley, R. S., Stutsman, and Grove.)
 Grover, Albert D., Long Island City, N. Y. Banjo construction. 1,636,001; July 19.

- Grover, Albert D., New York, and L. H. Bertram, Long Island City, N. Y. Armrest for banjos. 1,642,811; Sept. 20.
- Gruen, Frederick, assignor to The Forgrave Machinery Company Limited, Leeds, England. Controlling the feed of continuous-strip material. 1,617,947; Feb. 15.
- Grover, Frederick, assignor to The Forgrave Machinery Company Limited, Leeds, England. Apparatus for dividing plastic material into separate tablets of uniform size. 1,620,546; Mar. 8.
- Grover, Ray, Milwaukee, Wis. Piston ring. 1,635,407; July 12.
- Grover, Walter N., Brooklyn, N. Y. Foldable sink. 1,648,386; Nov. 8.
- Grover's, J. J., Sons, Company. (See Marshall, James F., assignor.)
- Groves, Frank A. and J. F., assignors to The Grolan Manufacturing Company, Dayton, Ohio. Gasoline gauge. 1,639,341; Aug. 16.
- Groves, Howard T., and J. W. Cushman, assignors to C. & C. Oil Separator Corporation, Parsons, Kans. Apparatus for separating fluids. 1,633,858; June 28.
- Groves, John F. (See Groves, Frank A. and J. F.)
- Groves, Lucian S., assignor, by mesne assignments, to Stewart Manufacturing Company, Boston, Mass. Bottle cap. 1,619,509; Mar. 1.
- Grove, Walter P. (See Powell, H. and Groves.)
- Grow, William B., Marysville, Calif. Hand truck. 1,615,942; Feb. 1.
- Growe, George, East Chicago, Ind. Engine manifold. 1,613,995; Jan. 11.
- Grubb, James R., Abbeville, S. C. Arbor for drafting table. 1,630,842; May 3.
- Grubb, Willard T., Springfield, Ill. Golf bag. 1,632,442; June 14.
- Grubbs, Clark, Santa Ana, Calif. Miter box. 1,638,011; Aug. 9.
- Gruber, George S., Scotia, N. Y. Oilstone box. 1,642,654; Oct. 13.
- Gruber, Joseph, Sioux Falls, S. Dak. Heater and purifier. 1,623,242; Apr. 5.
- Gruber, Morris M., East Orange, N. J., assignor, by mesne assignments, to Sonora Phonograph Company, Inc., New York, N. Y. Tone arm for phonographs. 1,619,467; Mar. 1.
- Gruber, Morris M., East Orange, N. J., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Sound-reproducing apparatus. 1,634,662; July 5.
- Gruber, Oltmar R. (See Chapa, P. A., and Gruber.)
- Gruber, Samuel, assignor of one-half to H. N. Cribbs, Verona, Pa. Gripping tool. 1,616,121; Feb. 1.
- Gruber, Sidney, St. Paul, Minn. Watchmaker's pliers. 1,637,108; July 26.
- Grubert, Emil H., Los Angeles, Calif. Valve mechanism for internal-combustion engines. 1,617,710; Feb. 15.
- Grubman, Anton L., Belle Harbor, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,619,203; Mar. 1.
- Grubman, Anton L., Belle Harbor, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,654,499; Dec. 27.
- Grubman Engineering & Manufacturing Co. (See Grubman, Leo J., assignor.)
- Grubman, Leo J. (See Godley, E. A., and Grubman.)
- Grubman, Leo J., Belle Harbor, Long Island, assignor, by mesne assignments, to Grubman Engineering & Manufacturing Co., Inc., Long Island City, N. Y. Eye mounting for dolls. Re16,536; Jan. 18.
- Grubman, Leo J., Belle Harbor, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,627,384; May 3.
- Grubman, Leo J., Belle Harbor, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,627,385; May 3.
- Grubman, Leo J., Belle Harbor, assignor to Grubman Engineering & Manufacturing Co., Inc., Long Island City, N. Y. Forming eye openings in the heads of dolls and other figure toys. 1,639,033; Aug. 16.
- Grubman, Leo J., Belle Harbor, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,654,497; Dec. 27.
- Grubman, Leo J., Belle Harbor, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,654,498; Dec. 27.
- Grubman, Leo J., New York, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,619,204; Mar. 1.
- Grubman, Leo J., New York, N. Y., assignor to Voices, Incorporated, Newark, N. J. Sound-producing device. 1,654,500; Dec. 27.
- Grubman, Leo J., Belle Harbor, and E. A. Godley, New York, N. Y. Grade-marking apparatus. 1,640,469; Nov. 15.
- Grub, Frank, Larchmont, N. Y., assignor of one-half to B. E. Weber, San Antonio, Tex. Shoe. 1,652,354; Dec. 31.
- Grudzinski, Alexander, Cambridge Springs, Pa. Thermo-static gasoline valve. 1,619,612; Mar. 1.
- Gruen, Frederick G., assignor to The Gruen National Watch Case Company, Cincinnati, Ohio. Watchcase. Des. 73,517; Sept. 27.
- Gruen, Frederick G., assignor to The Gruen Watch Company, Cincinnati, Ohio. Watchcase. Des. 73,606; Oct. 11.
- Gruen National Watch Case Company, The. (See Gruen, Frederick G. assignor.)
- Gruen Watch Company, The. (See Gruen, Frederick G., assignor.)
- Gruenberg, Hubert, St. Louis, Mo., assignor to G. Faby, Geneva, Ill. Color mixer. 1,610,465; Mar. 1.
- Gruendler, Gustav J., Clayton, Mo. Refrigerator. 1,635,668; July 12.
- Gruendler, Gustav J., Clayton, Mo. Refrigerator. 1,635,669; Oct. 18.
- Gruenewald, Eugene J., and D. E. Ross, assignors to Ross Gear & Tool Company, La Fayette, Ind. Steering-post control-lever assembly. 1,631,809; June 7.
- Gruenfeldt, Emil, Cleveland, Ohio. Universal joint. 1,621,247; Mar. 15.
- Gruenhausen, George, (See Griffith, Porter M., assignor.)
- Gruetter, John R., Cleveland, Ohio. Bottle holder. 1,618,821; Feb. 22.
- Grueter, William B. (See Langill, R. E., and Grueter.)
- Gruettner, Frank H., Buffalo, N. Y. Automatic fire-alarm signal. 1,644,124; Oct. 4.
- Grubler, Charles C., Fort Thomas, Ky. Card-mounting means. 1,614,438; Jan. 11.
- Gruich, Antonije, New York, N. Y. Typewriter-carriage return mechanism. 1,650,443; Nov. 22.
- Grumbs, Arthur, Fort Worth, Tex. Book rest. 1,621,632; Mar. 22.
- Grumme, William F., New York, N. Y. Internal-combustion engine. 1,625,205; Apr. 19.
- Grummer, Joseph H., et al. (See Fox, Julius, assignor.)
- Grumpelt, Oskar F. A. E., assignor to the Firm of Elektromaschinen Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Disintegrating or cutting to pieces or demolishing wrecked ships or the like. 1,615,223; Jan. 25.
- Grün, Adolf, and R. Limpächer, Schreckenstein, near Aussig, Czechoslovakia, assignors to the Firm: Georg Schick, A. Aussig. Preparation of phosphatides. 1,653,959; Dec. 27.
- Grunberg, George, New York, N. Y. Perfume bottle. Des. 72,093; Mar. 1.
- Grunberg, George, New York, N. Y. Perfume bottle. Des. 72,096; Mar. 1.
- Grunberg, George, New York, N. Y. Perfume bottle. Des. 72,554; May 3.
- Grunberg, George, New York, N. Y. Perfume bottle. Des. 72,620; May 10.
- Grunberg, George, New York, N. Y. Perfume bottle. Des. 72,621; May 10.
- Grunberg, George, New York, N. Y. Perfume bottle. Des. 72,622; May 10.
- Grunberg, George, New York, N. Y. Perfume bottle. 1,617,842; Feb. 15.
- Grunberg, George, New York, N. Y. Perfume container. 1,617,843; Feb. 15.
- Grunberg, George, New York, N. Y. Perfume bottle. 1,617,844; Feb. 15.
- Grunberg, George, New York, N. Y. Perfume bottle. 1,647,175; Nov. 1.
- Grunbock, John F., assignor to Seattle Tent & Awning Co., Seattle, Wash. Weather guard for hatchways. 1,610,188; Aug. 23.
- Grundmann, Michael G., Faribault, Minn. Article holder. 1,649,225; Nov. 15.
- Grundstein, Herman L., New York, N. Y. Life-saving boat. 1,649,403; Nov. 15.
- Grundy, Leo Deau, A. E., and Grundy.
- Gruenewald, Etienne L., Paris, France. Electrical synchronizing system. 1,625,314; Apr. 19.
- Gruener, Lena, Indianapolis, Ind. Hose protector. 1,644,673; Oct. 11.
- Gruenert, Arthur E., Chicago, and A. D. Bailey, La Grange, Ill. Furnace construction. 1,614,237; Jan. 11.
- Gruenert, Arthur E., and A. D. Bailey, Chicago, Ill. Furnace construction. 1,614,295; Jan. 11.
- Grünewälder, Karl. (See Kämpf, A., and Grünewälder.)
- Gruening, Wm. C., assignor to R. Gray, New Hartford, Conn. Weather shield and glare visor for vehicles. 1,615,080; Jan. 18.
- Grunow, William C., assignor of one-half to B. J. Grisby, Chicago, Ill. Sound reproducer. 1,630,742; May 31.
- Grunwald, Albert C., et al. (See Fisher, Charles, assignor.)
- Grunwald, Albert C., River Forest, assignor to Precision Metal Workers, Chicago, Ill. Sheave. 1,627,558; May 10.
- Grunwald, Albert C., River Forest, assignor to Precision Metal Workers, Chicago, Ill. Receptacle cover. 1,640,934; Aug. 30.
- Grunwaldt, Frank E., Seattle, assignor to Gabriel Tubular Furnace Co., Inc., Tacoma, Wash. Furnace. 1,621,066; Mar. 15.
- Grupe, William F., Lynhurst, N. J. Transfer medium for metallizing purposes. 1,627,088; May 3.
- Grupe, William F., Lynhurst, N. J., assignor to H. H. Straus, New York, N. Y. Cork facing. 1,618,704; Feb. 22.
- Grupe, William F., Hudson Heights, N. J., assignor to Enlow, Ltd., Ceylon, Inc. Delivery-control device for cigarette-making machines. 1,633,377; June 21.
- Grupka, Walter, Detroit, Mich. Toy pistol. 1,644,997; Oct. 11.
- Grupe, William A. (See Faragher, W. F., and Grupe.)
- Gruse, William A. (See Marley, S. P., and Gruse.)

- Grutter, Otto C., Creston, Ill. Water-heating apparatus. 1,628,664; May 17.
- Gruver, Perry F., Amarillo, Tex. Bearing for grain separators. 1,631,810; June 7.
- Gschwind, Herman A., El Paso, Tex. Cooling-system drain cock. 1,624,168; Apr. 12.
- Gschwind, Leon, Youngstown, Ohio. Manhole, valve box, and the like. 1,653,626; Dec. 27.
- Gstalter, Paul A., Pittsburgh, Pa., assignor to Blaw-Knox Company. Tie rod and bridging for jolts. 1,649,226; Nov. 15.
- Guarantee Liquid Measure Company. (See Townsend, William S., assignor.)
- Guarnieri, Stephen J., now by judicial change of name Stephen J. Gary, assignor of one-half to J. E. Lewis, New York, N. Y. Cross-jointed metal bar. 1,622,235; Mar. 22.
- Guay, Emile J., Swampscott, and C. W. Mausur, Malden, Mass., assignors to General Electric Company. Nonmetallic gear. 1,646,242; Oct. 18.
- Guay, Joseph E., Whitehall, N. Y. Identification device. 1,652,117; Dec. 6.
- Guay, Joseph A., Lynn, Mass. Friction clutch. 1,637,184; July 26.
- Guba, John, assignor of one-fourth to A. Andrekovic, Lettbridge, Alberta, Canada. Adjustable pitman for compressed-air engines. 1,651,118; Nov. 29.
- Gubelmann, Ivan. (See Adams, R., Davidson, and Gubelmann.)
- Gubelmann, Ivan, South Milwaukee, assignor to The Newport Company, Carrollville, Wis. Para'-amino-ortho-benzoyl-benzoic acid and making the same. 1,654,290; Dec. 27.
- Gubelmann, Ivan, H. J. Weiland, and O. Stallman, South Milwaukee, Wis., assignors to The Newport Company. Making guaicol. 1,623,949; Apr. 5.
- Gubelmann, Ivan, H. J. Weiland, and O. Stallman, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. 3'-nitro-4'-hydroxy-ortho-benzoyl benzoic acid and making the same. 1,654,287; Dec. 27.
- Gubelmann, Ivan, H. J. Weiland, and O. Stallman, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. 3'-amino-4'-hydroxy-ortho-benzoyl benzoic acid and making the same. 1,654,288; Dec. 27.
- Gubelmann, Ivan, H. J. Weiland, and O. Stallman, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. Preparing para'-hydroxy-ortho-benzoyl benzoic acid. 1,654,289; Dec. 27.
- Gubitosi, Sabino, Brooklyn, N. Y. Shoe-heel-attaching apparatus. 1,645,809; Oct. 18.
- Gubler, Hans. (See Fritzsche, H., Krummenacher, Gubler, and Kaiser.)
- Gubler, Hans, H. Stahel, and F. Straub, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs containing chromium and making same. 1,623,005; Mar. 28.
- Gudge, Benjamin J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bushing and forming the same. 1,640,543; Aug. 30.
- Guenthart, Adolph, Wilmar, Calif. Forming outside double picks on round seams. 1,641,809; Sept. 6.
- Guenther, Leonard B., assignor of one-third to C. E. Owenshire and one-third to G. F. Dickson, Minneapolis, Minn. Label feeding and cutting machine. 1,621,668; Mar. 22.
- Guenther, Emil, Philadelphia, Pa. Convertible chair. 1,631,811; June 7.
- Guenther, Henry L. J., Los Angeles, Calif. Can-capping machine. 1,633,250; June 21.
- Guenther, Theodore H. (See Guenther, Walter A. and T. H.)
- Guenther, Walter A. and T. H., Holyoke, Mass. Bumper for motor vehicles. 1,622,442; Mar. 29.
- Guenther, John G. (See Kopp, J. A., Guenther, Wellcamp, and Meyer.)
- Guérard, Henri, le Havre-Graville, France. Producing luminous showers. 1,653,701; Dec. 27.
- Guerci, Erminio. (See Ehrler, Albert, assignor.)
- Guernsey-Pouyat-Elite, Ltd. (See Witte, Henry, assignor.)
- Guerney, Charles O., Philadelphia, Pa. Gear-shifting mechanism. 1,624,867; Apr. 12.
- Guerra, Joseph. (See Grillo, S., and Guerra.)
- Guerra, Toribio A., San Diego, Tex. Feeder gear. 1,650,512; Nov. 22.
- Guerrini, Luigi, Milan, Italy, assignor to Società Anonyme des Dispositifs d'Adhérence Guerrini, Paris, France. Traction device for vehicle wheel. 1,620,460; Mar. 8.
- Guerris, Alfonso O., Barcelona, Spain. Bottle opener. Des. 73,406; Sept. 6.
- Guerter, William, Charlottenburg, and W. Sander, Essen, assignor to the Firm: Th. Giesche-Ad. G., Essen, Germany. Improving aluminum alloys. 1,629,699; May 24.
- Guest, Harry, Billerica, assignor of one-half to G. T. Clark, Lowell, Mass. Locomotive crosshead. 1,648,118; Nov. 8.
- Guest, Wesley T. (See Ferriter, J. P., and Guest.)
- Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Tube socket. 1,633,404; June 21.
- Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Switch. 1,633,405; June 21.
- Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Double-throw switch. 1,634,185; June 28.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. 1,643,210; Sept. 20.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Receptacle. 1,648,805; Nov. 8.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electrical connector device. 1,650,870; Nov. 29.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Flush wall switch. 1,650,871; Nov. 29.
- Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Radiocondenser. 1,652,118; Dec. 6.
- Guggenheim Brothers. (See Smith, Elias A. C., assignor.)
- Guhman, Walter A., New York, N. Y. Portable lighter. 1,621,534; Mar. 22.
- Guizard, Wilhelm, Vienna, Austria. Seal fastening. 1,618,282; Feb. 22.
- Guiberson Corporation. (See Bell, Ivan C., assignor.)
- Guiberson Corporation, The. (See Crowell, Erd V., assignor.)
- Guiberson Corporation, The. (See Traves, Webster F., assignor.)
- Guiberson Corporation. (See Turner, Russell J., assignor.)
- Guiberson Corporation, The. (See Wilson, Robert A., assignor.)
- Guibert, F. Walter, Detroit, Mich. Annealing or heat treating steel or other metals. 1,644,828; Oct. 11.
- Guichard, Jean J. R., Buenos Aires, Argentina. Educational appliance. 1,630,939; May 31.
- Guide Motor Lamp Manufacturing Company, The. (See Guille, Clarence A., assignor.)
- Guide Motor Lamp Manufacturing Company, The. (See Monson, Hugh J., assignor.)
- Guide Motor Lamp Manufacturing Company, The. (See White, Harold C., assignor.)
- Guidi, Maurizio, Savona, Italy. Roller bearing. 1,638,029; Aug. 9.
- Guidotti, Otto, Buffalo, N. Y. Buoy. 1,633,484; June 21.
- Guilbert, Nicholas R., Jr., Melrose Park, Pa., assignor to Elevator Safety Appliance Co. Door. 1,653,170; Dec. 20.
- Guild, Harold S., Jamaica Plain, Mass. Elastic webbing. 1,631,811; May 10.
- Guillarmod, Jules J., New York, N. Y. Dial for watches or clocks. Des. 73,227; Aug. 9.
- Guillemet, Louis A., Flushing, N. Y. Radiator cover. 1,628,774; May 17.
- Guillemin-Tarayre, Jean, Villemonble, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake equipment. 1,644,550; Oct. 4.
- Guillet, Albert M., Charlotte, N. C. Leveling and lining spinning frames. 1,610,084; Feb. 1.
- Guillet, Amédée V. J., Paris, France. Stroboscope with vibrating cone. 1,639,178; Aug. 10.
- Guillard, Nicholas L., Needody, assignor to Gregory & Read Company, Boston, Mass. Shoe-shaping machine. 1,641,968; Sept. 13.
- Guilhou, Henri, Montrouge, France. Belt-driving device for railway-carriage dynamos. 1,622,315; Mar. 29.
- Guinan, Joseph L., Omaha, Nebr. Grain conditioner. 1,619,417; Mar. 1.
- Guinzburg, Edwin A. (See Henry, Beulah L., assignor.)
- Guinzburg, Ralph K., Chappaqua, assignor to I. B. Kleintner Rubber Company, New York, N. Y. Clasp. 1,617,948; Feb. 15.
- Guinzburg, Victor, assignor to I. B. Kleintner Rubber Company, New York, N. Y. Combined brassière and dress shield. 1,632,547; June 14.
- Guiss, John D., Seattle, assignor of one-half to L. W. Harkins, Tacoma, Wash. Positioning apparatus for headlights. 1,649,777; Nov. 15.
- Guizot, Albert, and E. H. Barbe, New York, N. Y. Rotatable toaster. 1,612,809; Jan. 4.
- Guilbransen, Christian, Chicago, Ill., assignor to Guilbransen Company. Piano key. 1,617,300; Feb. 8.
- Guilbransen, Christian, assignor to Guilbransen Company, Chicago, Ill. Player piano. 1,630,177; May 24.
- Guilbransen, Christian, assignor to Guilbransen Company, Chicago, Ill. Player grand piano. 1,638,629; Aug. 9.
- Guilbransen Company. (See Guilbransen, Christian, assignor.)
- Guilbransen Company. (See Morris, William L., assignor.)
- Gulf Oil Burner Company. (See Buerger, Charles B., assignor.)
- Gulf Refining Company. (See Buerger, Charles B., assignor.)
- Gulf Refining Company. (See Faragher, W. F., and Gruse, assignors.)
- Gulf Refining Company. (See Marley, S. P., and Gruse, assignors.)
- Gulf Refining Company. (See McAfee, Almer M., assignor.)
- Gulf Refining Company. (See Prichard, G. L., and Henderson, assignors.)
- Gulick, David E., Chicago, Ill. Lavatory. 1,627,504; May 8.

- Gullick, Edward J., Elkhart, Ind. Tampion pad. 1,638,808; Aug. 9.
- Gulick, Harold M. (See Spotswood, J. B. and Gulick.)
- Gulick, Lee N. (See Morris, J. J. and Gulick.)
- Gulick, Russell A. and H. H. Reid, Winthrop, Mass. Refrigerator. 1,645,103; Oct. 11.
- Gullborg, Arthur V., Chicago, Ill., assignor, by mesne assignments, to The Bessick Manufacturing Company. Indicating device. 1,648,223; Nov. 8.
- Gullborg, John S., Chicago, Ill. Indicator. 1,645,699; Oct. 18.
- Gullborg, John S., assignor, by mesne assignments, to Alemite Die-Casting & Mfg. Co., Chicago, Ill. Press. 1,633,559; June 21.
- Gunn, John S., assignor to Alemite Die-Casting & Mfg. Co., Chicago, Ill. Die-casting machine. 1,637,566; Aug. 2.
- Gullickson, Francis L., West Salem, Wis. Toothbrush. 1,625,537; Apr. 19.
- Gulliver, William H., Napier, New Zealand. Metal hand tool for boot making. 1,616,040; Feb. 1.
- Gunderman, Lester S., Pittsburgh, Pa. Spring motor. 1,649,826; Nov. 22.
- Gundersen, Sven, Brooklyn, N. Y. Steel-wool holder. 1,653,702; Dec. 27.
- Gunderson, Benjamin J., Spring Grove, Minn. Measuring canister. 1,631,028; Mar. 31.
- Gundlach, Beno J., Belleville, Ill. Cutting machine. 1,653,563; Dec. 20.
- Gunkel, Hermann, Newell, Pa. Nut lock. 1,622,581; Mar. 29.
- Gunlocke, W. H., Chair Company, The. (See Gunlocke, W. H., and Pike, assignors.)
- Gunlocke, William H., Wayland, N. Y., and G. J. Pike, Grand Rapids, Mich., assignors to The W. H. Gunlocke Chair Company, Wayland, N. Y. Chair. 1,644,336; Oct. 4.
- Gunn, Charles H., San Francisco, Calif. Ball cock. 1,643,558; Sept. 27.
- Gunn, Charles H., San Francisco, Calif. Shoe lace. 1,649,027; Nov. 15.
- Gunn, Fred M., El Paso, Tex. Automatic measuring valve. 1,641,267; Sept. 6.
- Gunn, Fred W., Boston, Mass. Hose-clamp applier. 1,643,160; Sept. 20.
- Gunn, John M., London, Ontario, assignor to The McClary Manufacturing Co., London, Canada. Electric terminal fuse block. 1,638,257; Aug. 9.
- Gunn, John W., Jersey City, N. J. Automobile signal casing. Des. 73,257; Aug. 16.
- Gunn, John W., Riverdale, Md. Slip joint. 1,613,887; Jan. 11.
- Gunn, Robert W., and W. A. S. Thompson, Los Angeles, Calif. Standing-valve connection. 1,644,998; Oct. 11.
- Gunnell, Charles O., et al. (See Gunnell, F. I., and Miller, assignors.)
- Gunnell, Frank I., and R. Miller; said Miller assignor to C. O. and G. Gunnell, Los Angeles, Calif. Automatic mixer for soda-dispensing faucets. 1,641,164; Sept. 6.
- Gunnell, Harold H. (See Miller, Ralph, assignor.)
- Gunnell, Katherine, et al. (See Gunnell, F. I., and Miller, assignors.)
- Gunning, William A., assignor to American Optical Company, Southbridge, Mass. Edging machine. 1,630,264; May 31.
- Gunning, William A., and M. J. Shields, assignors to American Optical Company, Southbridge, Mass. Case-lettering press. 1,614,064; Jan. 11.
- Gunnison, John H., Madison, Wis. Mixer. 1,623,590; Apr. 5.
- Gunter, Frank E. (See Brooks, Edward A., assignor.)
- Gunter, James E., Baltimore, Md., assignor to The James E. Gunter Corporation. Easy open container. 1,622,256; Mar. 22.
- Gunter, James E., Corporation, The. (See Gunter, James E., assignor.)
- Gunter, William K., Gaffney, S. C. Bedspread or similar article. Des. 71,870; Jan. 18.
- Gunter, William K., Gaffney, S. C., assignor to Derry Dyestock Mills. Device for imparting crinkle to warp threads. 1,628,142; Mar. 14.
- Günther, Albert, and R. Gerloff, Schmiedefeld in Thüringen, Germany. Heat-insulating bottle. 1,631,413; June 7.
- Günther, Alfred, Schmiedefeld, Germany. Glass syringe for injections and similar purposes. 1,652,894; Dec. 13.
- Günther, Otto. (See Dobrowski, N., and Günther.)
- Guthrie, Charles H., et al., Port Arthur, Tex. Vehicle wheel grip member. 1,629,786; May 24.
- Guntz, Antoine A., Nancy, France. Luminescent product. 1,622,379; Mar. 20.
- Günzler, Heinrich, and G. Wesenberg, Elberfeld, Germany, assignors to Wülthgen Chemical Company, Inc., New York, N. Y. Stable mixture yielding salts of halogensulphonamides. 1,650,124; Nov. 22.
- Günzler, Heinrich, and W. Zieser, Elberfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Vulcanization of rubber and the product thereof. 1,653,602; Dec. 20.
- Gurley, W. & L. E. (See Arms, Edward W., assignor.)
- Gurley, W. & L. E. (See Knips, Robert E., assignor.)
- Gurnee, Isaac Q., Butler, and A. A. Smith, Riverdale, N. J., assignors to Superior Hard Rubber Company, Butler, N. J. Cigar holder. Des. 72,012; Feb. 15.
- Gurnee, Isaac Q., Butler, and A. A. Smith, Riverdale, N. J., assignors to Superior Hard Rubber Company, Butler, N. J. Thermometer case. Des. 72,315; Mar. 29.
- Gurnee, Isaac Q., Butler, and A. A. Smith, Riverdale, N. J., assignors to Superior Hard Rubber Company, Butler, N. J. Thermometer case. Des. 72,555; May 3.
- Gurney Elevator Company. (See Misner, Lawrence, assignor.)
- Gurney, Hugo, M., Baltimore, Md. Corner construction for cabinets. 1,644,519; Oct. 4.
- Gurley, John W., assignor of one-half to H. Taylor, Indianapolis, Ind. Fluid pump or motor. 1,650,830; Nov. 29.
- Gurney, Erving R. (See Drumm, C. F., and Gurney.)
- Gurney, Erving R. (See Masury, A. F., and Gurney.)
- Gurney, Erving R., assignor to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,612,810; Jan. 4.
- Gurney, Erving R., New York, N. Y., assignor to International Motor Company, New York, N. Y. Front-wheel construction. 1,641,224; Sept. 6.
- Gurney, Erving R., Beechurst, assignor to International Motor Company, New York, N. Y. Spring bracket. 1,613,750; Jan. 11.
- Gurney, Erving R., Beechurst, assignor to International Motor Company, New York, N. Y. Indicating device. 1,623,472; Apr. 5.
- Gurney, Erving R., Beechurst, assignor to International Motor Company, New York, N. Y. Cushion support for radiators. 1,623,473; Apr. 5.
- Gurney, Erving R., Beechurst, assignor to International Motor Company, New York, N. Y. Vehicle dash. 1,633,093; June 21.
- Gurney Foundry Company. (See Brown, Thomas G., assignor.)
- Gursky, Max, Brooklyn, N. Y. Chair bed. 1,617,108; Feb. 8.
- Gush, Arthur S. and M. C. Hove, England. Electrolytic system for protection of condensers, tanks, and such like vessels against corrosion. 1,616,448; Feb. 8.
- Gush, Marie C. (See Gush, Arthur S. and M. C.)
- Gustafson, Adolph P., Chicago, Ill. Pneumatic valve-controlling mechanism for musical instruments and the like. 1,638,485; Aug. 9.
- Gustafson, Charles J. (See Mock, F. C., Gustafson, and Chandler.)
- Gustafson, Charles J., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. 1,623,180; Apr. 5.
- Gustafson, Edwin, assignor to A. C. Spark Plug Company, Flint, Mich. Speedometer transmission drive. 1,650,125; Nov. 22.
- Gustafson, Eric B., et al. (See Madsen, Gustav N., assignor.)
- Gustafson, Hjalmer C., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Tool retainer. Re16,587; Apr. 5.
- Gustafson, Peter Long Branch, N. J. Gas-range water tap. 1,613,454; Jan. 4.
- Gustafsson, Palmer, Los Angeles, Calif. Ground-strip nailing block. 1,648,387; Nov. 8.
- Gustavson, Carl. (See Ryden, J., and Gustavson.)
- Gustavson, Charles, Brooklyn, assignor to Lion Match Co., Inc., New York, N. Y. Apparatus for applying a lubricant to paper. 1,643,117; Sept. 20.
- Gustavus, J. Eselsen, jr., Swampscott, Mass. Protecting covering for rubber sheets. 1,628,276; Apr. 26.
- Gustin-Bacon Manufacturing Company. (See Buck, Charles P., assignor.)
- Gustin, Daniel S., East Orange, N. J., assignor to Westinghouse Lamp Company. Gas-filled incandescent electric lamp with filament having increased strength. 1,622,826; Mar. 29.
- Gustin, Daniel S., Newark, N. J., assignor to Westinghouse Lamp Company. Applying a getter to vacuum devices. 1,626,235; Apr. 26.
- Gustin, Daniel S., Newark, N. J., assignor to Westinghouse Lamp Company. Gas-filled incandescent lamp and getter therefor. 1,643,810; Sept. 27.
- Gustin, Daniel S., Newark, N. J., assignor to Westinghouse Lamp Company. Producing a high vacuum in vessels. 1,647,618; Nov. 1.
- Gustin, Daniel S., Newark, N. J., assignor to Westinghouse Lamp Company. Evacuation of bulbs and other vessels. 1,651,386; Dec. 6.
- Gustin, Daniel S., Newark, N. J., assignor to Westinghouse Lamp Company. Manufacture of incandescent electric lamps. 1,651,387; Dec. 6.
- Gutberlet, Charles J., Philadelphia, Pa. Pyraline document-holding envelope. 1,620,962; Mar. 15.
- Gutberlet, Charles J., Philadelphia, Pa. Carry off. 1,640,768; Apr. 30.
- Gutberlet, Charles J., Philadelphia, Pa. Telephone-record ticket pack. 1,640,769; Apr. 30.
- Gutenkunst, William, Milwaukee, Wis. Stanchion. 1,641,810; Sept. 6.
- Guth, Edwin F., Company, The. (See Moore, James S., assignor.)
- Guth, Edwin F., Company, The. (See Owen, Raymond V., assignor.)
- Guth, Edwin F., St. Louis, Mo. Lighting fixture. Des. 73,518; Sept. 27.
- Guth, Edwin F., St. Louis, Mo. Lighting fixture. 1,620,963; Mar. 15.

- Guth, Edwin F., St. Louis, Mo. Bracket back for lighting fixtures. Des. 73,831; Nov. 15.
- Guth, Edwin F., St. Louis, Mo. Lighting fixture. Des. 73,975; Nov. 29.
- Guth, Edwin F., St. Louis, Mo. Bowl-supporting means for lighting fixtures. 1,630,004; May 24.
- Guth, Henry L., Allentown, Pa. Table. Des. 72,151; Mar. 8.
- Guth, Herbert Q., Elgin, assignor to Postl, Inc., Chicago, Ill. Exerciser. 1,638,196; Aug. 9.
- Guth, William T., Brooklyn, N. Y. Embedded inkstand. 1,615,377; Jan. 25.
- Guthrie, Agnes F. (See Buckner, William T., assignor.)
- Guthrie, Robert G., Chicago, Ill. Polishing machine. 1,636,557; July 19.
- Gutierrez, Alphonse J., Detroit, Mich. Movable-sign exhibitor. 1,623,837; Apr. 5.
- Gutierrez, Emilio, Piedras Negras, Coahuila, Mexico. Casting machine. 1,615,696; Jan. 25.
- Gutierrez y Lado, Francisco M., Habana, Cuba. Manufacturing ice. 1,616,492; Feb. 8.
- Gutierrez R., Gilberto, Mexico, Mexico. Valve mechanism. 1,648,766; Nov. 8.
- Gutman, Irwin, Pittsburgh, Pa. Septic tank. 1,649,028; Nov. 15.
- Gutman, Sylvester A., Flint, Mich. Carburetion means. 1,614,238; Jan. 11.
- Gutridge, James H., Milwaukee, Wis. Fire-brick stud. 1,616,746; Feb. 8.
- Guttmann, Eugen, Berlin-Charlottenburg, Germany. Vaginal speculum. 1,614,065; Jan. 11.
- Guttridge, Harry W., Liberal, Kans. Power roller. 1,637,596; Aug. 2.
- Gutria, Daniel L., Mexico, Mexico. Vehicle tire. 1,639,940; Aug. 23.
- Guy, Charles G., Victoria, British Columbia, Canada. Combined hose supporter and shirt adjuster. 1,638,304; Aug. 9.
- Guy, Harry L., Chicago, assignor to one-half of C. S. Burnell, Oak Park, Ill. Roofing. 1,642,148. Sept. 13.
- Guy, Henry L., and T. Blacklock, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Filter. 1,619,118; Mar. 1.
- Guy, James A., Semiway, Ky. Buttonhole attachment. 1,619,613; Mar. 1.
- Guy, Walter W., Oak Park, assignor to Colonial Fireplace Company, Chicago, Ill. Fireplace. 1,631,123; June 7.
- Guyer, Jesse A., La Salle, and M. C. Taylor, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Recovery of chlorine. 1,617,305; Feb. 8.
- Guymer, Mary A., Hutsonville, Ill. Cake pan. 1,645,235; Oct. 11.
- Guyver, William A., Charleston, Wash. Cream separator. 1,650,444; Nov. 22.
- Guyer, Walter J., assignor to King Pneumatic Tool Company, Chicago, Ill. Pneumatic tool. 1,644,581; Oct. 4.
- Guymon, Chauncey, Los Angeles, Calif. Advertising device. 1,627,505; May 3.
- Guyot Brothers. (See Boots, William C., assignor.)
- Guyot, Marius, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Multipart core. 1,638,846; Aug. 16.
- Guy-Pell, William, London, England. Gas heated and radiating element. 1,639,605; Aug. 16.
- Guyton & Cumfer Mfg. Co. (See Cumfer, Harry A., assignor.)
- Guzik, Edward W., Lorain, Ohio. Pen and blotter. 1,624,834; Apr. 12.
- Gwinn, George W., Hewlett, N. Y., assignor to American Machine & Foundry Company. Paper-feed mechanism. 1,628,409; Apr. 26.
- Gwinn, George W., Hewlett, N. Y., assignor to American Machine & Foundry Company. Wrapping pies. 1,647,289; Nov. 1.
- Gwynnes Engineering Company Limited, et al. (See Rath, Albert J., assignor.)
- Gwynnes Limited, et al. (See Rath, Albert J., assignor.)
- Gywnnatis, Nicolas, Santa Barbara, Cal. Watercooling and filtering apparatus. 1,621,198; Mar. 15.
- Gypsum Engineering & Manufacturing Co. (See Payne, Caleb, assignor.)
- Gyrorector Gesellschaft mit beschränkter Haftung. (See Rosenbaum, Theodor, assignor.)
- H & H Lamp Co., Inc. (See Deery, Daniel H., assignor.)
- "H H" Manufacturers Inc. (See Hawkins, Roe C., assignor.)
- H-R Manufacturing Company. (See Hill, G. S., and Saxton, assignors.)
- Hack, Frank P. W. (See Penin, A. D., and Haack.)
- Haack, William F., Chicago, Ill., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Pressing machine. 1,635,616; July 12.
- Haag, Albert R., Peoria, Ill. Washing machine. Re16 746; Sept. 27.
- Haag, Alfred H., Baltimore, Md. Combination phonograph and radio cabinet. 1,635,897; July 12.
- Haag, Alfred H., Baltimore, Md., assignor to one-half to E. H. Fairbanks, Merchantville, N. J. Combined phonograph and radio and coordinating unit therefor. 1,615,123; Jan. 18.
- Haag Brothers Company. (See Beatty, William G., assignor.)
- Haag, Gustavus, assignor to International Motor Company, New York, N. Y. Brake mechanism. 1,632,961; June 21.
- Haagen, Carl A., assignor to Velden & Guillaume Carlswerk, Actien-Gesellschaft, Cologne-Mulheim, Germany. Production of insulating paper containing phenol resins. 1,630,424; May 31.
- Haarberg, Cato, Chicago, Ill. Package carrier. 1,622,946; Mar. 29.
- Haarberg, Cato, Kent, Wash. Door latch. 1,642,612; Sept. 13.
- Haas, Charles. (See Willenbacher, August, assignor.)
- Haas, Clarence H., and L. J. Mitchell, Warren, Ohio. Steam boiler. 1,640,317; Aug. 23.
- Haas, Edele R., Wray, Colo. Medical-powder applicator. 1,622,956; Sept. 20.
- Haas, Edward. (See Ferguson, Milford B., assignor.)
- Haas, Edward A., Los Angeles, Calif., and M. Posey, Sand Springs, Okla. Water cooler and refrigerating apparatus. 1,625,803; Apr. 26.
- Haas, H. C., administrator. (See Wedekind, Edwin H.)
- Haas, Joseph, Jr., Newport, Ky. Poultry band. 1,615,011; Jan. 18.
- Haas, Nelson R., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Molded composition and making the same. 1,618,875; Feb. 22.
- Haas, Nelson R., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Dynamo brush. 1,633,740; June 28.
- Haas, Nelson R., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Battery-charging apparatus. 1,638,305; Aug. 9.
- Haas, Philip, Dayton, Ohio. Hydraulically operated flushing-valve mechanism. 1,614,463; Jan. 18.
- Haas, Philip, Dayton, Ohio. Flushing-valve mechanism. 1,620,964; Mar. 15.
- Haas, Philip, Dayton, Ohio. Flushing-valve mechanism. 1,623,109; Apr. 5.
- Haas, Philip, Dayton, Ohio. Inlet-valve mechanism. 1,629,914; May 24.
- Haas, Philip, Dayton, Ohio. Flushing-valve mechanism. 1,638,395; Aug. 9.
- Haas, Philip, Dayton, Ohio. Inlet-valve mechanism. 1,639,597; Aug. 23.
- Haas, Philip, Dayton, Ohio. Inlet-valve mechanism. 1,641,756; Sept. 6.
- Haas, Philip J., Omaha, Nebr. Weed and grass cutter. 1,625,081; Apr. 19.
- Haas, Richard E., East Orange, N. J., assignor to Elevator Supply Company, Inc., Hoboken, N. J. Elevator indicator. 1,645,949; Oct. 18.
- Haas, Walter G. (See Mumaw, J. H., Schnieders, and Haas.)
- Haase, Ernst R., New London, Conn. Graphophone needle. 1,619,893; Mar. 8.
- Haase, Franz. (See Morehouse, F. B., and Haase.)
- Haase, Leo G., Pasadena, Calif. Combination concrete and wooden bench. 1,628,362; May 10.
- Haaz, Carrie, administratrix. (See Haaz, Ignatius.)
- Haaz, Ignatius, deceased; C. Haaz, administratrix, Philadelphia, Pa. Rye game board. 1,627,175; May 3.
- Habart, Charles, Cleveland, Ohio. Making hinges. 1,640,586; Nov. 15.
- Habart, Joseph, assignor to The Bankers Savings & Credit System Company, Cleveland, Ohio. Coin bank. 1,635,664; July 12.
- Habit, R., Neuilly-sur-Seine, assignor to Societe d'Hygiene Pratique, Paris, France. Ventilation of water-closet pans. 1,632,791; June 21.
- Habenicht, August F., Tinsley Park, Ill. Automatic relief valve. 1,619,469; Mar. 1.
- Haber, Eugen, Berlin-Charlottenburg, Germany. Heat exchanging element. Re18 807; Dec. 6.
- Haber, Eugen, Berlin-Charlottenburg, Germany. Heat-exchanging element. 1,635,838; July 12.
- Haber, Henry J., Cleveland, Ohio. Apparatus for clearing oil wells of paraffin deposits. 1,628,401; May 10.
- Haber, Henry, assignor to The Chamberlain-Haber Chemical Company, Cleveland, Ohio. Composition for opening stopped pipes. 1,618,376; Feb. 22.
- Haberfeld, Eugen, Berlin-Hanse, Germany, assignor to Latham Litho & Printing Co., New York, N. Y. Device for producing an optical illusion. 1,627,603; May 10.
- Haberkamp, Jessie M., assignor to The Charles H. Scott Company, Chicago, Ill. Nursing brassiere. 1,632,894; June 21.
- Haberl, Paul A., Denver, Colo. Line guide for fishing rods. 1,627,643; May 10.
- Häberle, Friedrich. (See Sartert, W., and Häberle.)
- Haberle, Michael, Richmond Hill, N. Y. Window. 1,632,335; June 21.
- Haberman, Frank D., Des Moines River Township, Minn. Stub-shoe attachment for runners of corn planters or the like. 1,619,670; Mar. 1.
- Haberman, George, Fort Atkinson, Iowa. Cream-moving apparatus. 1,619,973; Mar. 8.
- Habermann, Henry, New York, N. Y., assignor, by mesne assignments, to The Atlas-Globe China Co., New York, N. Y. Decalcomania strip for a dinner plate or similar article. Des. 73,637; Oct. 18.
- Habunek, Louis. (See Kolinger, T., and Habunek.)
- Hachenberg, Louis, Throggs Neck, assignor of one-half to W. Brady Ossining, N. Y. Apparatus for cleaning windows. 1,635,991; July 19.

- Hachita, Maximilian S., Wilkes-Barre, Pa. Pulsating gig. 1,634,101; June 28.
- Hack, Charles W., Topeka, Kans. Cooling-medium container. 1,619,864; Mar. 8.
- Hacker, Horace W., Chicago, Ill. Method of and apparatus for making objects. 1,620,343; Mar. 8.
- Hacker, Horace W., assignor to Hacker Manufacturing Co., Chicago, Ill. Implement for marking objects. 1,630,659; May 31.
- Hacker Manufacturing Co. (See Hacker, Horace W., assignor.)
- Hackett, Allen S., New Orleans, La. Bridge approach. 1,629,787; May 24.
- Hackett, Edward D. (See Jackson, M. K., and Hackett.)
- Hackley, Roy C., San Francisco, Calif. Concrete gun. 1,619,297; Mar. 1.
- Hackmann, Frederick, assignor to I. R. Hackmann, Chicago, Ill. Rail anchor. 1,613,603; Jan. 11.
- Hackmann, Ida R. (See Hackmann, Frederick, assignor.)
- Hadam, Max, Chemnitz, Germany, assignor to Firma Maschinenfabrik Kappel, Chemnitz-Kappel. Embroidery machine. 1,618,529; Feb. 22.
- Hadam, Max, Chemnitz, assignor to Maschinenfabrik Kappel A.-G., Chemnitz-Kappel, Germany. Jacquard mechanism for embroidering machines. 1,643,449; Sept. 27.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cushion heel. 1,613,096; Jan. 4.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and mechanism for heel attaching. 1,615,270; Jan. 25.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching rubber heels. 1,617,049; Feb. 8.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rubber heel. 1,640,354; Aug. 30.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Malling mechanism. 1,646,402; Oct. 25.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel. 1,647,444; Nov. 1.
- Hadaway, John B., Swampscott, Mass. Photographic-printing apparatus. 1,653,273; Dec. 20.
- Hadaway, William S., jr., New Rochelle, N. Y. Method and apparatus for generating and controlling heat. 1,627,735; May 10.
- Hadaway, William S., jr., New Rochelle, assignor to The Texas Company, New York, N. Y. Treating hydrocarbons. 1,628,143; May 10.
- Haddad, Abraham F., Fernie, British Columbia, Canada, assignor to R. Haddad, Cranbrook, British Columbia. Direction indicator. 1,629,501; May 24.
- Hadden, Rosie. (See Haddad, Abraham F., assignor.)
- Hadden, Gavin, New York, N. Y. Grandstand. Des. 73,499; Sept. 20.
- Hadden, William J., assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Golf club. 1,648,806; Nov. 8.
- Hadden, William J., assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Draft, dust, and weather excluder for sliding windows and doors. 1,651,697; Dec. 6.
- Haddock, Arthur. (See Adams, W. J., and Haddock.)
- Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Attachment to electric insulation. 1,624,595; Apr. 12.
- Haddock, Arthur, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Condenser. 1,632,130; June 14.
- Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric non-discharge device. 1,635,992; July 19.
- Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Antenna switching relay. 1,647,290; Nov. 1.
- Haddock, William J., Baxter Springs, Kans. Fuel burner. 1,645,889; Sept. 27.
- Haddon, Walter, London, England. Electric accumulator casing. Electric accumulator casing. 1,633,094; June 21.
- Haddow, Laurence, Colmar, N. Mex. Electric burglar alarm for motor vehicles. 1,640,603; Aug. 30.
- Hadfield, Frederick H., Auckland, New Zealand. Automobile rail-film camera. 1,637,414; Aug. 2.
- Hadfield, John, assignor to J. R. Gammeier, Akron, Ohio. Making dipped-rubber articles. 1,635,576; July 12.
- Hadley, Art, assignor to The Hadley Company, Providence, R. I. Securing rows of pearls or the like. 1,646,289; Oct. 18.
- Hadley, Art, assignor to The Hadley Company, Providence, R. I. Wrist-watch bracelet. 1,647,108; Oct. 25.
- Hadley, Charles R., Company. (See Jones, J. M., and Webb, assignors.)
- Hadley, Charles R., Company. (See Webb, Robert R., assignor.)
- Hadley Company, The. (See Hadley, Art, assignor.)
- Hadley, Harlan A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale casing. Des. 74,146; Dec. 27.
- Hadley, June W., et al. (See Nicoll, Russell C., assignor.)
- Hadley, Raymond, Fairfield, Conn. Smoking pipe. 1,641,349; Sept. 6.
- Hadley, Walter C., New York, N. Y., assignor, by mesne assignments, to Columbia Phonograph Company, Inc., Bridgeport, Conn. Phonograph record. Re16,588; Apr. 5.
- Hadrich, George, Detroit, Mich. Spark plug. 1,626,081; Apr. 26.
- Haederer, Gustave A., assignor of one-half to L. Edelson, Philadelphia, Pa. Drafting instrument. 1,650,269; Nov. 22.
- Haefeli, Emil, Basel, Switzerland. Machine for tightening the insulation applied on winding bars of electric machines and apparatus. 1,633,741; June 28.
- Haeger, Milton O., assignor to Abell-Howe Co., Chicago, Ill. Conveyor-roller feed. 1,625,653; Apr. 19.
- Haeger, Henry W., Lyon, France. Nail and like straightening device. 1,639,289; Aug. 16.
- Haehnel, Wolfram. (See Hiermann, W. O., Deutsch, and Haehnel.)
- Haendel, William, West Bend, Wis. Novelty device. 1,639,034; Aug. 16.
- Haenicke, Arthur, Berlin-Tempelhof, Germany. Attaching buttons to cards. 1,626,337; Apr. 26.
- Haerberlein, Max., Maplewood, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Spiral casing for hydraulic turbines and the like. 1,621,719; Mar. 22.
- Haerter, Walter W., Detroit, Mich. Pail holder. 1,628,722; May 17.
- Haeseler, Charles H., Philadelphia, Pa. Air-cooled pneumatic hammer. 1,634,780; July 5.
- Haessly, Leo J., Cleveland, Ohio. Therapeutical heating and steaming instrument. 1,653,901; Dec. 27.
- Haffer, Matthew J., assignor of one-fourth to W. H. Freeman, Toronto, Ontario, Canada. Ear-testing device. 1,642,923; Sept. 20.
- Hafke, Charles, Washington, Ark. Tractor plow. 1,624,406; Apr. 12.
- Hafner, Alvin C. (See Galloway, James W., assignor.)
- Hafner, Richard P., Passaic, N. J. Attachment for shears. 1,618,082; Feb. 15.
- Hagan, George J., Company. (See Talley, Randal E., assignor.)
- Hager, Edward A., St. Paul, Minn. Clothes-basket cart. 1,642,411; Sept. 20.
- Hage, Rudolf A., Gottenborg, Sweden. Coupling. 1,623,110; Apr. 5.
- Hagedorn, William, Sutherland, Iowa. Draft appliance. 1,628,721; May 17.
- Hagel, Albert, assignor to Consolidated Safety Pin Company, Newfield, N. J. Safety-pin holder. 1,636,568; July 19.
- Hagel, Robert W., New Orleans, La. Percolator. 1,646,022; Oct. 18.
- Hagelthorn, Thomas, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Cleaner. 1,632,895; June 21.
- Hageman, Augustus B., Broken Bow, Nebr. Gate. 1,619,819; Mar. 8.
- Hagen, Julius S., Des Moines, Iowa. Kitchen utensil. 1,628,243; May 10.
- Hagen, William C., City N. J. Supporting attachment for clotheslines. 1,623,919; Apr. 5.
- Hagen, Ole K. (See Alexander, A. C., and Hagen.)
- Hagen, Rudolf A., Mason City, Iowa. Machine gun. 1,653,171; Dec. 20.
- Hagen, Russell W., Chicago, Ill. Drum. 1,615,202; Jan. 18.
- Hager, Christian B., Marshalltown, Iowa. Composition for washing clothes or other fabrics. 1,628,970; May 17.
- Hager, Edward, Hensley, W. Va. Clothes boiler. 1,615,579; Jan. 25.
- Hagerman, Thomas P., St. Louis, Mo. Motorist's service-recording device. 1,644,471; Oct. 4.
- Hagerman, Thomas P., St. Louis, Mo. Condenser. 1,644,520; Oct. 4.
- Hagermann, George II., Muscatine, Iowa. Trap. 1,641,093; Apr. 30.
- Hagstedt, Henry, Chicago, Ill. Cashier's robbery protector. 1,623,674; Apr. 5.
- Hagey, James C., assignor to The Cable Company, Chicago, Ill. Device for controlling air pressure. 1,648,807; Nov. 8.
- Hagey, Virgil R., West Hollywood, Calif. Water filter. 1,629,269; May 17.
- Hagenjos, John J., St. Louis, Mo. Memorial tablet. 1,624,048; Apr. 12.
- Haggi, Ida, assignor to Ardent A. G., Hohlstrasse, Zurich, Switzerland. Magneto-electric pocket lamp. 1,615,624; Jan. 25.
- Haglund, Axel, assignor of one-half to O. B. Linder, Oakland, Calif. Caliper. 1,621,778; Mar. 22.
- Hagmann, Ulrich, New York, N. Y., assignor to The Quaker Oats Company, Chicago, Ill. Plate or similar article. Des. 73,174; Aug. 2.
- Hagmann, Ulrich, St. George, N. Y., assignor to The Quaker Oats Company, Chicago, Ill. Cup or similar article. Des. 73,607; Oct. 11.
- Hagstrum, William A., Columbus, Ohio. Cast-iron steam heating furnace. 1,635,406; June 21.
- Hague, Alfred E., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,632,066; June 14.

- Hague, Alfred E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic electric cut-out. 1,653,804; Dec. 27.
- Hague, Eliot T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control of commutating-pole strength on nonbooster rotary converters. 1,645,281; Oct. 11.
- Hague, Frank L., assignor to Feagles Construction Company, Ltd., Minneapolis, Minn. Weighing scale ar vent. 1,647,351; Nov. 1.
- Hague, Joseph T., executor. (See Lamy, Edward J.)
- Hagy, George L., San Antonio, Tex. Building form for concrete structures. 1,631,029; May 31.
- Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Pharmaceutical product. 1,616,365; Feb. 1.
- Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc. Pharmaceutical product. 1,616,366; Feb. 1.
- Hahl, Hans, Elberfeld, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Complex antimony compound and making same. 1,628,838; May 17.
- Hähle, Herbert. (See Polkier, H. and Hähle.)
- Hähle, Herbert. (See Schladebach, H., and Hähle.)
- Hahn, Albert W., and C. H. Nokes, Salt Lake City, Utah. Flotation process. 1,649,685; Nov. 15.
- Hahn, Archie V. (See Macartney, J., and Hahn.)
- Hahn, Arthur F., St. Cloud, Minn. Casting-line float or bobber. 1,652,835; Dec. 13.
- Hahn, Charles N., Binghamton, N. Y. Applying heels to shoes. 1,620,344; Aug. 8.
- Hahn, Edgar. (See Lubberger, F., and Hahn.)
- Hahn, Edward J., Gridley, Kans. Tank cleaner. 1,625,721; Apr. 19.
- Hahn, Erick A., Chicago, Ill. Fly-paper appliance. 1,643,118; Sept. 20.
- Hahn, Eugene et al. (See Wotruba, Charles, assignor.)
- Hahn, Harry L., Lancaster, Pa. Combined mirror or picture and loud-speaker frame. Des. 73,742; Nov. 1.
- Hahn, Otto W., assignor to Universal Jacks & Hoist Corporation, San Francisco, Calif. Automobile jack. 1,650,792; May 31.
- Hahn, Richard, Kew Gardens, N. Y. Earring. Des. 73,568; Oct. 4.
- Hahnemann, Walter, Kitzberg, near Kiel, and H. Hecht, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Testing materials. 1,652,525; Dec. 13.
- Hahnemann, Walter, Kitzberg, near Kiel, E. Wilckens, Kiel, and H. Lichte, Berlin, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Sound producer comprising a vibratory system coupled with a resonator. 1,616,185; Feb. 1.
- Hahnemann, Walter, Kitzberg, near Kiel, W. Rudolph and E. Wilckens, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Device for the production of mechanical vibrations by means of a continuous stream of fluid. 1,618,982; Mar. 1.
- Hahnemann, Walter, H. Hecht, H. Lichte, and L. Adelmann, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Vibration amplifier. 1,622,507; Mar. 29.
- Hähne, Walter. (See Schäfer, M., Hähne, and Walther.)
- Hahre, Martin J., Smithers, British Columbia, Canada. Saw gauge. 1,624,050; Apr. 12.
- Haibe, D. H. et al. (See Haibe, Ora F., assignor.)
- Haibe, Ora F., assignor of one-half to D. H. Haibe and one-half to F. Elliott, Kansas City, Mo. High-power cylinder head. 1,645,423; Oct. 11.
- Haid, Herbert, Salem, Oreg., assignor, by mesne assignments, to Prestressed Engineering Corporation. Visible card record. 1,620,547; Mar. 8.
- Haight, Harry V., Sebrbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatically-controlled rheostat. 1,644,016; Oct. 4.
- Haight, Hiram H., Milwaukee, Wis. Gear pump. 1,624,099; Apr. 12.
- Haight, Theodore, Brooklyn, N. Y. Steam trap. 1,642,023; Sept. 13.
- Halles, William D., assignor to General Railway Signal Company, Rochester, N. Y. Relay. 1,617,247; Feb. 8.
- Haines, Alfred D. (See Catron, Burl J., assignor.)
- Haines, August W., assignor of one-half to G. Bauer, Milwaukee, Wis. Belt shifter. 1,616,657; Feb. 8.
- Haines, Charles B., Indianapolis, Ind. Boiler water feeder. 1,636,559; July 19.
- Haines, Elizabeth, Concord, Mass. Lid support. 1,619,573; Mar. 1.
- Haines, Frank E., executor. (See Bates, Solomon W.)
- Haines, George H., assignor of one-half to W. R. Hiatt, Spring Valley, and one-half to C. Q. Hildebrandt, Wilmington, Ohio. Concentrated cracked corn and meal mix. 1,653,459; Dec. 20.
- Haines, Jones & Cadbury Company. (See Muend, Charles J., assignor.)
- Haines, Joseph A., assignor, by mesne assignments, to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Connector for garment bands. 1,639,226; Aug. 16.
- Haines Manufacturing Corporation. (See Velepec, Rudolph J., assignor.)
- Haines, William T. (See Dunham, B. G., and Haines.)
- Hainke, Edward. (See Hughes, Hugh T., assignor.)
- Hainline Motors Corporation. (See Hainline, Theodore W., assignor.)
- Hainline, Russell C., Clinton, Iowa, assignor to Fairchild Detector Corporation, Clinton, Iowa. Headlight-glare-protecting device. 1,642,993; Sept. 20.
- Hainline, Theodore W., assignor to Hainline Motors Corporation, Portland, Oreg. Internal-combustion engine. 1,633,323; June 21.
- Hainzianis, James P., New York, N. Y. Toothbrush holder. 1,613,655; Jan. 11.
- Haire, Frank. (See Gallman, C. E., and Haire.)
- Haiss, Alfred W., assignor to George Haiss Manufacturing Co. Inc., New York, N. Y. Traction driving and power take-off mechanism. 1,652,475; Dec. 13.
- Haiss, George, Manufacturing Co. Inc. (See Haiss, Alfred W., assignor.)
- Haist, Charles A., Fresno, Calif. Fountain pen. 1,620,345; Mar. 8.
- Haake, Charles Y., York, Pa. Insect catcher. 1,638,690; Aug. 9.
- Hake, Elisabeth S., Fort Atkinson, Wis. Picture hanger. 1,615,903; Feb. 1.
- Hake, Frank W., Philadelphia, Pa. Derrick crane. 1,632,329; June 14.
- Haker Manufacturing Co. (See Christopherson, Alfred.)
- Halaby, Camile E., assignor to Yankee Lock Corporation, New York, N. Y. Tank lock. 1,649,587; Nov. 15.
- Halais, Jean A., Paris, France. Seat with folding back. 1,640,273; Aug. 23.
- Halbach, Howard L., Clarksburg, W. Va., and J. A. Stevens, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company. Flattening window glass shawls. 1,620,017; Mar. 8.
- Haibe, Mrs. Else. (See Prettenthalet, Vinzenz, assignor.)
- Halcolite Company. (See Villaret, Gustave E., assignor.)
- Halideman, Harry M., Los Angeles, Calif. Orifice-meter component. 1,631,644; June 7.
- Hale, Alfred, Rubber Company. (See Cutler, David A., assignor.)
- Hale, James E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire construction. 1,618,823; Feb. 22.
- Hale, James S., Barnesville, Ga. Spraying attachment for plows. 1,643,846; Sept. 27.
- Hale, Pratt B., Albany, Ala. Flush-tank ball seat. 1,624,234; Apr. 12.
- Hale, Samuel O., Whittier, Calif. Well derrick. 1,648,268; Dec. 13.
- Hale, William E., Walpole, assignor to Bird & Son, Inc., East Walpole, Mass. Roofing. 1,623,474; Apr. 5.
- Hale, William E., Port Washington, assignor to R. H. Beaumont Co., Philadelphia, Pa. Skip-hoist system. 1,628,514; May 10.
- Hale, William E., assignor of one-fourth to C. G. Britton and one-fourth to S. Randall, Pittsburgh, Pa. Paper-hanging device. 1,639,134; Aug. 16.
- Haley, Grover C., Cynthia, Ky. Harrow tooth. 1,645,482; Oct. 11.
- Haley, Grover C., Cynthia, Ky. Weeder and cultivator. 1,645,483; Oct. 11.
- Haley, Reuben, Beaver, Pa., assignor to Indiana Glass Company, Dunkirk, Ind. Service dish. Des. 73,519; Sept. 27.
- Hallerty, William R., Ollie, Iowa. Railway tie. 1,626,082; Dec. 26.
- Hallick, James. (See Boucek, J., and Hallick.)
- Halikman, Abraham, New York, N. Y. Antislash device for storage batteries. 1,633,407; June 21.
- Halikman, Eli, Brooklyn, assignor, by mesne assignments, to H. Bromberg, Bayshore, N. Y. Fire extinguisher. 1,642,008; Sept. 13.
- Halikman, Harris K. (See Devine, William P., assignor.)
- Halikman, Harris K., Revere, Mass. Antiglare goggles. 1,616,967; Feb. 8.
- Halikman, Harris K., Beachmont, Mass. Antiglare goggle. 1,624,337; Apr. 12.
- Hall, Andrew L., San Gabriel, Calif. Dash and trouble light. 1,630,843; May 31.
- Halket, William, Holyoke, Mass. Pen and pencil clip. 1,640,498; Aug. 30.
- Halket, William, and W. L. Van Valkenburg, Holyoke, Mass. Paper clip. 1,640,497; Aug. 30.
- Hall Airways Corporation. (See Hall, Charles S., assignor.)
- Hall, Akos J., Cleveland, Ohio. Floor or platform structure. 1,614,296; Jan. 11.
- Hall, Albert L., Los Angeles, assignor, by mesne assignments, to A. J. Hartfield, Huntington Park, Calif. Water heater. 1,636,907; July 26.
- Hall, Alexander G., Highland Mills, N. Y. Reel lock for fish rods. 1,644,429; Oct. 4.
- Hall, Bernard E., assignor to The Davis Lumber Co., Martinsville, Ind. Paper cutter. 1,624,235; Apr. 12.
- Hall-Brown, Archibald, Surrey, England. Supercharging of internal-combustion engines. 1,645,173; Oct. 11.
- Hall, C. M., Lamp Company. (See Bamford, Frank L., assignor.)
- Hall, C. M., Lamp Company. (See Godley, Charles E., assignor.)
- Hall, C. M., Lamp Co. (See Seltz, Ernest O., assignor.)
- Hall, Charles D., Detroit, Ill. Polishing compound. 1,615,756; Jan. 25.

- Hall, Charles G., Portland, Oreg., assignor to Novelty Food Corporation, Boise, Idaho. Confection-filling machine. 1,621,010; Mar. 15.
- Hall, Charles G., assignor to Novelty Food Corporation, Boise, Idaho. Dispensing apparatus. 1,642,200; Sept. 13.
- Hall, Charles R., Conleton, England. Siphon. 1,635,477; July 12.
- Hall, Charles S., Oakland, Calif., assignor to Hall Airways Corporation, Dover, Del. Thermal circulation system for aircraft. 1,653,849; Dec. 27.
- Hall, Charles S., Oakland, Calif., assignor to Hall Airways Corporation, Dover, Del. Thermal circulation system for aircraft. 1,653,904; Dec. 27.
- Hall, Charles S., Los Angeles, Calif., assignor to Hall Airways Corporation, Dover, Del. Aircraft. 1,653,902; Dec. 27.
- Hall, Charles S., Los Angeles, Calif., assignor to Hall Airways Corporation, Dover, Del. Aircraft wing. 1,653,903; Dec. 27.
- Hall, Charles W., Larchmont, N. Y. Airplane. 1,647,619; Nov. 1.
- Hall, Charles W., Larchmont, N. Y. Muffler for gas engines. 1,654,078; Dec. 27.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Electric cut-out. 1,626,462; Apr. 26.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Thermal relay. 1,631,679; June 7.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Thermal-responsive switch mechanism and protective system employing the same. 1,647,447; Aug. 30.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Measuring the viscosity of fluids. 1,641,673; Sept. 6.
- Hall & Connolly, Inc. (See Hall, Theodore, assignor.)
- Hall, Cortice H., Paterson, N. J., and W. Lloyd, Hazleton, Pa., assignors to Domestic Stoker Company, New York, N. Y. Fuel-stoking device. 1,638,396; Aug. 9.
- Hall, Edward L. (See Rider, Herbert E., assignor.)
- Hall, Elbert J. (See Winslow, C. A., and Hall.)
- Hall, Elbert J., Berkeley, Calif. Lubricating and cooling system for internal-combustion engines. 1,617,845; Feb. 15.
- Hall, Elbert J., Berkeley, Calif. Piston. 1,625,119; Apr. 19.
- Hall, Elbert J., Berkeley, Calif. Piston. 1,625,120; Apr. 19.
- Hall, Elbert J., Berkeley, Calif. Fan drive for engines. 1,632,622; Sept. 27.
- Hall, Ernest A., Toledo, Ohio. Portable grinding tool. 1,636,560; July 19.
- Hall, Everett A., and G. R. Sanders, Joplin, Mo., assignors to Southwestern Engineering Corporation, Los Angeles, Calif. Flotation separating process. 1,634,615; July 6.
- Hall, Everett S., Alenred, Tex. Device for opening and closing garage doors. 1,651,698; Dec. 6.
- Hall, Frank W., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Manufacture of aluminum chloride. 1,619,022; Mar. 1.
- Hall, Frank W., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating oil with aluminum chloride. 1,647,445; Nov. 1.
- Hall, Fred P., et al. (See Corlew, C. M., and Blohm, assignors.)
- Hall, Frederick Plainfield, N. J., assignor to Berggren Engineering Corporation, Brooklyn, N. Y. Duplex strainer. 1,625,024; Apr. 19.
- Hall, Frederick W., London, England. Coin-collecting apparatus for telephone services. 1,627,700; May 10.
- Hall, George L., Melrose, Mass. Miniature-stage-lighting system. 1,621,248; Mar. 15.
- Hall, George L., St. Petersburg, Fla. Porch swing. 1,640,274; Aug. 23.
- Hall, George W., Hartford, Conn. Device for measuring lengths of pipes. 1,622,995; Mar. 29.
- Hall, Hartwig & Co. (See Hartzel, Ralph, assignor.)
- Hall, Henry C., et al. (See Boyden, Thomas L., assignor.)
- Hall, Horton W., Lynn, Mass., assignor to General Electric Company. Combined voltmeter and phase-rotation indicator. 1,641,787; Sept. 6.
- Hall, J. E. (See Smith, Noble Z., assignor.)
- Hall, J. Everett, assignor to American Sterilizer Company, Erie, Pa. Valve. 1,634,781; July 5.
- Hall, John A., Seattle, Wash. Tubular stone saw. 1,620,255; Mar. 8.
- Hall, John G. S., Chicago, Ill. Weather strip. Re16,770; Oct. 11.
- Hall, John G. S., Chicago, Ill. Weather strip. 1,628,665; May 17.
- Hall, Joseph A., Jr., and O. M. Tishlarich, assignors to A. M. Byers Company, Pittsburgh, Pa. Method and apparatus for marking articles. 1,631,880; June 7.
- Hall, Joseph E. (See Canott, M. L., and Hall.)
- Hall, Lee, assignor to Federal Electric Company, Inc., Chicago, Ill. Sign. 1,652,476; Dec. 13.
- Hall, Lee, assignor to Federal Electric Company, Inc., Chicago, Ill. Sign. 1,652,477; Dec. 13.
- Hall, Leslie B., Brantford, Ontario, Canada, assignor to Williams Tool Corporation, Erie, Pa. Pipe-threading machine. 1,638,030; Aug. 9.
- Hall, Leslie S., assignor to Williams Tool Corporation, Erie, Pa. Steadying block for threading machines and the like. 1,638,031; Aug. 9.
- Hall, Lewis C., Wheatland, Wyo. Beet and cotton chinner. 1,643,242; Sept. 20.
- Hall, Lyman D., New York, N. Y. Vanity hand bag. 1,630,844; May 31.
- Hall Mfg. Company, The. (See Davis, Claud A., assignor.)
- Hall, Merton C., New York, N. Y., assignor to American Telephone and Telegraph Company. System for transmitting and reproducing pictures. 1,627,701; May 10.
- Hall, Merton C., New York, N. Y., assignor to American Telephone and Telegraph Company. Telegraph system. 1,630,340; May 31.
- Hall, Merton C., Charlotte, N. C., assignor to American Telephone Company. Device for electrical measurement. 1,652,241; Dec. 13.
- Hall, Milan W., New Rochelle, N. Y. Anchor. 1,636,092; July 19.
- Hall, Newton L., La Salle, Ill. Corrugated roofing or siding sheet. 1,616,968; Feb. 8.
- Hall, Ralph E., Pittsburgh, assignor to J. M. Hopwood, Dormont Borough, Pa. Treating steam-boller water. 1,613,656; Jan. 11.
- Hall, Ralph E., Pittsburgh, assignor to J. M. Hopwood, Dormont Borough, Pa. Treatment of boiler water. 1,613,701; Jan. 11.
- Hall, Ralph E., assignor to The Koppers Company, Pittsburgh, Pa. Recovery of sodium thiocyanate. 1,648,224; Nov. 8.
- Hall, Ralph R., assignor of one-half to W. A. Trout, Long Beach, Calif. Coring device. 1,648,225; Nov. 8.
- Hall, Randolph P., Ithaca, N. Y., assignor of one-third to T. P. Hall, Wallingford, Conn., and one-sixth to P. Wilson, Ithaca, N. Y. Airplane. 1,650,346; Nov. 22.
- Hall, Ray E., Rock Island, assignor to Hall Research Corporation, Chicago, Ill. Relay. 1,628,723; May 17.
- Hall, Ray E., assignor to Hall Research Corporation, Chicago, Ill. Tone selective receiver. 1,647,911; Nov. 1.
- Hall, Ray E., Wilmette, Ill., assignor to Hall Research Corporation. Selective relay and the like. 1,652,199; Dec. 13.
- Hall Research Corporation. (See Hall, Ray E., assignor.)
- Hall, Richard E., assignor to Seaman Container Manufacturing Corporation, Olean, N. Y. Pulp-pressing head. 1,623,111; Apr. 5.
- Hall, Richard E., Olean, N. Y., assignor, by mesne assignments, to The Alvey Manufacturing Co., Wilmington, Del. Apparatus for producing seamless fibrous containers. 1,653,007; Dec. 20.
- Hall, Richard L., administrator. (See Boals, Polk.)
- Hall, Roy D., East Orange, N. J., assignor to Westinghouse Lamp Company. Borating Dumet wire. 1,647,620; Nov. 1.
- Hall, Samuel, West Bridgford, assignor to H. Gamble, Claremont, England. Pattern mechanism for twist-lace machines. 1,647,798; Nov. 1.
- Hall, Samuel W. (See Struble, C. H., and Hall.)
- Hall-Scott Motor Car Co. (See Straub, Joseph C., assignor.)
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Process and apparatus for removing wax from oil. 1,616,041; Feb. 1.
- Hall, Theodore, Brooklyn, assignor to Hall & Connolly, Inc., New York, N. Y. Feeding means for arc lamps. 1,626,952; May 3.
- Hall, Theodore, assignor to The Sperry Gyroscopic Company, Brooklyn, N. Y. Series-operated studio arc lamps. 1,617,314; Feb. 8.
- Hall, Theodore, assignor to The Sperry Gyroscopic Company, Brooklyn, N. Y. Flaming-arc floodlight. 1,625,315; Apr. 19.
- Hall, Theodore, assignor to The Sperry Gyroscopic Company, Brooklyn, N. Y. Searchlight. 1,632,131; June 14.
- Hall, Theodore, assignor to The Sperry Gyroscopic Company, Brooklyn, N. Y. Searchlight. 1,634,663; July 5.
- Hall, Theodore P., et al. (See Hall, Randolph F., assignor.)
- Hall, Thomas, Middlesbrough, England. Raising and traversing gear. 1,635,617; July 12.
- Hall, Thomas, and R. L. Houtz, Harrisburg, Pa. Method and mechanism for testing gelatinous substances. 1,651,596; Dec. 6.
- Hall, Thomas F., Omaha, Nebr. Berry harvester. 1,632,597; June 14.
- Hall, Thomas H., Nyack, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Coke and producing the same. 1,650,126; Nov. 22.
- Hall, W. F., Printing Co. (See Schultz, Herman J., assignor.)
- Hall, William, assignor of one-third to J. E. Murphy and one-third to G. H. Wheldon, Minneapolis, Minn. Conveyor for segmental stereotype plates. 1,652,989; Dec. 13.
- Hall, Wesley F., Matawan, assignor to The Hanson & Van Winkle Company, Newark, N. J. Conveyor. 1,631,244; June 7.
- Hall, Wesley F., Matawan, assignor to The Hanson & Van Winkle Company, Newark, N. J. Electroplating machine. 1,631,199; June 7.

- Hall, Wesley F., Matawan, assignor to The Hanson & Van Winkle Company, Newark, N. J. Sprocket chain and links therefor. 1,641,536; Sept. 6.
- Hall, William A., Chicago, Ill. Combined basket, skid, and dolly. 1,639,035; Aug. 16.
- Hall, William B., assignor to Union Railway Equipment Company, Chicago, Ill. Supporting means for drop-brake shafts. 1,625,206; Apr. 19.
- Hall, William G., Honolulu, Hawaii. Juice-straining system for sugar-cane mills. 1,627,283; May 3.
- Hall, William G., Honolulu, Hawaii. Juice-straining system for sugar-cane mills. 1,627,284; May 3.
- Hall, William G., Honolulu, Hawaii. Maceration distributor for sugar-cane mills. 1,647,516; Nov. 1.
- Hall, William H., assignor to The Pedlar People Limited, Oshawa, Canada. Corrugated pipe or culvert. 1,623,112; Apr. 5.
- Hall, Zachariah A., Hespeler, Ontario, Canada. Hockey stick. 1,631,960; June 14.
- Halladay, Lewis P., Decatur, Ill. Polishing machine. 1,652,436; Dec. 13.
- Harr, Forrest, Elmhurst, Mo., and B. C. Long, Topeka, Kans. License-plate holder. 1,652,126; Dec. 6.
- Hallauer, Edward B. (See Norwood, J. C., and Hallauer.)
- Hallauer, Frank J., Madison, Wis. Composition board and making the same. 1,634,462; July 5.
- Hallauer, Nelson A., trustee. (See Dons, Henry N., assignor.)
- Hallberg, Clay F. (See Dilley, F. M., and Hallberg.)
- Halle, Hiram J., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for treating petroleum oil. 1,619,923; Mar. 8.
- Halleck, Frank A., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor. 1,649,298; Nov. 15.
- Halleck, Frank A., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 1,627,539; May 3.
- Halleck, Frank A., Michigan City, Ind., assignor to Sullivan Machinery Company. Compressor or pumping mechanism. 1,633,699; June 28.
- Halleck, Frank A., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,642,201; Sept. 13.
- Halleck, Frank A., Oak Park, Ill., assignor to Sullivan Machinery Company. Forging machine. 1,638,253; Aug. 9.
- Halleck, Frank A., Chicago, Ill., assignor to Sullivan Machinery Company. Forging mechanism. 1,638,259; Aug. 9.
- Hallenberg, Harry D., and A. F. Hynninen, Tampisuo, Finland. Elastic trailer for motor cars. 1,645,484; Oct. 11.
- Hallensleben, Julius. (See Streitwolf, K., and Hallensleben.)
- Haller, Elwood C., East Rutherford, N. J. Printer's chase for storage. 1,616,969; Feb. 8.
- Haller, Ludwig, Yonkers, N. Y. Combination lock. 1,614,469; Jan. 18.
- Hallett, George E. A., assignor to General Motors Research Corporation, Dayton, Ohio. Valve-operating mechanism. 1,619,974; Mar. 8.
- Hallett, George E. A., assignor to General Motors Research Corporation, Dayton, Ohio. Driving connection between a rotating shaft and reciprocating piston. 1,627,775; May 10.
- Hallett, George E. A., assignor to General Motors Research Corporation, Dayton, Ohio. Air-cooled engine. 1,644,722; Oct. 11.
- Hallett, Maude H., Oak Park, Ill. Garbage incinerator. 1,648,119; Nov. 8.
- Halliburton, Erle P., Los Angeles, Calif. Mixer and proportioner. 1,646,582; Oct. 25.
- Halliburton, Erle P., Los Angeles, Calif. Apparatus for mixing and proportioning materials. 1,649,062; Nov. 15.
- Halliburton, Orlando. (See Worden, Erle D., assignor.)
- Halliburton, Orville G., Chicago, Ill. Shock absorber. 1,641,268; Sept. 6.
- Halliday, Ernest P., Bishop, Calif. Hay-bunching rake. 1,628,971; May 17.
- Halliday, Francis R. (See Grant, K. A., Halliday, and Cameron.)
- Halliday, James F. (See Thomas, J. C., Halliday, and Hill.)
- Hallihan, John J., Chartley, assignor to Freeman-Daughday Co., Chartley, Mass., also doing business as Providence Collar Button Company, Providence, R. I. Clutch guard for pin stems. 1,617,330; Feb. 15.
- Hallihan, John P. (See Turner, D. L., and Hallihan.)
- Halliwail, Arthur, Denver, Colo. Combined lamp and supporting bracket for automobile fenders. Des. 73,375; Aug. 30.
- Halliwail, John J., Mount Vernon, assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Shock absorber for power plate presses. 1,619,820; Mar. 8.
- Halliwail, John J., Tuckahoe, assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Web-guiding mechanism for printing machines. 1,640,355; Aug. 30.
- Halliwail, John J., Tuckahoe, assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism. 1,644,723; Oct. 11.
- Halliwail, John J., Tuckahoe, assignor to R. Hoe & Co., Inc., New York, N. Y. Multiple-plate clamping. 1,650,206; Nov. 22.
- Halliwail, Reginald F., Leamington Spa, England, assignor to General Electric Company. Shaft packing. 1,614,120; Jan. 11.
- Halliwail, Reginald F., Leamington Spa, England, assignor to General Electric Company. Elastic-fluid turbine. 1,615,697; Jan. 25.
- Halliwail, Reginald F., deceased; Signe E. Halliwail, executrix. Leamington Spa, England, assignor to General Electric Company. Elastic-fluid turbine. 1,648,681; Nov. 8.
- Halliwail-Shelton Electric Corporation. (See Jancke, Benno F., assignor.)
- Halliwail-Shelton Electric Corporation. (See Shelton, William G., assignor.)
- Halliwail, Signe E., executrix. (See Halliwail, Reginald F.)
- Halllock, George W. (See Gero, W. B., and Halllock.)
- Halloran, John A. (See Morton, A. K., and Halloran.)
- Hallot, Paul, Paris, France. Braking of motor and other vehicles. 1,634,186; June 28.
- Hallowell, Edward D. (See Hallowell, Hobart A. and E. D.)
- Hallowell, Hobart A., Woodlynne, and E. D. Hallowell, Audubon, N. J. Vented electric socket. 1,644,056; Oct. 4.
- Hallquist, Einar G., Edwardsville, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Car platform. 1,636,816; July 26.
- Hallquist, Einar G., Edwardsville, Ill., assignor to Commonwealth Steel Company, Granite City, Mo. Railway motor truck. 1,650,069; Nov. 22.
- Halls, Joseph A. (See Groh, M. S., and Halls.)
- Halls, Joseph A., assignor to The Truscon Steel Company, Youngstown, Ohio. Rotary machine for expanding metal sheets. 1,651,058; Nov. 29.
- Halls, Joseph A., assignor to Truscon Steel Company, Youngstown, Ohio. Machine for expanding preslitted metal sheets. 1,654,460; Dec. 27.
- Hall's Safe Company, The. (See Benham, W. T., and Dwyer, assignors.)
- Hall's Safe Company, The. (See Dalton, Harry M., assignor.)
- Hallstrom, Henning, Brockton, assignor to Cross Paper Feeder Company, Boston, Mass. Paper-feeding machine. 1,624,787; Apr. 12.
- Hallstrom, Warren A. (See Bussey, H. S., and Hallstrom.)
- Hallum, Otto F., and A. Sletten, Minneapolis, Minn. Dental amalgamator. 1,643,847; Sept. 27.
- Hallwood, Nathan A., Columbus, Ohio. Scale casing. Des. 73,079; July 19.
- Hallwood, Nathan A., Columbus, Ohio. Scale casing. Des. 73,080; July 19.
- Hallwood, Nathan A., assignor to McKenna-Horix Manufacturing Company, Pittsburgh, Pa. Scales. 1,622,106; Mar. 22.
- Halmi, Steve, Yonkers, N. Y. Music-sheet turner. 1,633,408; June 21.
- Halperin, Philip, Los Angeles, Calif. Garment. 1,634,829; July 5.
- Halperin, Samuel J., Brooklyn, N. Y. Check book. 1,642,439; Sept. 13.
- Halperin, Norman V., New York, N. Y. Door latch. 1,641,537; Sept. 6.
- Halphen, Louis B., Opelousas, La. Gauge for axles. 1,647,864; Nov. 1.
- Halpin, Abraham, New York, N. Y. Instrument attachment. 1,627,089; May 3.
- Halpin, James F., Derby, assignor to Seymour Mfg. Co., Seymour, Conn. Apparatus for rolling metal. 1,634,258; July 5.
- Halpin, John J., et al. (See Smith, Charles F., assignor.)
- Halpin, Michael K., assignor of one-third to C. F. Warlick, and one-third to H. J. Booth, Detroit, Mich. Machine for spinning rolls. 1,615,836; Feb. 1.
- Hals, J. M., & Co. A/S. (See Hals, Jorgen M., assignor.)
- Hals, Jorgen M., Oslo, assignor to J. M. Hals & Co. A/S., Christiania, Norway. Centrifugal friction coupling. 1,621,366; Mar. 15.
- Halsey, Arthur S., Washington, D. C. Gun firing mechanism. 1,651,699; Dec. 6.
- Halsey, Charles W., Evansville, Ind. Can-opening attachment for ice picks. 1,618,550; Feb. 22.
- Halsey, Charles W., Evansville, Ind. Resilient grip for implement handles. 1,632,227; June 14.
- Halsey, Norman V., assignor to Soap Feeder Corporation, New York, N. Y. Cleaning-machine feeder for washing machines of the spray type. 1,640,318; Aug. 23.
- Halsey, Norman V., assignor to Soap Feeder Corporation, New York, N. Y. Cleaning-machine feeder for washing machines. 1,640,319; Aug. 23.
- Halstead, Albert, Jr., Milwaukee, Wis. Apparatus for curving printing plates. 1,637,747; Aug. 2.
- Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Transferring device for cigar machines. 1,626,410; Apr. 26.
- Halstead, John F., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Cigarette-machine cut-off. 1,647,352; Nov. 1.
- Halstead Specialties Co. (See Curtis, Charles C., assignor.)

- Halstead, Stanley M., and A. I. Wickland, San Jose, Calif. Elevator. 1,614,790; Jan. 18.
- Halstead, Stanley M., and A. I. Wickland, San Jose, Calif. Elevator. 1,653,960; Dec. 27.
- Haltenberger, Jules, Incorporated. (See Haltenberger, Jules, assignor.)
- Haltenberger, Jules, assignor to Jules Haltenberger, Incorporated. Radiator. Ind. Internal-combustion engine. 1,630,245; May 24.
- Hjalvarsson, Halvar, Bjälverud, Sweden. Automatic cattle-feeding mechanism. 1,622,443; Mar. 29.
- Hjalversen, Hans N., Vineland, N. J., assignor to Kimble Glass Company, Chicago, Ill. Multiple graduating machine. 1,624,549; Apr. 12.
- Hjalversen, Hans N., assignor to Kimble Glass Company, Vineland, N. J. Multiple graduating machine. 1,650,831; Nov. 29.
- Hjalverson, Henry J., and W. H. Youngstrom, assignors to General Electric Company. Lighting unit. 1,640,448; Aug. 30.
- Hjalverson, Henry J., and W. H. Youngstrom, assignors to New Business Corporation, Chicago, Ill. Savings bank. 1,640,569; Aug. 30.
- Hjalvorsen, Arthur L., Perth Amboy, N. J. Making a steam hygroscopic device. 1,627,325; May 8.
- Hjalvorsen, Axel I. S., assignor to McCormick Bros. Company, Albany, Ind. Support for flexible doors of kitchen cabinets. 1,627,736; May 10.
- Hjalvorsen, Axel I. S., assignor to McCormick Brothers Company, Albany, Ind. Rack for tea, coffee, and spice containers. 1,631,725; June 7.
- Hjalvorsen, Birger F., Oslo, H. J. Falck, Notodden, and Ø. Ravner, assignors to Norsk Hydro-Elektrisk Kvalstofaktieselskab, Oslo, Norway. Production of alumina from aluminum nitrates. 1,652,119; Dec. 6.
- Hjoven, Fredrik, Seattle, Wash. Power drag or falling saw. 1,624,662; Apr. 12.
- Hjalvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,633,742; June 28.
- Hjalvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Cor. drill. 1,643,338; Sept. 27.
- Hjalvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Valve mechanism. 1,649,897; Nov. 22.
- Hjalvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Plant-controlling system. 1,649,898; Nov. 22.
- Hjalvorsen, Ole G., Chicago, Ill. Combined packing and thrust bearing for revolving shafts. 1,618,655; Feb. 22.
- Hjalvorsen, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Illuminating unit. 1,614,121; Jan. 11.
- Hjalvorsen, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Flood-lighting unit. 1,614,122; Jan. 11.
- Hjalvorsen, Cromwell A. B., Jr., Lynn, Mass., assignor of one-half to C. H. Willis, Detroit, Mich. Illuminating device. 1,616,042; Feb. 1.
- Hjalvorsen, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Lighting unit. 1,631,632; June 7.
- Hjalvorsen, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Lens. 1,641,674; Sept. 6.
- Hjalvorsen, Gilbert, Northwood, N. Dak. Machine for pulling and raking thistles. 1,618,656; Feb. 22.
- Hjelm Boiler Corporation. (See Adelmann, Hans, assignor.)
- Ham, Clayton S., San Francisco, assignor to A. Turner, Oakland, Calif. Electric self-winding clock. 1,637,997; Aug. 2.
- Ham, Robert L., Boston, Mass., assignor to Summit Thread Company, East Hampton, Conn. Thread cap. 1,646,198; Oct. 18.
- Hamacek, Frank, Machine Company. (See Hamacek, Frank, assignor.)
- Hamacek, Frank, assignor to Frank Hamacek Machine Company, Kenosha, Wis. Separating apron for green-pe-vine hullers. 1,645,324; Oct. 11.
- Hamaker, G. E. (See Philbin, Loren A., assignor.)
- Hamaker, Rex G. (See O'Boyle, T., and Hamaker.)
- Hamann, Frank M., Dunkirk, N. Y. Antiskid device. 1,620,965; Mar. 15.
- Hamann, Kurt W. B., Trumbull, Conn. Combined motor-mechanical vapor trap and filler can for radiators of internal-combustion engines. 1,615,757; Jan. 25.
- Hamblen, William J., Lidcombe, near Sydney, New South Wales, Australia. Lathe. 1,649,588; Nov. 15.
- Hamblin, Ed., Jr., Woodward, Okla. Pocket-iron leather guard. 1,627,967; May 10.
- Hamblin, Fred B., assignor to The Weightograph Company, St. Louis, Mo. Scale. 1,636,908; July 26.
- Hamblin, Fred B., assignor to The Weightograph Company, St. Louis, Mo. Operating handle for lever switches. 1,653,043; Dec. 20.
- Hamblin, Fred B., assignor to The Weightograph Company, St. Louis, Mo. Scale. 1,653,044; Dec. 20.
- Hamborg, Edward, Linden, and V. T. Lobdell, Elizabeth, N. J. Fly catcher. 1,623,006; Mar. 29.
- Hambuechen, Carl, St. Louis, Mo., assignor to Electro Metallurgical Company. Electrodeposition of chromium. Re16,598; Apr. 19.
- Hamel, Charles W., and L. J. Hamel, St. Louis, Mo. Protector for golf clubs. 1,648,175; Nov. 8.
- Hamel, Joseph P., Ayer, Mass. Window screen. 1,615,580; Jan. 24.
- Hamel, Louis J. (See Hamel, Charles W. and L. J.)
- Hamel, Peter, Waukegan, Ill. Dumping car. 1,620,759; Mar. 15.
- Hamel, Peter, Berlin, N. H. Smoke cleaner. 1,639,179; Aug. 16.
- Hamel, William W., New York, N. Y., assignor to Advertising Samplers, Inc., Wilmington, Del. Advertising device. 1,651,597; Dec. 6.
- Hamer, Howard T., Narberth, Pa. Combination carpenter's gauge. 1,649,686; Nov. 13.
- Hamer, Sylvester G., assignor of one-third to J. W. B. W. Decatur, Pa. Brick-sliding machine. 1,650,832; Nov. 29.
- Hamer, William D., Indianapolis, Ind. Metal pole. 1,617,331; Feb. 15.
- Hamersley, Garvin, assignor of one-half to O. W. Teaby, Geyserville, Calif. Cultivator attachment. 1,616,417; Feb. 15.
- Hamersley Manufacturing Company, The. (See Smith, Harold A., assignor.)
- Hamey, Amos C., North Sydney, New South Wales, Australia. Crushing and grinding machine. 1,627,506; Mar. 3.
- Hamiel, Dorman E., Columbus, Ohio. Lamp socket. 1,640,189; Aug. 23.
- Hamill, Fred B., et al., executors. (See Heinz, Julius A.)
- Hamilton, Albert G., assignor to J. T. and A. Hamilton Company, Pittsburgh, Pa. Glass bottle. Des. 72,420; Apr. 12.
- Hamilton, Baxter P., River Edge, N. J., assignor to American Telephone and Telegraph Company. Carrier-telephone repeater circuits. 1,636,053; July 19.
- Hamilton Beach Mfg. Co. (See Albrecht, Robert, assignor.)
- Hamilton Beach Mfg. Co. (See Driver, William, assignor.)
- Hamilton Beach Mfg. Co. (See Ernst, William, assignor.)
- Hamilton Beach Mfg. Co. (See Mross, Edward, assignor.)
- Hamilton Beach Mfg. Co. (See Mross, E., and Ernst, assignors.)
- Hamilton-Beach Mfg. Co. (See Osius, Frederick J., assignor.)
- Hamilton, Burton C., Brookline, Mass. Garden-hose supporter. 1,637,523; Aug. 2.
- Hamilton, Charles E., Van Nuys, Calif. Ironing pad. 1,630,894; May 31.
- Hamilton, Charles E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cutting tool. 1,628,315; Mar. 10.
- Hamilton, Charles H., Los Angeles, Calif. Garbage truck. 1,651,700; Dec. 6.
- Hamilton, Charles S., Harrison, assignor to New York Mills Corporation, New York Mills, N. Y. Pile fabric. Des. 73,658; Oct. 18.
- Hamilton, Earl R., Nitro, W. Va. Distillation apparatus. 1,614,791; Jan. 18.
- Hamilton, Earl R., Pekin, Ind. Collapsible-tube holding and compressing device. 1,618,377; Feb. 22.
- Hamilton, Edward H., and L. W. Kirk, Midvale, Utah, assignors to United States Smelting, Refining & Mining Company, Boston, Mass. Feeding apparatus for pulverized material. 1,640,770; Aug. 30.
- Hamilton, Elmer W., Madison, Wis., assignor to C. C. Bogle, Mason City, Iowa. Automatically-adjustable neckband. 1,616,258; Feb. 1.
- Hamilton, Ernest, Manchester, England. Split pulley and the like. 1,646,692; Oct. 25.
- Hamilton, Estate of H. G., deceased. (See Coates, Ray G., assignor.)
- Hamilton, Francis F., Indianapolis, Ind. Box. Des. 73,287; Aug. 23.
- Hamilton, Francis F., Indianapolis, Ind. Box. Des. 73,500; Sept. 25.
- Hamilton, George H., assignor to American Seating Company, Grand Rapids, Mich. Lighting means. 1,613,793; Jan. 11.
- Hamilton, George H., assignor to American Seating Company, Grand Rapids, Mich. Aisle light. 1,650,347; Nov. 22.
- Hamilton, Gertrude M., and A. C. Webb, assignors to Mercator, Paris, France. Textile fabric or similar article. Des. 71,871; Jan. 18.
- Hamilton, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Two-way telephone transmission. 1,639,773; Aug. 23.
- Hamilton, Harry D., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,620,018; Mar. 8.
- Hamilton, J. T. and A. Company. (See Hamilton, Albert G., assignor.)
- Hamilton, James, Detroit, Mich. Flower holder and stand. 1,624,407; Apr. 12.
- Hamilton, J. D., Berkeley, assignor to Pacific National Co., Inc., San Francisco, Calif. Vehicle top. 1,613,278; Jan. 4.
- Hamilton, James W. (See Pitney, Earl H., assignor.)
- Hamilton, Karl M., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof construction. 1,631,860; June 7.

- Hamilton, Louis W., assignor of one-half to J. M. Bleicher, Kenosha, Wis. Washing machine. 1,639,180; Aug. 16.
- Hamilton, Lynford, Philadelphia, Pa. Furnace arch. 1,638,603; July 19.
- Hamilton, Maurice E., La Fayette, and R. R. Hopkins, West Lafayette, Ind., assignors to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. 1,640,499; Aug. 20.
- Hamilton, Paul H., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Heater. Des. 73,175; Aug. 2.
- Hamilton, Ronald M., Malvern, England. Appliance for washing or cleaning table forks or forked articles. 1,635,703; Dec. 27.
- Hamilton-Ross Factories, Inc. (See Grien, Joseph, assignor.)
- Hamilton-Ross Factories, Inc. (See Levinson, Irwin E., assignor.)
- Hamilton, Thomas G., Bishop, Tex. Air-tempering device. 1,617,050; Feb. 8.
- Hamilton, Thomas S., Los Angeles, Calif. Attachment for vehicle springs. 1,618,097; Jan. 4.
- Hamilton, Thomas S., Los Angeles, Calif. Attachment for vehicle springs. 1,618,705; Feb. 22.
- Hamilton, William E., and E. J. Bagnall, deceased, Columbus, Ohio; A. M. Bagnall executor of said E. J. Bagnall. Tunnel drier. 1,644,773; Oct. 11.
- Hamilton, William J., Kenmore, assignor of one-half to P. C. Dunning, Buffalo, N. Y. Hunting boot. 1,639,560; Aug. 16.
- Hamilton, William R., Dewey, Okla. Automatic cut-out for engines. 1,614,361; Jan. 11.
- Hamilton, William R., Dewey, Okla. Pump valve. 1,634,141; June 28.
- Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Braking system. 1,621,403; Mar. 15.
- Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. 1,628,402; May 10.
- Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,641,758; Sept. 6.
- Hamlet, Willard, Baltimore, Md. Facial-bath hood. 1,650,270; Nov. 22.
- Hamlin, Charles R., Chicago, Ill. Display stand. 1,651,523; Dec. 6.
- Hamm, Archie W., Philadelphia, Pa. Wagon chute. 1,644,521; Oct. 4.
- Hamm, Thomas, Hawthorne, Calif. Cement-gun nozzle. Re16,539; Feb. 1.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adelaide Company, Rush lath. 1,627,846; May 10.
- Hammar, Sigard A. S., Bethlehem, Pa. Gear tooth. 1,613,702; Jan. 11.
- Hammarlund Manufacturing Company, The. (See Scott, Beverly R., assignor.)
- Hammer-Bray Company. (See Huetteinan, G. A., and Gerlich, assignors.)
- Hammer-Bray Company. (See Weisman, John C., assignor.)
- Hammer-Bray Company. (See Gerlich, F. A., and Gardner, assignors.)
- Hammer-Bray Company. (See Hammer, George, assignor.)
- Hammer, Charles, Hollis, assignor to American Metal Cap Company, Brooklyn, N. Y. Resealable metal cap. 1,618,657; Feb. 22.
- Hammer, Charles, Hollis court Boulevard, assignor to American Metal Cap Company, Brooklyn, N. Y. Lug-formed cap. 1,647,517; Nov. 1.
- Hammer, Ervin J., and O. H. Miller City, Ohio. Beet harvester. 1,620,019; Mar. 8.
- Hammer, F. W., Corporation. (See Hammer, Fritz W., assignor.)
- Hammer, Forrester L., Branford, Conn. Strainer. 1,647,799; Nov. 1.
- Hammer, Fritz W., Litchterfelde, near Berlin, Germany, assignor to F. W. Hammer Corporation. Torpedo-launching means for aeroplanes. 1,627,968; May 10.
- Hammer, George, assignor to Hammer-Bray Company, Oakland, Calif. Gas-kindling burner. 1,627,386; May 3.
- Hammer, George, assignor to Hammer-Bray Company, Oakland, Calif. Cooking top for stoves. 1,647,692; Nov. 1.
- Hammer, Julius. (See Stroop, H. T., Hausér, and Hammer.)
- Hammer, Orrin H. (See Hammer, Ervin J. and O. H.)
- Hammer, Peter, assignor of one-half to T. Collins, Comp-ton, Calif. Wrench. 1,652,355; Dec. 13.
- Hammer, Samuel, Brooklyn, assignor to United Metal Box Co. Inc., Long Island City, N. Y. Lock-attach-ing means. 1,629,270; May 17.
- Hammer, Samuel, Brooklyn, assignor to United Metal Box Company, Inc., Long Island City, N. Y. Metal receptacle. 1,632,702; June 14.
- Hammer, Samuel, Brooklyn, assignor to United Metal Box Co. Inc., Long Island City, N. Y. Metal receptacle. 1,632,733; June 14.
- Hammer, Samuel, Brooklyn, assignor to United Metal Box Co. Inc., New York, N. Y. Metal receptacle. 1,632,734; June 14.
- Hammer, Samuel, Brooklyn, N. Y., assignor to United Metal Box Co. Inc., Long Island City, N. Y. Metal receptacle. 1,632,762; June 14.
- Hammer, Willibald, assignor to Firm Zellweger A.-G., Uster, Switzerland. Warp-heddling machine. 1,645,988; Oct. 18.
- Hammer, Jacob, assignor to Packard Motor Car Com-pany, Detroit, Mich. Motor vehicle. 1,645,325; Oct. 11.
- Hammerly, Susan B., Marshall, Ill. Hair waving and curling device. 1,652,356; Dec. 13.
- Hammersey, Walter M., Dayton, Ohio. Vehicle signal. 1,624,236; Apr. 12.
- Hammerstrom, Karl R. (See Vold, L. H., and Hammer-strom.)
- Hammes, John C., Des Moines, Iowa. Display rack. 1,621,465; Mar. 15.
- Hammes, Paul, Trier, Germany. Boot block. 1,649,783; Nov. 13.
- Hammett, Elbert A., Kansas City, Mo. Electrically-oper-ated valve mechanism. 1,626,817; May 8.
- Hammond, Floyd. (See Skaggs, M. C., and Hammond.)
- Hammond, Albert J., Ben Lomond, Calif. Lamp shade. Des. 73,976; Nov. 29.
- Hammond, Alfred, Botley, England. Distributor for in-ternal-combustion engines. 1,642,876; Sept. 20.
- Hammond, Blinn C., Cranfordville, Ind. Article of manufacture for mending radiators. 1,617,949; Feb. 15.
- Hammond, Ernest D., Salt Lake City, Utah. Tongue-spatula attachment for mouth specula. 1,613,996; Jan. 11.
- Hammond, Frederick, Houston, Tex., assignor to H. F. Cohen, Mask for printing machines. 1,635,618; July 12.
- Hammond, H. H., et al. (See Dobbins, George R., as-signor.)
- Hammond, John A. S., Woodlawn, Md., assignor to U. S. Industrial Alcohol Co. Producing chlorocarbonates. 1,618,824; Feb. 22.
- Hammond, John H., jr. (See Chaffee, Emory L., as-signor.)
- Hammond, John H., jr. (See Dorsey, Herbert G., as-signor.)
- Hammond, John H., jr. (See Murray, Albert F., as-signor.)
- Hammond, John H., jr. (See Trenor, Albert D., as-signor.)
- Hammond, John H., jr., Gloucester, Mass. Automatic antenna system. 1,614,671; Jan. 13.
- Hammond, John H., jr., Gloucester, Mass. Angle-indi-cating device for moving bodies. 1,619,205; Mar. 1.
- Hammond, John H., jr., Gloucester, Mass. System of guide lights. 1,621,878; Mar. 22.
- Hammond, John H., jr., Gloucester, Mass. Pipe organ. 1,621,879; Mar. 22.
- Hammond, John H., jr., Gloucester, Mass. Solo control for automatic player instruments. 1,621,880; Mar. 22.
- Hammond, John H., jr., Gloucester, Mass. Detonator-control mechanism. 1,623,475; Apr. 8.
- Hammond, John H., jr., Gloucester, Mass. Control system for aircraft. 1,625,252; Apr. 19.
- Hammond, John H., jr., Gloucester, Mass. Salvo firing. 1,627,174; May 3.
- Hammond, John H., jr., Gloucester, Mass. Pedal lock. 1,633,178; June 21.
- Hammond, John H., jr., Gloucester, Mass. Modifying device for modulation control. 1,635,993; July 19.
- Hammond, John H., jr., Gloucester, Mass. Piano-modu-lator-control device. 1,635,994; July 19.
- Hammond, John H., jr., Gloucester, Mass. Successively-operated tone controls. 1,635,995; July 19.
- Hammond, John H., jr., Gloucester, Mass. Transmission system for radiant energy. 1,637,310; July 26.
- Hammond, John H., jr., Gloucester, Mass. Torpedo. 1,641,165; Sept. 6.
- Hammond, John H., jr., Gloucester, Mass. Pedal control of stop actions. 1,641,166; Sept. 6.
- Hammond, John H., jr., Gloucester, Mass. Tone control operable successively in a predetermined manner. 1,645,048; Oct. 11.
- Hammond, John H., jr., Gloucester, Mass. Varying-fre-quency system of radio signaling. 1,648,682; Nov. 8.
- Hammond, John H., jr., Gloucester, Mass. Radiocontrol of engine speed. 1,653,172; Dec. 20.
- Hammond, John H., jr., Gloucester, and E. L. Chaffee, Belmont, Mass.; said Chaffee assignor to said Ham-mond. Changing the intensity of signals in radio dynamic receiving systems. 1,649,778; Nov. 15.
- Hammond, Mark C., Rieburg, assignor to Forest Oil Corporation, Bradford, N. Y. Oil and water separator for oil wells. 1,649,524; Nov. 15.
- Hammond, Melissa A., Hopkinsville, Ky. Match folder. 1,641,850; Sept. 6.
- Hammond, Milton B., assignor to Wolverine Bumper & Specialty Company, Grand Rapids, Mich. Support for vehicle bumpers. 1,617,903; Feb. 15.
- Hammond, Myron B., assignor to Thomas P. Taylor Co., Bridgeport, Conn. Sanitary belt. 1,614,239; Jan. 11.
- Hammond, Robert O., assignor of one-half to C. H. Ozden and one-half to H. H. Simms, Rochester, N. Y. Lighter for cigars and the like. 1,620,548; Mar. 8.
- Hammond, Robert O., assignor to S. S. Jenkins, Buffalo, N. Y. Apparatus for toasting food articles. 1,634,142; June 25.
- Hammond, William P. (See Buel, Hillhouse, assignor.)

- Hammond, William P. (See Moses, E. Q., Terwillinger, and Hammond.)
- Hammond, William P., East Orange, N. J. Apparatus for renewing surfaces of golf balls. 1,630,244; May 24.
- Hammond, William P., East Orange, N. J. Wind detector. 1,633,368; June 1.
- Hammond, William P., Scarsdale, N. Y. Tire cover. 1,651,769; Dec. 6.
- Hammons, Frederick D., Seattle, Wash., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Fountain-pen desk set. 1,641,949; Sept. 6.
- Hamner, William T. (See Zimmerman, C., and Hamner.)
- Hannett, Samuel A., Los Angeles, Calif. Seal and making the same. 1,625,466; Apr. 19.
- Hamnden Auto Top & Metal Company. (See Laven, Louis, assignor.)
- Hamnden Glazed Paper & Card Company. (See Marwede, Richard L., assignor.)
- Hamnden Glazed Paper and Card Company. (See Stone, Thomas L., assignor.)
- Hampson, John, London, England. Agricultural implement. 1,629,915; May 24.
- Hampson, William H., Watertown, Mass. Handhold for vehicles. 1,646,647; Oct. 25.
- Hampton, Abijah E., Pittsstown, and C. S. Marshall, Baptistsville, N. J. Muffler. 1,618,876; Feb. 22.
- Hampton, C. & J., Limited. (See Hampton, Charles W., assignor.)
- Hampton, Charles W., assignor of one-half to C. & J. Hampton Limited, Sheffield, England. Vise. 1,653,173; Dec. 20.
- Hampton, Francis H., Spokane, Wash. Funnel. 1,618,531; Feb. 22.
- Hampton, Leon N., assignor to Western Electric Company, Incorporated, New York, N. Y. Cutting device. 1,632,004; June 14.
- Hampton, Leon N., assignor to Western Electric Company, Incorporated, New York, N. Y. Clearance gauge. 1,632,067; June 14.
- Hampton, Monte M., Kansas City, Mo. Sliding bed. 1,621,163; Mar. 15.
- Hampton, Wilfred M. (See Gell, P. V. W., Gould, Hampton, and Martin.)
- Hanauer, Darwin, La Grange, assignor to Kinney-Rome Company, Chicago, Ill. Bed-spring support. 1,621,111; Mar. 15.
- Hanauer, Darwin, La Grange, assignor to Kinney-Rome Company, Chicago, Ill. Bedspring. 1,628,462; May 10.
- Hanauer, Darwin, La Grange, Ill., assignor to Kinney Rome Company. Anchoring means between cushioning and a supporting frame. 1,633,544; June 21.
- Hanauer, Darwin, La Grange, Ill., assignor to Kinney Rome Company. Spring structure. 1,633,545; June 21.
- Hanauer, Darwin, La Grange, Ill., assignor to Kinney Rome Company. Spring-anchoring means. 1,649,227; Nov. 15.
- Hanauer, Philip, et al. (See Gottlieb, Abraham, assignor.)
- Hanbridge, Charles W. W. (See Rankin, Ernest L., assignor.)
- Hance, Lawrence W., Philadelphia, Pa. Locomotive-cylinder structure. 1,647,912; Nov. 1.
- Hance, Lawrence W., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Locomotive-cylinder structure. 1,649,687; Nov. 15.
- Hancock Bros. (See Bunce, Robert M., assignor.)
- Hancock, Harry P. (See Richards, D. W., and Hancock.)
- Hancock, Horace G. (See Carmil, J. F., and Hancock.)
- Hancock Manufacturing Co. (See Shinkenz, Victor R., assignor.)
- Hancock, Scott, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding generator. 1,652,526; Dec. 13.
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Huller and opener. 1,623,181; Apr. 5.
- Hand, Erle H., New Britain, Conn. Height-measuring device. 1,623,406; Apr. 5.
- Hand, Erle H., New Britain, Conn. Automatically recoiling height-measuring device. 1,643,985; Oct. 4.
- Hand, Jay A., and C. R. Pelton, assignors to The Pelton & Crane Company, Detroit, Mich. Dental light. 1,642,367; Sept. 13.
- Hand, John E., & Sons Company. (See Hand, John L. H., assignor.)
- Hand, John L. H., assignor to John E. Hand & Sons Company, Philadelphia, Pa. Nautical instrument. 1,614,240; Oct. 11.
- Haniel-Maatschappij H. Albert De Bary & Co. (See Sauveur, H., and Kollmeier, assignors.)
- Handelan, Daniel, Minneapolis, Minn. Air-moistening apparatus for hot-air furnaces. 1,632,836; June 21.
- Handelan, Daniel, Minneapolis, Minn. Ventilating and humidifying device. 1,646,243; Oct. 18.
- Handelan, Daniel, Minneapolis, Minn. Vapor-bath attachment for bathtubs. 1,652,437; Dec. 13.
- Handlan, Alexander H., Jr., St. Louis, Mo. Hose coupling. 1,626,729; May 3.
- Handlan, Alexander H., St. Louis, Mo. Signal lantern. 1,651,895; May 10.
- Handley, Edgar G. (See Handley, George B., and E. G.)
- Handley, George F. (See Myers, L. C., and Handley.)
- Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,614,297; Jan. 11.
- Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,635,408; July 12.
- Handley, George B. and E. G., Bradford, England. Endless cone belt. 1,633,363; July 12.
- Handoll, Percy G., Catford, London, England. Apparatus for cleaning boiler tubes and the like. 1,647,291; Nov. 1.
- Hands, Howard A., assignor to Hood Rubber Company, Watertown, Mass. Multiple heater control. 1,619,510; Mar. 1.
- Hands, Howard A., assignor to Hood Rubber Company, Watertown, Mass. Method relating to the manufacture of rubber water bottles. 1,644,829; Oct. 11.
- Handte, Elmer G., Pittsburgh, Pa. Kit for wagons, trucks, and the like. 1,621,536; Mar. 22.
- Handy Governor Corporation. (See Bull, Arthur A., assignor.)
- Handy & Harmen. (See Leach, Robert H., assignor.)
- Handy, James O., Pittsburgh, Pa., assignor to Primos Company. Lead product and producing the same. 1,651,886; Dec. 6.
- Handy, L. Gessford, New York, N. Y. Track for toy electric trains. 1,636,416; July 19.
- Handy, Ralph H., Berkeley, Calif. Wood preservative. 1,633,095; June 21.
- Hankelkus, John H. P., Pomeroy, Iowa. Ice tray. 1,643,137; June 1.
- Hanel, Franz, Berlin, assignor to Fritz König & Co. Gesellschaft mit beschränkter Haftung, Magdeburg, Germany. Buffer for motor vehicles. 1,640,320; Aug. 23.
- Hänsel, Schletttau, Germany. Ball-securing means. 1,626,529; Apr. 26.
- Hanes, P. H., Knitting Company. (See Hanes, Spencer B., assignor.)
- Hanes, Spencer B., assignor to P. H. Hanes Knitting Company, Winston-Salem, N. C. Undergarment. 1,650,207; Nov. 22.
- Hanes, Spencer B., assignor to P. H. Hanes Knitting Company, Winston-Salem, N. C. Making elastic bands for underwear. 1,650,208; Nov. 22.
- Haney, Earl, Macomb, Ill. Incubator-heating system. 1,645,380; Oct. 11.
- Haney, Thomas E. (See Ashleman, A. E., and Haney.)
- Haney, William J., North Vernon, Ind. Metal dancing-shoe sole. 1,636,908; July 26.
- Hanford, Orin A., assignor to The Federal Glass Company, Columbus, Ohio. Glass-forming apparatus. 1,633,333; June 7.
- Hanford, Orin A., deceased; A. J. Schlereth, administrator, assignor to The Federal Glass Company, Columbus, Ohio. Cooling molds. 1,632,962; June 21.
- Hanford, Orin A., deceased; A. J. Schlereth, administrator, assignor to The Federal Glass Company, Columbus, Ohio. Glass-forming apparatus. 1,632,963; June 21.
- Hanford, Orin A., assignor to The Federal Glass Company, Columbus, Ohio. Glass-forming machine and process. 1,633,634; June 28.
- Hanford, Orin A., Hanna, Alberta, Canada. Automatic gate opening and closing device. 1,654,461; Dec. 27.
- Hankins, Cyrus, Baltimore, Md., assignor to The Symington Company, New York, N. Y. Side frame. 1,621,249; Mar. 15.
- Hankins, Cyrus, Baltimore, Md., assignor to The Symington Company, New York, N. Y. Side frame. 1,637,696; Aug. 2.
- Hankinson, Wesley, and J. J. Knebel, Kansas City, Mo. Wrist-watch strap. 1,629,339; May 17.
- Hanks, Clifford C., Pearl, Ill. Vegetable and fruit slicer. 1,651,202; Nov. 29.
- Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y. Clip for pencils, penholders, and like articles. 1,622,316; Mar. 29.
- Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y. Desk set. 1,629,574; May 24.
- Hanley, Frank H., Detroit, Mich. Electric-iron switch. 1,646,911; Oct. 25.
- Hanley, Michael. (See Miller, J. T., and Hanley.)
- Hanley, William L., Jr., Bradford, Pa. Tunnel kiln. 1,614,470; Jan. 18.
- Hanley, William L., Jr., Bradford, Pa. Clay tempering and expressing apparatus. 1,626,675; May 3.
- Hanley, William L., Jr., Bradford, Pa. Firing ceramic products. 1,636,417; July 19.
- Hanley, William L., Jr., Bradford, Pa. Plant for manufacturing ceramic products. 1,641,582; Sept. 6.
- Hanley, William L., Jr., Bradford, Pa. Plant for manufacturing ceramic products. 1,641,583; Sept. 6.
- Hanley, William L., Jr., Bradford, Pa. Plant for manufacturing ceramic products. 1,641,584; Sept. 6.
- Hanley, William L., Jr., Bradford, Pa. Brickmaking plant. 1,641,585; Sept. 6.
- Hanley, William L., Jr., Bradford, Pa. Dry-pan grinding apparatus. 1,648,176; Nov. 8.
- Hanley, William L., Jr., Bradford, Pa. Tunnel kiln. 1,652,570; Dec. 13.
- Hanley, William L., Jr., Bradford, Pa. Tunnel kiln. 1,653,174; Dec. 20.
- Hanlon & Goodman Co. (See Jacob, George N., assignor.)
- Hanly, Charles E. (See Strubble, L. O., and Hanly.)

Hann, William H., Hockettstown, N. J. Tennis-court marker. 1,651,271; Nov. 29.

Hanna, Clinton R. (See Siopean, J., and Hanna.)

Hanna, Clinton R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone receiver. 1,624,338; Apr. 12.

Hanna, Clinton R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Loud-speaker unit. 1,630,380; May 31.

Hanna, Clinton R. (See Siopean, J., and Hanna.)

Hanna, Clinton R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Loud-speaking telephone. 1,645,282; Oct. 11.

Hanna, David B., Park Ridge, Ill. Street-lighting equipment. 1,634,287; Apr. 12.

Hanna, David B., Chicago, Ill. Method of and apparatus for making concrete posts. 1,651,819; Dec. 6.

Hanna, Ellsworth J., Ottumwa, Iowa. Reduction block. 1,628,403; May 10.

Hanna Engineering Works. (See Gates, Philetus W., assignor.)

Hanna, Howard M., et al. (See Wetherbee, Herbert E., assignor.)

Hanna, Howard M., et al. (See Wetherbee, H. E., and Jacobus, assignors.)

Hanna, John N., Orway, Colo. Pressure-operated circuit breaker. 1,616,317; Feb. 1.

Hanna, Joseph F., Philadelphia, Pa. Can and jar closure. 1,651,023; Nov. 29.

Hanna, Richard J. (See Hanna, Richard W. and R. J.)

Hanna, Richard W., Piedmont, and R. J. Hanna, Burgenme, assignors. Diesel assignments, to Standard Oil Company of California, San Francisco, Calif. Distillation of petroleum oils. 1,653,431; Dec. 20.

Hanna, William G., et al. (See Murphy, Daniel R., assignor.)

Hannaford, Cleon M., assignor to Car Devices Company, Richmond, Va. Front draft lug. 1,613,167; Jan. 4.

Hannaford, Cleon M., assignor to Car Devices Company, Richmond, Va. Front draft lug. 1,613,163; Jan. 4.

Hannah, Thomas. (See Smily, W. E., Hannah, and Winans.)

Hannan, George C., Freeport, and J. W. Schede, Mount Vernon, assignors to Rubberstone Corporation, New York, N. Y. Flooring tile. 1,637,301; July 26.

Hannan, George C., Freeport, and J. W. Schede, Mount Vernon, assignors to Rubberstone Corporation, New York, N. Y. Flooring tile. 1,637,302; July 26.

Hannan, Frederick, Huddersfield, England. Link chain. 1,649,956; Nov. 22.

Hannauer Car Retarder Company, The. (See Frölich, Ernst, assignor.)

Hannauer Car Retarder Company. (See Hannauer, G., and Wilcox, assignors.)

Hannauer, George, West Hammond, Ill., and E. M. Wilcox, Hammond, Ind., assignors to Hannauer Car Retarder Company, Chicago, Ill. Track brake. 1,612,865; Jan. 4.

Hannauer, George, and E. M. Wilcox, Calumet City, assignors to Hannauer Car Retarder Company, Chicago, Ill. Control mechanism for brakes. 1,638,650; Aug. 9.

Hannauer, George, Calumet City, Ill., and E. M. Wilcox, Hammond, Ind., assignors to Hannauer Car Retarder Company, Chicago, Ill. Track-brake mechanism and control means therefor. 1,638,631; Aug. 9.

Hannebohn, Curt W., A., assignor to A. Kellner, Berlin-Charlottenburg, Germany. Motor-carriage hood. 1,635,704; Dec. 27.

Hanneman, August. (See Flischer, Joseph, assignor.)

Hannig, Edward P., Chicago, Ill. Light and control therefor. 1,641,167; Sept. 6.

Hannum Manufacturing Company. (See Hassig, Edward, assignor.)

Hannum, William A., Grand Lake, Colo. Grate. 1,640,771; Aug. 30.

Hanny, Charles E., Unionville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric safe. 1,640,701; Aug. 30.

Hanny, Charles E., Unionville, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric-switch-operating means. 1,650,348; Nov. 22.

Hanschke, Adelheid, née Sachs, Berlin, Germany. Flying machine. 1,631,861; June 7.

Hanscom, William E., assignor of forty per cent to M. Kilgman, Portland, Ore. Selective gummed-tape dispensing machine. 1,652,715; Dec. 13.

Hansell, Walter, Brooklyn, N. Y. Musical instrument. 1,631,862; June 7.

Hansen, A. L., Mfg. Co. (See Hansen, Augie L., assignor.)

Hansen, Abel, Perth Amboy, N. J. Kiln. 1,649,029; Nov. 15.

Hansen, Albert E., Chicago, Ill. Loop aerial frame. Des. 74,147; Dec. 27.

Hansen, Alfred J., Storm Lake, Iowa. Teething device. 1,618,189; Feb. 22.

Hansen, Augie L., Evanston, Ill. Acetylene lamp. 1,644,780; Oct. 11.

Hansen, Augie L., assignor to A. L. Hansen Mfg. Co., Chicago, Ill. Display stand. Des. 71,647; Feb. 21.

Hansen, Augie L., assignor to The A. L. Hansen Mfg. Co., Chicago, Ill. Display stand. Des. 72,672; May 17.

Hansen, Augie L., assignor to A. L. Hansen Mfg. Co., Chicago, Ill. Lock and method of manufacture. 1,624,051; Apr. 12.

Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel centralizer. 1,614,123; Jan. 11.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Gas-compressor valve. 1,614,124; Jan. 11.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,617,518; Feb. 15.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,621,250; Mar. 15.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Engine. 1,625,854; Apr. 19.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Broaching attachment. 1,627,737; May 10.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,632,373; June 14.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,632,387; June 21.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotation mechanism for rock drills. 1,633,526; June 21.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Hoist. 1,635,887; July 12.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Channeller steel. 1,636,604; July 19.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,636,605; July 19.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,636,632; July 19.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Disk valve for rock drills. 1,637,185; July 26.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Feed-screw motor for rock drills. 1,637,186; July 26.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,643,069; Sept. 20.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mud guard for submarine drills. 1,645,989; Oct. 18.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,646,091; Oct. 18.

Hansen, Charles S., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Broaching attachment. 1,646,090; Oct. 18.

Hansen, Conrad T., Detroit, Mich., assignor to The American Motor Body Corporation, Philadelphia, Pa. Car seat. 1,614,954; Jan. 18.

Hansen, Conrad T., Detroit, Mich., assignor to The American Motor Body Corporation, Philadelphia, Pa. Window stop. 1,632,132; June 14.

Hansen, Dewey C., Kansas City, Mo. Soldering flux and cement applying device for can-making machines. 1,622,761; Mar. 29.

Hansen, Edward B. (See Hawkins, B. H., and Hansen.)

Hansen, Emil J., Green Bay, Wis. Napkin-dispensing device. 1,647,000; Oct. 25.

Hansen, Francis F., assignor to The Star Shutter Company, Chicago, Ill. Shutter cover for radiators. 1,638,847; Aug. 16.

Hansen, Fred E. (See Frazier, J. W., and Hansen.)

Hansen, Hans C. (See Reimer, J. A., and Hansen.)

Hansen, Harold N., Highwood, assignor of an undivided interest to Henry Giessel Company, Chicago, Ill. Ventilator. 1,645,283; Oct. 11.

Hansen, Henry, assignor to J. M. Johnson, Chicago, Ill. Corner-post spotlight. Des. 71,970; Feb. 8.

Hansen, Henry A., Sturgeon Bay, Wis. Stand for supporting washtubs, table tops, and the like. 1,643,271; Sept. 20.

Hansen, Henry J., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Dust cap. 1,620,887; Mar. 15.

Hansen, Herman, Kansas City, Mo. Automobile signaling apparatus. 1,616,221; Feb. 1.

Hansen, Herman C. (See Evans, F. J., and Hansen.)

Hansen, Hermanus A., San Francisco, Calif. Screen door. 1,633,274; Dec. 20.

Hansen, Jens, Superior, Wis. Portable derrick. 1,653,432; Dec. 20.

Hansen, John, Bettendorf, assignor of four twenty-fifths to W. H. Martin, ten twenty-fifths to T. S. Cunningham, and one twenty-fifth to T. McQuarrie, Davenport, Iowa. Mechanical golf instructor and exerciser. 1,633,527; Aug. 21.

Hansen, John, Bettendorf, assignor of four twenty-fifths to W. H. Martin, ten twenty-fifths to T. S. Cunningham, and one twenty-fifth to T. McQuarrie, Davenport, Iowa. Mechanical golf instructor and exerciser. 1,634,102; June 28.

- Hansen, John, Bettendorf, assignor of four twenty-fifths to W. H. Martin, ten twenty-fifths to T. S. Cunningham, and one twenty-fifth to T. McQuarrie, Davenport, Iowa. Mechanical golf instructor and exciser. 1,634,103; June 28.
- Hansen, John, Milltown, Mount. Fishing and hunting otter. 1,642,582; Sept. 13.
- Hansen, John, Bettendorf, assignor to Davenport Manufacturing Company, Inc., Davenport, Iowa. Power ball press. 1,645,906; Oct. 18.
- Hansen, John, Greenwich, Conn., assignor to Abendroth Brothers, Port Chester, N. Y. Gas range. Des. 73,697; Oct. 25.
- Hansen, John C., jr., Newark, N. J. Leveling device. 1,627,476; May 3.
- Hansen, Lorentz E., Bergen, Norway. Rotatable block housing. 1,628,972; May 17.
- Hansen Manufacturing Company, The. (See Frazier, J. W., and Hansen, assignors.)
- Hansen, Marius H., Chicago, Ill. Platform scale. 1,633,290; Aug. 9.
- Hansen, Martin. (See Sherburne, Rufus B. and L. G., and Hansen.)
- Hansen, Merritt R. (See Stertzbach, H. W., and Hansen.)
- Hansen, Norman A., Lake Bluff, assignor to Abbott Laboratories, North Chicago, Ill. Anesthetic compound. 1,652,763; Dec. 13.
- Hansen, Oswald H., Port Washington, Wis., assignor to Hansen Canning Machinery Corporation. Can-filling machine. 1,612,311; Jan. 4.
- Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation. Cedarburg, Wis. Preserving fruit. 1,625,207; Apr. 19.
- Hansen, Raymond, Cudahy, Wis., assignor to The Risk Rubber Company, Chicopee Falls, Mass. Vulcanizing apparatus. 1,640,500; Aug. 30.
- Hansen, Roland C., Milwaukee, Wis. Boat seat. 1,617,805; Feb. 15.
- Hansen, Royal J., Milwaukee, Wis. Furnace carburetor. 1,620,966; Mar. 15.
- Hansen, Sinius M., assignor, by mesne assignments, to Victor Shoe Machinery Company, Lynn, Mass. Priming and vacuum tank. 1,640,404; Aug. 30.
- Hansen, Sinius M., Lynn, assignor to H. M. Eaton, trustee, Nahant, Mass. Rotor. 1,651,820; Dec. 6.
- Hansen, Theodore N., Seattle, Wash. Reproducing device. 1,645,752; Oct. 18.
- Hansen, Valdemar E., Chicago, Ill. Picture-frame construction. 1,637,188; July 26.
- Hansew, George G. (See Tupp, W. B., and Hanshaw.)
- Hansman, John P. and M. F., Des Moines, Iowa. Score-card-holder attachment for golf bags. 1,650,070; Nov. 22.
- Hansman, Marcus F. (See Hansman, John P. and M. F.)
- Hansmann, Paul, and Herman Strack, Long Prairie, Minn., assignors, by mesne assignments, to the said Hansmann. Anti-side-draft plow hitch. 1,621,633; Mar. 22.
- Hansmann, Paul, and H. Strack, Long Prairie, Minn., assignors, by mesne assignments, to the said Hansmann. Antiside draft-plow hitch. 1,626,676; May 3.
- Hanson, Albert J., Arlington, assignor to American Metalurgical Corporation, Boston, Mass. Electric resistance furnace. 1,652,200; Dec. 13.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Feed mechanism for tools. 1,613,350; Jan. 4.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Gauge. 1,613,997; Jan. 11.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Apparatus for and method of truing abrasive screws. 1,623,113; Apr. 6.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Metal-working machine. 1,624,868; Apr. 12.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Metal-working machine. 1,627,090; May 3.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Grinding wheel. 1,640,991; Aug. 30.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Method of and apparatus for grinding threaded members and the like. 1,640,992; Aug. 30.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Metal-working machine. 1,640,993; Aug. 30.
- Hanson, Bengt M. W., deceased, Hartford, Conn., by E. A. Hanson and C. E. Whitney, executors. Metal-working machine. 1,640,994; Aug. 30.
- Hanson Brothers Scale Company. (See Hanssen, Stan L., assignor.)
- Hanson, C. H., Company, The. (See Borresen, Helge A., assignor.)
- Hanson, Christian, Chicago, Ill., assignor to Advance Parcolite Corporation, Chicago, Ill. Cluster construction. 1,635,888; July 12.
- Hanson, Clinton H., assignor to The Motor Player Corporation, Chicago, Ill. Actuating player pianos. 1,622,827; Mar. 29.
- Hanson, Edward, Cleveland, Ohio. Tool. 1,645,753; Oct. 18.
- Hanson, Edwin. (See Stendahl, L., and Hanson.)
- Hanson, Einar A., et al., executors. (See Hanson, Bengt M. W.)
- Hanson, Emma B., New Rochelle, N. Y. Wardrobe-trunk construction. 1,621,321; Mar. 15.
- Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Heating stove using liquid vaporizing fuel. Ref. 6,825; May 17.
- Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Heating stove using liquid vaporizing fuel. 1,615,378; Jan. 25.
- Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Support for folding camp stoves and ovens. 1,617,896; Feb. 15.
- Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Oven for camp stoves. 1,626,035; Apr. 26.
- Hanson, Hans E., assignor of one-half to A. E. Carlson, Minneapolis, Minn. Plaster board. 1,651,951; Dec. 6.
- Hanson, Hans F., Iuwood, Iowa. Harrow grinder. 1,642,583; Sept. 13.
- Hanson, Hans F., Chicago, Ill. Machine for preparing mossed frames for floral wreaths. 1,624,238; Apr. 12.
- Hanson, Hans F., Cambridge, Minn. Heating apparatus. 1,659,411; Aug. 28.
- Hanson, Hans P., Cambridge, Minn. Heat distributor for automobiles. 1,648,269; Nov. 8.
- Hanson, Hans P., assignor to White Products Company, Chicago, Ill. Theft-preventing device. 1,613,794; Jan. 11.
- Hanson, Henry, et al. (See Carlson, Gustave O., assignor.)
- Hanson, Henry E., Nevis, Minn. Well screen. 1,638,731; Aug. 9.
- Hanson, Henry P. (See Grimes, Frank M., assignor.)
- Hanson, Herman, Minneapolis, Minn. Heater for automobiles. 1,621,199; Mar. 15.
- Hanson, Hugo H., assignor to Tarratine Manufacturing Co. Inc., Bangor, Me. Soap compound and making the same. 1,623,340; Apr. 5.
- Hanson, Isaac, Blackwell, Okla. Highway-marking device. 1,624,408; Apr. 2.
- Hanson, John, Grafton, N. Dak. Weed eradicator. 1,613,997; Jan. 11.
- Hanson, John R., Alexandria, Minn. Driving mechanism for sewing-machine batteries. 1,636,995; July 26.
- Hanson, Lloyd L. (See Perry, N. G., and Hanson.)
- Hanson, Merrill J. (See Gaffney, J. A., and Hanson.)
- Hanson, Nils K. F., Stockholm, Sweden. Boiling fibrous matters. 1,634,143; June 28.
- Hanson, Robert. (See Edwards, E., Jones, and Hanson.)
- Hanson, Roy E., Los Angeles, Calif. No-flow alarm-circuit closer. 1,627,896; May 10.
- Hanson, Roy E., assignor of one-half to B. Jones, Los Angeles, and one-half to J. B. Morey, Culver City, Calif. Flow indicator. 1,639,342; Aug. 16.
- Hanson, Samuel L., Albert Lea, Minn. Trip head and rear attachment for hay carriers. 1,613,455; Jan. 4.
- Hanson, Samuel L., Albert Lea, Minn. Adjustable cattle stall. 1,653,275; Dec. 20.
- Hanson, Sigvort, Racine, Wis. Dispensing machine. 1,633,207; June 21.
- Hanson & Van Winkle Company, The. (See Hall, Wesley F., assignor.)
- Hanson & Van Winkle Company, The. (See King, Willis R., assignor.)
- Hanson & Van Winkle Company, The. (See Powell, Everton B., assignor.)
- Hanson & Van Winkle Company, The. (See Powell, E. and Todd, assignors.)
- Hanssen, Christian M., Mjondalen, assignor to A/S. Thunes mek. Verksted, Skoyjen, near Oslo, Norway. Primary strainer for cellulose, wood pulp, etc. 1,629,619; May 24.
- Hanson, Stan L., assignor to Hanson Brothers Scale Company, Chicago, Ill. Scale. 1,650,349; Nov. 22.
- Hanson, Soren, assignor of one-half to H. T. Anderson, Butler, Pa. Making truck lever connections. 1,625,804; Apr. 26.
- Hanson, Soren, assignor of one-half to H. T. Anderson, Butler, Pa. Truck lever connection. 1,625,805; Apr. 26.
- Hanson, Soren, assignor to J. H. Allman, trustee, Butler, Pa. Draft-gear apparatus. 1,635,409; July 12.
- Hanton, Henry H., assignor to Frain-Slagmaker Hardware Co., Inc., Lancaster, Pa. Safety device for spare tires. 1,613,924; Feb. 22.
- Hanton, Peter S., and J. Dick, Kew, Victoria, Australia. Water heater. 1,630,382; May 31.
- Hantscher, Joseph, Appleton, Wis. Cigarette-dispensing machine. 1,638,732; Aug. 9.
- Hanus, Raymond, Brussels, Belgium, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,615,837; Feb. 1.
- Hanzel, Stanley F., Chicago, Ill. Playing card. Des. 72,013; Feb. 15.
- Haen, Harry A., and H. Bolce, Newburgh, N. Y., assignors to E. du Pont de Nemours & Company, Wilmington, Del. Rolling machine. 1,633,096; June 21.
- Hapgood, Clarence H., Toledo, Ohio. Safety razor. 1,644,187; Oct. 4.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,635,996; July 13.

- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,640,073; Aug. 23.
 Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Platter-retaining device. 1,640,074; Aug. 23.
 Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Balancing device. 1,651,272; Nov. 29.
 Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Vacuum pump. 1,635,271; July 12.
 Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Vacuum pump. 1,637,484; Aug. 2.
 Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Butter-making apparatus. 1,650,625; Nov. 29.
 Hapgood, Oscar D., Montague, Mass., assignor to Goodell-Pratt Company, Greenfield, Mass. Level. 1,624,339; Apr. 12.
 Happe, Christopher, Whittier, Calif. Telegraph machine. 1,648,270; Nov. 8.
 Happel, Albert W., Toledo, Ohio, assignor, by mesne assignments, to The Ulme Ice-Scoring Machine Company, Wilmington, Del. Reciprocating feeder. 1,631,125; June 7.
 Happel, Wilhelm, Oppenheim, Germany. Manufacturing clothes pegs of wire. 1,635,619; July 12.
 Harada, Yozayemon, Mountain View, Calif. Automobile signal. 1,613,456; Jan. 4.
 Harbaugh, Orpha, et al. (See Clark, Dolph M., assignor.)
 Harbeck, Martin, Grossfottbeck, near Hamburg, assignor to Heidenreich & Harbeck, Hamburg, Germany. Bevel-wheel-shaping device operating by rolling movements. 1,625,722; Apr. 19.
 Harber, Edward N. (See Krick, Homer, assignor.)
 Harber, Laurence S., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Panning machine. 1,638,014; June 21.
 Harber, Marie E., Richmond, Ky. Cleaning implement. 1,641,034; Aug. 30.
 Harbert, Victor H., Springfield, assignor to E. P. Smith, Chicago, Ill. Bracket for retaining valves. 1,652,127; Dec. 6.
 Harblison-Walker Refractories Company. (See Schlotterer, G. K., and Youngman, assignors.)
 Harbottle, Henry R. (See Telford, Henry R., assignor.)
 Harcourt, Bernard W. (See Hewitt, J. H., and Harcourt.)
 Harcourt, Martha D., administratrix. (See Harcourt, Stillwell R.)
 Harcourt, Stillwell R., deceased, Chicago, Ill.; M. D. Harcourt, administratrix. Player-piano mechanism. 1,625,253; Apr. 19.
 Hard, Malcolm, Flushing, assignor to The Superheater Company, New York, N. Y. Heating means for injectors. 1,651,701; Dec. 6.
 Hardacker, William E., assignor to American Plumbing and Heating Co., Minneapolis, Minn. Truck. 1,645,485; Oct. 11.
 Hardage, Lewis W., Nashville, Tenn. Combined hip and spine patch. 1,614,125; Jan. 12.
 Hardcastle, John H., Goodlettsville, Tenn. Current motor. 1,645,486; Oct. 11.
 Harden, William R., Oakland, Calif. Band sawing machine. 1,651,702; Dec. 6.
 Hardesty, Edwin C., Jr., Abernathy, Tex. Mousetrap. 1,621,381; Mar. 22.
 Hardesty, J. E., et al. (See Donnellson, Blanche, assignor.)
 Hardesty, Shortridge. (See Brown, T. E., jr., Williams, and Hardesty.)
 Hardesty, Shortridge, Larchmont, and W. G. Williams, Flushing, N. Y., assignors to Vaddell & Hardesty, New York, N. Y. Lift bridge. 1,646,403; Oct. 25.
 Hardie, Jessie, Albany, N. Y. Cooking kettle. 1,625,655; Apr. 19.
 Hardie, John C., Helena, Mont. Pea sheller. 1,615,081; Jan. 18.
 Hardie, Joseph H., Morecambe, England. Apparatus for washing glasses and like vessels. 1,633,662; June 28.
 Hardiman, James S., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Article-arranging device. 1,644,999; Oct. 11.
 Hardin, Frank H., Bronxville, N. Y. Car construction. 1,622,582; Mar. 29.
 Hardin, Frank H., Bronxville, N. Y. Reinforcing car bracket. 1,622,583; Mar. 29.
 Hardin, Frank H., Bronxville, N. Y. Reinforcing car bracket. 1,622,584; Mar. 29.
 Hardin, Lewis H., Charlotte, N. C., assignor to Southern Electrical Equipment Co. Metal cross arm for supporting electric conductors. 1,640,828; Aug. 30.
 Harding, Charles D., Beloit, Wis. Device for controlling both the ignition circuit and the supply of gas to the carburetor. 1,632,133; June 14.
 Harding, Dana E., Arlington, assignor to Harding Engineering Company, East Boston, Mass. Cheeking machine. 1,621,952; Mar. 22.
 Harding, Dana E., Arlington, assignor to Wright-Harding Company, East Boston, Mass. Glazing machine. 1,633,546; June 21.
 Harding, Dana E., Arlington, Mass., assignor to Harding Engineering Company, East Boston, Mass. Chain drive glazing machine. 1,635,081; July 6.
 Harding, Dana E., Arlington, assignor to Harding Engineering Company, Boston, Mass. Cheeking machine. 1,648,845; Nov. 8.
 Harding, Dana E., Arlington, assignor to Harding Engineering Company, East Boston, Mass. Rotary glazing machine. 1,649,769; Nov. 15.
 Harding, Dana E., Melrose, assignor to Harding Engineering Company, East Boston, Mass. Marking machine. 1,641,682; Aug. 30.
 Harding Engineering Company. (See Harding, Dana E., assignor.)
 Harding, Howard V., Hudson, N. Y., assignor to Gifford-Wood Company. Trolley-bucket-rope take-up. 1,631,030; May 31.
 Harding, John A., Toledo, Ohio. Shock absorber. 1,613,093; Jan. 4.
 Harding, Joseph G., Jackson, assignor of one-half to W. R. Casparis, Columbus, and one-half to S. E. Stephenson, Jackson, Ohio. Manufacturing slag cement. 1,627,237; May 3.
 Hardine Brothers, Inc. (See Hardinge, Franklin, assignor.)
 Hardinge Brothers, Inc. (See Porst, Frederic, assignor.)
 Hardinge, Franklin, assignor to Hardinge Brothers, Incorporated, Chicago, Ill. Oil-burning mechanism. 1,639,470; Mar. 1.
 Hardinge, Franklin, assignor to Hardine Brothers, Incorporated, Chicago, Ill. Oil burner. 1,621,537; Mar. 22.
 Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Oil burner. 1,626,116; Apr. 26.
 Hardin, Edwin A., Los Angeles, assignor, by First National Bank & Trust Co., Santa Paula, Calif. Underreamer for well drilling. 1,615,379; Jan. 25.
 Hardison, Edwin A., Los Angeles, assignor to First National Bank & Trust Co., Santa Paula, Calif. High-pressure steam boiler. 1,633,663; June 28.
 Hardison, Frederic. (See Banks, J. G., and Hardman.)
 Hardman, Frederick J., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,641,383; Sept. 6.
 Hardman, Frederick J., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,641,428; Sept. 6.
 Hardt, Arthur, Godesberg, Germany. Pump. 1,649,347; Nov. 15.
 Hardtmann, Max. (See Hentrich, W., and Hardtmann.)
 Hardway, Roy R., Bartlesville, Okla. Automatic gas cut-off. 1,617,156; Feb. 8.
 Hardwick-Etter Company. (See Streun, John A., assignor.)
 Hardy, Arthur J., assignor to Pike Manufacturing Company, Pike, N. H. Abrasive tool. 1,617,592; Feb. 15.
 Hardy, Charles. (See Rappeport, W. A., and Hardy.)
 Hardy, Charles, assignor to Amco Products, Inc., New York, N. Y. Fastening means. 1,612,918; Jan. 4.
 Hardy, Charles, assignor to Amco Products Inc., New York, N. Y. Variable condenser. 1,620,020; Mar. 8.
 Hardy, Charles R., Mount Vernon, assignor to The Superheater Company, New York, N. Y. Locomotive-smoke-box arrangement. 1,616,625; Jan. 25.
 Hardy, Clara B., Los Angeles, Calif. Mechanical manipulating mechanism. 1,617,593; Feb. 15.
 Hardy, John, Brooklyn, N. Y. Tea-dispensing machine. 1,636,910; July 26.
 Hardy, Sirlene, Savannah, Ga. Lath-cutting machine. 1,616,111; Mar. 1.
 Hardy, William J., Auburn, near Sydney, New South Wales, Australia. Accelerator pedal. 1,616,367; Feb. 1.
 Hare, Charles N., Lima, Ohio. Ocean compressed-air power. 1,623,341; Apr. 5.
 Hare, Franklin C., assignor to J. W. Miller, Co., Rockford, Ill. Incubator. 1,618,005; Feb. 15.
 Hare, Jacob, Chicago, Ill. Cold-air grate. 1,652,128; Dec. 6.
 Haren, Urban C. (See Freeman W. B., Haran, and Hartung.)
 Harford, Albert K., Oakland, assignor to New Metal Products Company, Emeryville, Calif. Arc-welding system. 1,645,049; Oct. 11.
 Harget, Frederick, Toledo, Ohio. Treating marble. 1,613,393; Jan. 4.
 Hargrave, Clarence M., assignor to The Formica Insulation Company, Cincinnati, Ohio. Manufacturing laminated products. 1,634,830; July 5.
 Hargrave, Fred M., Cedar Rapids, Iowa. Road-building machine. 1,619,614; Mar. 1.
 Hargrave, Fred M., Cedar Rapids, Iowa. Planing or scarifying mechanism. 1,634,144; June 28.
 Hargrave, Fred M., Cedar Rapids, Iowa. Surface breaking and loosening machine. 1,644,582; Oct. 4.
 Hargrave, Fred M., Cedar Rapids, Iowa. Cutting mechanism. 1,644,583; Oct. 4.
 Hargrave, John M., Cincinnati, Ohio. Clamp. 1,638,848; Aug. 18.
 Hargrave, John M., Cincinnati, Ohio. Clamp. 1,639,561; Aug. 16.
 Hargreaves, Herbert, Philadelphia, Pa. Automobile brake. 1,643,890; Sept. 27.
 Hargreaves, Henry C., et al. (See Griffin, James T., assignor.)
 Hargroves, Linwood W., and H. L. Herman, Augusta, Ga. Envelope. 1,629,788; May 24.
 Harker, Oliver A., jr. (See Moore, Dorsey E., assignor.)
 Harker, Percy, et al. (See Wright, Fred W., assignor.)

- Harkin, Harry E., Ridgefield Park, N. J. Automatic culinary unichine. 1,618,190; Feb. 22.
- Harkin, Walter J., Seattle, Wash. Electrically-controlled fuel-inlet device. 1,615,512; Jan. 25.
- Harkins, James J., Pittsburgh, assignor of one-fifth to O. F. Orman, Sandy Lake, Pa. Plug-bar mechanism for piercing mills. 1,647,693; Nov. 1.
- Harkley, L. W. (See Guise, John D., assignor.)
- Harkness, Etta J., Seattle, Wash. Combination comb holder. 1,646,138; Oct. 11.
- Harlem, Lewis W., et al. (See Ramin, Ezra, assignor.)
- Harley-Davidson Motor Co. (See Strauch, Eugene, assignor.)
- Harley, John F. (See Tooker, J. N., and Harley.)
- Harley, Lee M. (See Wade, H. R., and Harley.)
- Harley, William R., Los Angeles, Calif. Double swivel hanger and support for punching bags and the like. 1,628,973; May 17.
- Harling, Walter, Cleveland, Ohio. Combination light. 1,645,487; Oct. 11.
- Harlow, John B., Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control and supervisory system. 1,616,186; Feb. 1.
- Harmon, Walter F., Lynchburg, Va. Laundry assorting rack. 1,625,316; Apr. 19.
- Harman, Montie M., Frederic, Mich. Wrench. 1,641,484; Sept. 6.
- Harmon, Charles N., and J. P. Dames, Ann Arbor, Mich. Advertising device. 1,653,635; June 28.
- Harmon, George A., assignor to The American Reflex-Lite Company, Columbus, Ohio. Automatic connector. 1,618,825; Jan. 11.
- Harmon, James A. (See Nelson, F. L., and Harmon.)
- Harmon, Jane, Toledo, Ohio. Clothes-protecting device. 1,618,157; Feb. 15.
- Harmon, Katrina T. (See Harmon, Lawrence E., assignor.)
- Harmon, Lawrence E., assignor to K. T. Harmon, Buffalo, N. Y. Trolley wheel. 1,620,203; Mar. 8.
- Harmon, Nellie L., Bowerston, Ohio. Automatic feeder. 1,616,368; Feb. 1.
- Harmon, Nellie L., Bowerston, Ohio. Combined bumper and feeder. 1,617,248; Feb. 8.
- Harmon, Roy E., Lockland, Ohio. Supporting the contents in freight cars. 1,637,748; Aug. 2.
- Harmon, William I., Langley, Wash. Animal trap. 1,638,767; Aug. 9.
- Harney, Minnie M., Canton, Ohio. Mail-box station. 1,629,620; May 24.
- Harnett, Aubrey D., Racine, Wis. Picture-projecting device. 1,616,747; Feb. 8.
- Harnett, Lewis D., assignor to The Buckeye Blower Company, Columbus, Ohio. Radiator. 1,653,664; June 28.
- Harnischfeger Corporation. (See Huber, Johannes S., assignor.)
- Harnischfeger Corporation. (See Ljungkull, Rolf, assignor.)
- Harnish, John D. (See Weisgarver, C. E., and Harnish.)
- Harold, Minerva E., Flushing, N. Y. Adjustable head protector. 1,627,847; May 10.
- Harper, Alexander and S. A., Dunedin, New Zealand. Aerial propeller. 1,621,983; Mar. 22.
- Harper, Alexander and S. A., Dunedin, Otago, New Zealand. Propeller. 1,654,616; July 5.
- Harper Electric Furnace Corporation. (See Fitzgerald, Francis A. J., assignor.)
- Harper Electric Furnace Corporation. (See Fitz Gerald, Francis A. J., assignor.)
- Harper Electric Furnace Corporation. (See Kelleher, James, assignor.)
- Harper, Elmer E., Kansas City, Mo. Dry-material-feeding machine. 1,616,970; Feb. 8.
- Harper, Ernest H., Oakland, Calif. Boat. 1,622,508; Mar. 29.
- Harper, George H., Chicago, Ill. Table-cover holder. 1,621,720; Mar. 22.
- Harper, Joe S. (See Kelly, James E., assignor.)
- Harper, John, Portland, Oreg. Control for electric flatirons. 1,635,041; July 5.
- Harper, John L., assignor to American Soda Fountain Company, Boston, Mass. Drinking-glass washer. 1,645,627; Dec. 27.
- Harper, Le Roy, Kenosha, Wis. Universal joint. 1,620,549; Mar. 8.
- Harper, Oswald C., Saskatoon, Saskatchewan, Canada. Automobile bed. 1,620,346; Mar. 8.
- Harper, Philip S., Chicago, Ill. Valve. 1,641,675; Sept. 6.
- Harper, Stewart A. (See Harper, Alexander and S. A.)
- Harper, William D., Waltham, Mass. Vehicle body support. 1,652,357; Dec. 13.
- Harpster, Clyde C. (See Vaughan, V. G., and Harpster.)
- Harpstrie, Augustus J., Los Angeles, Calif. Tire filler. 1,646,480; Oct. 25.
- Harpstrie, Augustus J., Los Angeles, Calif. Tire cushion. 1,650,271; Nov. 22.
- Harrison, Herman R., South Hadley, assignor to American Writing Paper Company, Holyoke, Mass. Four-drinker-wire screen. 1,616,222; Feb. 1.
- Hart, Meade W., and W. J. Baker, Tylersburg, Pa. Treatment of gasoline. 1,619,206; Mar. 1.
- Harriman, James H., San Francisco, Calif. Locking means for rotary members. 1,637,524; Aug. 2.
- Harriman, Louis H., trustee. (See Brittain, George E., assignor.)
- Harrington, Alfred L., Rosslyn Farms, Pa., assignor to Pittsburgh Plate Glass Company. Plate-glass surfacing car. 1,631,126; June 7.
- Harrington, Clinton O., assignor to Aldobilt Company, Chicago, Ill. Relay. 1,617,594; Feb. 15.
- Harrington, Clinton O., assignor to Aldobilt Company, Chicago, Ill. Lantern. 1,617,595; Feb. 15.
- Harrington, Ernie L., Saskatoon, Saskatchewan, Canada, assignor to Westinghouse Lamp Company. Controlling the distribution of electric discharge. 1,616,044; Feb. 1.
- Harrington, Jesse F., Memphis, Tenn. Switch. 1,626,463; Apr. 26.
- Harrington, John C., Manchester Depot, Vt. Brake mechanism. 1,630,178; May 24.
- Harrington, John H., Baie D'Urfe, Quebec, assignor of one-third to G. W. Robb, Montreal, Quebec, Canada. Treatment of water. 1,623,342; Apr. 5.
- Harrington, John P., et al. (See Newton, Noel D., and J. A. assignors.)
- Harrington, Joseph, Riverside, Ill., assignor, by mesne assignments, to Riley Stoker Company, Worcester, Mass. Stoker. 1,613,324; Jan. 4.
- Harrington, William S., and G. E. Off, Keokuk, Iowa. Electric-way indicator. Des. 71,941; Feb. 1.
- Harris, Albert W., Glens Falls, N. Y. Seam for woven wire fabrics. 1,632,964; June 21.
- Harris, Alex, Chicopee Falls, assignor to Draper Corporation, Hopedale, Mass. Rocker-shaft bearing for looms. 1,618,125; Feb. 15.
- Harris, Andrew. (See Hassall, J. K., and Harris.)
- Harris, Archer H., Barberton, Ohio, assignor, by mesne assignments, to The Fafrin Bearing Company, New Britain, Conn. Shackle for vehicle springs. Re16,519; Jan. 4.
- Harris, Arthur W., assignor to The Amplan Corporation of America, New York, N. Y. Sound-reproducing instrument. 1,648,226; Nov. 8.
- Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Shoe-display stand. 1,639,290; Aug. 16.
- Harris, Blaine H., assignor to Brown and Bigelow, St. Paul, Minn. Making bottle-cap lifters. 1,652,201; Dec. 13.
- Harris Caloric Company, The, et al. (See Bucknam, James H., assignor.)
- Harris Caloric Company, The. (See Campbell, Lorn, jr., assignor.)
- Harris Caloric Company, The. (See Harris, John, assignor.)
- Harris, Carl C. (See Riggs, H. C., and Harris.)
- Harris, Carlton G., assignor of one-third to J. R. Rathburn, Denver, Colo. Lifting jack. 1,653,276; Dec. 20.
- Harris, Charles J., assignor of one-half to C. M. Duncombe, Hartford, Mich. Pipe wrench. 1,644,522; Oct. 4.
- Harris, De Witt C., Pineland, Fla., assignor to Burgess Battery Company, Madison, Wis. Flash-light case. 1,644,125; Oct. 4.
- Harris, De Witt C., Pineland, Fla., assignor to Burgess Battery Company, Madison, Wis. Flash-light case. 1,644,126; Oct. 4.
- Harris, Edward N. (See Umsted, B. T., and Harris.)
- Harris, Ernest O. (See Dickens, J. R., Harris, and Warner.)
- Harris, Ford W., Los Angeles, Calif. Gas and oil separator. 1,620,096; Mar. 8.
- Harris, Ford W., assignor to Magnetic Signal Co., Los Angeles, Calif. Rail spreader. 1,634,664; July 5.
- Harris, Frank A. (See Hirsch, H. M., and Harris.)
- Harris, Frank C., Brighton, Mass., assignor to The American Monorail Company, Cleveland, Ohio. Adjustable hanger clamp. 1,613,394; Jan. 4.
- Harris, Frank C., Brighton, Mass., assignor to The American Monorail Company, Cleveland, Ohio. Electrified monorail system. 1,623,920; Apr. 5.
- Harris, Frank S. (See Lewis, R. C., and Harris.)
- Harris, Frank W. (See Percy, William W., assignor.)
- Harris, George E., Swissvale, Pa. Reversible towel rack. 1,634,746; July 5.
- Harris, George G. (See Dart, L. M., and Harris.)
- Harris, George H. (See Adamson, Allan A., assignor.)
- Harris, George H., Stockton, Calif. Driving mechanism for harvesters. 1,650,350; Nov. 22.
- Harris, Henry E., Portland, Oreg. Brine-unit-type refrigerating machine. 1,626,083; Apr. 26.
- Harris, Henry E., Portland, Oreg. Cooling box. 1,626,084; Apr. 26.
- Harris, Howard B. (See Butcher, J. E., and Harris.)
- Harris, Howard C., Akron, Ohio. Pivotal connection. 1,624,239; Apr. 12.
- Harris, Howard C., Akron, Ohio, assignor to The Fafrin Bearing Company, New Britain, Conn. Vehicle anti-friction spring bearing. 1,635,669; July 12.
- Harris, Hu M., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn. Engine. 1,622,225; Mar. 22.
- Harris, Hu M., and O. H. Attridge, assignors to Lucey Manufacturing Corporation, Chattanooga, Tenn. Rotary drilling machine. 1,628,363; May 10.
- Harris, Jason E., Howard, Kans. Intake valve. 1,626,279; Apr. 26.
- Harris, Jason E., Howard, Kans. Bearing for engines, air compressors, and the like. 1,627,031; May 3.
- Harris, Jason E., Howard, Kans. Intake valve. 1,627,032; May 3.

- Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Induction electricity meter. 1,639,728; Aug. 23.
- Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Commutator electricity meter. 1,648,898; Nov. 15.
- Harris, John, assignor to The Harris Calorific Company, Cleveland, Ohio. Valve for tanks. 1,631,372; June 7.
- Harris, John, Cleveland, Ohio, assignor to J. B. Rose, Edgeworth Pk. Gaseous fuel. 1,637,187; July 26.
- Harris, John, assignor to The Harris Calorific Company, Cleveland, Ohio. Regulator. 1,648,304; Nov. 8.
- Harris, John B., Nashville, Tenn. Garbage and refuse collection, incineration, vacuum cleaning, and ventilation system. 1,648,846; Nov. 8.
- Harris, John E. G. (See Wylam, B., Harris, and Thomas.)
- Harris, John H., Shannon, Miss. Chuck for holding bits. 1,652,129; Dec. 6.
- Harris, John J., Chicago, Ill. Adhesive. 1,631,265; June 7.
- Harris, Joseph. (See Duke, Harold H., assignor.)
- Harris, Joseph, Wheaton, assignor to W. H. Miner, Inc., Chicago, Ill. Draft-rigging-key retainer. 1,640,075; Aug. 23.
- Harris, Joseph D., assignor, by mesne assignments, to McCord Radiator & Mfg. Co., Detroit, Mich. Fluxing and cleaning apparatus. 1,633,015; June 21.
- Harris, Lawrence E., Superior, Wyo. Safety hanger for brake beams. 1,618,706; Feb. 22.
- Harris, Mark B., Detroit, Mich. Reserve-fuel-supply device. 1,613,701; Jan. 13.
- Harris, Mark B., assignor to General Motors Corporation, Detroit, Mich. Vehicle side curtain. 1,638,334; Aug. 9.
- Harris, Noah E., Dickinson, N. Dak. Easel. 1,637,255; July 26.
- Harris, Parley F., Washington, D. C. Composition and preparing roach tablets. 1,636,685; July 26.
- Harris, Percival, New York, N. Y. Wig for dolls. 1,628,591; May 10.
- Harris, Raymond J., Houston, Tex. Flytrap. 1,620,461; Mar. 8.
- Harris, Raymond J., Houston, Tex. Flytrap. 1,626,530; Apr. 26.
- Harris, Raymond J., Houston, Tex. Insect trap. 1,626,531; Apr. 26.
- Harris, Robert I., Punta Gorda, Fla. Check protector. 1,631,863; June 7.
- Harris, Samuel H., Brooklyn, N. Y. Display board or similar article. Des. 73,125; July 26.
- Harris, Smith, North Bennington, Vt. Toy plane. 1,618,926; Feb. 22.
- Harris, Thomas S., assignor to The Ayer Company, Lowell, Mass. Applicator for liquids. 1,615,531; Jan. 25.
- Harris & Troxell. (See J. Troxell, Harvey B., assignor.)
- Harris, Victor. (See Thomas, Elmer B., assignor.)
- Harris, Walter S. (See O'Connell, Charles J., assignor.)
- Harris, Warren B., Millbury, Mass. Flexible connection for looms. 1,614,066; Jan. 11.
- Harris, Wilburn R., and J. L. Garrison, Elm Mott, Tex. Locking device for safes. 1,613,457; Jan. 4.
- Harris, William A., assignor to G. & H. Tire Chuck Gauge Co., Inc., Greenville, S. C. Device for inflating and deflating pneumatic tires. 1,615,943; Feb. 1.
- Harris, William D., (See Bowe, Marion R., assignor.)
- Harris, William H., Richmond, Va. Badge. Des. 72,256; Mar. 22.
- Harsberger, Ivan A., Florence, Colo. Smoking pipe. 1,622,585; Mar. 29.
- Harrison, Amos, assignor to Jas. P. Marsh & Company, Chicago, Ill. Air and vacuum valve. 1,629,789; May 24.
- Harrison, Amos, assignor to Jas. P. Marsh and Company, Chicago, Ill. Safety control retard gauge. 1,649,112; Nov. 15.
- Harrison, Arthur W., assignor of one-half to J. E. Osborne, Los Angeles, Calif. Vehicle. 1,632,405; June 14.
- Harrison, Charles, Vancouver, British Columbia, Canada. Self-clearing, dredging, and excavating bucket. 1,653,905; Dec. 27.
- Harrison, Charles F., Levenshulme, Manchester, England. Automatic safety shutter and motor control for picture-projecting machines. 1,637,749; Aug. 2.
- Harrison, Charles W. (See Harrison, Walter L. and C. W.)
- Harrison, Daisy D. (See Brunk, M. V., and Harrison.)
- Harrison, Frank A., Chicago, Ill. Sample book. 1,630,487; May 31.
- Harrison, Gordon L., Shelby, Mich. Toy or similar article. Des. 73,407; Sept. 6.
- Harrison, H. H., et al. (See Bowman, Lewis N., assignor.)
- Harrison, Harry C., Taplow, assignor to St. Helens Cable and Rubber Company Limited, Slough, Bucks, England. Rubber footwear. 1,634,540; July 8.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. 1,613,609; Jan. 11.
- Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic device. 1,628,666; May 17.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Phonic diaphragm. 1,632,068; June 14.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,632,134; June 14.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanical vibratory system. 1,645,139; Oct. 11.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration-response device. 1,645,120; Nov. 8.
- Harrison, Helen M., Chicago, Ill. Advertising machine. 1,649,688; Nov. 15.
- Harrison, James F., assignor to Chattanooga Bottle & Glass Manufacturing Company, Chattanooga, Tenn. Bottle. Des. 73,288; Aug. 23.
- Harrison, James M., assignor of one-half to H. P. McCann, Cleveland, Ohio. Heating system. 1,621,881; Mar. 22.
- Harrison, Jeff, Atlanta, Ga. Automatic knock-off and hook stop for looms. 1,615,082; Jan. 18.
- Harrison, John A. (See Wylie, G. R., and Harrison.)
- Harrison, John A., Parnassus, and G. R. Wylie, Washington, Pa. Educational game. 1,617,359; Feb. 15.
- Harrison, John E. (See Mahon, T. C., and Harrison.)
- Harrison, John H. (See Rutledge, John J., assignor.)
- Harrison, John H., Stockton, Calif. Combined hinge and doorcheck. 1,644,249; Oct. 4.
- Harrison, John P., Jr., Newport News, Va. Truck cab. 1,651,453; Dec. 6.
- Harrison, Joseph, Tunstall, Stoke-on-Trent, England. Plate or similar article. Des. 71,872; Jan. 18.
- Harrison, Joseph, Tunstall, Stoke-on-Trent, England. Dish or similar article. Des. 72,944; June 28.
- Harrison, Leigh C. (See Holloway, F. W., and Harrison.)
- Harrison, Louis J., Derby, Conn. Rubber heel. 1,642,351; Sept. 20.
- Harrison, Thomas M., Philadelphia, Pa. Buff section for buffing wheels. 1,627,969; May 10.
- Harrison, Thomas R., assignor to T. Brown Instrument Company, Philadelphia, Pa. Thermocouple. 1,615,451; Jan. 25.
- Harrison, W. L., et al. (See Ransdell, Clarence C., assignor.)
- Harrison, Walter L. and C. W. Sheblina, assignors of one-third to J. C. Deloney, Monroe City, Mo. Furnace grate. 1,642,812; Sept. 20.
- Harrison, William E., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,649,030; Nov. 15.
- Harrison, William P., Richmond, Va. Closure for containers. 1,618,926; Feb. 22.
- Harrod, James N., Palo Alto, Calif. Bobbin rack. 1,622,107; Mar. 22.
- Harrold, Lewis, Long Island, N. Y. Self-adjusting packing for pistons. 1,623,407; Apr. 5.
- Harry, Earl L., Pontiac, assignor to E. S. Evans, Detroit, Mich. Motor-vehicle transmission mechanism. 1,623,724; Apr. 5.
- Harry, Earl L., Pontiac, assignor to E. S. Evans, Detroit, Mich. Transmission mechanism for motor vehicles. 1,623,725; Apr. 5.
- Harry, Robert A. (See Springer, J. E., and Harry.)
- Harsh, George M., Baltimore, Md. Pyjama trousers. Re.16,641; May 31.
- Harsh, Melvin. (See Edwards, Charles M., assignor.)
- Harsberger, Franz S., assignor to Globe Machinery and Supply Company, Des Moines, Iowa. Combination truck and wagon dump. 1,621,779; Mar. 22.
- Harsberger, Norman P., Chicago, Ill. Shingle. 1,613,099; Jan. 4.
- Harsberger, Norman P., Chicago, Ill. Shingle. 1,613,100; Jan. 4.
- Harsberger, Norman P., Chicago, Ill. Roof covering. 1,613,101; Jan. 4.
- Harsberger, Norman P., Chicago, Ill. Shingle. 1,613,102; Jan. 4.
- Harsberger, Norman P., Chicago, Ill. Shingle. 1,613,103; Jan. 4.
- Harsberger, Norman P., Chicago, Ill. Shingle. 1,641,427; Sept. 6.
- Hart, Albert B., et al. (See Jones, George A. E., assignor.)
- Hart, Austin H., Greenwich, Conn., assignor to Rome Radiation Company, Incorporated, Rome, N. Y. Streamline high-pressure radiator. 1,641,586; Sept. 6.
- Hart, Bertram, Manchester, England. Manufacture of ferric sulphate. 1,644,250; Oct. 4.
- Hart, Brothers. (See Wilcox, George B., assignor.)
- Hart, Carl D., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for vulcanizing material. 1,633,592; June 28.
- Hart, Carl D., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for serving a core. 1,651,024; Nov. 29.
- Hart, Charles S., Warwick, R. I. Boiler-tube stopper. 1,647,225; Nov. 1.
- Hart, Charles S., New York, N. Y. Toilet article for hairdressing. 1,650,710; Nov. 29.
- Hart, Clyde, Humble, assignor of one-half to J. G. Carr, Harris County, Tex. Spear. 1,619,254; Mar. 1.
- Hart & Cooley Manufacturing Company. (See Wessel, Howard H., assignor.)

- Hart, David, et al. (See Nathan, Samuel, assignor.)
 Hart, David M., New York, N. Y. Hat protector. 1,632,598; June 14.
 Hart, Earnest Z., Dallas, Tex. Numerical printing process. 1,653,765; Dec. 27.
 Hart, Edwin, and G. B. Gallasch, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Measuring instrument. 1,648,643; Nov. 8.
 Hart, Elmer J., Vancouver, Wash. Two-cycle engine. 1,642,655; Sept. 13.
 Hart, Frank, Los Angeles, Calif. Producing and affixing signs to materials. 1,634,617; July 5.
 Hart, Frank J., and D. W. McGee, Fort Worth, Tex.; said McGee assignor to said Hart. Sash fastener. 1,637,937; Aug. 2.
 Hart, Frederick A., New Britain, Conn. Lamp. 1,651,090; Nov. 29.
 Hart, Frederick A., New Britain, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,650,351; Nov. 22.
 Hart, George H., West Hartford, Conn. Switch mounting for electric ranges. 1,633,097; June 21.
 Hart, Gerald W., West Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn. Thermodynamically-controlled switch. 1,652,143; Dec. 6.
 Hart, Harold W., Los Angeles, Calif. Automatic gas feed. 1,619,931; Mar. 8.
 Hart, Harry H. (See Blake, I. J., and Hart.)
 Hart, Harry S., et al. (See Hilgerink, Frank M., as assignor.)
 Hart, Harry S. (See Hindahl, David, assignor.)
 Hart, Harry S. (See Hoscelt, William J., assignor.)
 Hart, Harry S., Chicago, Ill. Car construction. 1,623,591; Apr. 5.
 Hart, Harry S., Chicago, Ill. Car construction. 1,623,592; Apr. 5.
 Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)
 Hart & Hegeman Manufacturing Company, The. (See Neil, Charles, assignor.)
 Hart, Henry R. (See Fitzpatrick, K., and Mullins, as assignors.)
 Hart, Henry R., Montclair, N. J. Helmet. 1,616,187; Feb. 1.
 Hart, Henry R., Montclair, N. J. Flying suit. 1,626,136; Apr. 26.
 Hart, Herbert S., San Antonio, Tex. Automobile brake mechanism. 1,653,277; Dec. 20.
 Hart & Hutchinson Company, The. (See Hart, M. S., and Page, assignors.)
 Hart, John, et al. (See Boyden, Thomas L., assignor.)
 Hart Manufacturing Company, The. (See Hart, Gerald W., assignor.)
 Hart, Maxwell S., and L. E. Page, New Britain, Conn., assignors to The Hart & Hutchinson Company. Toilet inclosure. 1,637,145; July 26.
 Hart Oil Burner Co. (See Aldrich, Loyd I., assignor.)
 Hart, Peter H., San Jose, Calif. Tobacco-bag holder. 1,640,236; Apr. 23.
 Hart, Russell, Los Angeles, Calif. Telephotographic recording apparatus. 1,615,979; Feb. 1.
 Hart, Russell, Los Angeles, Calif. Photographically recording sound. 1,627,387; May 3.
 Hart, Russell, Los Angeles, Calif. Photo-electric means for reproducing sound from graphical records. 1,647,353; Nov. 1.
 Hart, Thomas A., Danbury, Conn. Restraining device for dental chairs. 1,614,126; Jan. 11.
 Hart, William C., Adelaide, South Australia, Australia. Formation of labels, symbols, and the like on glass containers. 1,640,076; Aug. 23.
 Hart, William C., Kew Gardens, N. Y. Printing roller. 1,642,068; Sept. 12.
 Hart, William E., San Jose, Calif. Vacuum tank. 1,618,045; Feb. 1.
 Hart, William E., near San Jose, Calif. Vacuum fuel-feed tank. 1,639,131; Aug. 16.
 Hart, William F., assignor to The Verona Tool Works, Pittsburgh, Pa. Rail-fastening means. 1,644,373; Oct. 4.
 Hartenstein, Max, New York, N. Y. Collapsible baby carriage. 1,636,093; July 19.
 Harter, Augustus F., assignor to Cribben & Sexton Company, Chicago, Ill. Stove or range. 1,624,560; Apr. 12.
 Harter, Augustus F., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Gas range. 1,646,859; Oct. 25.
 Harter, Charles, St. Louis, Mo. Brake-beam support. 1,630,792; Nov. 29.
 Harter, Charles F., Denver, Colo. Holster. 1,629,700; May 24.
 Harter, Isaac, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-power system. 1,635,410; July 12.
 Harter, Isaac, et al. (See Babcock & Wilcox Company, Bayonne, N. J. Heat-transfer device. 1,636,958; July 26.)
 Harter, Noah S., assignor to Cyclone Fence Company, Waukegan, Ill. Coating wire fabric. 1,623,593; Apr. 5.
 Harter, Sherman, assignor to The New Method Stove Company, Mansfield, Ohio. Oven-door structure. 1,623,408; Apr. 5.
 Harter, William A. (See Stussart, Joseph D., assignor.)
 Hartfield, August J. (See Hall, Albert L., assignor.)
 Hartford-Empire Company. (See Barker, William T., Jr., assignor.)
 Hartford-Empire Company. (See Budd, Clinton S., assignor.)
 Hartford-Empire Company. (See Bunge, Julius H. O., assignor.)
 Hartford-Empire Company. (See Canfield, Robert W., assignor.)
 Hartford-Empire Company. (See Davis, John, assignor.)
 Hartford-Empire Company. (See Grotta, Sidney S., assignor.)
 Hartford-Empire Company. (See Howard, George E., assignor.)
 Hartford-Empire Company. (See Kuhrt, Otto C., assignor.)
 Hartford-Empire Company. (See Lorenz, Edward H., assignor.)
 Hartford-Empire Company. (See Miller, William J., assignor.)
 Hartford-Empire Company. (See Mulholland, Vergil, assignor.)
 Hartford-Empire Company. (See Nelson, Ernest G., Jr., assignor.)
 Hartford-Empire Company. (See Peller, Karl E., assignor.)
 Hartford-Empire Company. (See Shackelford, Orle, assignor.)
 Hartford-Empire Company. (See Weaver, David P., assignor.)
 Hartford-Empire Company. (See Willetts, Paul G., assignor.)
 Hartford Rubber Works Company, The. (See Hopkinson, E., and Steinie, assignors.)
 Hartford Rubber Works Company, The. (See Steinie, William J., assignor.)
 Hartford Special Machinery Company, The. (See Steimer, Theodore C., assignor.)
 Hartl, Karl, Chicago, Ill. Device for correcting respiration. 1,635,272; July 12.
 Hartlapp, Alfred P. (See Wichman, F. M., and Hartlapp.)
 Hartley, Arthur J., Peoria, Ill. Grain-feeding device. 1,626,603; May 3.
 Hartley, Arthur J., Peoria, Ill. Power-driven conveyor. 1,643,986; Oct. 4.
 Hartley, Ellis, assignor to Whitin Machine Works, Whitinsville, Mass. Apparatus for spinning yarn. 1,639,406; Aug. 16.
 Hartley, Henry J., New York, N. Y., E. J. Fowler, Redwood City, and D. Baird, Berkeley, Calif., assignors to Nichols Copper Company, New York, N. Y. Roasting furnace. 1,640,988; Aug. 30.
 Hartley, Paul J., et al. (See Nesmith, Samuel D., assignor.)
 Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron tube. 1,613,948; Jan. 11.
 Apr. 12.
 Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,629,100; May 17.
 Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave transmission system. 1,632,069; June 14.
 Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave-modulating system. 1,633,016; June 21.
 Hartley, Ralph V. L., South Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Modulation system. 1,638,993; Aug. 16.
 Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency selective transmission system. 1,654,123; Dec. 27.
 Hartley, Ralph V. L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling method and system. 1,624,586; Aug. 16.
 Hartley, Ralph V. L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus and system for detecting vibrations. 1,648,121; Nov. 8.
 Hartley, Seward W., New York, N. Y. Timer. 1,615,012; Jan. 15.
 Hartley, Sidney. (See Boonzaier, G. J., and Hartley.)
 Hartling, John K., Albuquerque, N. Mex. Tester. 1,640,995; Aug. 30.
 Hartline, William A., Midland, Mich. Fountain pen. 1,615,758; Jan. 25.
 Hartman, Abe, Brooklyn, N. Y. Casing for automobile signs. Dec. 73,698; Oct. 25.
 Hartman, Abraham L., Wapinitia, Oreg. Ironing table. 1,638,733; Aug. 9.
 Hartman, Charles F., Los Angeles, Calif. Lead pencil with external feed. 1,628,974; May 17.
 Hartman, Charles H., assignor to W. F. Stimpson, Louisville, Ky. Adjustable leveling foot for scale bases. 1,647,992; Nov. 8.
 Hartman, Clifford C., and H. A. Weicher, Los Angeles, Calif. Mechanical movement. 1,640,655; Aug. 30.
 Hartman Electrical Manufacturing Company. (See Hartman, Frank O., assignor.)
 Hartman, Emanuel W., Miami, Fla. Apparatus for extracting gas. 1,635,620; July 12.

- Hartman, Emanuel W., assignor to Hartman Interests, Inc., Los Angeles, Calif. Cracking apparatus. 1,618,427; Feb. 22.
- Hartman, Frank O., Mansfield, Ohio. Variable condenser. 1,614,428; Jan. 11.
- Hartman, Frank O., assignor to Hartman Electrical Manufacturing Company, Mansfield, Ohio. Variable condenser. 1,632,649; June 14.
- Hartman, Frank O., assignor to Hartman Electrical Manufacturing Company, Mansfield, Ohio. Variable condenser. 1,632,650; June 14.
- Hartman, Frank O., assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio. Inductance device. 1,651,703; Dec. 6.
- Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottsdale, Pa. Water-purifying apparatus. 1,613,998; Jan. 11.
- Hartman Interests, Inc. (See Hartman, Emanuel W., assignor.)
- Hartman, John H., assignor to The Hubley Manufacturing Co., Lancaster, Pa. Toy stove. 1,619,723; Mar. 1.
- Hartman, Louis H., assignor to The Valve Bag Company of America, Toledo, Ohio. Afting reinforcing tape. 1,632,005; June 14.
- Hartman, Thomas J., Chicago, Ill. Ball cover. 1,649,063 Nov. 15.
- Hartman, William H., assignor to The Bonnot Company, Canton, Ohio. Rotary pulverizer. 1,647,730; Nov. 1.
- Hartman, William W., Los Angeles, Calif. Molding cutter. 1,631,526; June 7.
- Hartman, William W., Los Angeles, Calif. Packer. 1,643,119; Sept. 20.
- Hartmann, August. (See Elsaesser E., and Hartmann.)
- Hartmann, Carl, assignor of one-half to J. E. Anderson, San Francisco, Calif. Automatic valve. 1,644,127; Oct. 4.
- Hartmann, Emilios C. F. (See Sidnell, A. E., and Hartmann.)
- Hartmann, Emilios C. F., et al. (See Taylor, Charles W., assignor.)
- Hartmann, Erich, Wiesdorf, near Cologne, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Lake. 1,653,851; Dec. 27.
- Hartmann, Ludwig C., Elmhurst, N. Y. Motion-transmission mechanism. 1,616,369; Feb. 1.
- Hartmann, Max, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of physiologically-active substances from ovaries, corpus luteum, and placenta. 1,625,360; Apr. 19.
- Hartmann, Max, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of physiologically-active substances from female internal secretory organs. 1,651,770; Dec. 6.
- Hartmann, Max, and M. Seiberth, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of pyridine-3-carboxylic acid amides. 1,617,352; Feb. 15.
- Hartmann, Miner L., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive article. 1,615,271; Jan. 25.
- Hartmann, Miner L., and G. J. Easter, assignors to The Carborundum Company, Niagara Falls, N. Y. Adhesive and use. 1,618,822; Feb. 22.
- Hartmann, Otto, Cassel-Wilhelmshe, Germany, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Apparatus for superheating steam by means of a high-pressure medium. 1,617,519; Feb. 15.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmshe, Germany. Locomotive boiler. 1,612,866; Jan. 4.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmshe, Germany. Conveying steam through long-distance pipe lines. 1,636,775; July 26.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmshe, Germany. Boiler for movable steam-power plants. 1,639,088; Aug. 16.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmshe, Germany. Regulating steam power and heating plants. 1,648,343; Nov. 8.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmshe, Germany. Locomotive boiler. 1,648,396; Nov. 8.
- Hartmann, Otto, and J. Hermann, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmshe, Germany. Steam generator. 1,621,505; Mar. 22.
- Hartmann, Otto H., and F. Wempe, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmshe, Germany. Portable power plant utilizing steam at different pressures. 1,635,548; July 12.
- Hartmann, Paul, Brooklyn, assignor of one-half to C. L. Elditz, New York, N. Y., and one-half to Metropolitan Electric Mfg. Co. Receiptable. 1,615,302; Jan. 25.
- Hartmann, Powl, Brooklyn, assignor to Electric Outlet Company, Inc., New York, N. Y. Electric connection device. 1,649,305; Nov. 15.
- Hartmann Trunk Company. (See Chesnut, William C., assignor.)
- Hartmann Trunk Company. (See Langmuir, Frank H., assignor.)
- Hartmann Trunk Company. (See Rasmussen, Martin, assignor.)
- Hartmann Trunk Company. (See Ritter, Julius, Jr., assignor.)
- Hartmann Trunk Company. (See Ritter, J., Jr., and Rasmussen, assignors.)
- Hartmann Trunk Company. (See Ritter, J., Jr., and Wisby, assignors.)
- Hartmann Trunk Company. (See Schobert, George A., assignor.)
- Hartmann, Werner, Mount Vernon, N. Y. Motor vehicle. 1,650,272; Nov. 22.
- Hartnett, George J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fastening tubular bodies in holes of other bodies. 1,647,447; Nov. 1.
- Hartog, Paul D., St. Louis, Mo. Piston. 1,618,658; Feb. 22.
- Hartsell Motor Company. (See Hutsell, Thomas A., assignor.)
- Hartshorn, Stewart, Company. (See Hartshorn, Stewart H., assignor.)
- Hartshorn, Stewart H., Short Hills, assignor to Stewart Hartshorn Company, East Newark, N. J. Apparatus for winding springs. 1,636,689; July 26.
- Hartstorf-Metall Aktiengesellschaft (Hametag). (See Podszus, Emil, assignor.)
- Hartsville Manufacturing Company. (See Chappell, Elbert M., assignor.)
- Hartwig, Adalberto G., Buenos Aires, Argentina. Tension fastening for antislip chains. 1,619,471; Mar. 1.
- Hartung, Adalberto G., Buenos Aires, Argentina. Tensor system. 1,636,633; July 19.
- Hartung, Florenz P. (See Freeman, W. B., Haren, and Hartung.)
- Hartung, Leonard F., Los Angeles, Calif. Detachable cushion heel. 1,633,324; June 21.
- Hartvig, John A., Chicago, and A. A. McLaurin, Forest Park, Ill. Hair curler. 1,640,893; Aug. 30.
- Hartvikson, Henry, Rugby, N. Dak. Platform canvas-binding mechanism for grain binders. 1,634,187; June 28.
- Hartwell, Benjamin F., Winchester, Mass. Boot or shoe and composite sole therefor and manufacturing same. 1,618,283; Feb. 22.
- Hartwell, Benjamin F., Winchester, Mass. Boot or shoe, composite sole therefor, and manufacturing same. 1,619,023; Mar. 1.
- Hartwell, Benjamin F., Winchester, Mass. Boot and shoe and prepared insole therefor. 1,642,877; Sept. 20.
- Hartwell, Benjamin F., Winchester, Mass. Composite rubber sole. 1,642,878; Sept. 20.
- Hartwell, Ernest, assignor to Detroit Trailer Company, Detroit, Mich. Trailer. 1,630,425; May 31.
- Harty, Thomas F., Rosebank, N. Y. Boller structure. 1,622,947; Mar. 29.
- Hartz, John O., Duluth, Minn. Decalomania transfer sheet. Dec. 72,152; Mar. 8.
- Hartz, Philip, Akron, Ohio. Accelerator attachment. 1,620,649; Mar. 15.
- Hartzell, Earl F., Cuyahoga Falls, Ohio. Spring cover, spring sleeve, and lubricator. 1,639,942; Aug. 23.
- Hartzell, George W. (See Charavay, Frederick, assignor.)
- Hartzell, Morris H., Philadelphia, Pa. Fastening device. 1,615,695; Jan. 25.
- Hartzell, Walter L., Evanston, Ill. Internal-combustion engine. 1,642,494; Sept. 13.
- Harvey, Albert L., and N. K. Andersen, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, Motor-control system. 1,621,011; Mar. 15.
- Harvey, Arthur R., Middletown, Ohio. Device for determining moisture percentage in a web, and roll construction therefor. 1,623,675; Apr. 5.
- Harvey, Corbon L. (See Hermann, Otto L., assignor.)
- Harvey, Douglas G., Dixon, Ill. Woven wire fabric. 1,627,897; May 10.
- Harvey, Fred. (See Huckel, John F., assignor.)
- Harvey, George H., assignor to The Enterprise Machine Company, Middletown, Ohio. Roll plug. 1,650,209; Nov. 22.
- Harvey, Harold C., and H. L. Becher, Trenton, assignors to The Agassote Millboard Company, Ewing Township, N. J. Wood substitute. 1,651,588; Dec. 6.
- Harvey, Harry D. (See Chenoweth, W. H., and Schimpf, assignors.)
- Harvey, Harry D. (See Schimpf, George C., assignor.)
- Harvey Instrument Co. (See Gottesman, O. M., and Rosenfeld, assignors.)
- Harvey, John W., Denver, Colo. False roll for motor vehicle. 1,621,404; Mar. 15.
- Harvey, Millard L., Savannah, Ga. Anticreep and brace for railway rails. 1,647,176; Nov. 1.
- Harvey, Percy P. (See Holford, Hastings J., assignor.)
- Harvey, Redge, and A. P. Washlake, Detroit, Mich. Dish-washing machine. 1,623,182; Apr. 5.
- Harvey, Vernon L., San Francisco, Calif. Fastening device. 1,633,859; June 28.
- Harvey, Walter J. (See Filmer, George B., assignor.)
- Harvey, Walter J., Toronto, Ontario, Canada. Diurnal reflector. 1,642,545; Sept. 13.
- Harvey, William A., Scranton, Pa. Anchoring means for lifting fixtures. 1,613,169; Jan. 4.
- Harvey, William A., Scranton, Pa. Portable regulatable lamp. 1,639,774; Aug. 23.
- Harwick, Henry K. (See Marls, J. C., and Harwick.)

- Harwick, Henry K., Philadelphia, Pa. Joint for articulated locomotives. 1,625,656; Apr. 19.
- Harwood, George. (See Harwood, William W. and G.)
- Harwood, Lyle S. and R. C., Celoron, N. Y. Socket. 1,618,428; Feb. 22.
- Harwood, Robert C. (See Harwood, Lyle S. and R. C.)
- Harwood, William W., Grannis, Ark., and G. Harwood, Dickinson, Tex. Insect destroyer. 1,624,240; Apr. 12.
- Hasait, Max, Dresden, Germany, assignor to Aktiebolaget Ars., Stockholm, Sweden. Representing in optical way scenery and other objects in stages or the like. 1,616,689; May 15.
- Hasbrouck, Louis B. (See Garey, J. P., and Hasbrouck.)
- Hasbrouck, Louis B., Elmira, N. Y. Spinning frame. 1,614,298; Jan. 11.
- Hasbrouck, Louis B., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Method and apparatus for cleaning yarn. 1,630,361; May 9.
- Hasbrouck, Louis B., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Slub catcher. 1,630,426; May 31.
- Hasburg, John W., Chicago, Ill. Follower for paint packages. 1,619,930; Mar. 8.
- Haschek, Eduard. (See Maurer, M. and Haschek.)
- Hase, Rudolf, Berlin, Germany, assignor to Namlloze Vennootschap Finanziële Maatschappij "Driebergen", Amsterdam, Netherlands. Electric-circuit making and breaking relay. 1,620,967; Mar. 15.
- Hasek, Milton T., Cedar Rapids, Iowa. Bottle cap. 1,616,179; May 24.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Resilient shackle. 1,616,689; Feb. 8.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Hand brake for railway cars. 1,616,690; Feb. 8.
- Hasetline, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,616,691; Feb. 8.
- Hasetline, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,616,692; Feb. 8.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Shock-absorbing mechanism. 1,620,550; Mar. 15.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,620,651; Mar. 15.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,620,652; Mar. 15.
- Hasetline, Stacy B., Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,620,653; Mar. 15.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Door-operating mechanism. 1,631,127; June 7.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Resilient shackle. 1,637,148; July 26.
- Hasetline, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,637,149; July 26.
- Hasetline, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,637,150; July 26.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Counterbalanced side bearing. 1,640,034; Aug. 23.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Combination door stop and catch device. 1,640,035; Aug. 23.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Anti-friction bearing. 1,648,271; Nov. 8.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,648,272; Nov. 8.
- Hasetline, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator-door-operating mechanism. 1,648,305; Nov. 8.
- Hasetline, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,648,306; Nov. 8.
- Hasetline, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,650,352; Nov. 22.
- Hasetline, William C. (See Bowman, John G., assignor.)
- Hasetton, Page S., Bayside, assignor to Caldwell Lawn Mower Company, Newburgh, N. Y. Electric lawn mower. 1,648,056; Sept. 27.
- Hasemann, Edward C., Orlando, Fla. Reflecting level. 1,653,398; Dec. 20.
- Hasha, William C., Long Beach, Calif. Washing machine. 1,631,266; June 7.
- Hashagen, August, New York, N. Y., assignor to The Alliance Vitrifed China Company, Alliance, Ohio. Plate or similar article. Dec. 7, 209; Mar. 15.
- Hashagen, August, New York, N. Y., assignor to The Alliance Vitrifed China Company, Alliance, Ohio. Plate or similar article. Dec. 7, 2945; June 28.
- Haskelite Manufacturing Corporation. (See Drushel, William A., assignor.)
- Haskelite Manufacturing Corporation. (See Elmendorf, Armin, assignor.)
- Haskelite Manufacturing Corporation. (See Meyercord, George B., assignor.)
- Haskelite Manufacturing Corporation. (See Norris, Charles B., assignor.)
- Haskell, Broderick, Franklin, Pa. Truck bolster. 1,625,839; May 17.
- Haskell, Charles O., Hollywood, Calif. Elevating fluids. 1,626,236; Apr. 26.
- Haskell, Parker B., et al. (See Pohle, Walter B., assignor.)
- Haskell, Samuel, Brooklyn, N. Y. Hand bag or similar article. Dec. 72,473; Apr. 19.
- Haskell, William E., Jr., Springfield, Mass. Bottle closure. 1,636,996; July 26.
- Haskins, Arthur G., Weymouth, assignor to A. M. Dow, Braintree, Mass. Dishwashing machine. 1,632,182; June 14.
- Hasler A.-G. vormals Telegraphenwerkstätte von G. Hasler. (See Kohler, Ulrich, assignor.)
- Haslett, Elmer, Sausalito, Calif. Jar or similar container. Dec. 73,430; Sept. 13.
- Hass, Carl H. (See Thornbrugh, Alvin, assignor.)
- Hass, Carl H., Chester, S. Dak. Adjustable bracket. 1,614,550; Jan. 18.
- Hass, John B., International Falls, Minn. White-water self-cleaning settling tank. 1,629,701; May 24.
- Hassa, Robert, New York, N. Y. Wardrobe rack. 1,652,571; Dec. 13.
- Hassall, John K., Rotherwood, near Ashby-de-la-Zouch, and A. Harris, Woodville, England. Nozzle for ladies used in pouring molten metal. 1,635,839; July 12.
- Hasse, Fred A., Benton Harbor, Mich. Printing attachment for scales. 1,648,728; Nov. 8.
- Hasselberg, Jens, Sacramento, Calif. Saw-swaging hammer. 1,638,632; Aug. 9.
- Hasselberger, John P., Cheviot, Ohio. Vehicle signal lamp. 1,617,051; Feb. 8.
- Hasselblatt, Paul A., Brooklyn, N. Y. Heat retainer. 1,624,241; Apr. 12.
- Hasselkus, William E. B., Jamaica, assignor to International Motor Company, New York, N. Y. Windshield. 1,616,619; Feb. 8.
- Hassell, Frank J., et al. (See Cunningham, Roy S., assignor.)
- Hasselmann, Otto, Wiesbaden, Germany. Separable syringe. 1,648,548; Nov. 8.
- Hassensall, Louis W., Toledo, Ohio. Beverage-dispensing apparatus. 1,645,000; Oct. 11.
- Hassett, Robert, Maywood, Ill. Badge. Dec. 74,054; Dec. 13.
- Hassig, Edward, assignor to Hannum Manufacturing Company, Milwaukee, Wis. Steering-gear mechanism. 1,615,588; Feb. 22.
- Hassinger, Egon, Barcelona, Spain. Propelling pencil. 1,636,862; July 26.
- Hassler, Elmer B., Chapman, Kans. Home gasoline station. 1,645,594; Oct. 18.
- Hassler Manufacturing Co. (See Hassler, Robert H., assignor.)
- Hassler, Paul M., assignor to The Loudon Machinery Company, Firestone, Iowa. Connection for track hangers. 1,646,244; Oct. 18.
- Hassler, Robert H. (See Hittle, James A., assignor.)
- Hassler, Robert H., Inc. (See Hassler, Robert H., assignor.)
- Hassler, Robert H., assignor to Robert H. Hassler, Inc., Indianapolis, Ind. Belt fastener. 1,613,888; Jan. 11.
- Hassler, Robert H., assignor, by mesne assignments, to Hassler Manufacturing Co., Inc., Indianapolis, Ind. Rebound check with lubricating system. 1,646,583; Oct. 25.
- Hassler, Robert H., assignor, by mesne assignments, to Hassler Manufacturing Co., Inc., Indianapolis, Ind. Rebound check. 1,646,584; Oct. 25.
- Hast, Charles H., assignor to P. G. Villart, San Antonio, Tex. Accounting device. 1,622,642; Mar. 29.
- Hastedt, William R. (See Payson, A. E., and Hastedt.)
- Hastings, Albert D. (See McIntyre, R. A., and Hastings.)
- Hastings, Hammond C., and C. J. Sarjeant, Rugby, England, assignors to General Electric Company. Protective device for dynamo-electric machines. 1,631,726; June 7.
- Hastings, Horace H., Quebec, Quebec, Canada. Manufacture of inner tubes. 1,619,119; Mar. 1.
- Hastings, Horace H., Quebec, Quebec, Canada. Apparatus for finishing tire tubes. 1,640,077; Aug. 23.
- Hatano, William A., assignor to Aluminum Products Company, La Grange, Ill. Pot or similar article. Dec. 73,699; Oct. 25.
- Hastings, William A., assignor to Aluminum Products Company, La Grange, Ill. Handle. 1,645,381; Oct. 11.
- Hasty, Walter, Rockingham, N. C. Oil-dispensing tank. 1,650,210; Nov. 22.
- Hatch, Arthur B. (See Ryding, H. C., and Haswell.)
- Hatch, Alexander G., Farmington, assignor, by mesne assignments, to The Sesame Company, Hartford, Conn. Keyless lock. Re16,833; Dec. 27.
- Hatch, Alexander G., Farmington, assignor to The Sesame Company, Hartford, Conn. Lock. 1,640,935; Aug. 30.
- Hatch, Bernis W., et al. (See Neufang, Henry J., assignor.)

- Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Vending rack or stand. 1,634,573; July 5.
- Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Display receptacle. 1,640,405; Aug. 30.
- Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Poultry coop or crate. 1,644,472; Oct. 4.
- Hatch, Harvey G. (See White, W. O., and Hatch.)
- Hatch, Hyatt C., et al. (See Neuhang, Henry J., assignor.)
- Hatch, Meredith R. (See Dorman, N. W., and Hatch.)
- Hatch, Nathan, Albany, N. Y. Garment. 1,649,690; Nov. 15.
- Hatch, William M., et al. (See Nelson, Lewis D., assignor.)
- Hatcher, Claud A., Columbus, Ga. Bottle or similar article of manufacture adapted for use as an ornament, paper weight, or the like. Des. 72,063; Feb. 22.
- Hatcher, Claud A., assignor to Nehi, Inc., Columbus, Ga. Article of manufacture. 1,648,544; Nov. 8.
- Hatcher, Ernest C., Finchley, London, England. Power transmitting gearing. 1,618,927; Feb. 22.
- Hatcher, Ernest C., Finchley, London, England. Variable speed mechanism. 1,624,835; Apr. 12.
- Hatcher, James L., Brooks Field, Tex. Receiver sight for rifles. 1,616,509; Feb. 1.
- Hatcher, Julian S. (See Green, S. G., and Hatcher.)
- Hatcher, Minnie E., Tyler, Ala. Dish drainer. 1,622,909; Mar. 29.
- Hatcher, William A., assignor to Crescent Pump Company, Detroit, Mich. Vacuum clamping fixture for wheel rims. 1,616,138; Feb. 1.
- Hatcher, William A., assignor to Crescent Pump Company, Detroit, Mich. Vacuum chuck for bearing cones. 1,618,378; Feb. 22.
- Hater, Harry J. (See Rindsberg, Harry D., assignor.)
- Hatfield, Helen S. (See Hatfield, Roy A., assignor.)
- Hatfield, Harry S., London, England. Apparatus for effecting chemical tests and controlling chemical reactions. 1,643,243; Sept. 20.
- Hatfield, Percy W., assignor to Winship, Beit & Co., Wakefield, Mass. Label-sewing machine. 1,621,837; Mar. 22.
- Hatfield, Roy A., assignor to H. S. Hatfield, Norristown, Pa. Conveyor. 1,636,303; July 19.
- Hatfield, Roy H., assignor of one-half to C. H. Murray, Lewiston, Idaho. Tire and rim tool. 1,639,887; Aug. 23.
- Hatfield, Wilson C., Greenwood, Del. Reserve-supply device for tanks. 1,650,711; Nov. 29.
- Hathaway, Charles E., assignor to Cuddy-Gardner Company, Providence, R. I. Clamp. 1,628,592; May 10.
- Hathaway, Charles T., Duluth, Minn. Frolic button. Des. 72,517; Apr. 26.
- Hathaway, Chester W., assignor to Adolph Mueller, trustee, Decatur, Ill. Receptacle-actuated faucet. 1,637,221; July 26.
- Hathaway, Clyde N., Detroit, Mich. Curtain-rod-threading device. 1,628,667; May 17.
- Hathaway, Edgar F., Wellesley, Mass. Making laminated belts. 1,635,145.
- Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Suspension means for tube frames. 1,621,406; Mar. 15.
- Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Tube frame for tuft weaving. 1,631,094; May 31.
- Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Spool-supporting means for tube frames. 1,631,095; May 31.
- Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Nipper for tuft weaving. 1,635,670; July 12.
- Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Tuft tube for tube frames. 1,635,671; July 12.
- Hathaway, Edgar F., Wellesley, and C. Lea, Milton, assignors to Shawmut Engineering Company, Boston, Mass. Tube frame. 1,631,092; May 31.
- Hathaway, Edgar F., Wellesley, and W. Bixby, Boston, assignors to Shawmut Engineering Company, Boston, Mass. Yarn spool for tube frames. 1,631,093; May 31.
- Hathaway, Edgar F., Wellesley, and W. Bixby, Boston, assignors to Shawmut Engineering Company, Boston, Mass. Yarn spool for tube frames. 1,631,096; May 31.
- Hathaway, Harry D., Fall River, Mass. Driving end for looms. 1,644,374; Oct. 4.
- Hatheway, William E., Bridgeport, Conn. Garment buckle. 1,653,852; Dec. 27.
- Hatke, Alphonus H. (See Schluter, H. R., and Hatke.)
- Hatmaker, James R., Paris, France. Condensed milk and making same. 1,626,818; May 3.
- Hatmaker, William T., and E. E. Eickmeyer, assignors to The National Recording Pump Company, Dayton, Ohio. Liquid-dispensing apparatus. 1,627,898; May 10.
- Hatmaker, William T., and E. E. Eickmeyer, assignors to The National Recording Pump Company, Dayton, Ohio. Liquid-dispensing apparatus. 1,637,146; July 26.
- Hatot, Léon, Paris, France. Electromagnetic clock. 1,651,119; Nov. 29.
- Hatton, Hugh B., Jr., Glendale, Calif. Gas-control cock. 1,639,431; Aug. 16.
- Hatzfeld, Charles V., Mineral Wells, Tex. Opener and closer for jars and the like. 1,637,638; Aug. 2.
- Haub, Edwin. (See Gray, D. M., Haub, and Williams.)
- Hauber, Robert W., Bremerton, Wash. Combination square. 1,640,604; Aug. 30.
- Haubert, Leo, assignor of one-third to J. C. Bennett and one-third to J. A. Wolfe, Tulsa, Okla. Power-delivering attachment for automobile trucks or tractors. 1,633,208; June 21.
- Haubold, C. G., A. G. (See Schmitt, Eduard, assignor.)
- Haubold, C. G., A. G. (See Tandel, Fritz, assignor.)
- Haug, Anton J., Nashua, N. H. Method of and apparatus for working paper stock. 1,623,676; Apr. 5.
- Haug, Thaddeus L. E., Berkeley, Calif. Cutting screw threads in channelled material. 1,635,621; July 12.
- Hauel, Thaddeus L. E., Berkeley, Calif. Wedge. 1,637,771; Aug. 2.
- Haugen, John, Everett, Wash. Mop. 1,650,211; Nov. 22.
- Haugen, Ole K., Hancock, Minn. Hot-water can washer. 1,620,654; Mar. 15.
- Haughey, Robert E., Rayle, Ga. Refining elaterite. 1,653,766; Dec. 27.
- Haight, Austin M., Reader, W. Va. Wire fence. 1,617,249; Feb. 8.
- Haighton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)
- Haughton, Roy H., Shreveport, La. Game. 1,617,250; Feb. 8.
- Haugland, Richard C., Jackson, Minn. Harrow. 1,623,114; Apr. 5.
- Haul, Robert J., St. Louis, Mo. Garment hanger. 1,627,559; May 10.
- Haultain, Herbert E. T., Toronto, Ontario, Canada. Apparatus for determining the specific gravity of ore pulp and the like. 1,621,535; Mar. 22.
- Hauman, Earl L., Hamburg, assignor to Electro Refractories Corporation, Buffalo, N. Y. Producing a carbon-bonded refractory. 1,653,850; Dec. 27.
- Haumerson, Clifford C., Fort Atkinson, Wis. Chain coupling. 1,627,773; May 10.
- Hauns, Charles F., Buffalo, N. Y. Cabinet for displaying and dispensing merchandise. Des. 72,257; Mar. 22.
- Haupt, Bernhard, Brooklyn, N. Y. Electric-lamp socket. 1,614,922; Jan. 18.
- Haupt, Ferdinand, Borna, near Leipzig, Germany. Dumping car. 1,642,813; Sept. 20.
- Haupt, Frank, assignor of one-half to L. Shoor, Milwaukee, Wis. Illuminated license plate. 1,614,955; Jan. 18.
- Hauser, August F. (See Stroop, H. T., Hauser, and Hamberg.)
- Hausle, Jacob, Feldkirch, Austria. Folding ladder. 1,615,750; Jan. 25.
- Hausman, Harris, Brooklyn, N. Y. Textile fabric. Des. 73,376; Aug. 30.
- Hausman, Walter J., St. Louis, Mo. Foldable checking device. 1,638,805; Aug. 9.
- Hausman, Ward B., Philadelphia, Pa. Egg-candling device. 1,652,983; Dec. 13.
- Hausner, Oscar G., Webster Groves, Mo. Order card. 1,619,511; Mar. 1.
- Hausser, C. A., and Son. (See Hausser, Carl A., assignors.)
- Hausser, Carl A. (See Trenner, Simeon, assignor.)
- Hausser, Carl A., assignor to C. A. Hausser & Son, Philadelphia, Pa. Marking for hemacytometers. 1,647,865; Nov. 1.
- Häussler, Alfred, assignor to the Firm of C. H. Boehringer & Sohn, Chemische Fabrik, Nieder-Ingelheim-on-the-Rhine, Germany. Manufacture of esters of oxyacids. 1,614,195; Jan. 11.
- Häussler, Alfred, assignor to C. H. Boehringer Sohn Chemische Fabrik, Nieder-Ingelheim-on-the-Rhine, Germany. Making keto and aldo aliphatic carboxylic acids. 1,627,091; May 3.
- Hausmann, John F., assignor of one-fourth to C. A. Ruch and one-fourth to D. W. Hoan, Milwaukee, Wis. Flying machine. 1,635,364; July 12.
- Hauswirth, Wilbur R., Long Beach, Calif. Oil-flowing device for wells. 1,653,325; June 21.
- Hauton, Paul S., Atlanta, Ga., assignor to The Parker Pen Company, Jacksonville, Fla. Clip for pens, pencils, and the like. 1,647,093; Oct. 25.
- Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Riveting machine. 1,621,405; Mar. 15.
- Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Riveting machine. 1,628,044; May 10.
- Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Fastener-joining mechanism. 1,632,374; June 14.
- Haverbusch, Herman F. (See Deye, E. G., and Haverbusch.)
- Haverstick, Earl J., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coating materials. 1,619,343; Mar. 1.
- Haverstick, Earl J., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Detector. 1,630,383; May 31.
- Haverstick, Earl J., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making resistor elements. 1,638,949; Aug. 16.
- Havighorst, Russel K., Los Angeles, Calif. Structure for facilitating sorting and delivering of packages. 1,616,693; Feb. 8.

- Havir, Andrew H., assignor to Progressive Shoe Machinery Company, Minneapolis, Minn. Welt-rolling machine. 1,622,281; Mar. 29.
- Havir, Andrew H., and H. V. Fletcher, assignors, by mesne assignments, to E. J. Rohne, Minneapolis, Minn. Tire-stripping machine. 1,638,306; Aug. 9.
- Havlicek, Ferdinand A., Dillonvale, Ohio. Liquid-level indicator. 1,617,110; Feb. 8.
- Haw, Jakob, Friedenau, near Berlin, Germany. Metal propeller. 1,635,840; July 12.
- Howard, Ernest W., Old Trafford, England. Antislplash device for the wheels of motor road vehicles. 1,627,033; May 3.
- Hawes, Alfred B., London, R. W. Horton, Edgeware, and F. C. C. Mayo, High Barnet, England. Expanding suitcase. 1,646,092; Oct. 18.
- Hawes, Amos, Ogden, Utah. Agricultural implement. 1,646,023; Oct. 18.
- Hawes, George P., Jr., U. S. Army, Fort McPherson, Ga. Drain plug or valve for containers. 1,621,251; Mar. 15.
- Hawes, Harold B., Fairfield, Conn. Glass structure. 1,632,330; June 14.
- Hawes, Herbert E., Milwaukee, Wis. Parachute. 1,644,251; Oct. 4.
- Hawes, William L., Burbank, Calif. Sprinkler. 1,651,887; Dec. 6.
- Hawk, Betty M., Florence, Colo. Gravity toy. Re16,791; Nov. 22.
- Hawk, Betty M., Washington, D. C. Gravity toy. 1,617,646; Feb. 15.
- Hawker, Ernest. (See McCoy, G. E., and Hawker.)
- Hawkes, Arthur G., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Combined bumper and spare wheel and tire carrier. 1,649,404; Nov. 15.
- Hawkes, Arthur G., and E. W. Test, Michigan City, Ind., assignors to The Pullman Company, Chicago, Ill. Draft-gear yoke and making same. 1,636,690; July 26.
- Hawkesworth Drill Company. (See Bowman, E. J., and Myhre, assignors.)
- Hawkins, Arthur W., Muskegon, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam-supporting means. 1,644,880; Oct. 11.
- Hawkins, Bert H., Royal Oak, and E. R. Hansen, assignors to McCord Radiator & Mfg. Co., Detroit, Mich. Machine for stripping nests from radiator cores. 1,615,272; Jan. 25.
- Hawkins, Bert H., Royal Oak, and E. R. Hansen, Detroit, assignors to McCord Radiator & Mfg. Co., Detroit, Mich. Machine for beading radiator fins. 1,623,594; Apr. 5.
- Hawkins, Charles P. (See Ashmore, F. F., and Crum, assignors.)
- Hawkins, Charlotte B., Parkdale, Ark. Grater. 1,633,700; June 28.
- Hawkins, Delphine H., Spokane, Wash. Baby jumper. 1,613,657; Jan. 11.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-cutting machine. 1,619,975; Mar. 8.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Receiving bank. 1,626,933; May 3.
- Hawkins, Floyd C., Los Angeles, Calif. Combined oil filter and cooler. 1,613,889; Jan. 11.
- Hawkins, Herbert C., Winston-Salem, N. C. Thermal switch. 1,615,582; Jan. 25.
- Hawkins, James B., Slater, Mo. Drinking fountain for livestock. 1,646,245; Oct. 18.
- Hawkins, Jepson M., and S. Losey, Covington, Okla. Oil-well pump. 1,620,347; Mar. 8.
- Hawkins, Lon A. (See Barger, W. R., Hawkins, and Blatz.)
- Hawkins, Luty, Dix, Ill. Incubator. 1,650,445; Nov. 22.
- Hawkins, Omar, Leesburg, Ind. Milling attachment. 1,628,975; May 17.
- Hawkins, Orin, Waukegan, Ill. Collapsible chair and swing. 1,621,367; Mar. 15.
- Hawkins, Orin A., Lamar, Colo. Manufacture of brooms. 1,637,639; Aug. 2.
- Hawkins, Robert D., Wilmington, N. C. End structure for railway cars. 1,631,812; June 7.
- Hawkins, Roe C., Long Beach, Calif. Standing-valve pulled. 1,640,406; Aug. 30.
- Hawkins, Roe C., assignor to "H H" Manufacturers, Inc., Long Beach, Calif. Grouser. 1,622,111; Mar. 22.
- Hawkins, Roe C., assignor to "H H" Manufacturers, Inc., Long Beach, Calif. Drawbar attachment for tractors. 1,632,070; June 14.
- Hawkins, Wilford J., Montclair, N. J. Thermostatic switch. 1,639,888; Aug. 28.
- Hawkins, Wilford J., Montclair, N. J., assignor to American Machine & Foundry Company. Electric capstan. 1,637,818; Aug. 2.
- Hawkins, Wilford J., Montclair, N. J., assignor to American Machine & Foundry Company. Automatic heater. 1,637,820; Aug. 2.
- Hawkins, Wilford J., Montclair, N. J., assignor to American Machine & Foundry Company. Cigarette and making the same. 1,647,676; Nov. 1.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Flywheel magnet. 1,613,033; Jan. 4.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Breaker mechanism for ignition magnets. 1,619,932; Mar. 8.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Interrupter mechanism. 1,624,100; Apr. 12.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Ignition magnet. 1,629,575; May 24.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Ignition magnet. 1,634,574; July 5.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Ignition magnet. 1,634,575; July 5.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Ignition magnet. 1,640,936; Aug. 30.
- Hawkinson, Axel W., assignor to Sidway Toplift Company, Washington, Pa. Baby walker. 1,622,108; Mar. 22.
- Hawkinson, Paul E., Minneapolis, Minn., assignor to Ke Haw Ke Manufacturing Company. Tire patch with application indicator. 1,648,729; Nov. 8.
- Hawks, Arthur S., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Internal-combustion engine. 1,624,101; Apr. 12.
- Hawks, Arthur S., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Internal-combustion-engine control gear. 1,649,306; Nov. 15.
- Hawks, Edward A., Detroit, Mich. Bank-guard shield. 1,622,644; Mar. 29.
- Hawksworth, David W., assignor, by mesne assignments, to Hutchins & Roofing Company, Detroit, Mich. Car roof. 1,622,509; Mar. 29.
- Hawksworth, David W., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Carline. 1,644,674; Oct. 11.
- Hay, Bar, E., Vancouver, assignor to American Locknut Company, Longview, Wash. Lock nut. 1,639,637; Aug. 16.
- Hawley, Charles A., assignor to The Automatik Chest Company, Oakland, Calif. Odorizer holder. Des. 7,1912; Jan. 25.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Gas purifier. 1,612,812; Jan. 4.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Air intake for ships. 1,612,813; Jan. 4.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Separator. 1,612,814; Jan. 4.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal fixture. 1,612,815; Jan. 4.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal dust catcher. 1,622,034; Mar. 22.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal dust separator. 1,622,643; Mar. 29.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal fixture. 1,639,562; Aug. 16.
- Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive-boiler fire box. 1,637,819; Aug. 2.
- Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Tube connection. 1,644,138; Oct. 4.
- Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Safety method of installing fire-box arch tubes. 1,648,307; Nov. 8.
- Hawley, Edgar R., and C. W. Scott, Salt Lake City, Utah. Automatically-governed condensing device. 1,629,169; May 17.
- Hawley, George M. B., Geneva, N. Y. Automatic railway control. 1,621,838; Mar. 22.
- Hawley Inventions, Incorporated. (See Hawley, John B., Jr., assignor.)
- Hawley Inventions, Inc. (See Hawley, John B., Jr., assignor.)
- Hawley, Jesse B., Wilmette, Ill. Sound-amplifying horn. 1,624,242; Apr. 12.
- Hawley, Jesse B., Wilmette, Ill. Sound amplifier. 1,641,630; Sept. 6.
- Hawley, John B., Jr., assignor to Hawley Inventions, Incorporated, Minneapolis, Minn. Form tie for concrete structures. 1,619,933; Mar. 8.
- Hawley, John B., Jr., assignor to Hawley Inventions, Incorporated, Minneapolis, Minn. Well-pumping apparatus. 1,641,329; Sept. 6.
- Hawley, John B., Jr., Colorado Springs, Colo., assignor to Hawley Inventions, Inc. Shock absorber and the like for vehicles. 1,647,518; Nov. 1.
- Hawley, John B., Jr., Minneapolis, Minn., assignor to Hawley Inventions, Inc. Fluid transmissions and the like. 1,647,621; Nov. 1.
- Hawley, John B., Jr., Fort Worth, Tex., assignor to Hawley Inventions, Inc. Well pumping apparatus. 1,654,329; Dec. 27.
- Hawley, Kent A., Victor, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md. Assembling insulators. 1,647,695; Nov. 1.
- Hawley, Oliver H., Birmingham, England. Wheelbarrow or like wheel. 1,615,760; Jan. 25.
- Hawley, Ted B., Kevin, Mont. Oil-well-controlled fire extinguisher. 1,633,813; June 28.

- Hawley, Thomas W., assignor of one-half to H. Dent, Savannah, Ga. Truck center bearing. 1,633,564; Dec. 20.
- Hawley, William G., assignor to Merrell-Soule Company, Syracuse, N. Y. Treating milk powder and product produced thereby. 1,637,311; July 26.
- Hawn, Harold A., Grand Rapids, Mich. Refrigerator. 1,621,322; Mar. 4.
- Haworth, Jehu F., Edgeworth, Pa. Cable or wire clamp. 1,622,109; Mar. 22.
- Haworth, Jehu F., Edgeworth, Pa. Cable or wire clamp. 1,622,110; Mar. 22.
- Haworth, Jehu F., Edgeworth, Pa. Cable or wire clamp. 1,644,376; Oct. 4.
- Haworth, Jehu F., Edgeworth, Pa. Cable or wire clamp. 1,644,376; Oct. 4.
- Haworth, John T., Accrington, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seal-fitting machine. 1,615,638; Feb. 1.
- Hawthorne, Charles W., Shrewsbury, Mass., assignor to Westview Spencer Steel Company, New York, N. Y. Mesh-aligning device for wire-netting machines. 1,617,052; Feb. 8.
- Hawthorne, Charles W., Shrewsbury, Mass., assignor, by mesne assignments, to The Chase National Bank of the City of New York, trustee, New York, N. Y. Tool for bending metal fabric. 1,628,976; May 17.
- Hawxhurst, John J., assignor of one-fourth to M. J. Sage, Brooklyn, one-fourth to G. W. Stedwell, New York, and one-fourth to F. W. Lang, Brooklyn, N. Y. Liquid-delivery system. 1,638,006; Feb. 15.
- Hawxhurst, John J., assignor to Liquid Dispensing Systems, Inc., Brooklyn, N. Y. Liquid-delivery control. 1,647,043; Oct. 25.
- Hawxhurst, John J., assignor of one-fourth to M. J. Sage, one-fourth to F. W. Lang, Brooklyn, and one-fourth to G. W. Stedwell, New York, N. Y. Liquid measuring apparatus. 1,622,715; Mar. 22.
- Hay, Colin B., San Jose, Calif. Vine-gathering machine. 1,648,767; Nov. 8.
- Hay, John D., South Bend, Ind., assignor to Gernand Motor Corporation, Chicago, Ill. Engine. 1,639,848; Aug. 23.
- Hay, William J. (See Fleming, Charles T., assignor.)
- Hayashi, Andrew T., Ventnor, N. J. Japanese peanut ping-pong game. 1,614,471; Jan. 18.
- Hayde, Stephen J., assignor to American Aggregate Company, Kansas City, Mo. Preparing a material suitable for use in the manufacture of molded articles. Re16,750; Sept. 27.
- Hayden, Arthur C., Brockton, Mass. Film reel. 1,649,470; Nov. 15.
- Hayden, Arthur C., Brockton, Mass. Apparatus for making heels. 1,651,952; Dec. 6.
- Hayden, Arthur C., Brockton, Mass. Support for radio apparatus. 1,651,953; Dec. 6.
- Hayden, George W., Oak Park, Ill. Variable condenser. 1,621,721; Mar. 22.
- Hayden, George W., Oak Park, Ill. Electrostatic condenser. 1,621,722; Mar. 22.
- Hayden, Joseph L. R., executor. (See Steinmetz, Charles P.)
- Hayden, Robert P., assignor to Johnson & Johnson, New Brunswick, N. J. System of rolling surgical adhesive plaster. 1,646,093; Oct. 18.
- Hayes, Clifford B., Needham, Mass. Fabric. 1,645,858; Oct. 18.
- Hayes, Frank, El Monte, assignor to California Walnut Growers Association, Los Angeles, Calif. Branding machine. 1,639,291; Aug. 16.
- Hayes, Frank A., New York, N. Y. Variable-speed power-transmission mechanism. 1,620,760; Mar. 15.
- Hayes, Frank A., Keyport, N. J., assignor to Henley-Aeromarine Bus Company, Inc. Universal joint. 1,621,667; Mar. 22.
- Hayes, Hammond V., trustee. (See Fay, R. D., and Wolf, assignors.)
- Hayes, Hammond V., trustee. (See Wolf, Ezekiel, assignor.)
- Hayes, Harvey C., Annapolis, Md. Microphone. 1,624,946; Apr. 19.
- Hayes, Harvey C., Washington, D. C. Submarine sound receiver. 1,632,351; June 14.
- Hayes, Harvey C., Washington, D. C. Electromagnetic sound reproducer. 1,632,332; June 14.
- Hayes, Harvey C., Washington, D. C. Submarine sound transmitter. 1,649,113; Nov. 15.
- Hayes, Harvey C., and M. Mason, New London, Conn., assignor to Submarine Signal Company, Portland, Me. Directive sound transmission. 1,636,510; July 19.
- Hayes-Ionia Company. (See Anderson, Roy F., assignor.)
- Hayes, James D., Dallas, Tex., assignor of one-third to B. White, Chicago, Ill., and one-third to P. Hunter, San Antonio, Tex. Photographic bath tank. 1,651,454; Dec. 6.
- Hayes, Joseph P., Chicago, Ill. Pneumatic-tire appliance. 1,646,693; Oct. 25.
- Hayes, Margaret, Brooklyn, N. Y. Window-cleaning device. 1,628,593; May 10.
- Hayes-Meserole Manufacturing Co., The. (See Meserole, Milton D., assignor.)
- Hayes Meserole Mfg. Co., The. (See Sykes, Cecil M., assignor.)
- Hayes, Nora P., Porterwood, W. Va. Culinary implement. 1,638,486; Aug. 9.
- Hayes, Oscar, Akron, Ohio. Instrument for treating urethritis. 1,644,919; Oct. 11.
- Hayes, Oscar. (See Crouse, Nathan H., assignor.)
- Hayes, Richmond S., Jamestown, N. Y. Signal-light casing. Des. 74,107; Dec. 20.
- Hayes, Robert D., New Haven, Conn., assignor, by mesne assignments, to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Index or file. 1,616,897; Feb. 9.
- Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Portable derail. 1,627,092; May 3.
- Hayes, Thomas R., Monrovia, Calif. Chair. 1,627,388; May 3.
- Hayes Track Appliance Company. (See Hayes, Stanley W., assignor.)
- Hayes, Walter A., Denver, Colo. Burglarproof booth. 1,643,494; Sept. 27.
- Hayes, Walter C. (See Bennett, Edward O., assignor.)
- Hayes Wheel Company. (See Flick, Henry, assignor.)
- Hayes Wheel Company. (See Higgins, Eugene, assignor.)
- Hayes Wheel Company. (See Jacobi, Emil R., assignor.)
- Hayes Wheel Company. (See Peterson, Emil J., assignor.)
- Hazard, George R., Bay Shore, N. Y., assignor to D. D. Evans and F. W. Elliott, Davenport, Iowa. Chirometer. 1,648,899; Nov. 15.
- Hayman, George R., Bay Shore, N. Y. Applier for chirometers. 1,648,942; Nov. 15.
- Haynes, Charles E., Washington, D. C. Hair waver. 1,623,835; Apr. 5.
- Haynes, Charles V., Ardmore, Pa., assignor to Hoffman Specialty Company, Waterbury, Conn. Steam-impelled motive apparatus. 1,623,243; Apr. 5.
- Haynes, Albert J., Cleveland, Ohio. Sounding line. 1,633,701; June 23.
- Haynes, George P., assignor to Todd Dry Dock, Engineering & Repair Corporation, New York, N. Y. System of liquid-fuel-supply control. 1,629,463; May 17.
- Haynes, Hobart F., Syracuse, N. Y. Socket wrench. 1,629,255; Mar. 1.
- Haynes, Hobart F., Syracuse, N. Y. Socket wrench. 1,626,750; May 3.
- Haynes, Jasper H., Bangor, Me. Runner for automobile wheels. 1,627,507; May 3.
- Haynes, Ralph S. (See Pennow, W. A., and Haynes.)
- Haynes, Scitite Company. (See Field, B. E., and Franks, assignors.)
- Haynes, William J., Kansas City, assignor of one-half to J. H. Swathney, Harrisonville, Mo. Float. 1,642,149; Sept. 13.
- Hays, B. D., Fort Worth, Tex. Tilting carrier. 1,639,563; Aug. 9.
- Hays, B. D., Fort Worth, Tex. Tilting package carrier. 1,639,606; Aug. 16.
- Hays, Clinton, and W. M. Thomas, Denver, Colo. Valve-spring compressor. 1,632,288; June 14.
- Hays, Harvey G., Columbus, Ohio. Staff support. 1,632,965; June 21.
- Hayse, Cecil F. (See Meek, J. B., and Hayse.)
- Hayward, George A., Watertown, Conn. Snap plug. 1,632,599; June 14.
- Hayward, John M. (See Moore, Charles R., and Hayward.)
- Haywood, Clara L., Brooklyn, N. Y. Ventilated wall receptacle for food. 1,638,120; Aug. 9.
- Haywood, George B. (See Provost, F. W., and Haywood.)
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Unloader assembly. 1,631,031; May 31.
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Pressure-control device. 1,636,561; July 19.
- Hazard, George E., assignor to Empire Milking Machine Co., Inc., Rochester, N. Y. Animal-watering device. 1,646,246; Oct. 18.
- Hazard, Merwin C., assignor to Marvel Oil Tool Company, Huntington Beach, Calif. Rotary underreamer. 1,625,208; Apr. 19.
- Hazel-Atlas Glass Company. (See Gray, D. M., Haub, and Williams, assignors.)
- Hazel-Atlas Glass Company. (See Green, Michael A., assignor.)
- Hazlett, Clarence W., Lakewood, assignor, by mesne assignments, to Cleveland Trust Company, trustee, Cleveland, Ohio. Making storage batteries. 1,645,424; Oct. 11.
- Hazlett Storage Battery Company. (See Prachar, John.)
- Hazel, Rupert A., Melbourne, Victoria, Australia. Musical instrument of the stringed type. 1,625,538; Apr. 19.
- Hazelrigg, Jackson R., Exeter, Calif. Wall construction. 1,629,702; May 24.
- Hazeltine Corporation. (See Hazeltine, Louis A., assignor.)
- Hazeltine Corporation. (See Holborn, Frederick, assignor.)
- Hazeltine Corporation. (See Miller, Henry, assignor.)
- Hazeltine, Louis A., Hoboken, N. J., assignor to Hazeltine Corporation. Wave signaling system. 1,648,808; Nov. 8.
- Hazeltine, Louis A., Hoboken, N. J., assignor to Hazeltine Corporation. Wave signaling system. 1,649,589; Nov. 15.

- Hazeltine, Louis A., Hoboken, N. J., assignor to Hazeltine Corporation. Wave signaling system. 1,650,353; Nov. 22.
- Hazleton, Carl J. (See Mills, E. R., and Hazleton.)
- Hazleton, Carl J., Worcester, Mass., assignor to American Narrow Fabric Company. Detachable connector for hose supporters. 1,617,481; Feb. 15.
- Hazleton, Carl J., assignor to American Narrow Fabric Company, Worcester, Mass. Hose-supporter structure. 1,631,835; June 7.
- Hazleton, Robert T., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Press brake. 1,618,825; Feb. 22.
- Hazleton, Robert T., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Shaper. 1,632,375; June 14.
- Hazen, Levi P., Cincinnati, Ohio. Metallic lathing. 1,648,345; Nov. 8.
- Hazlett, Merritt W., Franklin, N. Y. Retracting caster. 1,626,819; May 3.
- Head, Cecil A., Royal Oak, Mich. Electric radiator. 1,619,865; Mar. 8.
- Head, Clarence, Birch Coulee Township, Renville County, Minn. Admission ticket. 1,634,188; June 28.
- Head, Ernest C. (See Gleason, J. E., and Head.)
- Head, Ernest C., assignor to Gleason Works, Rochester, N. Y. Hub for cutting gears. 1,618,429; Feb. 22.
- Head, Ernest C., assignor to Gleason Works, Rochester, N. Y. Hobbing gears. 1,618,956; Feb. 22.
- Head, Ernest C., assignor to Gleason Works, Rochester, N. Y. Pair of gears. 1,626,820; May 3.
- Head, Ernest C., assignor to Gleason Works, Rochester, N. Y. Method and machine for cutting gears. 1,626,821; May 3.
- Head, Francis, New York, N. Y. Drying apparatus. 1,631,483; June 7.
- Head, Ronald, and W. E. Prescott, London, England, assignors to Baker Perkins Company, Incorporated, White Plains, N. Y. Apparatus for cutting sweetmeats. 1,621,012; Mar. 15.
- Headley, Frederick H., Northfield, near Birmingham, England. Seat frame for chairs or stools and the like. 1,641,330; Sept. 6.
- Headley, Frederick H., Northfield, near Birmingham, England. Perambulator. 1,644,473; Oct. 4.
- Headley, John W., jr. (See Salvucci, Natale, assignor.)
- Headley, R. C. (See Wolter, Antone E., assignor.)
- Headley, William T., Philadelphia, Pa. Soapy emulsion of bitumen suitable for paving and making the same. 1,640,444; Aug. 30.
- Heady, Frank (See Frye, W. A., and Heady.)
- Heald, John, Springfield, Mass. Concert horn. 1,634,355; July 5.
- Heald Machine Company, The. (See Gallimore, Keith F., assignor.)
- Heald Machine Company, The. (See Turner, A., and Heald, John D., assignors.)
- Heald, John D., Edwards, Ill. Switch for telegraph circuits. 1,650,446; Nov. 22.
- Healey-Aeromarine Bus Company. (See Chilton, Roland, assignor.)
- Healey-Aeromarine Bus Company. (See Douglas, William H., assignor.)
- Healey-Aeromarine Bus Company. (See Hayes, Frank A., assignor.)
- Healey-Aeromarine Bus Company. (See Zimmermann, P. G., and Korvin-Kroukovsky, assignors.)
- Healey Aeromarine Bus Co. Inc. (See Douglas, William H., assignor.)
- Health Products Corporation. (See Berg, W. H., Whitman, and Aab, assignors.)
- Healy, Cornelius D., Newark, N. J. Extension comb for laying underground electric conduits. 1,650,833; Nov. 29.
- Healy, Edward C., Muscatine, Iowa. Window structure. 1,632,333; June 14.
- Healey, Richard M., Grosse Pointe Village, and B. W. Lindquist, Detroit, Mich. Apparatus for trimming blanks. 1,636,691; July 26.
- Heaney Mfg. Co. (See Marchione, Lewis, assignor.)
- Heany, John A., New Haven, Conn. Incandescent electric lamp. 1,635,820; July 12.
- Heany, John A., New Haven, Conn. Incandescent electric lamp. 1,640,829; Aug. 30.
- Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Multiple-unit electric transmission. 1,616,658; Feb. 8.
- Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Friction brake. 1,616,659; Feb. 8.
- Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Electric-arc lamp. 1,617,635; Feb. 15.
- Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Electric-arc lamp. 1,617,636; Feb. 15.
- Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Electric-arc lamp. 1,617,637; Feb. 15.
- Hebert, John A., New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J. Winding machine. 1,621,723; Mar. 22.
- Heany, John A., New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J. Making paper. 1,642,495; Sept. 13.
- Heany, John A., New York, N. Y., assignor to Heany Laboratories, Inc., New Haven, Conn. Electric-arc lamp. 1,617,633; Feb. 15.
- Heany, John A., New York, N. Y., assignor to Heany Laboratories, Inc., New Haven, Conn. Electric-arc lamp. 1,617,634; Feb. 15.
- Heany Laboratories, Inc. (See Heany, John A., assignor.)
- Heard, William D., Two Rivers, Wis. Cigarette case. 1,619,418; Mar. 1.
- Heard, Edmund F. (See Furtman, Eugene C., assignor.)
- Heard, Edmund F., Elizabeth City County, and M. M. Fitz Hugh, assignors to Newport News Shipbuilding & Dry Dock Company, Newport News, Va. Tool car for lathe. 1,648,900; Nov. 15.
- Heard, William A., Jacksonville, Fla. Vanity case. Des. 73,258; Aug. 16.
- Heard, William A., Jacksonville, Fla. Vanity case. Des. 74,108; Dec. 20.
- Heard, William A., Jacksonville, Fla. Vanity case. Des. 74,109; Dec. 20.
- Hearn, George G., St. Petersburg, Fla. Protective device for automobile fuel tanks. 1,626,822; May 3.
- Hearn, Norval K., Yates Center, Kans. Radius-rod support. 1,649,691; Nov. 15.
- Heard, Alice E., assignor to Sterling Telephone & Electric Company, Limited, London, England. Telephone receiver. 1,614,551; Jan. 18.
- Heartfield, Henry, Brea, Calif. Renovating and reblocking hat brims. 1,625,839; Apr. 26.
- Hensler, James B., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Tracklaying tractor. 1,641,331; Sept. 6.
- Heasley, Charles W., Pittsburgh, Pa. Cuff link. 1,645,907; Oct. 18.
- Heath, Donald B., assignor to Boston Electric Heating Corporation, Whitman, Mass. Shoe-tempering machine. 1,619,724; Mar. 1.
- Heath, Earl R., assignor to The International Telephone Company, Columbus, Ohio. Party-line telephone. 1,650,354; Nov. 22.
- Heath, Frank, National City, Calif. Fish-segregating, directing, timing, and turning apparatus. 1,627,899; May 10.
- Heath, Frank E., Sherman Mills, Me. Oven grate. 1,637,303; July 26.
- Heath, George B., St. Louis, Mo. Reflector. 1,644,128; Oct. 4.
- Heath, Kenneth L., and L. School, Edmonds, Wash.; said School assignor to said Heath. Hair snap. 1,628,034; Mar. 29.
- Heath, Milbourn W., Jestersville, Md. Refrigerator. 1,616,085; Feb. 1.
- Heath, Reginald C. (See Goodridge, George E., assignor.)
- Heath, Samuel, Philadelphia, Pa. Combination vise for hook bars. 1,614,299; Jan. 11.
- Heath, Spencer, Baltimore, Md. Propeller-blade mounting. 1,620,968; Mar. 15.
- Heath, Spencer, Elkridge, Md. Aircraft-engine control. 1,651,821; Dec. 6.
- Heath, Will P., Chicago, Ill. Tuning radioreceivers. 1,638,734; Aug. 9.
- Heathcote, Henry L., assignor to Rudge-Whitworth Limited, Coventry, England. Manufacturing ball-rolling disks. 1,624,597; Apr. 12.
- Heather Mathews Co., The. (See Mathews, Robert F., assignor.)
- Heaton, Herman C., Berwyn, Ill. Brake. 1,640,545; Aug. 30.
- Heaton, William H., San Luis Obispo, assignor of one-half to C. M. Frey, San Francisco, Calif. Automobile power transmission attachment. 1,617,635; Feb. 15.
- Heaton, William H., Oakland, Calif. Fire extinguisher. 1,619,120; Mar. 1.
- Hebb, John A., Hopwood, Pa. Mine-car braking mechanism. 1,644,474; Oct. 4.
- Hebbard Manufacturing Company. (See Shackelford, Edward, assignor.)
- Hebden, Frank, assignor to Merrick Scale Mfg. Company, Passaic, N. J. Automatic weigher. Re16,666; July 5.
- Hebeler, Henry, jr., assignor to St. Louis Braid Company, St. Louis, Mo. Braid machine. 1,635,541; July 12.
- Hebenstreit, Emil H., Milwaukee, Wis. Upholstered box-spring structure. 1,628,977; May 17.
- Heberling, John, Rochester, N. Y. Pinwheel. 1,639,943; Aug. 23.
- Hebert, Henri, and J. A. Lambert, Montreal, Quebec, Canada. Shock absorber. 1,640,894; Aug. 30.
- Hebert, Homer P. (See Hebert, Joseph P. and H. P.)
- Hebert, Joseph P. and H. P., Chippewa Falls, Wis. Tool-head fastening. 1,642,814; Sept. 20.
- Hebrank, William F., Highland, Ill., assignor to Pet Milk Company, St. Louis, Mo. Can-printing machine. 1,638,750; Aug. 16.
- Hebrew, Joseph S., Masury, Ohio, and E. E. Ross, Sharon, Pa., assignors to Westinghouse Electric and Manufacturing Company. Reactor. 1,635,042; July 5.
- Hebs, William J., and J. Hultgreen, Chicago, Ill. Musical instrument. 1,646,059; Oct. 18.
- Hechinger, Herbert A., Dorchester, Mass. Electric-lamp display device. 1,652,825; Dec. 13.
- Hecht, Elsie, nee Heilmann, administratrix. (See Heilmann, Georg.)
- Hecht, Heinrich. (See Hahnemann, W., and Hecht.)

- Hecht, Heinrich. (See Hahnemann, W., Hecht, Lichte, and Adelman.)
- Hecht, Joseph L., et al. (See Einfeldt, Ernest E., assignor.)
- Hecht, Leo, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co. Inc. Lamp base or analogous article. Des. 74,110; Dec. 20.
- Heckel, Charles F., Newport, Ky., and E. Messer, Pittsburgh, Pa.; said Heckel assignor to said Messer. Air-blast gas burner. 1,637,772; Aug. 2.
- Hedman, Bruce C., Eureka, Calif. Fishing apparatus. 1,619,512; Mar. 1.
- Hecox, Roy C., Denver, Colo. Automobile hotel and garage. 1,634,498; July 5.
- Hedberg, William F., Kansas City, Mo. Joist form. 1,626,825; May 8.
- Heden, Vincent J., East Orange, N. J. Operating device for bookkeeping machines and the like. 1,632,228; June 14.
- Heddon, Charles, and J. T. Welch, assignors to James Heddon's Sons, Dowagiac, Mich. Reel seat for fishing rods. 1,624,052; Apr. 12.
- Heddon's James, Sons. (See Heddon, C., and Welch, assignors.)
- Heddon's, James, Sons. (See Welch, Jack T., assignor.)
- Hedeman, Walter R. (See Whitsitt, W. B., and Hedeman.)
- Hedemark, Edward L., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiocabinet. Des. 73,501; Sept. 20.
- Heden, Gustaf, New York, N. Y. Buoying and driving mechanism for fying machines. 1,615,452; Jan. 25.
- Hedenburg, Oscar F., Pittsburgh, Pa., assignor to Rex Research Corporation, Toledo, Ohio. Poison composition. 1,636,778; July 29.
- Hedenburg, Oscar F., and D. S. Pratt, Pittsburgh, Pa., assignors to The Toledo Rex Spray Company, Toledo, Ohio. Insecticide composition. 1,627,389; May 3.
- Hedenskoog, Ernest, Muskegon, Mich., assignor to The Brunswick-Bickel & Co. Company, Chicago, Ill. Pin spotter. 1,612,867; Jan. 4.
- Hedrick, William C., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck structure. 1,643,495; Sept. 27.
- Hedron, Mead, Syracuse, N. Y. Ironing roll. 1,636,471; July 19.
- Hedgion, Mead, Syracuse, N. Y. Portable ironing machine. 1,636,472; July 19.
- Hedgion, Mead, Syracuse, N. Y. Wall cabinet for ironing machines. 1,652,895; Dec. 13.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Change making and ejecting mechanism. 1,629,621; May 24.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Slug detector for coin-controlled machines. 1,630,427; May 31.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Control mechanism for motor-actuated doors. 1,634,665; July 5.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. One-man-car control equipment. 1,652,622; Dec. 13.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Emergency door-operating apparatus. 1,652,623; Dec. 13.
- Hedlund, Walter, Portland, Oreg. Vending machine. 1,645,236; Oct. 11.
- Hedrick, Abe T., High Island, Tex. Safety attachment for boilers. 1,650,212; Nov. 22.
- Hedrick, Arnold, Latham, Kans. Sod-line marker. 1,634,421; July 5.
- Hedrick, Joseph G. (See Gordon, Charles E., assignor.)
- Hedstrom, Carl O., et al. (See Carlson, Gustave O., assignor.)
- Heerner, Kurt, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for the regulation of the frequency in frequency changers. 1,639,695; Aug. 23.
- Heenan, Daniel, Streator, Ill. Combined reading lamp and electric fan. Des. 74,010; Dec. 6.
- Heenan & Froude Limited. (See Buiglin, William J., assignor.)
- Heenan and Froude Limited. (See Walker, George H., assignor.)
- Heenan, John N. D., Aldwych, London, England, assignor to Power Specialty Company, New York, N. Y. Superheating arrangement for water-tube boilers. 1,621,112; Mar. 15.
- Heene, George W., Cleveland, Ohio. Lock mechanism. 1,615,171; Jan. 18.
- Heene, Joseph P., and J. G. Mitchell, Chicago, Ill. Rubbler head for fountains. 1,621,724; Mar. 22.
- Heer, Gustave. (See Piehn, T. A., and Heer.)
- Heermance, Bernard L., Montrose, N. Y. Snow-melting apparatus. 1,629,160; May 17.
- Heesch, Henry W., assignor to Taylor Instrument Companies, Rochester, N. Y. Recorder-pen-arm release. 1,630,296; May 31.
- Heesch, Henry W., assignor to Taylor Instrument Companies, Rochester, N. Y. Pen for recording instruments. 1,630,297; May 31.
- Heesch, Henry W., and J. Schofield, assignors to Taylor Instrument Companies, Rochester, N. Y. Pen support for recording instruments. 1,648,227; Nov. 8.
- Heese, Henry, Jersey City, N. J. Lightning-arrester system. 1,635,098; June 21.
- Heet, Anna E., administratrix. (See Heet, John B.)
- Heet, John B., deceased, Trenton, Ill.; A. E. Heet, administratrix. Socket for scaffold trestles. 1,642,069; Sept. 13.
- Heeter, Charles M., Butler, Pa. Spudding wheel. 1,640,237; Aug. 23.
- Heeter, Joseph W., Butler, Pa. Swab for wells and making the same. 1,650,273; Nov. 22.
- Heddlum, Roy W., and L. J. Courtney, Chicago, Ill. Bleeder attachment for air brakes. 1,619,821; Mar. 8.
- Heffelfinger, W. R. (See Schulte, Robert W., assignor.)
- Heffernan, John E., Houston, assignor to T. L. Smith, Jr., Harris County, Tex. Load-handling apparatus. 1,613,458; Jan. 4.
- Heffernan, Daniel M., Moonlight, Palmerston South, New Zealand. Automatic tractor and plow hitch. 1,640,237; Aug. 23.
- Heffer, David, et al. (See Ohlsson, Charles H., assignor.)
- Heffer, Ray, et al. (See Ohlsson, Charles H., assignor.)
- Heftl, Wilhelm, Vullingen, Switzerland, assignor to the firm of Gebrüder Sulzer Aktiengesellschaft, at Winterthur. Compressed-air installation for internal-combustion engines on board ships. 1,618,335; Feb. 22.
- Heftler, Victor R., Detroit, Mich. Filter. 1,641,485; Sept. 6.
- Heftl, Victor R., Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France. Carburetor. 1,652,859; Dec. 13.
- Heftler, Victor R., Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France. Carburetor. 1,653,628; Dec. 27.
- Hegarty, Daniel A., assignor to Mystic Washer Company, Houston, Tex. Spray head for boiler-washing machines. 1,625,851; Apr. 26.
- Heger, Björn. (See Elling, J. W. A., and Heger.)
- Hegz, Martin. (See Twedt, C. L., and Hegz.)
- Heggie, James. (See Corraill, H., and Heggie.)
- Heichen, Frederick H., assignor to The Lunkenhöfner Company, Cincinnati, Ohio. Valve. 1,626,532; Apr. 26.
- Heichmann, Frederick H., assignor to The Lunkenhöfner Company, Cincinnati, Ohio. Valve. 1,631,414; June 7.
- Heike, Adolf, assignor to Armour & Company, Chicago, Ill. Bullet-forming apparatus. 1,637,377; Aug. 2.
- Heidbreder, Herman H., Quincy, assignor to Wilson Stove & Manufacturing Company, Metropolis, Ill. Heating stove. Des. 71,792; Jan. 4.
- Heideman, Fred J., Detroit, Mich. Refrigerating apparatus. 1,634,831; July 5.
- Heideman, Fred J., assignor to T. C. Whitehead, Detroit, Mich. Compression valve. 1,637,821; Aug. 2.
- Heidenkamp, Joseph, et al., trustees. (See Germain, Edward F., assignor.)
- Heidenreich & Harbeck. (See Harbeck, Martin, assignor.)
- Heider, Henry J., Carroll, Iowa, assignor to Rock Island Tractor Company, Rock Island, Ill. Tractor. 1,652,358; Dec. 13.
- Heldt, Guilelmus V., Atlanta, Ga. Control for electrical systems. 1,646,860; Oct. 25.
- Heldt, Guilelmus V., Atlanta, Ga. Lubricating grease cup. 1,645,228; Nov. 8.
- Heilmann, Paul, Schildhorn, near Berlin, and P. Müller, assignors to the firm E. Hesse & Co. m. b. H., Berlin-Rosenthal, Germany. Tramway-switch construction. 1,637,304; July 26.
- Hell Co. The. (See Hell, Julius P., assignor.)
- Hell, Julius P., assignor to The Hell Co., Milwaukee, Wis. Gear-pump filter. 1,641,488; Sept. 6.
- Hell, Julius P., and A. Borcherdt, Milwaukee, Wis. Safety vent valve. 1,637,076; July 26.
- Heilbron, Jacob, assignor, by mesne assignments, to I. Goldring, Providence, R. I. Powder container. 1,644,377; Oct. 4.
- Heilbronner, Herbert E. (See Evans, H., and Heilbronner.)
- Heilbronner, Ralph L. (See Carlson, E. E., Costello, and Heilbronner.)
- Heilman, Maud, Lost Hills, Calif. Infant's stocking. 1,621,200; Mar. 15.
- Heilmann, Carl, Skelskor, Denmark. Machine adapted to catch and destroy bugs and similar noxious vermin on plants and bushes. 1,633,099; June 21.
- Heilwell, Samuel. (See Billet, B., and Heilwell.)
- Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,644,037; Oct. 4.
- Heim, Lewis R., Danbury, Conn., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,647,129; Nov. 1.
- Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,647,130; Nov. 1.
- Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,647,131; Nov. 1.
- Heiman, Charles, Philadelphia, Pa. Pivoted and sliding window sash. 1,615,274; Jan. 4.
- Heim, John, Houston, Tex. Protective top for stove. 1,613,999; Jan. 11.
- Heimann, Georg, deceased; E. Hecht, née Heimann, administratrix. Charlottenburg, Germany. Semiautomatic or automatic graded-service telephone system. 1,635,987; June 28.

- Heimbach, William H. (See Switzer, Henry W., assignor.)
- Heimborge, Herman F., Troy, N. Y. Bait. 1,618,083; Feb. 15.
- Heimer, Granville A., Nazareth, Pa. Game apparatus. 1,632,792; June 21.
- Heimel, Frank St. Nazianz, Wis. Oil heater for crank cases. 1,629,101; May 17.
- Heimgartner, Charles, and O. Stierli, Jersey City, N. J. Collar-button guard. 1,626,137; Apr. 26.
- Heln, George N., San Francisco, F. L. Platt, Berkeley, and R. L. Impey, San Francisco, Calif. Dispensing faucet. 1,636,817; July 26.
- Heln, George N., San Francisco, Calif. Hypodermic needle. 1,644,657; Oct. 4.
- Heln, Richard, Witkowitz, Czechoslovakia. Rolling mill. 1,614,612; Jan. 18.
- Heina Radio Corporation. (See Heina, William M., assignor.)
- Heina, William M., Bronx, N. Y., assignor to Heina Radio Corporation. Portable radio apparatus. 1,626,464; Apr. 26.
- Heinbockel, John F., and A. V. Sullivan, San Francisco, Calif. Automatic feed for fish-cleaning machines. 1,653,906; Dec. 27.
- Heine Boiler Company. (See Cotton, Alfred, assignor.)
- Heine Boiler Company. (See Egsleker, Albert H., assignor.)
- Heine Boiler Company. (See Hinman, John H., assignor.)
- Heine Boiler Company. (See Hinman, J. H., and Burke, assignors.)
- Heine Boiler Company. (See Pahnmeier, Frederick O., assignor.)
- Heine Boiler Company. (See Siegerist, Walter, assignor.)
- Heineke, Martin L., assignor to The Weaver Manufacturing Company, Springfield, Ill. Tire-removing attachment for tire changers. 1,651,389; Dec. 6.
- Heinemann, Warren F., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Bait welding by means of an electric arc. 1,653,565; Dec. 20.
- Helney, John W., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Radiator mount. 1,631,961; June 14.
- Heinicke, Hermann, Leeb, near Teltow, assignor to P. Jung, Neukulin, Germany. Apparatus for ascertaining the compositions of gaseous mixtures. 1,646,247; Oct. 18.
- Heinisch, Hubert G., Huntington, W. Va. Fireplace. 1,640,937; Aug. 30.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,315; Mar. 29.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,317; Mar. 29.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,421; Apr. 12.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,422; Apr. 12.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,423; Apr. 12.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,424; Apr. 12.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,425; Apr. 12.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 72,767; May 31.
- Heinle, Albert W., Crafton, assignor to one-half to H. F. Gush, Pittsburgh, Pa. Rolling hollow rounds. 1,624,340; Apr. 12.
- Heinle, Albert W., Crafton, assignor to one-half to S. E. Duff, Ben Avon, Pa. Rolling structural units. 1,652,860; Dec. 13.
- Heinale, Henry C., Jr., Huntington Park, Calif. War air liberator. 1,644,920; Oct. 11.
- Heinrich, Jules. (See Currier, K. G., and Heinrich.)
- Heinrich, Jules. (See Vandergaaf, E. B., and Heinrich.)
- Heinrich, Robert, and P. Kramer, assignors to National Machine Tool Co., Racine, Wis. Metal shears. 1,647,622; Nov. 1.
- Heinrich, Walter A., assignor to W. N. Matthews Corporation, St. Louis, Mo. Anchor. 1,643,769; Sept. 27.
- Heinrichs, Berg, assignor to Midwest Box Company, Chicago, Ill. Wrapper-making machine. 1,619,615; Mar. 1.
- Heinrichs, Jos., Corporation. (See Scavullo, Angelo C., assignor.)
- Helson, Ernest T., Mountain Iron, Minn. Open-air sleeping room. 1,643,070; Sept. 20.
- Helson, Ernest T., Mountain Iron, assignor of ten per cent to T. H. Strizich, Hibbing, Minn. Waterless cooker. 1,640,190; Aug. 23.
- Helson, Ernest T., Mountain Iron, assignor of ten per cent to T. H. Strizich, Hibbing, Minn. Waterless cooker. 1,640,191; Aug. 23.
- Heintz, Ernest E. (See Archer, T. P., and Heintz.)
- Heintz, Ernest E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Window regulator. 1,638,197; Aug. 9.
- Heintz, Ernest E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Remote control latch. 1,638,198; Aug. 9.
- Heintz, James C., Lakewood, Ohio. Vulcanizing apparatus. 1,623,677; Apr. 5.
- Heintz, Leo I., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Post connection for vehicle bodies. 1,629,271; May 17.
- Heintz, Leo I., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Post construction for vehicle bodies. 1,642,368; Sept. 13.
- Heintz Manufacturing Company. (See Fiechter, John J., assignor.)
- Heintz Manufacturing Company. (See Heintz, Leo I., assignor.)
- Heintz Manufacturing Company. (See Lambert, Albert L., assignor.)
- Heinz, Elizabeth S., administratrix. (See Heinz, Nicholas L., assignor.)
- Heinz, John L. C., Chicago, Ill. Hinge with automatic lifting and locking means. 1,631,527; June 7.
- Heinz, Julius A., deceased, Pesotum, Ill.; K. K. Heinz and F. B. Hamill, executors. Floral rack. 1,652,936; Dec. 13.
- Heinz, Julius A., deceased, Pesotum, Ill.; K. K. Heinz and F. B. Hamill, executors. Floral rack. 1,652,937; Dec. 13.
- Heinz, Kathryn K., et al., executors. (See Heinz, Julius A.)
- Heintz, Nicholas L., deceased, Walworth, Wis., E. S. Heinz, administratrix. Internal-combustion engine. 1,633,251; June 21.
- Heinze, Carl, Maschinenfabrik A. G. (See Kraney, Karl F., assignor.)
- Heinze, Fritz, Ludwigshafen-on-the-Rhine, assignor to I. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of diammondiaryurea. 1,617,847; Feb. 15.
- Heinze, Paul, Detroit, Mich. Lettering device. 1,632,966; June 21.
- Heinzelman, Edmund G., Belleville, Ill. Steering-wheel brake. 1,624,598; Apr. 12.
- Hele, August, Milwaukee, Wis. Submarine. 1,653,175; Dec. 20.
- Heise, George W., Bayside, and E. A. Schumacher, Brooklyn, N. Y., assignors to National Carbon Company, Inc. Primary galvanic cell and electrode therefor. 1,615,839; Feb. 1.
- Heise, George W., Bayside, N. Y., H. H. Thompson, Cleveland, Ohio, and N. K. Caney, K. Gardens, N. Y., assignors to National Carbon Company, Inc. Dry cell and electrode therefor. 1,624,409; Apr. 12.
- Heise, William H. (See Schurch, Jacob H., assignor.)
- Heise, William H., Los Angeles, Calif. Truck elevator utilizing parallel motion. 1,620,256; Mar. 8.
- Heise, William H., Los Angeles, Calif. Truck elevator. 1,629,880; May 17.
- Heise, William H., Los Angeles, Calif. Stretcher. 1,639,801; Aug. 23.
- Helsel, Ralph E., Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Paper-making apparatus. 1,643,667; Sept. 27.
- Helsel, Ralph E., Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Paper-making machinery. 1,648,229; Nov. 8.
- Heisey, A. H., & Company. (See Coble, Ray C., assignor.)
- Heisey, A. H., & Company. (See Heisey, Edgar W., assignor.)
- Heisey, A. H., & Company. (See Heisey, Thomas C., assignor.)
- Heisey, Edgar W., assignor to A. H. Heisey & Company, Newark, Ohio. Saucer or similar article. Des. 72,064; Feb. 22.
- Heisey, Thomas C., assignor to A. H. Heisey & Company, Newark, Ohio. Tumbler. Des. 73,031; July 12.
- Heisey, Thomas C., assignor to A. H. Heisey & Company, Newark, Ohio. Combination salt and pepper shaker. Des. 73,032; July 12.
- Heisey, Thomas C., assignor to A. H. Heisey & Company, Newark, Ohio. Combination salt and pepper shaker. Des. 73,377; Aug. 30.
- Heisey, Thomas C., assignor to A. H. Heisey & Company, Newark, Ohio. Combination salt and pepper shaker. Des. 73,431; Sept. 13.
- Heisey, Thomas C., assignor to A. H. Heisey & Company, Newark, Ohio. Candlestick. Des. 74,012; Dec. 6.
- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier wave filter. 1,613,949; Jan. 11.
- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency indication and control. 1,620,204; Mar. 8.
- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier wave signaling system. 1,620,656; Mar. 15.
- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier signaling system. 1,654,080; Dec. 27.

- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Directive radio receiving system. 1,620,655; Mar. 15.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plural channel signaling. 1,633,100; June 21.
- Heiter, Henry L., Brooklyn, N. Y. Container. 1,650,712; Nov. 29.
- Heldland, Wilmet E., Noroton Heights, Conn., assignor to W. H. & A. Margerison & Co., Philadelphia, Pa. Des. 72,946; June 28.
- Heltzer, Steven, New York, N. Y. Heater. 1,621,668; Mar. 22.
- Heltmann, Moritz J., Freital-Potschappel, near Dresden, Germany. Emulsified solid grease. 1,632,027; June 14.
- Hlma, Václav, Brno, Czechoslovakia. Cutting device for reaping, mowing, and like machines. 1,627,644; May 10.
- Hlma, Wenzel, Brno, Czechoslovakia. Motor spade. 1,636,418; July 19.
- Holberger, Hugo, Munich, Germany. Powdered-soap-dispensing device. 1,637,189; July 26.
- Holbig, Friedrich, Karlsruhe, Germany. Heating furnaces. 1,625,082; Apr. 19.
- Held, Georges, assignor to A. L. Legrand, Paris, France. Two-cycle internal-combustion engine. 1,613,226; Jan. 4.
- Held, Paul, St. Cloud, Minn. Slide. 1,627,970; May 10.
- Heldman, Max I. (See Minuth, Gustave W., assignor.)
- Heldrich, Andrew. (See Watson, H. L. and Heldrich.)
- Heligott, Solomon, New York, N. Y. Teeth-cutting lathe attachment. 1,617,807; Feb. 15.
- Helge, Gustav, assignor of one-half to G. W. Nuneman, Brooklyn, N. Y. Window latch and draft plate. 1,630,849; Aug. 23.
- Helios Corporation. (See Proksa, John, assignor.)
- Helland, Sigurd H., assignor to Whitin Machine Works, Whitinsville, Mass. Twisting head for spinning machines. 1,628,778; May 17.
- Hellawell, Harry H., Fair Lawn, and F. Radhuber, assignors to The Schwarzenbach-Huber Company, Union City, N. J. Cushion for creels or jacks. 1,653,566; Dec. 20.
- Heller, B. & Company. (See Alsberg, Julius, assignor.)
- Heller, David, and A. C. Farlini, New York, N. Y. Fruit peeler. 1,640,656; Aug. 30.
- Heller, Earl R., Wapwallopen, Pa. Combination foot rest and robe container. 1,619,725; Mar. 1.
- Heller, Hans E., Stockton, Calif. Jumbo for tunnel forms. 1,621,538; Mar. 22.
- Heller, Israel E. (See Sackerman, M. G., and Heller.)
- Heller, John W., Arlington, Kans. Headlight-door remover and replacer. 1,633,528; June 21.
- Heller, Joseph, New York, N. Y. Aerial toy. 1,651,273; Mar. 29.
- Heller, Paul E., Newark, N. J. Golf club. Re16,808; Dec. 6.
- Heller, William M. (See Stein, C., and Heller.)
- Hellman, Charles F., Los Angeles, Calif. Terminal clamp. 1,613,104; Jan. 4.
- Hellman, Edward R. (See Olson, J. A., and Hellman.)
- Hellman-Hupfel, Inc. (See Hupfel, A. G., jr., and Rector, assignors.)
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Frequency-changing aggregate. 1,627,826; May 3.
- Hellstrand, Edward A., Guildford, England. Motor vehicle. 1,651,888; Dec. 6.
- Hellstrom, John A. (See Jenkins, William L., sr., assignor.)
- Hellstrom, John A., Wheeling, W. Va. Manipulator for rolling mills. 1,618,707; Feb. 22.
- Hellstrom, Simon. (See Tillberg, Erik W., assignor.)
- Hellthaler, Theodor, Granzschutz, assignor to the Firm: Hugo Stinnes Riebeck Montan and Olwerke Akt. Ges., Halle-on-the-Saale, Germany. Refining mineral oils. 1,643,272; Sept. 20.
- Hellthaler, Theodor, Granzschutz, assignor to the Firm: Hugo Stinnes Riebeck Montan and Olwerke Akt. Ges., Halle-on-the-Saale, Germany. Refining mineral oils. 1,645,590; Oct. 18.
- Hellums, Oscar S., Dawson, Tex. Cotton chopper. 1,631,032; May 31.
- Hellweg, Henry, assignor to Helzen Corporation, Milwaukee, Wis. Car heater. 1,627,590; May 10.
- Hellwig, Emil C., Denver, Colo. System of motor control. 1,622,112; Mar. 22.
- Hellyer, Clement D., Los Angeles, Calif. Cutting tool. 1,649,899; Nov. 22.
- Helm, Arthur C., McCook, Nebr. Well casing. 1,613,105; Jan. 4.
- Helm, Henry C. (See Helm, John and H. C.)
- Helm, John and H. C., St. Louis, Mo. Mail box. 1,628,881; May 17.
- Helma, Paul, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Rigid airship. 1,642,024; Sept. 13.
- Helman, Leslie. (See Lantz, Alpha D., assignor.)
- Helmmer, Ralph E., Cleveland, Ohio, assignor to The Re Fil Broom Company, Buffalo, N. Y. 1,648,943; Nov. 15.
- Helmholtz, Arthur W. (See Crawford, J. H., Helmholtz, and Ferrell.)
- Helmick, Frederic, Fairmont, W. Va. Mine car. 1,648,901; Nov. 15.
- Helmig, Leon W., Baltimore, Md. Vehicle attachment. 1,636,997; July 26.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,650,224; Mar. 31.
- Helmquest, William J., assignor to California Card Manufacturing Company, San Francisco, Calif. Picture mounting. Des. 72,211; Mar. 15.
- Helmquest, William J., assignor to California Card Manufacturing Company, San Francisco, Calif. Picture mounting. Des. 72,518; Apr. 28.
- Helmquest, William J., assignor to California Card Manufacturing Company, San Francisco, Calif. Picture-easel mount. Des. 73,832; Nov. 15.
- Helmstein, Lars G. H. (See Collin, T., and Helmstein.)
- Helmus, Adolph C. (See Graham, G., and Helmus.)
- Helmuth, Frank J., Oakland, Calif. Lock. 1,647,354; Nov. 1.
- Heloian, Ernest, Highland Park, Mich. Dish stand. 1,643,450; Sept. 27.
- Helzel, John N., Warren, Ohio. Expansion pedestal. Re16,694; Aug. 9.
- Helzel, John N., Warren, Ohio. Concrete form. 1,628,316; May 10.
- Helzel, John N., Warren, Ohio. Curb and gutter form. 1,637,998; Aug. 2.
- Helzel, John N., Warren, Ohio. Concrete form. 1,644,584; Oct. 4.
- Helzel, John N., Warren, Ohio. Concrete form. 1,644,585; Oct. 4.
- Helzel, John N., Warren, Ohio. Concrete form. 1,644,586; Oct. 4.
- Helzel, John N., Warren, Ohio. Concrete form. 1,644,587; Oct. 4.
- Helzel, John N., Warren, Ohio. Concrete form. 1,644,588; Oct. 4.
- Helze, Gilbert O., Dawson, and O. G. Munsen, Monte video, Minn. Vermia trap. 1,613,227; Jan. 4.
- Helzen Corporation. (See Hellweg, Henry, assignor.)
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Computing scale. 1,619,121; Mar. 1.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Testing device. 1,619,122; Mar. 1.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Integrating scale. 1,619,123; Mar. 1.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Platform lever mechanism for scales. 1,627,702; May 10.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Recording weighing scale. 1,640,078; Aug. 23.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,651,274; Nov. 29.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,622,113; Mar. 22.
- Hem, Halvor W., assignor to Toledo Scale Company, Toledo, Ohio. Beam-locking device. 1,640,079; Aug. 23.
- Hemmerger, Peter, Jersey City, N. J. Perforating attachment for printing presses. 1,618,191; Feb. 22.
- Hemenway, Walter G., Los Angeles, Calif. Carbureting apparatus. 1,634,782; July 5.
- Hemingray Glass Company. (See Holmes, Minot K., assignor.)
- Hemingway, Marcus B., New Haven, Conn. Scuttle ladder. 1,621,559; Mar. 22.
- Hemingway, Wilson Jr., Melrose, Pa., assignor to The Electrolock Manufacturing Company, Vicksburg, Miss. Automobile locking means. 1,631,267; June 7.
- Hemingway, Wilson Jr., assignor to The Electrolock Manufacturing Company, Vicksburg, Miss. Ignition system and switch therefor. 1,641,140; Aug. 20.
- Hemingway, Wilson Jr., Philadelphia, Pa., assignor to The Electrolock Manufacturing Company, Vicksburg, Miss. Lock or locking device. 1,647,567; Nov. 1.
- Hemleb, Martin, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Shaft bearing. 1,631,962; June 14.
- Hemminger, Charles E., Princeton, N. J. Package. 1,649,692; Nov. 15.
- Hempen, Fred J., and O. Lipsmeier, Ariviston, Ill. Receptacle and handle therefor. 1,623,409; Apr. 5.
- Hemphill Company. (See Bosworth, George P., assignor.)
- Hemphill Company. (See Gagné, Augustin, assignor.)
- Hemphill Company. (See Jones, Frank E., assignor.)
- Hemphill Company. (See Landry, Aldei, assignor.)
- Hemphill Company. (See Lawson, Robert H., assignor.)
- Hemphill Company. (See Taubel, Clarence H., assignor.)
- Hemphill, Edward A., Jersey City, N. J. Index and system of indexing. 1,643,161; Sept. 20.
- Hemphill, Grover H., Cincinnati, Ohio. Combination headlight-dimming and spotlight-controlling means. 1,627,645; May 10.
- Hempleman, Lynn H., Twin Falls, Idaho. Calculating device. 1,637,222; July 26.
- Hempy J., William J., Kansas City, Mo. Babbitting jig. 1,618,430; Feb. 22.
- Hencken, John K., Brooklyn, N. Y. Conveyor. 1,615,453; Jan. 25.
- Hendee, Lem E., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Line insulator. 1,651,704; Dec. 6.

- Hendel, Richard, New London, Conn., assignor to E. W. Sutton Carpet Lining Corporation, Brooklyn, N. Y. Rug pad. 1,622,035; Mar. 22.
- Henderson, A. E., Toronto, Ontario, Canada. Valve base for pneumatic tires. 1,639,998; Aug. 23.
- Henderson, Ada, Wampsville, N. Y. Rubber protector for stockings. 1,619,934; Mar. 8.
- Henderson, Albert, assignor; by mesne assignments, to Henderson Structural Units Company, Pittsburgh, Pa. Building construction. 1,642,952; Sept. 20.
- Henderson, Albert E., Toronto, Ontario, Canada. Container for first-aid kits. 1,644,830; Oct. 11.
- Henderson, Albert E., Toronto, Ontario, Canada. Airship. 1,645,237; Oct. 11.
- Henderson, Albert E., Toronto, Ontario, Canada. Aeroplane projectile. 1,646,146; Oct. 18.
- Henderson, Fred, et al. (See Edwards, George A., assignor.)
- Henderson, George C., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Fifth-wheel assembly. 1,627,176; May 3.
- Henderson, George G., deceased; M. P. Henderson, executrix, Sewickley, Pa. Wire-shaping apparatus. 1,631,170; Jan. 4.
- Henderson, George K., Indianapolis, Ind. Box. 1,641,969; Sept. 13.
- Henderson, George K., Indianapolis, Ind. Sealing machine. 1,641,970; Sept. 13.
- Henderson, Harry M., Washington, D. C. Liquid-discharging machine. 1,653,469; Dec. 20.
- Henderson, Herbert. (See Prichard, G. L., and Henderson.)
- Henderson, James B., Lee, England. Sighting telescope. 1,616,660; Feb. 8.
- Henderson, James B., Lee, England. Gyrocompass. 1,615,361; Apr. 10.
- Henderson, James B., Lee, England. Sighting device. 1,628,776; May 17.
- Henderson, James B., Lee, England. Telescopic apparatus. 1,628,777; May 17.
- Henderson, James B., Lee, England. Gyroscopic instrument and apparatus. 1,644,921; Oct. 11.
- Henderson, James B., Blackheath, England. Fire-control apparatus. 1,621,201; Mar. 15.
- Henderson, James B., Blackheath, England. Optical instrument. 1,651,025; Nov. 29.
- Henderson, James W., Scranton, Pa. Ticket holder. 1,617,053; Feb. 8.
- Henderson, John C., New York, N. Y., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Heating means for sheet-glass apparatus. 1,649,031; Nov. 15.
- Henderson, Mary P., executrix. (See Henderson, George G.)
- Henderson, Nelson H., assignor to Syracuse Industrial Gas Co., Syracuse, N. Y. Dishwashing machine. 1,626,194; Apr. 26.
- Henderson, Paul S., Chattanooga, Tenn. Candy-crystallizing machine. 1,650,513; Nov. 22.
- Henderson, Ralph L., Charleston, W. Va. Fishing tool. 1,635,622; July 12.
- Henderson, Robert H., East Orange, N. J. Bender for light-gauge conduits or pipes. 1,627,034; May 3.
- Henderson, Robert H., East Orange, N. J. Overhead-lifting machine. 1,641,831; Oct. 11.
- Henderson, Robert H., East Orange, N. J. Extensible chuck for boring tools. 1,644,832; Oct. 11.
- Henderson Structural Units Company. (See Henderson, Albert, assignor.)
- Henderson, Wilburn H., El Paso, Tex. Internal-combustion engine. 1,619,971; Mar. 1.
- Henderson, William, New York, N. Y. Came machine. 1,631,814; June 7.
- Henderson, William, New York, N. Y. Came machine. 1,632,793; June 21.
- Henderson, William F., Pittsburgh, Pa., assignor; by mesne assignments, to Visking Corporation, Chicago, Ill. Sausage casing, etc. 1,645,050; Oct. 11.
- Henderson, William F., Pittsburgh, Pa., assignor; by mesne assignments, to Visking Corporation, Chicago, Ill. Method of and apparatus for making sausage casings. 1,654,253; Dec. 27.
- Henderson, William F., assignor to The Visking Corporation, Chicago, Ill. Preparation of sausage casings for stuffing. 1,616,971; Feb. 8.
- Henderson, William F., assignor to The Visking Corporation, Chicago, Ill. Stuffer horn. 1,617,848; Feb. 15.
- Henderson, William W., Bath, N. Y. Power transmission. 1,641,428; Sept. 18.
- Henderson, Wylie E., Lanett, Ala. Tool clearer for roving frames. 1,631,727; June 7.
- Hendey Machine Company, The. (See Knight, George H., assignor.)
- Hendin, Israel. (See Pukt, A. J., and Hendlin.)
- Hendrick, Victor P., et al. (See Lindsey, George C., assignor.)
- Hendricks, Albert E., assignor to King Pneumatic Tool Company, Chicago, Ill. Throttle valve for pneumatic tools. 1,644,523; Oct. 4.
- Hendricks, James T., Holliday, Tex. Traveling valve. 1,641,000; Jan. 11.
- Hendricks, John A., assignor of one-half to W. Maple, Long Beach, Calif. Pumping device. 1,615,761; Jan. 25.
- Hendricks, Royal E., San Francisco, Calif. Electric scrubbing machine. 1,644,189; Oct. 4.
- Hendricks, Walter, Pendleton, Oreg. Hand truck. 1,637,640; Aug. 2.
- Hendricks, Dan C., Wichita Falls, Tex., assignor of one-half to W. K. Campbell and one-half to L. D. Baird, Tulsa, Ok. Cart-retractor. 1,643,711; Sept. 27.
- Hendricks, Fred K., assignor to The Whitin Machine Works, Whitinsville, Mass. Spinning machine. 1,628,778; May 17.
- Hendrickson, Harry H., Aravaipa, assignor to Grand Central Mining Company, Phoenix, Ariz. Preparing ore for flotation. 1,620,761; Mar. 15.
- Hendrickson, Henry P., Santa Rita, assignor of forty per cent to J. L. Del Monte and ten per cent to M. C. Frank, Oakland, Calif. Bunch rake. 1,633,017; June 21.
- Hendrickson, James G., Bayonne, N. J. Writing and drawing apparatus. 1,642,369; Sept. 13.
- Hendrickson, John W. (See Rich, David, assignor.)
- Hendrickson, Norton T., and C. Robolt, Hoople, N. Dak. Fly swatter. 1,631,864; June 7.
- Hendrickson, Norton T., and C. Robolt, Hoople, N. Dak. Fly swatter. 1,639,292; Aug. 16.
- Hendrickson, Rutlaway J., Portland, Oreg. Flash light for doors. 1,647,001; Oct. 25.
- Hendrie, George A. (See Pevere, E. F., and Hendrie.)
- Hendriks, Mathew, Ogema, Saskatchewan, Canada. Safety device for saddle stirrups. 1,622,510; Mar. 29.
- Hendrix, William R., Wilmington, Calif. Disk brake. 1,652,130; Dec. 6.
- Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc. Electronic-discharge device. 1,628,045; May 10.
- Hendry, William F., Ossining, assignor; by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,631,200; June 7.
- Hendry, William F., Ossining, assignor; by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,631,528; June 7.
- Hendry, William F., Ossining, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Electric bell. 1,633,583; June 28.
- Hendry, William F., Ossining, assignor; by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,637,446; Aug. 2.
- Hendry, William F., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrode structure for electron-discharge devices. 1,632,135; June 14.
- Hendry, William F., Ossining, assignor; by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,644,017; Oct. 4.
- Hendry, William F., Ossining, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Connecting device. 1,647,355; Nov. 1.
- Hendry, William F., Ossining, assignor; by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Machine for handling articles. 1,647,356; Nov. 1.
- Hendry, William F., Ossining, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Connector for electrical conductors. 1,654,264; Dec. 27.
- Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Incorporated. Advertising-sign system. 1,654,255; Dec. 27.
- Hendryx, Andrew B., Company, The. (See Hendryx, Nathan W., assignor.)
- Hendryx, Nathan W., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird cage. Des. 73,784; Nov. 8.
- Hendsh, Henry H., Bakersfield, Calif. Displaying device. 1,637,305; July 26.
- Hendy, Joshua, Iron Works. (See Gfeller, Frederick, assignor.)
- Hengstenberg, Paul M., Wilksburg, Pa., assignor to Vysing Electric & Manufacturing Company. Short-circuiting device. 1,642,070; Sept. 13.
- Henigen, Harold A. (See Shrum, P. J., and Henigen.)
- Henke, Frederick, assignor; by mesne assignments, to A. H. Fox Gnn Company, Philadelphia, Pa. Toy gun. 1,644,058; Oct. 4.
- Henke, Frederick, Philadelphia, Pa., assignor to Fox Automotive Products Corporation. Electric switch. 1,649,590; Nov. 15.
- Henke, Frederick W., Jr., assignor to Fox Automotive Products Corporation, Philadelphia, Pa. Lock for sport automobiles. 1,625,657; Apr. 19.
- Henke, Frederick W., Jr., assignor to Fox Automotive Products Corporation, Philadelphia, Pa. Automobile tire lock. 1,625,658; Apr. 19.
- Henkel, Frederick, Norwalk, Calif. Aquatic carousel. 1,647,623; Nov. 1.
- Henker, Otto, assignor to the Firm Carl Zeiss, Jena, Germany. Apparatus for the objective of the design of the refractive value of the principal point of the eye. 1,613,653; Jan. 11.
- Henker Otto, assignor to the Firm Carl Zeiss, Jena, Germany. Refractometer. 1,649,064; Nov. 15.
- Henker Otto, assignor to The Firm of Carl Zeiss, Jena, Germany. Refractometer. 1,649,114; Nov. 15.
- Henneballe, Frank, Chicago, Ill. Combined relief and vacuum valve. 1,617,711; Feb. 15.

- Hennebute, Henri, and E. Goutal, Paris, France. Apparatus for effecting chemical reactions. 1,650,713; Nov. 29.
- Hennen, Albert E., Wheeling, W. Va. Combined powder container and toothbrush holder. 1,638,397; Aug. 9.
- Hennes, Albert J., Cincinnati, Ohio. Broom protector and stand. 1,624,410; Apr. 12.
- Hennes, Peter, Menomonee Falls, Wis. Cultivator. 1,648,024; Oct. 13.
- Hennessey, Thomas B. (See Nelson, W. E., and Hennessey.)
- Hennessey, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Branding. 1,621,557; Mar. 22.
- Hennessey, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanization. 1,628,183; Apr. 5.
- Hennessey, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Stitching. 1,633,326; June 21.
- Hennessey, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Impregnating and vulcanizing process. 1,642,546; Sept. 13.
- Hennessey, James J., New York, N. Y. Lubricator. 1,650,743; May 31.
- Hennessey, James J., New York, N. Y. Lubricator. 1,653,278; Dec. 20.
- Hennessey, James J., New York, N. Y. Lubricator. 1,653,279; Dec. 20.
- Hennicke, Charles A., Buffalo, N. Y., assignor to The Eberhard Manufacturing Company, Cleveland, Ohio. Door control. 1,640,989; Aug. 30.
- Hennig, Albert, assignor to Anker-Werke Aktiengesellschaft, Bielefeld, Germany. Thread tightener. 1,624,898; Apr. 12.
- Henninger, Albert B., Berlin, Germany. Steering gear for automobile vehicles. 1,633,209; June 21.
- Hennings, Charles H., assignor to F. and H. Mfg. Co., Chicago, Ill. Bird-cage stand. Des. 73,176; Aug. 2.
- Henningsen, Hans P. (See Burger, William A., assignor.)
- Henningsen, Knud, Chicago, Ill. Clamp for scaffolding or the like. 1,627,177; May 3.
- Henningsen, Noble, Salem, Oreg. Gasoline-dispensing stand. 1,634,541; July 5.
- Henri, Jules. (See Buckles, E. C., Henri, and Clow.)
- Henrich, Fritz W. A., Boston, Mass. Reversing mechanism. 1,627,454; May 3.
- Henricks, Henry E., Beaver, assignor to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Bath-tub. Des. 73,911; Nov. 22.
- Henricson, Edward A., Chicago, Ill. Extension table. 1,647,224; Nov. 1.
- Henricson, Edwin, Detroit, Mich. Holder for punches or other tools. 1,638,261; Aug. 9.
- Henrikson, Carl G. (See Jones, L. S., Fisher, and Henrikson.)
- Henriot, Louis, Paris, France. Carburetor. 1,626,085; Apr. 26.
- Henriques, Chapman D., Larchmont, N. Y. Dispensing-container-sealing device. 1,635,122; July 5.
- Henry, Albert C. (See Henry, Ralph L., assignor.)
- Henry & Allen. (See Dickson, Frank H., assignor.)
- Henry, Augustus M., Brooklyn, assignor to W. W. Weiting, trustee, College Point, N. Y. Rotary casting. 1,617,904; Feb. 15.
- Henry, Beulah L., New York, N. Y. Play-ball covering. 1,634,146; June 28.
- Henry, Beulah L., assignor of one-half to E. A. Guinzburg, New York, N. Y. Poodle-dog doll. 1,634,189; June 28.
- Henry, Beulah L., assignor of one-half to E. A. Guinzburg, New York, N. Y. Water-sport apparatus. 1,639,607; Aug. 16.
- Henry, Beulah L., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Foot covering. 1,653,705; Dec. 27.
- Henry, Ferdinand G., New York, N. Y., assignor to Fairchild Aerial Camera Corporation. Control of gyroscopic-erecting systems. 1,627,178; May 3.
- Henry, George J. (See Wassel, Albert, assignor.)
- Henry, Guy P., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Tire carrier. 1,626,934; May 3.
- Henry, Howard W., assignor to General Motors Research Corporation, Dayton, Ohio. Bearing. 1,618,877; Feb. 22.
- Henry, Howard W., Newark, N. J., assignor to General Motors Research Corporation, Dayton, Ohio. Magnet. 1,641,384; Sept. 4.
- Henry, James N., Providence, R. I. Curtain-rod bracket. 1,632,071; June 14.
- Henry, John O., Jonesville, Ind. Bracket. 1,647,406; Nov. 1.
- Henry, Jules L., Ysleta, Tex. Land leveling machine. 1,639,182; Aug. 16.
- Henry, Leo L. and E. Hetherington, Cedar Rapids, Iowa. Child's teeter board. 1,640,150; Aug. 23.
- Henry, Martin, Verdun, Okla. Intake or exhaust valve construction for multiple-cylinder combustion motors. 1,618,878; Feb. 22.
- Henry, Nelson B., Atlanta, Ga. Gin. 1,630,005; May 24.
- Henry, Ralph L., Detroit, Mich., assignor to A. C. Henry, Inwood, Long Island, N. Y. Universal joint. 1,642,775; Sept. 20.
- Henry, Thomas J., Scranton, Pa. Railroad tie. 1,645,104; Oct. 11.
- Herl, William P., New York, N. Y. Bottle closure and making same. 1,640,192; Aug. 23.
- Henry, William T., Lake Charles, La. Receptacle holder. 1,616,574; Feb. 8.
- Henry, William T., Lake Charles, La. Mirror. 1,622,114; Mar. 22.
- Hesel, Fred, Sac City, Iowa. Door closer. 1,650,834; Nov. 29.
- Hensel, Henry, Milwaukee, Wis. Sausage casing and making the same. 1,645,425; Oct. 11.
- Hensel Silk Manufacturing Company. (See Hulme, Fred-eric G., assignor.)
- Hensel, Winold J., assignor to The Miller Rubber Company, Akron, Ohio. Display device for water bottles. 1,647,044; Oct. 25.
- Henshall, Percival P., assignor to John J. Nesbitt, Inc., Atlantic City, N. J. Motor-board suspension. 1,625,651; Apr. 19.
- Henshaw, Daniel M. (See Cooper C., and Henshaw.)
- Hensley, Albert C., Baton Rouge, La. Booth. Des. 73,833; Nov. 15.
- Hensley, Kellis S., Wanago, W. Va. Electrically-controlled cut-out. 1,623,115; Apr. 5.
- Hensley, William T. (See Cullane, Patrick, assignor.)
- Hensley, William T., Marion County, Ind. Pulley. 1,639,498; Aug. 16.
- Hensley, William T., Indianapolis, Ind. Pulley. 1,639,499; Aug. 16.
- Hensley, William T., Indianapolis, Ind. Split pulley. 1,639,500; Aug. 16.
- Hensley, William T., Indianapolis, Ind. Making pulleys. 1,639,501; Aug. 16.
- Hensley, William T., Indianapolis, Ind. Split pulley. 1,639,502; Aug. 16.
- Hensley, William T., Indianapolis, Ind. Pulley. 1,639,503; Aug. 16.
- Hensley, William T., Indianapolis, Ind. Pulley. 1,639,504; Aug. 16.
- Hensley, William T., Indianapolis, Ind. Pulley. 1,639,505; Aug. 16.
- Henson, Ernest S., Syracuse, N. Y. Dispenser. 1,653,096; Dec. 20.
- Henson, William P., Sacramento, Calif. Tire mold. 1,643,712; Sept. 27.
- Hentrich, Winfrid. (See Duisberg, W., Hentrich, and Zeh.)
- Hentrich, Winfrid. (See Duisberg, W., Hentrich, Zeh, and Buisson.)
- Hentrich, Winfrid, and M. Hardtmann, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Acid sulphuric acid ester compound of aromatic hydroxyalkylethers. 1,644,524; Oct. 4.
- Hengen, Eugen, Frauenfeld, Switzerland. Eye protector. 1,638,851; Aug. 16.
- Henwood, Abraham, Cynwyd, assignor, by mesne assignments, to R. M. Garey, Willow Grove, Pa. Preparation of hydrogen sulphide. 1,623,942; Apr. 5.
- Henwood, Lloyd S., assignor to The National Store Specialty Co., Lancaster, Pa. Liquid-dispensing tank. 1,632,289; June 14.
- Henzi, Albert A., Chicago, Ill., assignor to Goss Printing Press Company. Stereotype-plate mechanism. 1,637,641; Aug. 2.
- Hepner, Andrew L., Mathews, Va. Septic tank. 1,634,871; July 5.
- Hepner, William, Los Angeles, Calif. Hair structure. 1,634,190; June 28.
- Hepperle, William J., assignor to The Lamson Company, Syracuse, N. Y. Diverting and distributing mechanism for carrier systems. 1,616,415; Feb. 1.
- Hepperlen, John A., East Orange, N. J., assignor to General Electric Company. Motor-control system. 1,651,889; Dec. 6.
- Heppes, George P., Chicago Heights, Ill., assignor to The Rutkote Company, Boston, Mass. Roofing. 1,618,192; Feb. 22.
- Heppes, Otto A., La Grange, Ill., assignor to Flexible Slate Products Co. Floor covering. 1,614,127; Jan. 11.
- Hepworth, S. S., Company. (See Olcott, Charles A., assignor.)
- Herald Electric Company, The. (See Kurman, Nathan A., assignor.)
- Hernad, Gardner T., Westfield, N. J., assignor to General Electric Company. Arc welding. 1,648,683; Nov. 8.
- Herrius, W. C., Gesellschaft mit beschränkter Haftung. (See Mayer, Robert F., assignor.)
- Herbers, Hermann H. W., East Orange, N. J. Time-limit relay. 1,644,430; Oct. 4.
- Herbert, Alfred, Limited. (See Blyth, Charles E., assignor.)
- Herbert, Donald H., Spokane, Wash. Ore separator. 1,648,478; Nov. 8.
- Herbert, Frederick D., Upper Montclair, N. J., assignor to Mel Edge Filter Corporation. Filter. 1,646,404; Oct. 25.
- Herbiz, Henry F., Maplewood, N. J., assignor to The Commercial Cable Company, New York, N. Y. Method of and apparatus for amplifying electric signal impulses. 1,643,713; Sept. 27.
- Herbison, Ira, Plessis, N. Y. Game apparatus. 1,633,210; June 21.

- Herblin, Célestin, Paris, France. Fire extinguisher of liquid type. 1,617,251; Feb. 8.
- Herborn Engineering and Manufacturing Company, The. (See Bornhauser, O. E., and Herman, assignor.)
- Herbrand Company, The. (See Tibbels, Myron E., assignor.)
- Herbruck, Ralph A., Dayton, Ohio. Apparatus for use with hot-air heating systems. 1,645,140; Oct. 11.
- Herbst, Charles B., et al. (See Gloss, Alois A., assignor.)
- Herbst, George F., Underhill, Wis. Automatic lubricating cup. 1,640,407; Aug. 30.
- Hertz, Holte, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Self-aligning gear. 1,647,177; Nov. 1.
- Herbst, William K., Hillside, N. J., assignor, by mesne assignments, to Titeflex Metal Hose Co. Hose coupling. 1,630,895; May 31.
- Hercules Motor Corporation. (See Nelson, O., and Lignell, assignors.)
- Hercules Powder Company. (See Butts, Durain C., assignor.)
- Hercules Powder Company. (See Champney, Hubert H., assignor.)
- Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
- Hercules Powder Company. (See Norman, George M., assignor.)
- Hercules Powder Company. (See Shapleigh, J. H., and Bigelow, assignors.)
- Hercules Powder Company. (See Speicher, John K., assignor.)
- Hercules Powder Company. (See Symmes, Ernest M., assignor.)
- Herda, John. (See Bondersky, Paul M., assignor.)
- Herdman, William J., Toronto, Ontario, Canada. Apparatus for translating electrical energy into sound waves. 1,616,620; Feb. 8.
- Herdman, William J., Toronto, Ontario, Canada. Electro-therapeutic device. 1,617,157; Feb. 8.
- Herds, Edwin, New York, N. Y. Motor vehicle. 1,623,726; Apr. 5.
- Hergershausen, Katharina, Berlin, assignor to the Firm Metalland-Gummiwerke Aktiengesellschaft, Hanover-Lindern, Germany. Figure of animate objects. 1,626,533; Apr. 26.
- Hering, Carl, Philadelphia, Pa. Fibrous material and making the same. 1,636,511; July 19.
- Hering, Paul, Methuen, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Clutch for loom pattern mechanisms. 1,651,120; Nov. 29.
- Herkenrath, Frank, Santiago, Chile. Automatic feeder. 1,651,026; Nov. 29.
- Herklotz, Max, Berlin, Germany, assignor to General Electric Company. System of distribution. 1,633,860; June 28.
- Herkt, Ernst, Kiel, assignor to Fried. Krupp Germania-werft Aktiengesellschaft, Kiel Gaarden, Germany. Internal-combustion engine. 1,645,595; Oct. 18.
- Herman, Albert, Oakland, Calif. Garden tool. 1,652,478; Dec. 13.
- Herman, Claude A., Bridgeport, assignor to Reliable Mfg. Company, New Haven, Conn. Lamp shade. 1,654,482; Dec. 27.
- Herman, Ethel, et al. (See Herman, Henry, assignor.)
- Herman, Fred W. (See Laddon, I. M., Ring, and Herman.)
- Herman, Frederick J., Sacramento, Calif. Faucet. 1,635,123; July 5.
- Herman, Henry, assignor of one-third to E. Herman, one-third to M. Gennis, and one-third to H. Pordy, New York, N. Y. Button. 1,644,470; Oct. 4.
- Herman, Henry F., Chappaqua, assignor to Stratiline Radio Corporation, New York, N. Y. Electrical condenser. 1,629,867; May 24.
- Herman, Herbert L. (See Hargroves, L. W., and Herman.)
- Herman, John, Los Angeles, A. W. Allen, Berkeley, and E. R. Nowitt, Los Angeles, Calif. Ore-floatation process. 1,628,046; May 10.
- Herman, John E. (See Bornhauser, O. E., and Herman.)
- Herman, John E., Sandusky, Ohio. Antiglare attachment for motor vehicles. 1,648,230; Nov. 8.
- Herman, John H., and G. W. Jones, New Castle, Pa. Button. 1,643,010; Sept. 20.
- Herman, Joseph. (See Blackwell, O. B., and Herman.)
- Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Telegraph-distortion-measuring system. 1,613,704; Jan. 11.
- Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Intermediate telegraph set for duplex lines. 1,617,482; Feb. 15.
- Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Telegraph system. 1,618,193; Feb. 22.
- Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Method of and apparatus for synchronization in picture transmission. 1,626,731; May 3.
- Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Telegraph circuits. 1,634,286; July 5.
- Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Voltage regulator for vacuum tubes. 1,638,930; Aug. 16.
- Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Telegraph repeater. 1,652,242; Dec. 13.
- Herman, Karl, Chester, Pa. Windshield cleaner and drier. 1,653,176; Dec. 20.
- Herman, Samuel J., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler-cleaner construction. 1,635,997; July 19.
- Hermani, Henry, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Duplex closure for display containers. 1,620,156; Mar. 8.
- Hermani, Henry, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sheet-metal assembling and working machine. 1,620,205; Mar. 8.
- Hermani, Henry, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Rip-strip can. 1,627,640; May 10.
- Hermani, Henry, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Machine for feeding and coating metal sheets. 1,638,398; Aug. 9.
- Hermann, Clarence C. (See Litchfield, E. C., Speer, and Hermann.)
- Hermann, Franz J., Singen a./Hohentwiel, Germany. Threshing machine. 1,647,696; Nov. 1.
- Hermann, Frederick, Cleveland, Ohio. Fire extinguisher. 1,648,397; Nov. 8.
- Hermann, Otto, assignor to Thermo Electric Battery Company, Chicago, Ill. Thermocouple. 1,637,822; Aug. 2.
- Hermann, Otto, assignor to Thermo Electric Battery Co., Chicago, Ill. Thermocouple. 1,648,231; Nov. 8.
- Hermann, Otto L., St. Louis, Mo., assignor to C. L. Harvey, Detroit, Mich. Ledger rack. 1,649,471; Nov. 15.
- Hermann, Willy O., H. Deutsch, and W. Haehnel, assignors to Consortium für Elektrochemische Industrie G. m. b. H., Munich, Bavaria, Germany. Improving aldehyde resins. 1,643,496; Sept. 27.
- Hermann, Wolfgang, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Electric lamp. 1,634,832; July 5.
- Hermann, Wolfgang, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Dash lamp. 1,641,759; Sept. 6.
- Hermann, Wolfgang, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Ignition device. 1,644,190; Oct. 4.
- Hermanuz, Alfred. (See Hartmann, O. H., and Hermanuz.)
- Hermes, Maryanne, Fairmont, N. Dak. Nonrefillable bottle. 1,638,199; Aug. 9.
- Hermesmeier, Anthony J., assignor to H. M. Sheer Company, Quincy, Ill. Tandem water regulator. 1,635,083; July 5.
- Hermisdorf, Walter H. (See Goldberg, S. H., and Hermisdorf.)
- Hernandez, Margaret N., administratrix. (See Hernandez-Mejia, Arturo.)
- Hernandez-Mejia, Arturo, deceased, Nov. Rochelle; M. N. Hernandez, administratrix, assignor to Colorgraph Laboratory, Inc., New York, N. Y. Motion-picture photography and projection. 1,624,947; Apr. 19.
- Hernandez y Perez, Francisco, Habana, Cuba. Clamp. 1,637,654; Aug. 2.
- Hernandez, O. K. (See D'Yarmett, Edward C., assignor.)
- Herrndt, Plato D., et al. (See Wilson, Charles C., assignor.)
- Hernlund, John W. (See Blount, H., and Hernlund.)
- Herton, Pete, Hulbert, Ark. Cattle guard. 1,620,348; Mar. 8.
- Hero, George A., New Orleans, La. Method of and apparatus for setting pipe or casing and preventing seepage and leakage in wells. 1,641,035; Aug. 30.
- Herold, Arthur, Pittsburgh, Pa. Method of and apparatus for spraying liquids. 1,613,795; Jan. 11.
- Herold, James L. (See Dawson, J. W., and Herold.)
- Herold, James L., assignor to Barry-Wehmiller Machinery Co., St. Louis, Mo. Traveling conveyor. 1,652,277; Dec. 13.
- Herold, Lawrence C., Rocky River, Ohio. Brush. 1,637,823; Aug. 2.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,620,657; Mar. 15.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,620,658; Mar. 15.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster, slide, and the like. 1,649,525; Nov. 15.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,649,526; Nov. 15.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,649,527; Nov. 15.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,649,528; Nov. 15.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,649,529; Nov. 15.
- Herold, Walter F., Upper Montclair, N. J. Receptacle for cigarette ashes and the like. 1,652,826; Dec. 13.

- Heron, Robert P., deceased, Utica, N. Y.; J. Pickell, administrator. Liquid-measuring device. 1,644,589; Oct. 4.
- Heron, Sam D. (See Wade, V. M., Zimmerman, and Heron.)
- Heronimus, George, George, Iowa. Snow elevator and remover. 1,617,111; Feb. 8.
- Heronimus, Heye, Holland, Iowa. Corn-plater attachment. 1,616,799; Feb. 8.
- Herr, Harvey E., assignor to Herr Manufacturing Co., Inc., Buffalo, N. Y. Flier for spinning machines and the like. 1,614,552; Jan. 18.
- Herr, Henry C., assignor to Herr Manufacturing Co., Inc., Buffalo, N. Y. Flier for spinning machines and the like. 1,615,513; Jan. 4.
- Herr, Herbert T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,646,861; Oct. 25.
- Herr, Herbert T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bleeder turbine. 1,647,178; Nov. 1.
- Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company. Exhaust device for engines. 1,632,896; June 21.
- Herr Manufacturing Co. (See Herr, Harvey E., assignor.)
- Herr Manufacturing Co. (See Herr, Henry C., assignor.)
- Herr, John, near Lebanon, Ind. Blast release and conveying means. 1,647,519; Nov. 1.
- Herrdegen, Kurt, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Purifying alkali metal cyanide solutions containing sulphides. 1,633,488; June 21.
- Herrera, Anna E., Baltimore, Md. Facial-steaming apparatus. 1,637,077; July 26.
- Herrera, Manuel, New York, N. Y. Timer for gasoline engines. 1,617,808; Feb. 15.
- Hershoff, Lewis F., Bristol, R. I. Sail boat. 1,613,890; Jan. 11.
- Herrick, Ernest A., and T. L. MacBean, New York, N. Y. Bracing block. 1,632,072; June 14.
- Herrick, Ernest A., and T. L. MacBean, New York, N. Y. Timbering or bracing system. 1,634,104; June 28.
- Herrick, Rufus F., Winchester, Mass. Rubber-compound paving block. 1,637,667; Aug. 2.
- Herrick William T., Tulsa, Okla. Frictional unit control for multiradio sets. 1,619,419; Mar. 1.
- Herring-Hall-Marvin Safe Company. (See Breen, George, assignor.)
- Herring-Hall-Marvin Safe Company. (See Millice, Paul S., assignor.)
- Herring-Hall-Marvin Safe Company. (See Watson, Elmer E., assignor.)
- Herring, Jacob F., assignor of one-half to W. Spector, Staunton, Va. Device for applying tire chains. 1,630,006; May 24.
- Herring, John H. (See Schneiser, Theodore G., assignor.)
- Herrington, Arthur W., Baltimore, Md. Wheel mount for motor vehicles. 1,618,481; Feb. 22.
- Hertz, Frederick S., Los Angeles, Calif. Wind deflector for motor vehicles. 1,616,122; Feb. 1.
- Herrly, Clarence J. (See Young, C. O., and Herrly.)
- Herrly, Clarence J., Pittsburgh, Pa., assignor to The Prest-O-Lite Company, Inc. Lime-sludge product and method of the same. 1,635,212; July 12.
- Herrmann, Friedrich, Lincoln, Nebr. Shoe. 1,623,007; Mar. 29.
- Herrmann, Josef, and M. Stauber, Cologne, Germany. Filter. 1,649,405; Nov. 15.
- Herrmann, Karl L., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., and Detroit, Mich. Internal-combustion engine. 1,618,910; Jan. 11.
- Herrmann, Karl L., assignor to The Studebaker Corporation, Detroit, Mich. Internal-combustion engine. 1,618,194; Feb. 22.
- Herrmann, Karl L., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Testing apparatus. 1,618,965; Feb. 22.
- Herrmann, Karl L., Detroit, Mich., assignor to The Studebaker Corporation. Hobbing machine. 1,645,596; Oct. 18.
- Herrmann, Karl L., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Hobbing machine. 1,645,597; Oct. 18.
- Herrmann, William, Chicago, Ill. Screw driver. 1,628,144; May 10.
- Herrmann, Willy O. and H. Deutsch, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Manufacture of lincolin like substances. 1,625,852; Apr. 26.
- Herrmann, Willy O., and W. Haehnel, assignors to Consortium Fuer Elektrochemische Industrie, Munich, Germany. Stabilizing colloidal systems. 1,629,161; May 17.
- Herrod, Jessie O., Meridian, Miss. Fence stay. 1,647,918; Nov. 1.
- Herrold, Albert E. (See Frazier, G. H., and Herrold.)
- Herron, Joseph D., assignor to Fitz Gibbon & Crisp, Inc., Trenton, N. J. Hoisting truck. 1,641,971; Sept. 13.
- Herron, Ollie L. (See Alexander, Verne P., assignor.)
- Herron, Ollie L. (See Zimmers, J. B., and Herron.)
- Herschede Hall Clock Company. (See Herschede, Walter J., assignor.)
- Herschede Hall Clock Company, The. (See Nelson, Nels J., assignor.)
- Herschede, Walter J., assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Hall clock. Des. 72,426; Apr. 12.
- Herschekowitsch, Mordko, and P. Prausnitz, assignors to the Firm Schott & Gen., Jena, Germany. Filter. 1,620,815; Mar. 15.
- Hershe, Frederick C., Watertown, Mass. Constructing couplings for rheostats and the like. 1,625,604; Apr. 19.
- Hersee, Frederick C., Watertown, and N. T. Wiley, Somerville, Mass.; said Wiley assignor to said Hersee. Wheel-removing device. 1,618,195; Feb. 22.
- Herschberg, Karl, Berlin-Wilhelmshagen, and W. Herschberg, Berlin-Treptow, assignors to C. Lorenz Aktiengesellschaft, Berlin-Treppelhof, Germany. Sending impulses for automatic telephone exchanges. 1,642,202; Sept. 13.
- Hersey, Ralph E., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic control for energy transformers. 1,628,378; May 17.
- Hershey Manufacturing Company. (See Hershey, Orville S., assignor.)
- Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. Re16,612; Mar. 3.
- Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,641,811; Sept. 6.
- Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,644,922; Oct. 11.
- Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,645,382; Oct. 11.
- Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,653,567; Dec. 20.
- Hershfield, Lewis H., San Francisco, Calif. Traction-vehicle brake. 1,651,524; Dec. 6.
- Herskovitz, Leonard H., New York, N. Y. Smoker's set. Des. 72,210; Mar. 15.
- Herskovitz, Max, deceased, Chicago, Ill.; W. Herskovitz and C. Weinfield, executors; said W. Herskovitz now by judicial change of name William Herst. Illuminated ornamental device. 1,625,539; Apr. 19.
- Herskovitz, Max, deceased, Chicago, Ill.; W. Herskovitz (now, by judicial change of name, W. Herst) and C. Weinfield, executors. Electric-socket structure. 1,627,238; May 3.
- Herskovitz, William, et al., executors. (See Herskovitz, Max.)
- Herskovitz, William, assignor to Peerless Light Company, Chicago, Ill. Attachment plug. 1,630,896; May 31.
- Herskovitz, Francis C., Normal, Ill. Dust-seed-treatment machine. 1,651,390; Dec. 6.
- Herst, Edward, assignor to Peerless Light Company, Chicago, Ill. Electric-candle socket. 1,649,228; Nov. 15.
- Herst, William. (See Herskovitz, Max.)
- Hertel, Carl L., et al. (See Hertel, Carl L., assignor.)
- Hertel, Carl L., assignor to C. L. Hertel and E. Kitzinger, Columbus, Ind. D handle. 1,642,994; Sept. 20.
- Hertenbein, Léon, Levallois-Perret, France. Rotary-drum-filtering apparatus. 1,636,739; July 26.
- Hertel, Eugene C., East Chicago, Ind., assignor to Sinclair Refining Company, Chicago, Ill. Oil-cracking still. 1,615,583; Jan. 25.
- Hertel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Producing light hydrocarbon liquids. 1,632,967; June 21.
- Hertel, Eugene C., and E. W. Isom, assignors to Sinclair Refining Company, Chicago, Ill. Level indicator or telltale for oil stills and the like. 1,650,958; Nov. 29.
- Hertel, Eugene C., and H. L. Pelzer, assignors to Sinclair Refining Company, Chicago, Ill. Cracking of hydrocarbons. 1,634,666; July 5.
- Hertel, Eugene C., and J. D. Tift, Chicago, Ill., assignors to Sinclair Oil and Gas Company, Tulsa, Okla. Recovery of gasoline. 1,648,585; Nov. 8.
- Hertner, John H., and E. H. Remde, assignors to The Baker-Raulang Company, Cleveland, Ohio. Vehicle. 1,628,145; May 10.
- Hertz Drive-Unit Stations, Inc. (See Ross, Maurice L., and Hertz, Morris.)
- Hertz, Gustav L., assignor to N. V. Philips' Gloeilampen-fabriek, Eindhoven, Netherlands. Manufacture of very thin wires. 1,627,971; May 10.
- Hertz, Morris. (See Schneider, E. A., and Hertz.)
- Hertzberg, Frank, Lomita, Calif. Automatic rotary spider bushing. 1,625,540; Apr. 19.
- Hertzberg, William, Brooklyn, N. Y. Broom. 1,616,853; Feb. 8.
- Hertzberg, William, Brooklyn, N. Y. Wet mop. 1,633,584; June 25.
- Hervé, André. (See Hervé, Fabrice R., M., and A.)
- Hervé, Fabrice R., M., and A., Levallois-Perret, France. Sizing composition for coating purposes. 1,615,584; Jan. 25.
- Hervé, Maxime. (See Hervé, Fabrice R., M., and A.)
- Hervé, August, Jr., and E. E. Mills, assignors to The Favorite Stove & Range Company, Piqua, Ohio. Stove-door mounting. 1,653,380; Dec. 20.
- Herz, Alexander. (See Confi, Eugene, assignor.)
- Herz, Alfred, Chicago, Ill. Photographic photometer. 1,614,672; Jan. 18.

- Herz, Alfred, Chicago, Ill. Current-interrupting device. 1,637,610; Aug. 2.
- Herz, Alfred, Chicago, Ill. Flow indicator. 1,653,177; Dec. 20.
- Herz Bed Company. (See Lavezzi, Samuel J., assignor.)
- Herz, Richard, Frankfurt-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Violet vat dyestuff of the 2-thionaphthene-2-indolindigo series. 1,631,865; June 7.
- Herz, Richard, Frankfurt-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Reaction product of sulphur dichloride and primary arylamines. 1,637,023; July 26.
- Herz, Richard, Frankfurt-on-the-Main, and J. Müller, Hanau-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuff of the 2-thionaphthene-2-indolindigo series. 1,613,275; Jan. 4.
- Herz, Richard, Frankfurt-on-the-Main, and J. Müller, Hanau-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Green blue to green vat dyestuffs of the thioindigo series. 1,623,410; Apr. 5.
- Herz, Richard, and F. Schulte, Frankfurt-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Producing 1,8-hydroxynaphtholic acid. 1,623,678; Apr. 5.
- Herz, Richard, and F. Schulte, Frankfurt-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Manufacturing 1-aminonaphthalene-8-carboxylic acid. 1,646,290; Oct. 18.
- Herzberg, Otto W. (See Skirrow, F. W., and Herzberg.)
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and H. Ohlen-dorf, Berlin-Friedenau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main. Dyeing. 1,640,657; Aug. 30.
- Herzig, Harold L., Toledo, Ohio, assignor, by mesne assignments, to Combustion Utilities Corporation, New York, N. Y. Valve-reversing mechanism. 1,652,624; Dec. 13.
- Herzik, William, Schulenburg, Tex. Tractor plow. 1,618,084; Feb. 15.
- Herzmark, Nicolas, Paris, France. Starting internal-combustion engines. 1,625,940; Apr. 26.
- Herzog, Carl. (See Geulen, Wilhelm, assignor.)
- Herzog, John L., Saginaw, Mich. Rapid production of wooden panels from mill clippings and the like. 1,638,262; Aug. 9.
- Herzog, Robert, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Arc generator. 1,636,094; July 19.
- Hesch, Elwood F., Newport, Ky. Coaster vehicle. 1,638,487; Aug. 9.
- Hese, Erich, Dahlem, near Berlin, Germany. Sanding device for power vehicles. 1,625,362; Apr. 19.
- Hess, Alfred T., East Orange, N. J. Thermometer. 1,630,385; May 31.
- Hess-Bright Manufacturing Company, The. (See Brunner, Harold E., assignor.)
- Hess-Bright Manufacturing Company, The. (See Linde, Andrew H., assignor.)
- Hess-Bright Manufacturing Company, The. (See Styrl, Haakon, assignor.)
- Hess, C. B. (See Inhofe, Perry D., assignor.)
- Hess, Edward B., Orlando, Fla., assignor to Royal Typewriting Company, Inc., New York, N. Y. Typewriting machine. 1,635,411; July 12.
- Hess, Edward B., Orlando, Fla., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,635,672; July 12.
- Hess, Edward B., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,635,412; July 12.
- Hess, Edward T., Irondequoit, N. Y. Automatic gasoline vending machine. 1,633,327; June 21.
- Hess, Edwin A., Akron, Pa. Manufacturing shoes. 1,647,914; Nov. 1.
- Hess, Elam G., Manheim, Pa. Food product. 1,635,273; July 12.
- Hess, Francis M., Whiting, Ind. Apparatus for distilling hydrocarbons under pressure and a catalyzing agent. 1,625,467; Apr. 19.
- Hess, Francis M., Whiting, Ind. Method of and apparatus for cracking oil. 1,638,335; Aug. 9.
- Hess, Herbert L., Uttrud, P. E. Washing and stirring apparatus. 1,626,281; Dec. 20.
- Hess, Henry K., Syracuse, N. Y. Tone regulator for phonographs. 1,617,158; Feb. 8.
- Hess, John E., New Westminster, British Columbia, Canada. Refuse furnace. 1,653,282; Dec. 20.
- Hess, Philip J., Kokomo, Ind., assignor to Pittsburgh Plate Glass Company. Polishing plate glass. 1,618,085; Feb. 15.
- Hess, Philip J., sr., Kokomo, Ind., assignor to Pittsburgh Plate Glass Company. Making rouge. 1,618,086; Feb. 15.
- Hess, Thomas F., Westville, Okla. Well-fishing tool. 1,649,693; Nov. 15.
- Hess, W. H. et al. (See Donnellson, Blanche, assignor.)
- Hess, Wilhelm, Gera-Reuss, Germany. Band-saw machine. 1,617,712; Feb. 15.
- Hesse, E. G. m. b. H. (See Heldtkamp, P., and Müller, assignors.)
- Hesse, Paul F., Valley Falls, R. I. Curved corded-edge tape for shoes. 1,639,376; Aug. 16.
- Hesse, Paul F., Pawtucket, R. I. Apparel collar. 1,643,497; Sept. 27.
- Hessel, W. F., Company. (See Hessel, William F., assignor.)
- Hessel, William F., assignor to W. F. Hessel Company, Incorporated, New York, N. Y. Electrical connector. 1,647,697; Nov. 1.
- Hessing, Henry, New York, N. Y., assignor to J. H. Bunnell & Company, Incorporated. Telegraph key. 1,618,007; Feb. 15.
- Hesser, Fr., Maschinenfabrik-Aktiengesellschaft. (See Gangler, Paul, assignor.)
- Hessling, William, Ashland, assignor to L. F. Fuller, Springfield, Mass. Spring suspension for vehicles. 1,629,865; May 24.
- Hessmer, Frederick W., Jersey City, N. J. Apparatus for producing threaded pins. 1,630,793; May 31.
- Hester, Edgar A., Brooklyn, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Arc-extinguishing device. 1,617,390; Feb. 15.
- Hester, Levi C., Williston, Fla. Plow. 1,614,673; Jan. 18.
- Hester, Levi C., Williston, Fla. Plow. 1,614,674; Jan. 18.
- Hester, Levi C., Jacksonville, Fla. Plow. 1,620,969; Jan. 18.
- Hester, Stephen J., Raymond, Miss., assignor of one-half to J. I. Carter, Mayfield, Ky. Adjustable framing, drafting, and bevel square. 1,638,200; Aug. 9.
- Hesterly, William P., Lufkin, Tex. Combined rail anchor and tie plate. 1,634,994; July 5.
- Hetherington, Carl F., Indianapolis, Ind. Fluid-pressure-operated gate. 1,615,273; Jan. 25.
- Hetherington, Edwin. (See Henry, L. L., and Hetherington.)
- Hetrick, Chester, Gilbertsville, Pa. Tongue for wagons, binders, and the like. 1,617,849; Feb. 15.
- Hetrick, Francis S., Banks, Miss. Car-door fastener. 1,615,944; Feb. 15.
- Hettinger, Jennie S., Camden, N. J., assignor to United States Asbestos Co., Manheim, Pa. Gasket. 1,636,363; July 19.
- Hetzberger, Franz, Ulm-on-the-Donau, assignor to C. D. Magirus Aktiengesellschaft, Donau, Germany. Safety device for portable power-operated fire escapes. 1,637,190; July 26.
- Hetzberger, Franz, Ulm-on-the-Donau, assignor to C. D. Magirus Aktiengesellschaft, Donau, Germany. Automatic control for vehicle superstructures. 1,637,191; July 26.
- Heublein, Charles M., Chicago, Ill. Window attachment. 1,619,256; Mar. 1.
- Heublein, Charles M., Chicago, Ill. Window attachment. 1,650,015; Nov. 22.
- Heublein, Wilhelm O., Frankfurt-on-the-Main, Germany. Ampulla for injection fluids comprising separated compartments. 1,614,067; Jan. 11.
- Heublein, Wilhelm O., Frankfurt-on-the-Main, Germany. Ampulla composed of several compartments adapted for the purpose of radiotherapeutics. 1,626,338; Apr. 26.
- Heuchens, Arnold H., Teutopolis, Ill. Liquid-dispensing apparatus. 1,628,404; May 10.
- Heuring, Fred H., Niagara, Wis. Grinder shaft. 1,623,116; Apr. 5.
- Heuring, Anton, Munich, Germany. Apparatus for producing and projecting cinematographic pictures. 1,631,866; June 7.
- Heuzé-Beaurégard, Edmond, Ste-Adresse, France. Addressing machine. 1,637,938; Aug. 2.
- Hevea Corporation, The. (See Loomis, C. C., and Banks, assignors.)
- Hevea Corporation, The. (See Loomis, C. C., and Stump, assignors.)
- Hewitson, Edward H., assignor to Eastman Kodak Company, Rochester, N. Y. Coating aluminum surfaces. 1,627,900; May 10.
- Hewitt, Edward R., Midvale, N. J., and A. H. Leipert, College Point, N. Y., assignors to International Motor Company, New York, N. Y. Casing for transmissions and the like. 1,631,201; June 7.
- Hewitt, Harold S., Brantford, Ontario, Canada. Ornament for radiators or motor cars. Des. 73,378; Aug. 30.
- Hewitt, John H., Birmingham, and B. W. Harcourt, Sutton Coldfield, England. Chain-manufacturing machinery. 1,627,972; May 10.
- Hewitt, John H., Birmingham, England. Electric switch. 1,649,694; Nov. 15.
- Hewitt, Peter C., deceased, Ringwood Manor; The Farmers' Loan and Trust Company, executor, assignor to Hewitt Electric Company, Hoboken, N. J. Electric apparatus. 1,638,158; Aug. 9.
- Hewitt, Roy, Sterling, Ill. Bale-tie machine. 1,627,533; May 3.
- Hewitt, Thomas J. (See McLeod, G. D., Pokorski, and Hewitt.)
- Hewitt, Walter B., Richmond, Ind., assignor to Richmond Roofing Door Company, Machine for covering wood with sheet metal. 1,646,333; Oct. 25.
- Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Resistance line welding. 1,640,449; Aug. 30.

- Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, Inductance coll. 1,652,938; Dec. 13.
- Hewlett, Edward M. and W. K. Rankin, Schenectady, N. Y., assignors to General Electric Company, Electric switch. 1,648,684; Nov. 8.
- Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company, Reproducing position. 1,616,667; July 5.
- Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company, System of and apparatus for gun-fire control. 1,626,824; May 3.
- Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company, Reproducing relative angular motion. 1,628,463; May 10.
- Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company, Signaling system. 1,634,941; July 5.
- Hewlett, Edward M., and W. M. Willard, Schenectady, N. Y., assignors to General Electric Company, System for transmission of angular motion. 1,637,039; July 26.
- Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company, System of gunfire control. 1,650,626; Nov. 29.
- Hewlett, H. D. (See Lykins, Clarence E., assignor.)
- Hewlett, James M., Lawrence, N. Y., Partition wall. 1,631,373; June 7.
- Hewlett, James M., and R. B. Fuller, Lawrence, N. Y., assignors to Stockade Building System, Inc. Building structure. 1,633,702; June 28.
- Hewel Radiator Company. (See Opitz, Fred M., assignor.)
- Hey, Harry. (See Gepp, H. W., Hey, Rigg, Stevens, and Williams.)
- Hey, Harry, Dewsbury, England. Removing suspended matters from oils and organic solvents. 1,633,941; June 28.
- Hey, Harry, Dewsbury, England. Removing suspended matters from oils and organic solvents. 1,633,942; June 28.
- Heyda, James C., Pittsfield, Wis. Transmission mechanism. 1,634,690; June 7.
- Heydecker, William C., Jr., New York, N. Y. Pressure-regulating valve. 1,632,406; June 14.
- Heyer, Arthur, Bad Lausick, Germany. Collapsible copying apparatus for photographic purposes. 1,651,954; Dec. 6.
- Heyer Duplicator Company, The. (See Heyer, T. A., and Vance, assignors.)
- Heyer Duplicator Co. Inc., The. (See Kurth, William H., assignor.)
- Heyer, Fred G., and F. M. Smith, Detroit, Mich. Die for box-making machines. 1,620,725; Mar. 15.
- Heyer, Joseph L., Perth Amboy, N. J. Bag holder. 1,650,447; Nov. 22.
- Heyer, Theodore A., and M. L. Vance, assignors to The Heyer Duplicator Company, Inc., Chicago, Ill. Duplicating machine. 1,614,741; Jan. 18.
- Hyl, George E., Westminster, London, England. Cement and lime burning. 1,625,853; Apr. 26.
- Heyl & Patterson, Inc. (See Brown, Raymond E., assignor.)
- Heyl & Patterson, Inc. (See Vogel, Joseph P., assignor.)
- Heyl, Triphon D. (See Schmidt, B. F., and Heyl.)
- Heyman, David, Newark, N. J. Mechanical automobile toy. 1,619,726; Mar. 1.
- Heyman, Fred M. (See Wisniewsky, Leo B., assignor.)
- Heyman, Horace W., Maplewood, N. J. Draft control. 1,622,782; Mar. 29.
- Heyman, Horace W., Maplewood, N. J. Combined temperature indicator and draft regulator. 1,649,827; Nov. 22.
- Heyman, Nicholas, assignor to Federal Telephone Manufacturing Corporation, Buffalo, N. Y. Vernier adjustment means for electrical instruments. 1,622,783; Mar. 29.
- Heyman Process Corporation. (See Heyman, Wilbert A., assignor.)
- Heyman, Samuel, assignor to U. S. Bedding Company, Memphis, Tenn. Automatic hammock back. 1,650,714; Nov. 29.
- Heyman, Wilbert A., assignor to Heyman Process Corporation, New York, N. Y. Bottle. Des. 73,129; July 26.
- Heyman, Wilbert A., and W. McComb, New York, N. Y. Continuous-freezing apparatus. 1,641,429; Sept. 6.
- Heymann, Nathan, New Orleans, La. Rat guard. 1,641,081; Aug. 30.
- Heymans, Paul. (See Frost, T. H., and Heymans.)
- Heymer, Paul, Berlin-Reinickendorf-Ost, assignor to Hans Kollmorgen, Berlin-Charlottenberg, Germany. Instrument for the inspection of pipes, canals, and cavities of the human or animal body. 1,632,290; June 14.
- Heynemann, Henry C., San Francisco, Calif. Apparatus for examining vehicle tires. 1,617,758; Feb. 15.
- Heys, John J., Lynn, and A. K. Bruen, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Knife for splitting machines. 1,628,840; Nov. 17.
- Heyser, John A., assignor of one-half to V. A. Machris, Los Angeles, Calif. Front-wheel brake. 1,614,742; Jan. 18.
- Heywood, Bernard G., Scribner, Nebr. Hay-sweep load remover. 1,627,703; May 10.
- Heywood, Charles F., Detroit, Mich. Starting internal-combustion engines. 1,616,695; Aug. 9.
- Heywood, Charles F., Detroit, Mich. Starting internal-combustion engines. 1,616,696; Aug. 9.
- Heywood, James H., Radcliffe, assignor to Cylinder Top Oilers Limited, Leeds, England. Lubricating means for internal-combustion engines. 1,633,378; June 21.
- Heywood, Jeannette, Denver, Colo. Vehicle cover. 1,615,513; Jan. 25.
- Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
- Heywood-Wakefield Company. (See Riley, Francis B., assignor.)
- Heywood-Wakefield Company. (See Stinson, George, assignor.)
- Hiatt, Walter B., Los Angeles, Calif. Collapsible shipping crate. 1,651,121; Nov. 29.
- Hiatt, William R., et al. (See Haines, George H., assignor.)
- Hibbard, Benjamin B. (See Girardier, W. A., and Hibbard.)
- Hibbard, Charles T., assignor to Electric Machinery Mfg. Company, Minneapolis, Minn. Starting system for synchronous motors. 1,640,321; Aug. 23.
- Hibbard, Charles T., assignor, by mesne assignments, to Electric Machinery Mfg. Company, Minneapolis, Minn. Starting synchronous motors. 1,640,322; Aug. 23.
- Hibbard, Charles T., assignor to Electric Machinery Manufacturing Company, Minneapolis, Minn. Starting system for synchronous motors. 1,640,323; Aug. 23.
- Hibbard, Charles T., assignor to Electric Machinery Manufacturing Company, Minneapolis, Minn. Electrically-operated valve. 1,640,324; Aug. 23.
- Hibert, Ernest, Goulburn, New South Wales, Australia. Tire for motor vehicles and the like and manufacturing same. 1,648,848; Sept. 27.
- Hibbets, Charles M., Claude, Tex. Clutch-protecting device. 1,636,959; July 26.
- Hibbins, Thomas A., assignor to Stevenson Company, Wellsville, Ohio. Grinding pan for grinding machines for grinding clays, shales, and other dry and semidry materials. 1,640,772; Aug. 30.
- Hibbins, Thomas A., assignor to The Stevenson Company, Wellsville, Ohio. Hydraulic sewer-pipe press. 1,651,203; Nov. 29.
- Hibbins, Thomas A., assignor to The Stevenson Company, Wellsville, Ohio. Die for hydraulic or steam pipe presses. 1,651,204; Nov. 29.
- Hibbins, Thomas A., assignor to The Stevenson Company, Wellsville, Ohio. Rotary knife for hydraulic or steam sewer-pipe presses. 1,651,205; Nov. 29.
- Hibne, Philip D., Seattle, Wash. Rotary engine. 1,648,398; Nov. 8.
- Hick, Harry J., assignor to The Hykon Manufacturing Company, Alliance, Ohio. Battery clamp. 1,636,562; July 19.
- Hickel, Amer D. (See Hill, Harry E., assignor.)
- Hicket, Wilhelm, Zurich, and O. Pletscher, Jr., Albstrieden, near Zurich, Switzerland. Automatic excess heat protector, especially for electric machines and apparatus. 1,642,953; Sept. 20.
- Hicken, Elmer E., Collingswood, N. J. Locomotive tender tank. 1,645,426; Oct. 11.
- Hickey, Dennis E., Chicago, Ill. Spectacles. 1,636,740; July 26.
- Hickey, Frank J. (See Williams, A. D., and Hickey.)
- Hickey, John J. (See Curran, E., and Hickey.)
- Hickey, John J., Brooklyn, N. Y. Christmas-club saving stamp. Des. 72,153; Mar. 8.
- Hickle, Arthur F., Lansing, Mich. Doorcheck. 1,624,836; Apr. 12.
- Hickey, Harry W., London, England, assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Vessel for mixing chocolate and similar substances. 1,645,990; Oct. 18.
- Hicklin, Reginald R., San Antonio, Tex. Propeller. 1,616,123; Feb. 1.
- Hickman, Charles D., Philadelphia, Pa. Interior valve for radiators. 1,643,451; Sept. 27.
- Hickman, Clifford M., Newark, N. J. Ceiling fixture. 1,618,196; Feb. 22.
- Hickman, Kenneth C. D., assignor to Eastman Kodak Company, Rochester, N. Y. Roll film cartridge. 1,638,577; Aug. 9.
- Hickman, Manuel, San Juan, assignor of one-third to P. M. Perkins, McAllen, Tex. Duplex baling press. 1,627,327; May 3.
- Hickman, William A., West Mystic, Conn. Boat. 1,620,349; Mar. 8.
- Hickman, William A., West Mystic, Conn. Boat. 1,621,839; Mar. 22.
- Hickman, William A., West Mystic, Conn. Boat. 1,644,725; Oct. 11.
- Hickok, Leon C., Grand Rapids, Mich. Dental apparatus. 1,613,699; Jan. 11.
- Hickok Manufacturing Company. (See Beck, A. H., and Mix, assignors.)
- Hickok Manufacturing Company. (See Eichner, Robert F., assignor.)
- Hickok Manufacturing Company. (See Mabon, Merrill, assignor.)
- Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
- Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)

- Hickok Manufacturing Company. (See Vaisey, Harold C., assignor.)
- Hickok, W. O., Manufacturing Company, The. (See Broadmeyer, Albert, assignor.)
- Hicks, Allie H., Omaha, Nebr. Hair clipper. 1,613,559; Sept. 27.
- Hicks, Amy. (See Campbell, William E., assignor.)
- Hicks, Catherine C., et al., executrices. (See Cabezola, Eusebio F.)
- Hicks, Cyrus W., Waltham, Mass. Accelerator for automobile engines. 1,653,568; Dec. 20.
- Hicks, Ernest. (See Myers, Ebenezer, assignor.)
- Hicks, Harold A. (See Smith, C. J., and Hicks.)
- Hicks, James A., assignor to Automatic Car Lock Company, Atlanta, Ga. Railway-car-door lock. 1,647,225; Nov. 1.
- Hicks, James A., assignor to Automatic Car Lock Company, Atlanta, Ga. Door fastener. 1,647,226; Nov. 1.
- Hicks, James A., assignor to Automatic Car Lock Company, Atlanta, Ga. Automatic control system for locks. 1,647,227; Nov. 1.
- Hicks, James A., assignor to Automatic Car Lock Company, Atlanta, Ga. Railway-car-door-fastening device. 1,647,228; Nov. 1.
- Hicks, Lucy L. (See Robinson, Robert R., assignor.)
- Hicks, Otto N., Fillmore, Ind. Vending and display case. 1,614,363; Jan. 11.
- Hicks, William W., San Francisco, Calif. Electric air heater. Des. 73,432; Sept. 13.
- Hicks, William W., San Francisco, Calif. Electric air heater. Des. 73,433; Sept. 13.
- Hicks, William W., San Francisco, Calif. Electric air heater. Des. 73,502; Sept. 20.
- Hicks, William W., San Francisco, Calif. Electric air heater. Des. 73,743; Nov. 1.
- Hicks, William W., San Francisco, Calif. Convection heater. 1,651,890; Dec. 6.
- Hicks, William W., San Francisco, Calif. Convection heater. 1,652,433; Dec. 13.
- Hickson, Charles C., Westfield, Mass., assignor to The Fuller Brush Company, Hartford, Conn. Collapsible receptacle. 1,636,186; July 19.
- Hickstein, Fred. (See Bannen, William, assignor.)
- Hickok, De Los N., Newark, assignor to Federated Engineers Development Corporation, Jersey City, N. J. Fusible element. 1,629,102; May 17.
- Hidoux, Georges, assignor to Soci   d'Exploitation des Proc  d  s Hidoux, St-Denis, France. Combined drying and grinding machine for clay and other plastic materials. 1,614,364; Jan. 11.
- Hieb, Joseph F., San Francisco, Calif. Wire-cutting machine. 1,637,824; Aug. 2.
- Hieb, Ellsworth J. (See Hieb, John H. and E. J.)
- Hieb, John H. and E. J., Merrill, Wis. Shipping box or crate. 1,640,080; Aug. 23.
- Hieber, George E., assignor to The Concrete Surfacing Machinery Company, Cincinnati, Ohio. Power hammer. 1,640,570; Aug. 30.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag-frame fastener. Des. 71,873; Jan. 18.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag-frame fastener. Des. 71,874; Jan. 18.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag frame. 1,612,919; Jan. 4.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Knob for bag fasteners, etc. 1,613,751; Jan. 11.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Perpetual calendar. 1,621,067; Mar. 15.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Collapsible bag frame. 1,622,716; Mar. 29.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Combined bag clasp and catch. 1,623,595; Apr. 5.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag-frame hinges. 1,632,334; June 14.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Articulated case for smokers' requisites. 1,632,335; June 14.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Card container and desk tray. 1,632,336; June 14.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Purse and like receptacle. 1,632,337; June 14.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Desk-pad holder. 1,637,485; Aug. 2.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag fastener. 1,639,293; Aug. 16.
- Hiering, William C., Newark, assignor to J. E. Mergott Co., Newark, N. J. Bag lock. 1,654,079; Dec. 27.
- Hiering, William C., Newark, N. J., and E. J. Walter, New York, N. Y., assignors to J. E. Mergott Co., Newark, N. J. Bag-frame fastener. 1,625,605; Apr. 19.
- Hiers, Herbert A., assignor to Noble & Cooley Company, Grassville, Ohio. Drum-snare-adjusting means. 1,615,699; Jan. 25.
- Hiett, Evan W., Houton, Mo. Goal and goal indicator. 1,628,364; May 10.
- Hifner, Ernest J., Lexington, Ky. Automatic choke actuator. 1,630,614; May 31.
- Higbee, James F., assignor to one-half to S. A. Griggs, Detroit, Mich. Trailer. 1,625,209; Apr. 19.
- Higby, Roy C. (See Vieu, H. F., Higby, and O'Neill.)
- Higginbotham, Paul R., Philadelphia, Pa. Rail lock. 1,615,274; Jan. 25.
- Higgin Manufacturing Company, The. (See Pendery, Edward W., assignor.)
- Higgins, A. W., trustee. (See Brosi, Frederick T., assignor.)
- Higgins, Albert L., Bar Harbor, Me. Drag toy. 1,617,639; Feb. 15.
- Higgins, Albert L., Bar Harbor, Me. Figure wheeled toy. 1,630,615; May 31.
- Higgins, Daniel A., Adams, Mass. Loom picker. 1,624,870; Apr. 12.
- Higgins, Ernest, Gloucester, England. Collar and like article of wearing apparel. 1,652,131; Dec. 6.
- Higgins, Eugene, assignor to Hayes Wheel Company, Jackson, Mich. Rim-rolling machine. 1,629,703; May 24.
- Higgins, George F., Melrose, Mass. Coin-controlled apparatus. 1,632,838; June 21.
- Higgins, George H., assignor to Burd High Compression Ring Company, Rockford, Ill. Ring-grooving machine. 1,651,598; Dec. 6.
- Higgins, George H., assignor to Burd High Compression Ring Company, Rockford, Ill. Apparatus for grooving piston rings and the like. 1,649,695; Nov. 15.
- Higgins, John J. (See Madden, H. D., and Higgins.)
- Higgins, John J. (See Robins, H. M., and Higgins.)
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Hook forming and clamping device. 1,612,816; Jan. 4.
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Manufacture of incandescent electric lamps. 1,617,112; Feb. 8.
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Stem for incandescent lamps and method of making. 1,626,677; May 3.
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Combination inserting and welding machine. 1,626,678; May 3.
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Sealing-in machine. 1,645,991; Oct. 18.
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Machine for and method of mounting filaments. 1,647,624; Nov. 1.
- Higgins, John J., East Orange, and E. H. Burns, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Automatic bulb-printing device. 1,647,625; Nov. 1.
- Higgins, John S., Jr., Chicago, Ill. Mop. 1,626,036; Apr. 26.
- Higley, Lewis W., Bulan, Ky. Car coupling. 1,620,350; Mar. 8.
- Higley, Samuel M. (See Read, H., and Higgins.)
- Higginson, Connan D., assignor to one-half to G. A. Proctor, Los Angeles, Calif. Child's vehicle. Des. 73,977; Nov. 29.
- Higginson, Connan D., assignor to one-half to G. A. Proctor, Los Angeles, Calif. Child's vehicle. 1,654,169; Dec. 27.
- Higginson, Joseph, Stockport, England. Liquid-fuel consumption and distance indicator or register for motor vehicles. 1,652,896; Dec. 13.
- High, Antony. (See Work, R. D., and High.)
- High, Harry. (See Gleason, M. J., and Higham.)
- Highfield Electrical Company Limited, The. (See Highfield, F. W., and Taylor, assignors.)
- Highfield, Frank W., and H. E. Taylor, assignors to The Highfield Electrical Company Limited, Coventry, England. Electrical testing apparatus for fluid-pressure engines. 1,635,980; July 12.
- Highfield, George A., Scranton, Pa. Smoking pipe. 1,652,572; Dec. 13.
- High Frequency Laboratories. (See Dumke, Willy, assignor.)
- Highland Body Manufacturing Company, The. (See Morrissey, James, assignor.)
- High, Eugene S., Peoria, Ill., assignor to Power Specialty Company, New York, N. Y. Economizer boiler. 1,632,291; June 14.
- Highway Maintainer Company. (See Johnson, Carl O., assignor.)
- Highway Trailer Company. (See Clement, Charles G., assignor.)
- Higley, Theodore S., Escondido, Calif. Raisin-drying tray. 1,617,483; Feb. 15.
- Hiker Manufacturing Company, The. (See Connolly, Thomas J., assignor.)
- Hikok Manufacturing Company. (See Dieterich, William, assignor.)
- Hilbert, Henry, Cincinnati, Ohio. Equalizing device for rewinding web paper. 1,648,479; Nov. 8.
- Hilbish, Joseph M., Pittsburgh, Pa. Treating blast-furnace slag. 1,614,525; Jan. 18.
- Hilborn, Lloyd T., assignor to Clay-Adams Co., Inc., New York, N. Y. Package. 1,652,625; Dec. 13.
- Hild, Frederic W., Los Angeles, Calif. System of control. 1,622,734; Mar. 29.
- Hild, Frederic W., Los Angeles, Calif. Central shank reaming disk bit. 1,627,179; May 3.
- Hildebrand, Rud., Long Beach, Calif. Dehydrating oil. 1,650,514; Apr. 22.
- Hildebrand, Frederick F., Sykeston, N. Dak. Piler safe. 1,650,515; Nov. 22.

- Hildebrand, Joel H. (See Yant, W. P., Sayers, and Hildebrand.)
- Hildebrand, Reinhard, Webster Groves, Mo. Two-cycle internal-combustion engine. 1,622,717; Mar. 29.
- Hildebrand, Reinhard, Webster Groves, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo. Fuel injector for internal-combustion engines. 1,625,606; Apr. 19.
- Hildebrand, Wilhelm, Lichterfelde, Berlin, Germany. Railway brake. 1,618,197; Feb. 22.
- Hildebrand, Wilhelm, Lichterfelde, Berlin, Germany. Brake accelerator for single-chamber compressed-air brakes. 1,631,815; June 7.
- Hildebrandt, Eddie W. (See Clementi, C. L., and Hildebrandt.)
- Hildebrandt, Frank F., Altoona, Pa. Fastener. 1,650,715; Nov. 29.
- Hildebrandt, Frank M., and C. N. Frey, Pittsburgh, Pa., assignors by mesne assignments, to The Fleischmann Company. Treating and preparing yeast and the product thereof. 1,625,121; Apr. 19.
- Hildebrandt, Charles Q., et al. (See Haines, George H., assignor.)
- Hilder, Stuart. (See Anderson, G. M., and Hilder.)
- Hildermann, John H., Los Angeles, Calif. Vise for tennis-racket heads. 1,618,532; Feb. 22.
- Hile, Harlan E., Latrobe, Pa. Plumber's acid can. 1,621,540; Mar. 22.
- Hiler, Edward E., Bloomfield, N. J. Choke-coil amplification unit. 1,615,224; Jan. 25.
- Hiley, Alfred, Rickmansworth, England. Construction of concrete piles or columns. 1,634,231; June 25.
- Hiley, Alfred, Rickmansworth, assignor of one-half to E. Le Bas, London, England. Construction of concrete piles or columns. 1,629,622; May 24.
- Hilfinger, Matthias D., Coral Gables, Fla. Door check and holder. 1,642,203; Sept. 13.
- Hilfman, Harry. (See Villaret, Gustave E., assignor.)
- Hilger, Adam, Limited. (See Smith, T., and Dowell, assignors.)
- Hilger, George, Chicago, Ill. Automatic refrigeration system. 1,619,072; Mar. 1.
- Hilger, George, Chicago, Ill. Refrigeration system. 1,627,328; May 8.
- Hilger, George, Chicago, Ill. Removing foreign gas from condensers. 1,636,512; July 19.
- Hilger, William B., Riverport, Iowa. Cylinder for gas-line engine. 1,638,852; Aug. 14.
- Hilgerink, Frank M., assignor to C. F. Fitts and H. S. Hart, Chicago, Ill. Nozzle handle. 1,653,907; Dec. 27.
- Hilgers, Marie A., Pawtucket, R. I. Culinary utensil. 1,637,859; Aug. 2.
- Hilgert, John, Chicago, Ill. Typewriter. 1,633,665; June 28.
- Hilgert, Mathew, New York, N. Y. Shoe. 1,637,447; Aug. 2.
- Hill, Addie, jr. (See Thomas, J. C., Halliday, and Hill.)
- Hill, Albert E., Peoria, Ill. Folding table and bench. 1,643,947; Oct. 4.
- Hill, Charles A. (See Mueller, P., and Hill.)
- Hill, Charles B., Glencoe, and M. H. Givens, Evanston, assignors to Northwestern Yeast Company, Chicago, Ill. Manufacturing yeast from malted milk and product thereof. 1,636,563; July 19.
- Hill, Charles B., Glencoe, and M. H. Givens, Evanston, assignors to Northwestern Yeast Company, Chicago, Ill. Dry yeast and producing the same. 1,641,676; Sept. 6.
- Hill, Charles B., Glencoe, and M. H. Givens, Evanston, assignors to Northwestern Yeast Company, Chicago, Ill. Dry yeast and producing the same. 1,641,677; Sept. 6.
- Hill, Charles B., Glencoe, and G. L. Tintner, assignors to Northwestern Yeast Company, Chicago, Ill. Making bread. 1,643,011; Sept. 20.
- Hill, Charles B., Glencoe, and G. L. Tintner, assignors to Northwestern Yeast Company, Chicago, Ill. Making bread. 1,643,012; Sept. 20.
- Hill, Chester L., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Heat-insulating tape. 1,642,204; Sept. 13.
- Hill, Chester N., Richmond, Ind. Seed-corn hanger. 1,639,729; Aug. 23.
- Hill, Clement V., Trenton, N. J. Hinge for doors. 1,627,329; May 3.
- Hill Clutch Company. (See Smith, Harry J. and B. A., assignors.)
- Hill Compressor & Pump Company, The. (See Hill, Ebenezer, assignor.)
- Hill, Daniel, Porterville, Calif. Scroll-displaying device. 1,621,407; May 15.
- Hill, Donald A., Towanda, Kans. Combined force-fed pump and faucet. 1,615,380; Jan. 25.
- Hill, Earl M., assignor to Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Core tip. 1,648,399; Nov. 8.
- Hill, Earl M., assignor to Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Core tip. 1,651,705; Dec. 6.
- Hill, Earl V., Chicago, Ill. Thermometer scale. 1,630,341; May 31.
- Hill, Ebenezer, South Norwalk, Conn., assignor to The Hill Compressor & Pump Company, New York, N. Y. Combined liquid and air pump. 1,631,591; June 7.
- Hill, Ebenezer, North Stamford, Conn., assignor to The Hill Compressor & Pump Company, New York, N. Y. Rotary pumping machine. 1,631,592; June 7.
- Hill, Ebenezer, North Stamford, Conn., assignor to The Hill Compressor & Pump Company, New York, N. Y. Rotary pumping machine. 1,648,730; Nov. 8.
- Hill, Ernest L., Jacksonville, Fla., and W. J. Webber, assignors to Automatic Lock and Closer Company, St. Louis, Mo. Door fastener. 1,654,255; Dec. 27.
- Hill, Frank. (See Kammerer, G. and Hill.)
- Hill, Frank A., assignor of one-half to E. C. Fritz, Dixon, Ill. Corn-popping machine. 1,621,113; Mar. 15.
- Hill, Frank F., Los Angeles, Calif. Long-stroke pumping machine. 1,637,075; July 26.
- Hill, George N., assignor to L. C. Flaherty, Hamilton, Ontario, Canada. Motor-vehicle steering apparatus. 1,654,217; Dec. 27.
- Hill, George S., and A. C. Saxton, assignor to H-R Manufacturing Company, Chicago, Ill. Lock. 1,632,073; June 14.
- Hill, Guy. (See Mauborgne, J. O., and Hill.)
- Hill, Guy. (See Steinberger, G. and Hill.)
- Hill, Guy, Brooklyn, N. Y., and George H. Clark, Washington, D. C., assignors, by mesne assignments, to Radio Corporation of America. Changing wave lengths. 1,639,696; Aug. 23.
- Hill, Harry E., assignor of one-half to A. D. Hickel, Memphis, Tenn. Push button. 1,614,387; Jan. 18.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,613,276; Jan. 4.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Abrasive-supplying means. 1,619,344; Mar. 1.
- Hill, Herbert, Durban, Natal, South Africa. Spring wheel for automobiles and other vehicles. 1,628,594; May 10.
- Hill, Hermann, Fredonia, N. Y. Flexible coupling. 1,636,692; July 26.
- Hill, Hermann, Fredonia, N. Y., assignor, by mesne assignments, to Economy Baler Company, Ann Arbor, Mich. Baling press. 1,646,355; Oct. 18.
- Hill, Homer H., Canton, Ohio. Shock eliminator and spring control. 1,642,547; Sept. 13.
- Hill, Hugh, Anderson, Ind. Suction sweeper. 1,647,292; Nov. 27.
- Hill, J. Lawrence. (See White, Robert, assignor.)
- Hill, James. (See Baddley, James, Shepherdson, Swann, Hill, and Lawrie.)
- Hill, John E., St. Louis, Mo. Automobile top. 1,632,359; Dec. 13.
- Hill, John H., Houston, Tex. Pump. 1,648,400; Nov. 8.
- Hill, Joseph H. (See Walcott, S. L. and Hill.)
- Hill, Joseph H. (See Roberts, Charles W., assignor.)
- Hill, Joseph M., Oklahoma City, Okla. Automatic recording target. 1,650,940; Nov. 29.
- Hill, Louis, Akron, Ohio. Safety apparatus for gas illuminating devices. 1,616,493; Feb. 8.
- Hill, Louis, Akron, Ohio. Safety cut-off mechanism for gas burners. 1,616,494; Feb. 8.
- Hill, Louis, Akron, Ohio. Safety device for gas-combustion apparatus. 1,616,495; Feb. 8.
- Hill, Louis, Akron, Ohio. Winding-mechanism indicator. 1,616,496; Feb. 8.
- Hill, Louis, Akron, Ohio. Compensating gas cut-off. 1,626,609; May 3.
- Hill, Louis, J. Madison, Ind. Priming system for internal-combustion engines. 1,653,853; Dec. 27.
- Hill, Luther, Los Angeles, Calif. Antirattle window lock. 1,623,343; Apr. 5.
- Hill, Lynn E., assignor to Cross Bros. Co., Northfield, Vt. Mounting device. 1,613,732; Dec. 27.
- Hill, Myron F., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone exchange. 1,638,578; Aug. 9.
- Hill, Nellie H. (See Hill, Rolo D., assignor.)
- Hill, Nikolai, Iron Belt, Wis. Mop holder. 1,635,973; July 2.
- Hill, Oris C., Pawtucket, R. I. Snap link. 1,637,860; Aug. 2.
- Hill, Reginald, Kelowna, British Columbia, Canada. Furrowing machine. 1,627,973; May 10.
- Hill, Reuben, West Hartford, Conn., assignor to The Grolan Manufacturing Company, Dayton, Ohio. Temperature indicator. 1,650,007; May 24.
- Hill, Reuben, West Hartford, Conn., assignor of one-half to M. A. Possens, Cleveland, Ohio. Signaling system. 1,634,287; July 5.
- Hill, Richard D., and W. W. Foster, Wichita Falls, Tex. Jerk-line brake. 1,629,862; May 24.
- Hill, Robert, Aylmer, Quebec, Canada. Rail anticreeper. 1,614,365; Jan. 11.
- Hill, Roger M., Washington, D. C. Optical system for projection apparatus. 1,630,616; May 31.
- Hill, Roger M., Washington, D. C. Illuminating device for projection purposes. 1,631,529; June 7.
- Hill, Rolo D., assignor of one-half to N. H. Hill, Los Angeles, Calif. Container. 1,619,727; Mar. 1.
- Hill, Samuel H., Arcadia, Ind. Brace. 1,653,767; Dec. 27.

- Hill, Walter J., Birmingham, England. Extensible hinge or fastening. 1,650,793; Nov. 20.
- Hill, William B., Fouke, Ark. Railway-tie plate. 1,618,928; Feb. 22.
- Hill, William H., Chattanooga, Tenn. Automobile pedal. 1,629,381; May 17.
- Hill, William R., Verdi, Minn. Spur or prod for horses. 1,653,780; Dec. 27.
- Hill, William R., assignor to Sargent & Greenleaf, Inc., Rochester, N. Y. Cover and operating means for dials of permutation locks. 1,652,897; Dec. 13.
- Hill, William W., Duquesne, Pa. Apparatus for treating steel. 1,623,537; Apr. 5.
- Hilborn, Herbert J., assignor to Brinrud Motor Company, Milwaukee, Wis. Outboard-motor drive. 1,634,942; July 5.
- Hillen, Johannes A. V. M., Amsterdam, Netherlands. Machine for the treatment of cocoa mass and the like. 1,647,132; Nov. 1.
- Hiller, Joseph L., Mattapoisett, Mass. Shank and cutter tips for pulverizers. 1,618,826; Feb. 22.
- Hiller, Nicolai H., Carbondale, Pa. Cooling apparatus. 1,622,511; Mar. 29.
- Hiller, Nicolai H., and E. B. McCabe, assignors to Carbondale Machine Company, Carbondale, Pa. Heat interchanger. 1,634,714; July 5.
- Hiller, Nicolai H., and B. F. Saffberg, assignors to Carbondale Machine Company, Carbondale, Pa. Condenser or cooler. 1,622,645; Mar. 29.
- Hiller, W. C. (See Moushon, Richard S., assignor.)
- Hillier, William A., Manor, Tex. Flexible coupling. 1,626,195; Apr. 26.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Oil circuit breaker. 1,618,087; Feb. 15.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Attachment for oil switches. 1,620,155; Mar. 8.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Switch-operating mechanism. 1,621,368; Mar. 15.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,621,369; 1,621,369; Mar. 15.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,623,787; Apr. 5.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Power system. 1,624,729; Apr. 12.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,628,405; May 10.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,631,681; June 7.
- Hilliard, John J., assignor to Baker Ice Machine Company of Texas, Fort Worth, Tex. Condenser. 1,638,806; Aug. 9.
- Hilliard, Perley A., Wollaston, Mass. Machine for preparing chocolate for confection coatings. Re16,813; Dec. 6.
- Hillier, Harold. (See Fothergill, H., and Hillier.)
- Hillier, Robert E. (See Emons, Ernest E., assignor.)
- Hillrich & Bradsky Co. (See Hillerich, John A., assignor.)
- Hillrich, John A., assignor to Hillerich & Bradsky Co., Louisville, Ky. Golf-club head. 1,654,257; Dec. 27.
- Hillgardt, Erich, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Controlling device for ballast containers in airships. 1,620,462; Mar. 8.
- Hillix, Foster F., assignor, by mesne assignments, to White Sewing Machine Corporation, Cleveland, Ohio. Cord lock. 1,643,658; Sept. 27.
- Hillix, Foster F., assignor, by mesne assignments, to White Sewing Machine Corporation, Cleveland, Ohio. Connector for electric conductors. 1,643,659; Sept. 27.
- Hillix, Foster F., assignor, by mesne assignments, to White Sewing Machine Corporation, Cleveland, Ohio. Sewing-machine motor. 1,646,962; Oct. 25.
- Hills Brothers Company, The. (See Barfield, William, assignor.)
- Hills Brothers Company. (See De Forest, Lester C., assignor.)
- Hills, Burton U., Chicago, Ill. Timing device and manufacturing the same. 1,617,905; Feb. 15.
- Hills, Burton U., Chicago, Ill. Timer. 1,625,806; Apr. 26.
- Hills, Edward R. (See Borresen, Helge A., assignor.)
- Hills, Harry B., assignor to Steward Davit & Equipment Corporation, New York, N. Y. Drain device for lifeboats. 1,623,727; Apr. 5.
- Hills, Harry R., Emerald, Idaho. Bark peeler. 1,627,901; May 10.
- Hills, Henry A., Grand Rapids, Mich. Filtering material and preparation thereof. 1,621,725; Mar. 22.
- Hills, Henry A., Grand Rapids, Mich. Liquid trap and strainer. 1,634,463; July 5.
- Hills, Henry A., Grand Rapids, Mich. Continuous battery oil filter. 1,638,201; Aug. 9.
- Hills, Isaac A., Grand Rapids, Mich. Book end. Des. 73,785; Nov. 8.
- Hills-McCanna Co. (See Noyes, Albert H., assignor.)
- Hills, Olive, Windsor, England. Hatband. 1,640,805; Aug. 30.
- Hillside Cotton Mills. (See Carruth, Nat. assignor.)
- Hillson, William W. W. (See Johnson, L., and Hillson.)
- Hilstrom, Alfred, Chicago, Ill. Pitcher's practice target. 1,612,920; Jan. 4.
- Hillyard, Newton S., St. Joseph, Mo. Container. 1,621,252; Mar. 15.
- Hillyard, Newton S., St. Joseph, Mo. Dust mop. 1,648,809; Nov. 8.
- Hillyard, Newton S., St. Joseph, Mo. Paper-roll holder. 1,648,810; Nov. 8.
- Hillyard, Newton S., St. Joseph, Mo. Device for dispensing liquid soap. 1,648,811; Nov. 8.
- Hilse, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Invoice sheet. 1,616,259; Feb. 1.
- Hilsinger, Adin W., Orange, N. J., assignor to Henry Brady, Inc. Paper-box guiding and conveying mechanism. 1,623,310; Apr. 5.
- Hilton, Harry A., et al. (See Sprague, Earl V., assignor.)
- Hilton, Daniel M., executrix. (See Hilton, Robert W.)
- Hilton, Harry A., Boston, Mass. Egg-turning rack. 1,616,972; Feb. 8.
- Hilton, Robert W., deceased; D. M. Hilton, executrix, Cincinnati, Ohio, assignor to The Kemper-Thomas Company, New York, Ohio. Manufacture of fiber board. 1,624,599; Apr. 12.
- Hilton, Roland C., Hollywood, assignor to J. Berman, Los Angeles, Calif. Friction hinge. 1,637,642; Aug. 2.
- Hilty, Christian J., Rittman, Ohio. Humidifier for hot-air heating systems. 1,641,587; Sept. 6.
- Himel, Curt J., New Orleans, La. Signal-light switch. 1,618,891; Jan. 11.
- Himes, Howard P., assignor of one-half to General Motors Corporation, Detroit, Mich. Electric arc-welding apparatus. 1,628,344; Apr. 5.
- Himes, Howard P., assignor of one-half to General Motors Corporation, Detroit, Mich. Electric arc welding. 1,638,336; Aug. 9.
- Himes, Walter H., Pittsburgh, Pa. Spring shackle. 1,648,346; Nov. 8.
- Himes, Walter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Centrifugal drying machine. 1,649,115; Nov. 15.
- Himmelman, Henry, Winnipeg, Manitoba, Canada. Game board. Des. 73,033; July 12.
- Himmelright, Raleigh J., Englewood, N. J., assignor to American Arch Company. Making arch bricks. 1,634,356; July 5.
- Himmelright, Raleigh J., Englewood, N. J., assignor to American Arch Company. Refractory block. 1,634,357; July 5.
- Himmelsbach, Joseph, assignor to Gebr. Himmelsbach Aktiengesellschaft, Freiburg, Germany. Treating wood. 1,623,459; July 5.
- Himmelsbach, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuel-injection device for internal-combustion engines. 1,638,032; Aug. 9.
- Himmelwright, Wallace G., assignor to McDougall Company, Frankfort, Ind. Kitchen cabinet. 1,618,126; Feb. 15.
- Himmerich, Max, New York, N. Y. Stopcock. 1,627,974; May 10.
- Hinchey, John W., and C. S. Watson, Westminster, assignors of one-third to C. S. Garland, London, England. Centrifugal separator. 1,613,579; Jan. 4.
- Hinchey, John W., assignor to Burson Knitting Company, Rockford, Ill. Knitted fabric. 1,616,530; Feb. 8.
- Hinchliff, Ralph, assignor to Burson Knitting Company, Rockford, Ill. Knitted stocking. 1,646,199; Oct. 18.
- Hinckley, Burton C., C. J. Thoman, and G. E. Holton, assignors to The Hinckley-Myers Company, Jackson, Mich. Reaming mechanism. 1,630,083; May 24.
- Hinckley, Frank C., Stratford, assignor to Dictaphone Corporation, Bridgeport, Conn. Casing for a dictating machine or similar article. Des. 74,111; Dec. 20.
- Hinckley, Frank C., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound record. Des. 74,125; Apr. 10.
- Hinckley-Myers Company, The. (See Hinckley, B. C., Thoman, and Holton, assignors.)
- Hind, George. (See Blair, R. F. and Hind.)
- Hind, Samuel W., Chicago, Ill. Receptacle and cover for medicine. 1,623,828; Jan. 11.
- Hind, William J., assignor to M. P. Smith, Mobile, Ala. Filing card. 1,652,716; Dec. 13.
- Hindahl, David. (See Hosceit, W. J., and Hindahl.)
- Hindahl, David, assignor to H. S. Hart, Chicago, Ill. Hopper-car end and ladder construction. 1,617,809; Feb. 15.
- Hindahl, David, assignor to H. S. Hart, Chicago, Ill. Car construction. 1,618,008; Feb. 15.
- Hindahl, David, assignor to H. S. Hart, Chicago, Ill. Dump-dump mechanism. 1,620,097; Mar. 8.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Latching device for car doors. 1,622,718; Mar. 29.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car construction. 1,623,998; Apr. 26.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Railway dump car. 1,626,825; May 3.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Selective dump car. 1,643,013; Sept. 20.

- Hinde, Charles, Los Angeles, Calif. Portable container. 1,645,992; Oct. 18.
- Hinde, James J., Sandusky, Ohio. Manufacturing insulating and plaster board from cornstalks. 1,623,184; Apr. 5.
- Hinde, James J., Sandusky, Ohio. Railway tie. 1,623,185; Apr. 5.
- Hinderlitter, Frank J., Tulsa, Okla. Swivel baller top. 1,624,948; Apr. 19.
- Hindes, Joseph F., Relay, Md., assignor to Emerson Drug Company, Baltimore, Md. Commercial vehicle float. Des. 72,427; Apr. 12.
- Hindle, John H. and T. Heslingden, England. Take-up motion for looms for weaving. 1,630,428; May 31.
- Hindle, Thomas. (See Hindle, John H. and T.)
- Hindmarsh, Percy J., Lincoln, Nebr., assignor to The American Steel and Wire Company of New Jersey. Fencepost. 1,629,663; May 24.
- Hinds, Hubert, Springfield, Ill. Circuit breaker. 1,639,730; Aug. 23.
- Hinds, Raymond, Waymarth, Pa. Combination introducing device for queen bees. 1,613,752; Jan. 11.
- Hinds, Sherwood, Richmond Heights, assignor to St. Louis Pump & Equipment Company, St. Louis, Mo. Mechanical apparatus. 1,621,202; Mar. 15.
- Hindshaw Engineering & Development Company. (See Hindshaw, Henry H., assignor.)
- Hindshaw, Henry H., assignor to Hindshaw Engineering & Development Company, Minneapolis, Minn. Apparatus for utilizing low-grade iron ore. 1,633,839; June 28.
- Hineline, Harlds D., Akron, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Variable-speed squirrel-cage motor. 1,627,330; May 3.
- Hiner, Connell C., Des Moines, La. and Hiner.)
- Hines, Francis J., Brooklyn, N. Y. Electrical receptacle. 1,645,950; Oct. 18.
- Hines, James H., Hobart, Okla. Hair clipper. 1,632,183; June 14.
- Hines, John B., Guelph, Ontario, Canada. Sole for rubber boots. 1,652,307; Dec. 13.
- Hines, O'Dell, Burnsville, Miss. Spring wheel. 1,625,025; Apr. 19.
- Hinger, William L., assignor to The White Company, Cleveland, Ohio. Winch. 1,615,543; Jan. 25.
- Hinker, Benjamin F., Taft, Calif. Pipe and rod spider. 1,626,828; May 3.
- Hinkley, Frank H., Erie, Pa. Crank-case heater. 1,629,382; May 17.
- Hinkley, George F., Brookings, S. Dak. Wet-feed mixer. 1,635,321; July 12.
- Hinman, George L. and F. E. Greene, assignors to The Greist Manufacturing Company, New Haven, Conn. Combination robe rail and handle. Des. 73,177; Aug. 2.
- Hinman, John H., assignor to Heine Boiler Company, St. Louis, Mo. Internal mandrel for sectional boiler headers. 1,636,333; Aug. 9.
- Hinman, John H., St. Louis, Mo., and R. F. Burke, Phoenixville, Pa., assignors to Heine Boiler Company, St. Louis, Mo. Soot-blowing apparatus for water-tube boilers. 1,620,762; Mar. 15.
- Hinman, Scott. (See Taylor, Arthur E., assignor.)
- Hinneken, Florent, Paterson, N. J. Fabric-spreading apparatus. 1,642,496; Sept. 13.
- Hinrichs, Anna W., Davenport, Iowa. Purse. 1,618,088; Feb. 15.
- Hinrichsen, Edward E., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Semiautomatic telephone system. 1,624,341; Apr. 12.
- Hinrichsen, Edward E., assignor to Western Electric Company, Incorporated. New York, N. Y. Telephone system. 1,643,452; Sept. 27.
- Hinrichsen, Edward E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,648,122; Nov. 8.
- Hinsdale Manufacturing Company. (See McDonough, John W., assignor.)
- Hinsky, Anthony P., Brooklyn, N. Y. Radio transformer. 1,647,094; Aug. 25.
- Hinson, Winslow E., Fort Smith, Ark. Cabinet. 1,631,202; June 7.
- Hinton, George H. and T. W. Marsh, Reedville, Va. Removing and catching the scales of fish at traps. 1,640,990; Aug. 30.
- Hinton, Norman P., Bolders, Green, England, assignor to Metropolitan-Vickers Electrical Company, Limited. Telephonic receiving apparatus. 1,645,284; Oct. 11.
- Hinton, William, San Bernardino, Calif. Mold for plastic materials. 1,633,328; June 21.
- Hintz, Leroy F., Chicago, Ill. Tool for tensioning and twisting wires. 1,621,588; Mar. 22.
- Hintz, Leroy F., Chicago, Ill., assignor to A. J. Gerrard, Menlo Park, Calif. Method of and apparatus for bracing and securing merchandise packages for transit. 1,624,949; Apr. 19.
- Hintz, William L., et al. (See Soland, Emerson L., assignor.)
- Hinze, Charles G., Evanston, Ill. Hand guard. 1,631,128; June 7.
- Hinzer, Heinrich, Essen-on-the-Ruhr, Germany. Cable-supporting clamp. 1,642,243; Sept. 13.
- Hipple, William H. J., Jr., Philadelphia, Pa. Cigarette-extinguishing ash tray. 1,639,036; Aug. 16.
- Hipps, Marvin F., Electra, Tex. Automatic cut-off. 1,632,968; June 21.
- Hird, John B., assignor to Ideal Brake Reliner Company, Seattle, Wash. Machine for lining brakes and clutches. 1,633,018; June 21.
- Hirdler, Harold. (See Robertson, H. and Hirdler.)
- Hire, Thomas F., in trust. (See Gale, Frederick M., assignor.)
- Hirner, Emil A., Allentown, Pa. Manufacture of hosiery. 1,635,712; July 12.
- Hirsch, Anna E. (See Torne, William D., assignor.)
- Hirsch, Harry M., and F. A. Harris, Parsons, Kans. Automatic gate. 1,629,790; May 24.
- Hirsch, Henry, Zurich, Switzerland. Electric-sign controller. 1,651,275; Nov. 29.
- Hirsch, Isidore, New York, N. Y. Renovating printer's type. 1,638,033; Aug. 9.
- Hirsch, Jacob, assignor to Royal Lamp Shade Co., Inc., New York, N. Y. Arm for a bridge lamp or the like. Des. 73,380; Aug. 30.
- Hirsch, Louis, Cincinnati, Ohio. Railway-crossing gate. 1,617,054; Feb. 8.
- Hirsch, Paul A., assignor to Furnace Engineering Company, New York, N. Y. Pulverizing machine. 1,636,693; July 26.
- Hirschberg, Wulf (See Hersen, C., and Hirschberg.)
- Hirschfeld, Armond J. (See Wisroth, E., and Hirschfeld.)
- Hirschfeld, Wilhelm, Antioch, assignor to Great Western Electro Chemical Company, San Francisco, Calif. Manufacture of alkali metal xanthates. 1,636,229; July 19.
- Hirschl, Harry, Washington, Mo. Tobacco-smoking pipe. 1,617,113; Feb. 8.
- Hirschler, Edward L., San Francisco, Calif. Brake-operating mechanism. 1,644,378; Oct. 4.
- Hirschmüller, Albert, Miesbach, Germany. Spinning machine. 1,628,008; Mar. 29.
- Hirsh, Joseph E., Brooklyn, and A. D. Robson, assignors to Standard Tarnish Works, New York, N. Y. Method and composition for polishing surfaces composed of cellulose ester compositions. 1,621,780; Mar. 22.
- Hirshfeld, Harry A., and A. G. Stern, Philadelphia, Pa. Electric toaster. 1,645,327; Oct. 11.
- Hirshfeld, Maurice W., New York, N. Y. Cushioned heel. Des. 72,916; May 24.
- Hirshstein, Joseph, Cleveland Heights, Ohio. Check valve. 1,635,842; July 12.
- Hirst, Arthur, assignor of one-half to G. H. Oxley, Sheffield, England. Cutlery-grinding machine. 1,654,000; Dec. 27.
- Hirst, Charles E., assignor to Beckett, Laycock & Watkinson Limited, London, England. Screw and nut actuating mechanism. 1,627,331; May 3.
- Hirst, Franklin G., Philadelphia, Pa. Lubrication of vehicle springs. 1,635,413; July 12.
- Hirst, Frederick W., Ewing Township, Mercer County, Pa. Spring auger. Des. 73,685,414; July 12.
- Hirtz, Isidore, New York, N. Y. Sandwich holder. Des. 73,567; Oct. 4.
- Hirvonen, Erik. (See Tuttle, W. W., and Hirvonen.)
- Hisanosuke, Sato, New York, N. Y. Game apparatus. 1,629,383; May 17.
- Hiscock, Chicago, Ill. Boring mechanism. 1,637,611; Aug. 2.
- Hiscock, Charles I. (See Hiscock, Elmer E., and C. I.)
- Hiscock, Elmer E., Chicago, Ill., and C. I. Hiscock, La Crosse, Wis. Automobile oil-drain device. 1,631,129; June 7.
- Hiser, Charles H., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Handle for a burial casket. Des. 71,913; Jan. 25.
- Hiser, Charles H., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Handle for a burial casket. Des. 71,914; Jan. 25.
- Hisey-Wolf Machine Company, The. (See Ritz, Emil, assignor.)
- Hislup, Robert S., assignor to Racine Confectioners Machinery Company, Racine, Wis. Candy-making machine. 1,635,713; July 12.
- Hitch, Arthur. (See Calcott, W. S., Hitch, and Mahr.)
- Hitchcock, Carl H., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand gauge. 1,614,553; Jan. 18.
- Hitchcock Experiment Company. (See Hitchcock, Halbert K., assignor.)
- Hitchcock, George E., assignor of one-third to A. Alford, Flint, Mich. Automobile signal. 1,640,275; Aug. 23.
- Hitchcock, Guy F., Houston, Tex. Lantern. 1,620,970; Mar. 15.
- Hitchcock, Guy F., Houston, Tex. Lantern. 1,644,923; Aug. 23.
- Hitchcock, Halbert K., Pittsburgh, Pa. Apparatus for grading abrasive and applying same to continuous grinding systems. 1,629,502; May 24.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Hitchcock Experiment Company. Apparatus for making sheet glass. 1,615,840; Feb. 1.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for supplying polishing material to a series of polishing machines. 1,620,021; Mar. 8.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for handling glass sheets. 1,622,380; Mar. 29.

- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Plate-glass transfer and drawing apparatus. 1,631,203; Jan. 7.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for melting glass. 1,631,204; June 7.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-surfacing apparatus. 1,638,761; Aug. 9.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Leer construction. 1,638,769; Aug. 9.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-polishing apparatus. 1,644,379; Oct. 4.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-transfer apparatus. 1,651,206; Nov. 29.
- Hitchcock, James E., Fullerton, Calif. Casing head. 1,620,888; Mar. 15.
- Hitchcock, John L., Rayland, Ohio, and A. R. Pangborn, Watkins, N. Y. Lighting switch for motor vehicles. 1,647,520; Nov. 1.
- Hitchcock, Lawrence, Cleveland Heights, Ohio. Gate. 1,650,213; Nov. 22.
- Hitchcock, Rex B., Hoosick Falls, N. Y., assignor to International Harvester Company. Harvester thrasher. 1,640,453; Oct. 25.
- Hite, Frank D., Minneapolis, Minn. Tire tool. 1,641,083; Aug. 30.
- Hitner, Harry F., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for drawing sheet glass. 1,615,841; Feb. 1.
- Hitner, Harry F., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making sheet glass. 1,615,842; Feb. 1.
- Hitner, Harry F., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for cutting glass. 1,618,089; Feb. 15.
- Hitt, Ivan B., Stockton, Calif. Apparatus for taking fingerprints. 1,618,432; Feb. 22.
- Hitt, Oscar, Weehawken, N. J. Toy automobile. Des. 72,828; June 14.
- Hitt, Thomas G., Seattle, Wash. Colored vapor signal. 1,624,600; Apr. 12.
- Hitt, Thomas G., Seattle, Wash. Firecracker. 1,638,994; Aug. 16.
- Hitt, Thomas G., Seattle, Wash. Rotary-balanced rocket. 1,645,427; Oct. 11.
- Hitt, Thomas G., Seattle, Wash. Rocket. 1,653,178; Dec. 20.
- Hittenberger, Carl H., San Francisco, Calif. Abdominal support. 1,619,513; Mar. 1.
- Hittle, James A., assignor to R. H. Hassler, Indianapolis, Ind. Spring-winding machine. 1,627,604; May 10.
- Hitzel, Aldro B. (See Manhardt, R. T., and Hitzel.)
- Hitzman, Herman W., Roselle, Ill. Valve for oil burners. 1,631,109; May 31.
- Hixson, Arthur W., Leonia, N. J., and A. K. Balls, Philadelphia, Pa., assignors to The Fleischmann Company, New York, N. Y. Increasing the activity of yeast and activator for yeast. 1,651,027; Nov. 29.
- Hixson, Estell M., Nampa, Idaho. Tool box. 1,652,984; Dec. 13.
- Hjert, Andrew G., Seattle, Wash. Window latch. 1,616,189; Feb. 1.
- Hjorth, Oscar B., assignor of one-half to W. H. Skillen, Janesville, Wis. Fountain pen. 1,634,618; July 5.
- Hlavacek, Charles, Brooklyn, N. Y. Spring stabilizer. 1,615,874; Feb. 1.
- Hnilo, Frank, and J. Schultz, Cicero, Ill. Microscopic-slide staining and drying apparatus. 1,620,351; Mar. 8.
- Hoag, Charles L., Chicago, Ill. Oil burner. 1,613,660; Jan. 11.
- Hoag, Charles L., Oak Park, assignor to Standard Oil Friction Burner Company, Chicago, Ill. Oil-burning furnace. 1,622,828; Mar. 29.
- Hoag, Philip O., assignor to The Whitehead & Hoag Company, Newark, N. J. Nonrefillable coin bank. 1,637,312; July 26.
- Hoagland, Frank O., Bridgeport, Conn., assignor by mesne assignments, to Pratt & Whitney Company, New York, N. Y. Internal-grinding machine. 1,632,600; June 14.
- Hoagland, Will G., Independence, Kans. Boiler. 1,637,939; Aug. 2.
- Hoague-Sprague Corporation. (See Smith, Harry B., assignor.)
- Honn, Daniel W., et al. (See Haussmann, John F., assignor.)
- Hoar, Charles, Wilkes-Barre, Pa. Lubricant. 1,618,708; Feb. 22.
- Hoard, Milo C., assignor to W. P. Griser, Stryker, Ohio. Combined undertaker's slumber bed, cooling board, and casket support. 1,624,950; Apr. 19.
- Horne, Cyril G., Hounslow, England. Joint for elbows and knuckles of artificial limbs. 1,644,333; Oct. 11.
- Hoban, Fairfield W., assignor, by mesne assignments, to Holdaphone, Incorporated, New York, N. Y. Telephone attachment. Re16,635; May 24.
- Hoban, Fairfield W., assignor, by mesne assignments, to Holdaphone, Incorporated, New York, N. Y. Telephone attachment. Re16,645; May 31.
- Hoban, Fairfield W., assignor to Holdaphone, Incorporated, New York, N. Y. Telephone attachment. 1,634,326; July 5.
- Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Induction machine. 1,628,464; May 10.
- Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Induction motor. 1,632,601; June 14.
- Hobart Manufacturing Company. (See Akers, Milton K., assignor.)
- Hobart Manufacturing Company, The. (See Johnston, Herbert L., assignor.)
- Hobart Manufacturing Company. (See Zademach, Erich R., assignor.)
- Hobart, Victor. (See Berg, Charles, assignor.)
- Hobbisiefken, Gerd, Burlington, Iowa. Device for facilitating the fitting and hanging of doors. 1,620,971; Mar. 15.
- Hobbisiefken, Gerd, Burlington, Iowa. Device for facilitating the marking of doors and door jambs for hinges. 1,630,429; May 31.
- Hobbisiefken, Gerd, Burlington, Iowa. Device for use in applying locks to doors, etc. 1,634,667; July 5.
- Hobbs, Charles W., Jr., Redlands, Calif. Skirt-lengthening device. 1,616,046; Feb. 1.
- Hobbs, Clarence. (See Hobbs, Frank D., and C.)
- Hobbs, Frank D., and C., Los Angeles, Calif. Roller screen. 1,626,086; Apr. 26.
- Hobbs, Franklin W., Bangor, Me. Fish lure. 1,620,972; Mar. 15.
- Hobbs Manufacturing Company. (See Lenston, Charles S., assignor.)
- Hobbs, Thomas M. (See Cross, Frank, assignor.)
- Hobbs, William R. (See Blackford, Gilbert V., assignor.)
- Hobbs, Willis F., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Compound-lever valve-spring lifter. 1,614,301; Jan. 11.
- Hobbs, Willis F., and J. A. Anderson, assignors to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Valve-lifting tool. 1,614,300; Jan. 11.
- Hobe, William W., New York, N. Y. Button. Des. 72,971; Feb. 8.
- Hobe, William W., New York, N. Y. Button. Des. 71,972; Feb. 8.
- Hobe, William W., New York, N. Y. Appliqué trimming. Des. 72,947; June 28.
- Hobe, William W., New York, N. Y. Appliqué trimming. Des. 72,948; June 28.
- Hobe, William W., New York, N. Y. Appliqué trimming. Des. 72,949; June 28.
- Hobe, William W., New York, N. Y. Button. Des. 72,130; July 26.
- Hobson, Frank E., Bellingham, Wash. Fuel-distilling apparatus. 1,614,025; Jan. 11.
- Hobson, John H., Sulphur Springs, Ark., assignor of one-fifth to J. A. Brown, one-fifth to C. A. Swares, one-fifth to W. J. Brown, and one-fifth to W. T. Feazell. Rotary timer. 1,641,972; Sept. 13.
- Hobson, John S., Chicago, Ill., assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 1,644,834; Oct. 11.
- Hobson, Stanley H., assignor to Geo. D. Roper Corporation, Rockford, Ill. Combined gas stove and range. Des. 72,094; Mar. 1.
- Hobson, Stanley H., assignor to Geo. D. Roper Corporation, Rockford, Ill. Oven-door mounting. 1,634,358; July 5.
- Hochmuth, Carl, et al. (See Castleton, Eldred O., assignor.)
- Hochriem, Gustav F., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill. Coin selector. 1,623,186; Apr. 5.
- Hochstadter, Irving. (See Stoddard, W. B., and Hochstadter.)
- Hochstetter, Frederick W. (See McCurdy, R. P., and Hochstetter.)
- Hochstetter, Frederick W., Dayton, Ohio, and W. W. Thorpe, New York, N. Y. Sound receiver and transmitter. 1,629,869; May 24.
- Hochtritt, Benhart A., Wausau, Wis. Pipe-cleaning machine. 1,648,048; Nov. 8.
- Hochuli, Henry R., Jamaica, N. Y., assignor to Mergenthauf Luggage Company. Machine for clearing matrix cavities. 1,627,093; May 3.
- Hocker, Carl D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Coating composition. 1,634,359; July 5.
- Hocker, Carl D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Coating composition. 1,638,579; Aug. 9.
- Hocker Corporation, The. (See Hocker, Ivan S., assignor.)
- Hocker, Ivan S., assignor to The Hocker Corporation, Philadelphia, Pa. Preparing chocolate beverage. 1,650,355; Nov. 22.
- Hocker, Ivan S., assignor to The Hocker Corporation, Philadelphia, Pa. Preparing fat-free chocolate. 1,650,356; Nov. 22.
- Hockley, Horace R., Slough, England, assignor to The National Pneumatic Company, New York, N. Y. Apparatus for operating and controlling the doors of tramway or like vehicles. 1,644,360; Oct. 4.

- Hockmeyer, Clive E., assignor to Zip-On Mfg. Co., Lowell, Mass., Lacing, 1,641,487; Sept. 6.
- Hodde, William, Golden City, Mo. Gate construction. 1,625,254; Apr. 19.
- Hodecker, Wilhelm, Ilmenau, Germany. Manufacturing double-walled glass vessels. 1,623,311; Apr. 5.
- Hodes, David H., New York, N. Y. Coat lining. 1,640,501; Aug. 20.
- Hodge, Clark H., and A. F. Schultz, South Gate, Calif. Ornament for automobile radiators. Des. 73,973; Nov. 29.
- Hodge, Forrest H., Lodi, Ohio. Oil-purifying apparatus. 1,646,481; Oct. 23.
- Hodge, Howard D., New York, N. Y., assignor to Burgess Battery Company, Madison, Wis. Dry-cell electrode. 1,638,995; Aug. 16.
- Hodge, Perry Y., Niagara Falls, N. Y. Sound-reproducing device. 1,645,061; Oct. 11.
- Hodge, Robert J., assignor to The American Buckle Co., West Haven, Conn. Slide buckle. 1,654,044; Dec. 27.
- Hodge, Thomas D., Duluth, Minn. Kick-off for shears. 1,641,678; Sept. 6.
- Hodge, William B. (See Cramer, S. W., and Hodge.)
- Hodge, Wm. J., Company. (See Cramer, S. W., and Hodge assignors.)
- Hodge, William B., Charlotte, N. C., assignor to Parks-Cramer Company, Fitchburg, Mass. Self-cleaning port. 1,645,700; Oct. 18.
- Hodges, Benjamin D., and C. E. Owen, Waco, Tex., assignors of one-fourth to Z. A. Booth and one-fourth to H. J. Fowler. Water heater. 1,621,013; Mar. 15.
- Hodges, Edward G., Milwaukee, Wis. Combustion of liquid fuel. 1,649,696; Nov. 15.
- Hodges, Edward N., New York, N. Y. Golf tee. 1,645,001; Oct. 1.
- Hodges, Orson H., Portland, Oreg. Rotary valve for internal-combustion engines. 1,651,207; Nov. 29.
- Hodges, Vera C., Los Angeles, Calif. Gear-shifting mechanism for engine starters and the like. 1,642,109; Sept. 13.
- Hodges, William F., Schenectady, N. Y., assignor to General Electric Company. Treating ferrous metal. 1,651,891; Dec. 6.
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device. 1,652,527; Dec. 13.
- Hodgkins, Reginald L., Los Angeles, Calif. Golf-club head. Des. 71,942; Feb. 1.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hydraulic regulating device. 1,613,753; Jan. 11.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade bracing. 1,618,284; Feb. 22.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clinker grinder. 1,620,659; Mar. 13.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,623,999; Apr. 12.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,625,541; Apr. 10.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine gland. 1,626,237; Apr. 26.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Surface condenser. 1,634,903; July 5.
- Hodgman, Robert E., assignor to The Babespun Company, Denver, Colo. Baby medicine spoon. 1,648,123; Nov. 8.
- Hodgson, Harold W., Fitchburg, Mass. Multiple continuous-wire-drawing machine. 1,653,097; Dec. 20.
- Hodgson, Harriette E., New York, N. Y. Steering-wheel retractor. 1,621,883; Mar. 15.
- Hodgson, Harriette E., New York, N. Y. Antiskid device. 1,621,883; Mar. 22.
- Hodgson, Harriette E., New York, N. Y. Artificial hand. 1,625,317; Apr. 19.
- Hodgson, Harriette E., New York, N. Y. Porch fire escape. 1,640,702; Aug. 30.
- Hodgson, William W., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Seaming square cans. 1,647,698; Nov. 1.
- Hodshon, Ernest E., Nutley, N. J. Steam generating and discharging device. 1,646,912; Oct. 25.
- Hodtun, Joseph B., Bellevue, Pa., assignor to Pittsburgh Transformer Company. Cooling system for electrical apparatus. 1,643,014; Sept. 20.
- Hoe, Harry A. (See Hoe, W. A. and H. A.)
- Hoe, R., & Co. (See Ball, Harry V., assignor.)
- Hoe, R., & Co. (See Beveridge, Ernest G., assignor.)
- Hoe, R., & Co. (See Claiborn, Herman P., assignor.)
- Hoe, R., & Co. (See Halliwell, John J., assignor.)
- Hoe, R., & Co. Inc. (See Huck, William, assignor.)
- Hoe, R., & Co. (See Lamatsch, Frederick, assignor.)
- Hoe, R., & Co. (See Meyer, Joseph E., assignor.)
- Hoe, R., & Co. (See Retz, Andrew J., assignor.)
- Hoe, R., & Co. (See Schmidt, Louis A., assignor.)
- Hoe, R., and Co. (See Sheldon, Edward P., assignor.)
- Hoe, R., & Co. (See Zuckerman, Adolph M., assignor.)
- Hoe, Robert, Hyde Park, N. Y. Ironing machine. 1,651,599; Dec. 6.
- Hoe, Robert, Hyde Park, N. Y. Ironing machine. 1,651,600; Dec. 6.
- Hoe, Robert, Hyde Park, N. Y. Ironing machine. 1,651,601; Dec. 6.
- Hoe, William A. and H. A., Middlesboro, Ky. Floor polisher. 1,642,440; Sept. 13.
- Hoecker, Albert C., Collinsville, Ill. Packing ring for piston joint. 1,646,451; Aug. 23.
- Hoecker, Albert C., Collinsville, Ill., assignor, by mesne assignments, to American Auto Rim Lock Corporation. Combined contractor and expander for automobile tire rims. 1,654,420; Dec. 27.
- Hoefel, Frederick, Pottsville, Pa. Skylight. 1,634,288; Aug. 20.
- Hoefelmayer, Karl, Kempton in Allgau, Germany. Apparatus for preparing liquid from milk powder. 1,637,415; Aug. 2.
- Hoefler, Carl P., Syracuse, N. Y. Shield for automobile headlights. 1,631,130; June 7.
- Hoefler, Frederick W., Phoenix, N. Y. Display card for toilet-paper rolls. 1,632,475; June 14.
- Hoeford, Hauberg, Marstrand & Helweg Aktieselskabet Titan. (See Thomsen, Thomas C., assignor.)
- Hoert, Adolph R., Chicago, Ill. Trap-nest door for poultry. 1,642,147; Aug. 23.
- Hoertmann, Alexander O., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Armored cable. 1,636,606; July 19.
- Hoertmann, Alexander O., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. 1,647,699; Nov. 1.
- Hoegg, Augustus F., Weatherly, Pa. Lateral-motion bearing for journal boxes. 1,635,124; July 5.
- Hoegger, Joseph A., Jersey City, N. J. Fixture support. 1,636,364; July 19.
- Hoegger, Joseph A., Jersey City, N. J. Wall cabinet. 1,646,200; Oct. 18.
- Hoeglund, Otella A., Cincinnati, Ohio. Union or one-piece undergarments. 1,629,704; May 24.
- Hoehn, Ernest, Zurich, Switzerland. Welded butt-strap connection for sheet metal. 1,617,114; Feb. 8.
- Hoehn, Albert, Detroit, Mich. Vehicle body. 1,631,131; June 1.
- Hoener, Edmund A. (See Benner, W. W., and Hoener.)
- Hoener, Edmund A., assignor to Firestone Tire and Rubber Company, Akron, Ohio. Rotary cutter. 1,643,120; Sept. 20.
- Hoensch, Ernest, Wausau, Wis. Hose protector. 1,640,276; Aug. 23.
- Hoerr, Louis A., assignor to Railway Devices Company, St. Louis, Mo. Angle-cock holder. 1,616,086; Feb. 1.
- Hoersch, Henry A., assignor of one-half to J. L. Baker, Omaha, Neb. Pressure-actuated control device. 1,646,625; Mar. 8.
- Hoewel, Herman F. (See Auerbach, Karl, assignor.)
- Hoewel, Herman F., New York, N. Y. Carriage arrangement for sand-blast apparatus. 1,628,317; May 10.
- Hoewel, Herman F., New York, N. Y. Air tank. 1,644,555; Nov. 25.
- Hoey, Frank J. (See Fefel, John E., assignor.)
- Hofer, Bert G. (See Wagner, C. E., and Hofer.)
- Hoferer, Daniel W., assignor to J. J. Richart, Whittier, Calif. Perforator. 1,615,172; Jan. 18.
- Hoff, Carlton L., York, Pa. Tread grip for vehicle tires. 1,640,680; July 19.
- Hoff, Carlton L., York, Pa., assignor to Hoff Metal Products Company, New York, N. Y. Tread grip. Re16,680; July 19.
- Hoff, Henry J., and G. B. Bush, York, Pa. Vehicle wheel jack. 1,624,243; Apr. 12.
- Hoff, Martin, Frankfort-on-the-Main, assignor to Kaspar Getreideschulmaschine G. m. b. H., Offenbach-on-the-Main, Germany. Machine for shelling and polishing grain and the like. 1,640,996; Aug. 30.
- Hoff, Martin, Frankfort-on-the-Main, assignor to Kaspar Getreideschulmaschine G. m. b. H., Offenbach-on-the-Main, Germany. Machine for shelling and polishing grain and the like. 1,647,521; Nov. 1.
- Hoff Metal Products Company. (See Hoff, Carlton L., assignor.)
- Hoffenberg, Maurice J., New York, N. Y. Window-sash starter. 1,625,941; Apr. 26.
- Hoffer, Fred A., Frankfort, N. Y. Holder for washing machines. 1,632,735; July 14.
- Hoffer, Joseph P., W. Sullivan, and J. H. Bourgon, assignors to The Studebaker Corporation, Detroit, Mich. Seat construction. 1,647,522; Nov. 1.
- Hoffer, Le Roy H., Nyack, assignor to T. E. Murray, Brooklyn, N. Y. Electric welding and the like. 1,620,206; Mar. 8.
- Hoffer, Leroy H., assignor to T. E. Murray, Brooklyn, N. Y. Electric welding apparatus. 1,648,177; Nov. 8.
- Hoffert, Roy G., assignor to The Christensen Machine Co., Racine, Wis. Signature-stitching machine. 1,651,122; Nov. 29.
- Hoffman, Abe A., Kansas City, Mo. Costume slip. 1,618,193; Feb. 22.
- Hoffman, Albert F., Newark, N. J. Bottling machine. 1,631,530; June 7.
- Hoffman, Alfred W., New York, N. Y. Tabular calculator. 1,640,703; Aug. 30.
- Hoffman, Ben P. (See Bisbee, W. G., and Hoffman.)
- Hoffman, Carl C., Emporia, Kans. Dinner-pail container. 1,646,147; Oct. 18.

- Hoffman, Charles, Tuckahoe, assignor to Ward Baking Company, New York, N. Y. Making food products. 1,640,193; Aug. 23.
- Hoffman, Charles C., New York, N. Y. Magazine pencil. 1,633,529; June 21.
- Hoffman, Charles E., Richland, Wash. Safety delivery receptacle. 1,619,251; Mar. 14.
- Hoffman, Dorothy B. (See Larson, Edward, assignor.)
- Hoffman, Frank, Montreal, Quebec, Canada. Tobacco pipe. 1,623,009; Mar. 29.
- Hoffman, Frank, Buffalo, N. Y. Woodworking machine. 1,628,724; May 17.
- Hoffman, Frank, Detroit, Mich. Lock nut. 1,629,503; May 24.
- Hoffman, Fred D., Kansas City, Mo. Pump. 1,612,817; Jan. 4.
- Hoffman, Fred D., Kansas City, Mo. Pump. 1,618,337; Feb. 22.
- Hoffman, Fred D., Kansas City, Mo. Conveyer. 1,618,338; Feb. 22.
- Hoffman, Fred D., Kansas City, assignor to Hoffman Smoke Abator Company, Jackson County, Mo. Smoke consumer. 1,613,564; Jan. 4.
- Hoffman, Fred D., Kansas City, assignor to Hoffman Smoke Abator Company, Jackson County, Mo. Smoke consumer. 1,618,336; Feb. 22.
- Hoffman, George A., assignor to The New Method Stove Company, Mansfield, Ohio. Electric preheater for vapor burners. 1,630,940; May 31.
- Hoffman, George A., assignor to The New Method Stove Company, Mansfield, Ohio. Gas-range oven. 1,643,339; Sept. 27.
- Hoffman, George E., Rockford, Ill. Combination window shade and curtain holder. 1,651,525; Dec. 6.
- Hoffman, George K., Nefts, Pa. Ladder. 1,647,915; Apr. 1.
- Hoffman, Glenn R., Springfield, Ill. Braking mechanism, more particularly for motor vehicles. 1,627,508; May 3.
- Hoffman, Glenn R., Springfield, Ill. Braking mechanism, more particularly for motor vehicles. 1,627,509; May 3.
- Hoffman, Glenn R., Springfield, Ill. Braking mechanism, more particularly for motor vehicles. 1,627,510; May 3.
- Hoffman Heater Company, The. (See Reinecke, John P., assignor.)
- Hoffman, Herbert E., assignor to General Fire Extinguisher Company, Providence, R. I. Automatic mixing and discharging system for plural liquids. 1,623,476; Apr. 6.
- Hoffman, Herman F. (See McLeellan, Joseph R., assignor.)
- Hoffman, John A., Painesville, Ohio, assignor to The Cuyahoga Spring Company. Making spring clips. 1,641,631; Sept. 6.
- Hoffman, John E., Casper, Wyo. Wrecking tool. 1,634,191; June 28.
- Hoffman, John W., Detroit, Mich. Steering-wheel-holding device. 1,622,556; Mar. 29.
- Hoffman, Leon F., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Control device for compressor engines. 1,654,081; Dec. 27.
- Hoffman, Louis E., and W. E. Wards, assignors to Crompton & Knowles Loom Works, Worcester. Needle feeler for looms. 1,639,850; Aug. 23.
- Hoffman, Michael, Los Angeles, Calif. Transmission-band operating device. 1,623,312; Apr. 5.
- Hoffman, Michael, Brooklyn, N. Y. Synchronized motion picture and sound reproduction. 1,648,480; Nov. 8.
- Hoffman, Milton J., Akron, Ohio. Poultry nest. 1,613,171; Jan. 4.
- Hoffman, Paul, La Grange, Ill., and J. B. Strong, Suffern, assignors to Ramapo Ajax Corporation, New York, N. Y. Switch-point guard. 1,628,882; May 17.
- Hoffman, Paul, La Grange, Ill., and J. B. Strong, Suffern, assignors to Ramapo Ajax Corporation, New York, N. Y. Safety locking device. 1,639,697; Aug. 23.
- Hoffman, Peter A., Hastings, Minn. Clip for bandless filing envelopes. 1,613,827; Jan. 11.
- Hoffman, Rudolph, Cleveland, Ohio. Burner. 1,612,921; Jan. 4.
- Hoffman, Rudolph, Cleveland, Ohio. Oil stove. 1,630,386; May 31.
- Hoffman, Rudolph, Cleveland, Ohio. Burner. 1,650,716; Nov. 29.
- Hoffman Smoke Abator Company. (See Hoffman, Fred D., assignor.)
- Hoffman Specialty Company. (See Emerson, Ralph R., assignor.)
- Hoffman Specialty Company. (See Haynes, Charles V., assignor.)
- Hoffman, Sten E., Gary, Ind. Check protector. 1,634,105; June 28.
- Hoffman, Signund. (See Taylor, W. E., and Hoffman.)
- Hoffmann, Emil, Cologne, Germany. Tensioning and locking device for wire-binding mechanism. 1,636,777; July 26.
- Hoffmann, Hans. (See Koref, F., and Hoffmann.)
- Hoffmann, Henry L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,647,993; Nov. 8.
- Hoffmann, Joseph J., Denver, Colo. Hopper for molds. 1,635,844; July 12.
- Hoffmann, Joseph W. (See Plein, A., and Hoffmann.)
- Hoffmann La Roche Chemical Works, The. (See Preiswerk, Ernst, assignor.)
- Hoffmann-La Roche Chemical Works, The. (See Wuest, Helmut M., assignor.)
- Hoffmann, Oswald, Neugersdorf, Germany. Dyeing yarns. 1,615,124; Jan. 18.
- Hoffmann, Otto E., Hamburg, Germany. Oil-returning device for axle bearings. 1,654,124; Dec. 27.
- Hoffmann, Semon, executor. (See Schmidt, Wilhelm, assignor.)
- Hoffmann, Simon, executor. (See Schmidt, Wilhelm.)
- Hoffmann, William H., assignor of one-half to A. J. L. Delon, Brooklyn, N. Y. Door lock. 1,635,714; July 12.
- Hoffmaster, Harry W., assignor to Reading Chain & Block Corporation, Reading, Pa. Trolley. 1,632,009; Dec. 6.
- Hofmeister, Hermann, Glesmarode, near Brunswick, assignor to Grimme, Natalis & Co., Aktiengesellschaft, Brunswick, Germany. Calculating machine. 1,631,033; May 31.
- Hofmeister, Hermann, Glesmarode, near Brunswick, assignor to Grimme, Natalis & Co. Aktiengesellschaft, Braunschweig, Germany. Calculating machine. 1,635,125; July 5.
- Hofner, Alvin C. (See Timmons, Lindsay H., assignor.)
- Hofner, Frank, Nanticoke, Pa. Gasoline engine. 1,626,106; Apr. 26.
- Hofstetter, George O., Fidelity, Ill. Measuring device. 1,631,682; June 7.
- Holland, Christian, Newburg, N. Dak. Hitch for draft animals. 1,639,608; Aug. 16.
- Holland, Christian, Newburg, N. Dak. Coupling. Aug. 16.
- Holmeister, Robert C., Bartlesville, Okla. Combination tool. 1,624,788; Apr. 12.
- Hofmann, Conrad, Berirk Schlucktenau, Czechoslovakia. Child's rocking horse. 1,637,643; Aug. 2.
- Hofmann, Friedrich, Mulheim-Kuhr, Germany, assignor to Holzward Gas Turbine Co., San Francisco, Calif. Valve. 1,634,390; July 5.
- Hofmann, George O., Chicago, Ill. Preserving eggs. 1,635,843; July 12.
- Hofmann, John M., Brooklyn, N. Y. Radio loud speaker. Des. 72,095; Mar. 1.
- Hofmann, Josef, Baumaroche, Switzerland. Recorder for musical dynamics. 1,614,984; Jan. 18.
- Hofmann, Martin, New York, N. Y. Self-defense shooting device. 1,618,976; Mar. 1.
- Hofmann, William F., Brooklyn, N. Y., assignor to H. L. Judd Co., Inc., Wallingford, Conn. Pole end. Des. 72,258; Mar. 22.
- Hofmann, William F., Brooklyn, assignor to H. L. Judd Co., New York, N. Y. Curtain-pole fixture. Des. 73,131; July 26.
- Hofmann, William F., Brooklyn, assignor to H. L. Judd Co., New York, N. Y. Curtain-pole end. Des. 73,178; Aug. 2.
- Hofmann, William F., Brooklyn, assignor to H. L. Judd Co., New York, N. Y. Curtain-pole end. Des. 73,179; Aug. 2.
- Hofmann, William F., Brooklyn, assignor to H. L. Judd Co., New York, N. Y. Curtain-pole end. Des. 73,180; Aug. 2.
- Hofmeyer, Leo, Milwaukee, Wis. Autoboggan. 1,632,719; Mar. 29.
- Hofmeister, Leo, Milwaukee, Wis. Producing fur pelts. 1,622,720; Mar. 29.
- Hofschneider, Frederic J., Rochester, N. Y. Method and apparatus for grinding teeth. 1,648,273; Nov. 8.
- Hofschneider, Frederic J., Rochester, N. Y. Hypodermic syringe. 1,648,308; Nov. 8.
- Holstad, Leif, Ambrose, N. Dak. Device for releasing tractor clutches. 1,614,001; Jan. 11.
- Hofstede-Crull, Rento W. H., assignor to Naamlooze Vennootschap de Vereenigde IJzerfabrieken "de Vijf", Doetinchem, Netherlands. Lubricating device for vertical electromotors. 1,654,211; Dec. 27.
- Hofstetter, Lawrence A., Union City, N. J. Lamp-socket construction. 1,638,691; Aug. 9.
- Hofstetter, Robert, Downers Grove, Ill., assignor to Westinghouse Electric Company, Incorporated, New York, N. Y. Nut-tightening apparatus. 1,648,944; Nov. 15.
- Hogan, George F., Chicago, Ill. Envelope. 1,624,137; Apr. 12.
- Hogan, George F., Chicago, Ill. Ankle protector. 1,634,576; July 5.
- Hogan, Louise C., Spokane, Wash. Hair net. 1,616,800; Feb. 8.
- Hogate, Joseph R., and L. E. Spence, Bladen, Nebr. Fabric treatment. 1,622,444; Mar. 29.
- Hoge, Edward and F. K., Philadelphia, Pa. Tool. 1,635,998; July 19.
- Hoge, Friedrich K. (See Hoge, Edward and F. K.)
- Hoge, James E., Cleveland, Ohio, and E. E. Clement, Washington, D. C. assignors to E. F. Colladay, Washington, D. C. Radiophone meter. 1,627,332; May 3.
- Hoge, John A., Tremont, La. Micrometer. 1,653,854; Dec. 27.
- Hoge, Max, assignor to Sefton Manufacturing Corporation, Chicago, Ill. Paper di-play box. 1,616,047; Feb. 1.
- Hoge, Smith A. (See Masters, William T., assignor.)
- Hoge, Smith A., Rices Landing, Pa. Duplex control switch. 1,621,781; Mar. 22.
- Hoge, Smith A., Rices Landing, Pa. Signaling apparatus for motor vehicles. 1,633,252; June 21.
- Hoge, Smith A., Rices Landing, Pa. Jar closure. 1,640,122; Aug. 23.

- Hoge, William, assignor to The General Fireproofing Company, Youngstown, Ohio. Index system for cards and the like. 1,641,483; Sept. 6.
- Hohenstein, Frank and H. H., Rochester, N. Y. Coat collar. 1,638,692; Aug. 9.
- Hohenstein, Henri. (See Hohenstein, Frank and H. H.)
- Hohl, George I. (See Evans, H. L., and Hohl.)
- Hohl, John, Lincoln Park, N. J., and O. J. Maurer, Wilkesburg, Pa. Material-dividing machine. 1,629,917; May 24.
- Hohmann, Joseph P., Flemington, N. J. Display device. 1,630,744; May 31.
- Hohn, Max P. E., Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Müller & Co. Attachment for rod-cigarette machines. 1,614,554; Jan. 18.
- Hoisington, Harry, Davenport, Iowa. Shutter latch for shields. 1,626,827; May 3.
- Hoyer, Wilhelm, Munich, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Steam generator for portable plants. 1,619,671; Mar. 1.
- Hojnowski, Jakob, Nekosoa, Wis. Device for holding the movable jaws of couplers open. 1,633,784; June 28.
- Hojnowski, Jakob, Nekosoa, Wis. Automobile snowplow. 1,635,043; July 5.
- Hojnowski, Jakob, Nekosoa, Wis. Sectional railway tie. 1,646,248; Oct. 18.
- Hokanson, Alfred, Westwood, N. J. Window flashing. 1,636,365; July 19.
- Hokanson, Martin, assignor to Marshall-Wells Company, Duluth, Minn. Shovel and making the same. 1,614,956; Jan. 18.
- Hokanson, Martin, assignor to Marshall-Wells Company, Duluth, Minn. Shovel. 1,644,881; Oct. 11.
- Hokanson, Martin, assignor to Marshall-Wells Company, Duluth, Minn. Shovel handgrip. 1,648,685; Nov. 8.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Power-operated typewriter. 1,614,472; Jan. 18.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Power-operated typewriter. 1,614,473; Jan. 18.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Power-operated back spacer for typewriters. 1,614,474; Jan. 18.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Power-actuated typewriter. 1,614,475; Jan. 18.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Limit stop for shiftable platens. 1,625,607; Apr. 19.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Engagement mechanism for typewriters. 1,625,890; Apr. 26.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Removable platen support. 1,625,891; Apr. 26.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Removable carriage for typewriters. 1,627,390; May 3.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Letter-spacing mechanism for typewriters. 1,629,623; May 24.
- Hokanson, Otto A., and J. F. Koca, assignors to Woodstock Typewriter Company, Woodstock, Ill. Back spacer for typewriters. 1,640,123; Aug. 23.
- Hokanson, Otto A., and James F. Koca, assignors to Woodstock Typewriter Company, Woodstock, Ill. Case-shift mechanism for typewriters. 1,621,726; Mar. 22.
- Hoke, Frank J., assignor to Holcomb and Hoke Manufacturing Company, Indianapolis, Ind. Combined phonograph and musical-instrument cabinet. Des. 73,912; Nov. 22.
- Hoke, Harry A., Altoona, Pa. Oil cup. 1,641,269; Sept. 6.
- Hoke, William E., Baltimore, Md. Apparatus for finishing high-grade gears. 1,630,845; May 31.
- Hokmer, Harry, and L. T. Johnson, Minneapolis, Minn. Clear-vision spindle guard. 1,652,669; Dec. 13.
- Holan, James, Cleveland, Ohio. Heating system. 1,637,341; Aug. 2.
- Holborn, Frederick, Hoboken, assignor to Hazeltine Corporation, Jersey City, N. J. Electron-emitting cathode and preparing the same. 1,625,776; Apr. 19.
- Holborn, Frederick, Hoboken, assignor to Hazeltine Corporation, Jersey City, N. J. Electron-emitting cathode and preparing the same. 1,639,698; Aug. 23.
- Holbrook, David M., Portland, Ore. Incubator-ventilating means. 1,636,634; July 19.
- Holbrook, David M., Portland, Ore. Incubator. 1,652,120; Dec. 6.
- Holbrook, Mary C., Kansas City, Mo. Travel bag. 1,651,706; Dec. 6.
- Holcomb, Charles R., assignor to Holcomb Safety Garment Company, Chicago, Ill. Legging. 1,619,472; Mar. 1.
- Holcomb and Hoke Manufacturing Company. (See Hoke, Frank J., assignor.)
- Holcomb, J. L., Mfg. Co. (See Martin, E. E., and Dietrich, assignors.)
- Holcomb, Lambert H. (See Peterson, T. B., and Holcomb.)
- Holcomb Safety Garment Company. (See Holcomb, Charles R., assignor.)
- Holcombe, Henry H., and W. A. Bartschmid, Marshall, Tex. Hydrocarbon burner. 1,616,124; Feb. 1.
- Holcombe, John R., Columbia, S. C., and F. F. Dunbar, Augusta, Ga. Apparatus for tilting automobiles. 1,633,931; Aug. 16.
- Holcroft, Charles T., Detroit, and C. E. Doll, Mount Clemens, Mich. Firing ceramic and other products. 1,629,922; Mar. 8.
- Holcroft & Company. (See Ruckstahl, Alfred, assignor.)
- Holcroft and Company. (See Ruckstahl, A., and Cadmell, assignors.)
- Holdaphone, Incorporated. (See Hoban, Fairfield W., assignor.)
- Holdaway, William S., Los Angeles, Calif. Disk bit. 1,620,889; Mar. 15.
- Holdeman, Harry R., Inglewood, Calif., assignor to Allied Metal Industries, Inc. Italian-effect lighting-fixture panel. Des. 71,832; Jan. 11.
- Holdeman, Harry R., Inglewood, Calif., assignor to Allied Metal Industries, Inc. Spanish-effect lighting-fixture panel. Des. 71,833; Jan. 11.
- Holdeman, Harry R., assignor to The J. M. Feldman Co., Inc., Los Angeles, Calif. Gothic-effect lighting-fixture ornament. Des. 73,434; Sept. 13.
- Holdeman, Harry R., assignor to The J. M. Feldman Co., Inc., Los Angeles, Calif. Italian-effect lighting-fixture ornament. Des. 73,435; Sept. 13.
- Holdeman, Harry R., assignor to The J. M. Feldman Co., Inc., Los Angeles, Calif. Italian-effect lighting-fixture plate. Des. 73,436; Sept. 13.
- Holdeman, Harry R., assignor to The J. M. Feldman Co., Inc., Los Angeles, Calif. Italian-effect lighting-fixture shield. Des. 73,520; Sept. 27.
- Holdeman, Harry R., assignor to The J. M. Feldman Co., Inc., Los Angeles, Calif. Italian-effect lighting-fixture shield. Des. 73,521; Sept. 27.
- Holdeman, Harry R., assignor to The J. M. Feldman Co., Inc., Los Angeles, Calif. Scroll-effect lighting-fixture ornament. Des. 73,522; Sept. 27.
- Holdeman, Harry R., assignor to The J. M. Feldman Co., Inc., Los Angeles, Calif. Italian-effect lighting-fixture shield. Des. 73,523; Sept. 27.
- Holdeman, Harry R., assignor to The J. N. Feldman Co., Inc., Los Angeles, Calif. Gothic-effect lighting-fixture banding. Des. 73,913; Nov. 22.
- Holden, Arthur P., P. Morgan, and S. R. Williams, Toronto, Ontario, Canada. Oil-free control for oil burners. 1,630,265; May 31.
- Holden Company Limited. (See Gifford, Harrison H., assignor.)
- Holden, Fenn M. (See Schwarze, H., and Holden.)
- Holden, Fenn M., assignor to General Motors Corporation, Detroit, Mich. Yielding motor suspension. 1,630,265; May 31.
- Holden, Frank, Hampstead, London, assignor of one-half to Measurement, Limited, London, England. Electricity meter. 1,653,961; Dec. 27.
- Holden, Harry C., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Puff iron. 1,634,668; July 12.
- Holden, Luman, Manchester, N. H., assignor to W. H. McElwain Company, Boston, Mass. Machine for inserting fastenings. 1,625,363; Apr. 19.
- Holden, Walker. (See Berry, J. L., and Holden.)
- Holden, William H. T. (See Shackelford, B. E., and Holden.)
- Holden, William H. T., New York, N. Y., assignor to Westinghouse Lamp Company. Vaporizing a getter in an evacuated vessel. 1,626,732; May 3.
- Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier amplitude-control system. 1,628,883; May 17.
- Holden, William H. T., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical discharge device. 1,636,054; July 19.
- Holder, William H. (See Evans, C. T., and Holder.)
- Holderie, Carl L. (See Holderie, Frederick W. and C. L.)
- Holderie, Frederick W. and C. L., Rochester, N. Y. Beverage cooling and dispensing apparatus. 1,626,935; May 3.
- Holderman, Samuel J., and R. E. Cryder, Morris, Ill. Student's portable desk. 1,632,476; June 14.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. 1,614,029; Jan. 11.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Shaft coupling. 1,634,499; July 5.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,634,542; July 5.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,634,577; July 5.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,649,900; Nov. 22.
- Holdsworth, Willie, Providence, R. I. Gill screw. 1,635,181; July 12.
- Hole, Sidney, Abourne, Hassocks, England. Receiving apparatus for attachment to house doors, walls, or other parts of buildings. 1,643,639; Sept. 27.
- Holeproof Hosiery Co. (See Evans, H., and Helbrunner, assignors.)

- Holford, Hastings J., Addiscombe, assignor of two-third separating apparatus. 1,616,575; Feb. 8.
- Holford, Hastings J., Addiscombe, assignor of one-half to P. P. Harvey, London, England. Separating water and other impurities from mineral or other oils. 1,635,845; July 12.
- Holheid, Alsbach J., Mobile, Ala. Spring stabilizer. 1,639,944; Aug. 23.
- Holinger, Emil F., assignor to E. Chase Crowley, New York, N. Y. Anticreeping device for railway rails. 1,615,190; Aug. 11.
- Holinger, Emil F., assignor to E. Chase Crowley, New York, N. Y. Anticreeping device for railway rails. 1,638,095; Aug. 9.
- Holinger, Emil F., assignor to E. Chase Crowley, New York, N. Y. Anticreeping device for railway rails. 1,638,096; Aug. 9.
- Holinger, Emil F., assignor of one-half to E. C. Crowley, New York, N. Y. Loud-speaker unit. 1,653,045; Dec. 20.
- Hölsen, Martin, sr., Barmen, Germany. Production of fodder. 1,629,077; May 17.
- Hölsen, Martin, jr., Barmen, Germany. Manufacturing artificial silk. 1,641,585; Sept. 6.
- Holm, Alfred, Offenbach-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs of the anthraquinone series. 1,627,738; May 10.
- Holladay, Anna M., New York, N. Y. Nursing bottle. 1,622,512; Mar. 29.
- Hollafoll, George, Syracuse, N. Y. Scarf holder and former. 1,641,851; Sept. 6.
- Holland, Cyrus J., Chicago, Ill. Friction draft gear. 1,653,098; Dec. 20.
- Holland, Earl R., Mansfield, Tex. Gas heater. 1,629,384; July 17.
- Holland, Frank, Poplar Bluff, Mo. Plotting square. 1,623,117; Apr. 5.
- Holland Furnace Company. (See Kolla, John P., assignor.)
- Holland Furnace Company. (See Nystrom, O. P., and Knall, assignors.)
- Holland Furnace Company. (See Selby, C. M., and Nystrom, assignors.)
- Holland, Harry A., Los Angeles, Calif. Physical-exercising apparatus. 1,646,818; Oct. 25.
- Holland, Joseph B., Baltimore, Md. Reversing gear for locomotives. 1,625,361; Apr. 19.
- Holland-Letz, John, assignor to The Letz Manufacturing Company, Crown Point, Ind. Grinding machine. Re16,713; Aug. 23.
- Holland-Letz, Ludwig, Oak Park, Ill. Gear-changing mechanism. 1,624,244; Apr. 12.
- Holland, Louis E., Kansas City, Mo. Rotary sprinkler. 1,632,229; June 14.
- Holland, Newman H., East Orange, N. J. Phonograph record. 1,643,770; Sept. 27.
- Holland, Ralph, Laramie, Wyo. Liquid-level-controlling means for dry-cleaning systems. 1,637,902; Aug. 2.
- Holland, Roy E. (See Boker, Vitus A., assignor.)
- Holland, St. Clair C., assignor to The Robert Mitchell Company Limited, Montreal, Quebec, Canada. Classification lamp. 1,649,229; Nov. 15.
- Holland, Thomas M., Bakersfield, Calif. Preserving can. 1,653,706; Dec. 27.
- Holland, Walter E., and W. H. Grinditch, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage battery. 1,644,590; Oct. 4.
- Hollander, Aladar, assignor of one-half to Byron Jackson Pump Mfg. Co., Berkeley, and one-half to Peerless Pump Company, Los Angeles, Calif. Head for vertical pumps. 1,614,196; Jan. 11.
- Hollander, Aladar, assignor to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Vertical-shaft floating pump. 1,625,892; Apr. 26.
- Hollander, Aladar, assignor to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Vertical pump mechanism. 1,625,893; Apr. 26.
- Hollander, Aladar, assignor to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Multistage centrifugal pump. 1,628,841; May 17.
- Hollander, Aladar, assignor to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Multistage balanced pump. 1,644,129; Oct. 4.
- Hollander, Aladar, assignor to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Packing-gland mechanism. 1,649,472; Nov. 15.
- Hollander, Charles S., Philadelphia, Pa., assignor to Rohm & Haas Company. Prevention of marking off. 1,650,567; Nov. 22.
- Hollander, Edward, assignor to The Kuy-Scheerer Corporation of America, New York, N. Y. Fluoroscopic protector. 1,636,419; July 19.
- Hollander, Jacob A. (See Chne, A. J., and Hollander.)
- Hollander-Lange, Inc. (See Bean, Leon H., assignor.)
- Holler, William H., jr., Drexel Hill, Pa. Envelope. 1,638,369; June 21.
- Hollas, John W. (See Friedler, L. P., Huntley, and Hollas.)
- Holle, Joseph, Newark, N. J. Valve-actuating mechanism. 1,644,059; Oct. 4.
- Hollenman, Hugh, Smackover, Ark. Gas burner. 1,641,888; Sept. 6.
- Hollenback, Charles T., La Porte, Ind. Measuring and dispensing device. 1,648,481; Nov. 8.
- Hollenback, Joseph F., Canyon Creek, Mont. Cattle guard for railways. 1,634,872; July 5.
- Hollenberg, Ralph W. (See Rabjohn, L. E., and Hollenberg.)
- Holley, Clarence M., Highland Park, Mich., assignor by mesne assignments, to The Hoover Company, North Canton, Ohio. Thermostatically-controlled electric switch. 1,639,655; Aug. 23.
- Holley, Earl. (See Anderson, Walter S., assignor.)
- Holley, Earl. (See Candier, De Forest W., assignor.)
- Holley, Earl. (See Udale, Stanley M., assignor.)
- Holley, George M. (See Anderson, R. M., and Udale, assignors.)
- Holley, George M. (See Taylor, C. H., and Udale, assignors.)
- Holley, George M. (See Udale, Stanley M., assignor.)
- Holley, George M., Detroit, Mich. Intake-manifold heater. 1,613,796; Jan. 11.
- Holley, George M., Detroit, Mich. Carbureting device. 1,641,332; Sept. 6.
- Holley, Joel and S., Florida, Ala. Plow attachment. 1,640,750; Oct. 25.
- Holley, M. C. B., et al. (See Stone, Lester V., assignor.)
- Holley, Simon. (See Holley, Joel and S.)
- Holliday, Albert F., Wigan, England. Variable electric condenser. Variometer, and the like. 1,621,253; Mar. 15.
- Holliday, David, St. Paul, Minn. Road auto signal. 1,647,568; Nov. 1.
- Holliday, J. Margaret, administratrix. (See Holliday, John S.)
- Holliday, John S., deceased, New York, N. Y.; J. M. Holliday, administratrix, assignor to M. H. Loughridge, trustee, Rogota, N. J. System and apparatus for measuring electrical resistance. 1,652,405; Dec. 13.
- Holliday Radio & Manufacturing Company. (See Pihl, Albert, assignor.)
- Holliday, Robert L., assignor to Industrial Spray-Drying Corporation, New York, N. Y. Manufacture of a finely-divided dry soap product. Re16,749; Sept. 27.
- Holliday, Robert L., assignor to Industrial Spray-Drying Corporation, New York, N. Y. Manufacture of a finely-divided dry soap product. 1,621,506; Mar. 22.
- Holling, Frederick C. (See Johnsen, M., and Holling.)
- Hollingshead, Arthur J., North Olmsted, Ohio. Automobile body construction. 1,639,037; Aug. 16.
- Hollingsworth, William F., assignor of one-half to J. H. Blair, San Francisco, Calif. Cable brake. 1,622,785; Aug. 23.
- Hollingworth, Edward, Dobeross, England, assignor to The Crompton and Knowles Loom Works, Worcester, Mass. Loom for weaving chenille Axminster and like carpets, blankets, and other fabrics. 1,631,531; June 7.
- Hollins, Denis M., Blackburn, England, assignor to Draper Corporation, Hopedale, Mass. Bobbin battery for automatic weft-replenishing looms. 1,625,942; Apr. 26.
- Hollins, Denis M., Blackburn, England, assignor to Draper Corporation, Hopedale, Mass. Automatic weft-replenishing loom. 1,628,047; May 10.
- Hollister, Harvey F., Spencer, Iowa. Condenser and cooler. 1,635,549; May 3.
- Hollister, Harvey F., Spencer, Iowa. Condenser and cooler. 1,635,549; July 12.
- Hollister, Solomon C., Swarthmore, assignor to J. H. McClatchy, Philadelphia, Pa. Form work for casing walls and the like. 1,640,997; Aug. 30.
- Holloway, Francis W., and L. C. Harrison, Minneapolis, Minn. Map holder. 1,614,957; Jan. 18.
- Holloway, Harold L., Columbus, Ohio. Toy. 1,614,366; Jan. 11.
- Holloway, John H., La Fayette, Ind. Gaseous-fuel-mixing and holding. 1,652,010; Dec. 6.
- Hollunder, Richard W., White Plains, N. Y. Necktie fastening. 1,628,604; May 10.
- Hollywood Chemical Company. (See Levy, Gaston J., assignor.)
- Holm, Carl, and A. H. Johnson, Worcester, Mass. Labeling machine. 1,622,381; Mar. 29.
- Holm, Harry N. (See Neitzel, O. A., and Holm.)
- Holm, John, Brooklyn, assignor to American Kron Scale Company, New York, N. Y. Recording weighing mechanism. 1,632,006; June 14.
- Holman, Arthur J., Boston, Mass. Optical system for moving-picture projectors. 1,617,596; Feb. 15.
- Holman, Clinton B., and E. L. Ege, Detroit, Mich. Projecting apparatus. 1,644,781; Oct. 11.
- Holman, Edward E., Portland, Ore. Air core transformer. 1,635,996; Aug. 16.
- Holman, Frank L., Minneapolis, assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn. Movable live-fish container. 1,616,125; Feb. 1.
- Holman, Leonard B., et al. (See Burlin, Adolph L., assignor.)
- Holman, Leslie A., Waltham, Mass. Lift magazine for reel-building machines. 1,645,581; Oct. 18.
- Holman Pump Manufacturing Company, The. (See Holman, Stephen W., assignor.)
- Holman, R. C., et al. (See Owens, John G., assignor.)
- Holman, Roger P., Omaha, Nebr. Trash burner. 1,629,162; May 17.

- Holman, Stephen W., Marmarth, N. Dak. assignor to The Holman Pump Manufacturing Company. Propeller pump. 1,619,514; Mar. 1.
- Holman, Virgil L. (See Ralston, Samuel F., assignor.)
- Holmberg, Charles G., Jr., Oak Park, and J. S. Stull, Chicago, Ill. assignors to Western Electric Company, Incorporated, New York, N. Y. Material-working mechanism. 1,629,705; May 24.
- Holmboe, Carl E., assignor of one-half to De Nordiske Fabrikker, De-No-Ea A/S., Oslo, Norway. Cooling arrangement for electrolytic cells. 1,632,184; June 14.
- Holmes, Alfred B., assignor to W. H. Plunkett, Chicago, Ill. Liquid dispenser. 1,618,339; Feb. 22.
- Holmes, Allen T., assignor of one-half to J. D. Holmes, Richmond, Va. Rod clamp. 1,634,422; July 5.
- Holmes, Arthur S., Oshkosh, Wis. Thread-cutting machine. 1,633,897; July 21.
- Holmes, Arthur S., Oshkosh, Wis. Heating coiled material. 1,635,715; July 12.
- Holmes, Arthur W., Veedersburg, D. E. Jaques, Thortown, and H. B. Coats, Veedersburg, Ind. System of feeding poultry and livestock. 1,624,245; Apr. 12.
- Holmes, Benjamin, assignor to Morrell Mills, Inc., Philadelphia, Pa. Textile fabric. Des. 72,259; Mar. 22.
- Holmes, Benjamin, assignor to Morrell Mills, Inc., Philadelphia, Pa. Textile fabric. Des. 72,260; Mar. 22.
- Holmes, Bradford B., New York, N. Y. Air spring. 1,640,806; Aug. 30.
- Holmes, Charles E., Lynn, Mass., assignor to General Electric Company. Meter seal. 1,648,686; Nov. 8.
- Holmes, E. & B., Machinery Co. (See Beugler, Edwin F., assignor.)
- Holmes, Edward C., Cincinnati, Ohio. Holder for drilling mechanism. 1,631,683; June 7.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for looms. 1,633,636; June 28.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Stop for weights of multiple-needle detectors. 1,633,637; June 28.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for weft-replenishing looms. 1,647,731; Nov. 1.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic weft detector for looms. 1,651,123; Nov. 29.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multiple-needle weft detector for looms. 1,651,124; Nov. 29.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Jacquard indicator for box looms. 1,651,125; Nov. 29.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in shuttle. 1,651,602; Dec. 6.
- Holmes, Elbridge R. and W. H. Wakefield, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Tube frame. 1,616,497; Feb. 8.
- Holmes, Frank C. (See Chaffin, H. A., and Holmes.)
- Holmes, Frank C., Houston, Tex. Fire starter. 1,644,882; Oct. 11.
- Holmes, Frank E., assignor to Bloomfield-Holmes Corporation, Pasadena, Calif. Compressor. 1,623,587; Apr. 5.
- Holmes, George A., Naugatuck, Conn. Machine for shoe soles. 1,625,026; Apr. 19.
- Holmes, Harleigh R., Denver, Colo. Power transmission for wheels. 1,619,672; Mar. 1.
- Holmes, Harry A., Aurelia, Iowa. Mechanical movement. 1,623,872; Apr. 5.
- Holmes, Harvey A., Elyria, Ohio. Bee escape. 1,636,635; July 19.
- Holmes, Henry S., New York, assignor to T. E. Murray, Brooklyn, N. Y. Axle housing. 1,615,083; Jan. 18.
- Holmes, Julia D. (See Holmes, Allen B., assignor.)
- Holmes, Loring E., Daytona, Fla. Apparatus for washing cans. 1,651,208; Nov. 29.
- Holmes, Lowell L., Cambridge, Mass. Fountain pen. 1,615,980; Feb. 1.
- Holmes, Minot K., assignor to Hemingray Glass Company, Muncie, Ind. Glassworking machine. 1,642,658; Sept. 13.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. 1,613,106; Jan. 4.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Elevating mechanism. 1,614,030; Jan. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Traction mechanism. 1,614,031; Jan. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,614,032; Jan. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,614,033; Jan. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,614,034; Jan. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,614,035; Jan. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Bearing. 1,624,837; Apr. 12.
- Holmes, Morris P., assignor to Sullivan Machinery Company. Mining apparatus. 1,635,623; July 12.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Rotary fluid-pressure motor. 1,637,568; Aug. 2.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,641,430; Sept. 6.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Sprocket. 1,642,856; Sept. 20.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,645,002; Oct. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,645,003; Oct. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,645,004; Oct. 11.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,646,094; Oct. 25.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,647,118; Oct. 25.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,648,873; Nov. 8.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,648,879; Nov. 8.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,648,880; Nov. 8.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. 1,652,528; Dec. 13.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Coal-mining machine. 1,652,529; Dec. 13.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,654,218; Dec. 27.
- Holmes, Ralph C., assignor to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,623,729; Apr. 5.
- Holmes, Ralph C., New York, N. Y., F. T. Manley, Houston, and O. Behlmer, Port Arthur, Tex., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,646,380; Oct. 18.
- Holmes, Robert E. L., assignor to Westco-Chippewa Pump Company, Davenport, Iowa. Pump. 1,635,736; July 12.
- Holmes, Robert E. L., assignor to Westco-Chippewa Pump Company, Davenport, Iowa. Pump. 1,635,846; July 12.
- Holmes, Robert E. L., assignor to Westco-Chippewa Pump Company, Davenport, Iowa. Pump-operating mechanism. 1,651,330; Nov. 29.
- Holmes, Roy T., Athens, Ga. Composition for killing certain weeds. 1,625,608; Apr. 19.
- Holmes, Stanley B., Seattle, Wash. Carburetor. 1,622,513; Mar. 29.
- Holmes, W. C. and Company. (See Cooper, C., and Henshaw, assignors.)
- Holmes, William H., Mount Vernon, N. Y. Paper-supporting device. 1,652,939; Dec. 13.
- Holmestad, Francis K., et al. (See Atkinson, Howard, assignor.)
- Holmström, Johan G. (See Malmberg, C. J. G., and Holmström.)
- Holmwood, Mason H. (See Dudley, C. J., and Holmwood.)
- Holophane Company. (See Dorey, William A., assignor.)
- Holophane Company. (See Thompson, Willard W., assignor.)
- Holophane Glass Company. (See Dorey, William A., assignor.)
- Holorib, Inc. (See Loucks, James F., assignor.)
- Holshub, John J., Brooklyn, N. Y. Combined reflector and support therefor. Des. 73,914; Nov. 22.
- Holsinger, Lloyd, Faribault, Minn. Air pump. 1,649,530; Nov. 15.
- Holslag, Claude J., South Orange, assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Electric arc welding and cutting system. 1,621,068; Mar. 15.
- Holslag, Claude J., South Orange, assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Electric arc welding and cutting system. 1,621,069; Mar. 15.
- Holslag, Claude J., South Orange, N. J., assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Electric arc welding and cutting system. 1,621,070; Mar. 15.
- Holst, Edwin J., Lake City, Minn. Lubricant-dispensing device. 1,630,846; May 31.
- Holst, Ellis G., Layove, Wyo. Mine-track tie. 1,631,034; May 31.
- Holst, Gilles, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. X-ray tube. 1,643,453; Sept. 27.

- Holst, Gilles, and A. Bouwers, assignors to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, X-ray tube. 1,626,465; Apr. 26.
- Holst, Gilles, and A. Bouwers, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, X-ray tube. 1,632,230; June 14.
- Holst, Gilles, E. Oosterhuis, and J. Bruijnes, assignors to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, Electric gas-filled discharge device. 1,617,684; Feb. 15.
- Holst, Lodewyk J. R., Brookline, assignor to Brock & Weymouth, Incorporated, Philadelphia, Pa. Projection-tracing table. 1,633,253; June 21.
- Holst, Lodewyk J. R., Brookline, assignor to Brock & Weymouth, Incorporated, Philadelphia, Pa. Resultant-light finder. 1,649,406; Nov. 15.
- Holstein, Adolph M., assignor to Syracuse Ornamental Company, Syracuse, N. Y. Clockcase. Des. 71,793; Jan. 4.
- Holstein, John V., assignor to Deere & Company, Moline, Ill. Gang plow. 1,627,902; May 10.
- Holstein, Michael B., Richland, Pa. Signaling attachment for steering wheels. 1,621,408; Mar. 15.
- Holt, Francis A., Elmhurst, N. Y., assignor to National Carbon Company, Inc. Electrical switch mechanism. 1,654,373; Dec. 27.
- Holt, Frank, assignor to Stromberg Motor Devices Company, Chicago, Ill. Making carburetor float cups. 1,617,906; Feb. 15.
- Holt, Frank, assignor to Stromberg Motor Devices Company, Chicago, Ill. Die for making carburetor frames. 1,625,554; Apr. 26.
- Holt, Frank L. (See Stewart, H. A., and Holt.)
- Holt, Harold E., London, England. Parachute apparatus. 1,618,009; Feb. 15.
- Holt, Harold E. S., Farnborough, England. Landing light or flare for attaching to aircraft. 1,624,411; Apr. 12.
- Holt, Harriis B., Dormont, Pa. Instrument for applying resin. 1,642,732; Sept. 12.
- Holt, Herbert, Rockdale, England. Machine for winding yarns or threads. 1,642,924; Sept. 20.
- Holt, Lafayette. (See Horner, E. B., and Holt.)
- Holt, Norris B., St. Louis, Mo. Display device. 1,626,037; Apr. 26.
- Holt, H. Raymond H., Durham, N. C. Fish-dressing counter. 1,617,484; Feb. 15.
- Holt, Royal A. (See Ritchey, P. D., and Holt.)
- Holt, Thomas W., assignor to Curtain Supply Company, Elkhart, Ind. Sash guide. 1,621,507; Mar. 22.
- Holt, Thomas W., assignor to Curtain Supply Company, Elkhart, Ind. Sash guide. 1,621,508; Mar. 22.
- Holt, Thomas W., Elkhart, Ind., assignor, by mesne assignments, to The Adams & Westlake Company, Chicago, Ill. Sash guide. 1,632,548; June 14.
- Holt, Thomas W., Elkhart, Ind., assignor, by mesne assignments, to The Adams & Westlake Company, Chicago, Ill. Sash guide. 1,632,549; June 14.
- Holt, Victor L., Portland, Oreg. Blasting device. 1,616,048; Feb. 1.
- Holt, William, Eldorado, Kans., assignor to P. G. Leonard, West Tulsa, Okla. Rod-pulling device. 1,653,046; Dec. 20.
- Holte, Halvor, special administrator. (See Holte, Harold O.)
- Holte, Harold O., deceased, Pittsburgh, H. Holte, special administrator, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,629,024; May 24.
- Holte, Harold O., deceased, Pittsburgh, Pa.; H. Holte, administrator, Crookston, Minn., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,642,584; Sept. 13.
- Holte, Harold O., deceased, Pittsburgh, H. Holte, special administrator, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-carried receiver for automatic train-control systems. 1,643,377; Sept. 27.
- Holte, Harold O., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,643,340; Sept. 27.
- Holthe, Kristian, and O. Qviller, Oslo, Norway. Sieve plate for screw presses. 1,630,430; May 31.
- Holthaus, Johann, Gelsenkirchen, Germany. Centrifugally molding metals. 1,650,987; Nov. 29.
- Holthaus, Rainsford B. (See Yost, E. B., and Holthaus.)
- Holthouse, Harry B., Chicago, Ill. High-tension circuits. 1,624,951; Apr. 19.
- Holtom, Albert O., Rochester, assignor to H. E. Zimmerman, New York, N. Y. Automobile radiator casing. Des. 72,479; Apr. 19.
- Holtom, Albert O., Rochester, assignor to H. E. Zimmerman, New York, N. Y. Radiator cap. Des. 72,556; May 3.
- Holtom, Frank, Elkhorn, Wis. Tuning slide for musical instruments. 1,622,306; Dec. 13.
- Holtom, Frank & Co. (See Arthur, Paul, assignor.)
- Holtom, George E. (See Hinckley, B. C., Thoman, and Holtom.)
- Holtschneider, Leo, Phoenix, Ariz. Abrading brush. 1,642,857; Sept. 20.
- Holtz, Frederick C., assignor to Sangamo Electric Company, Springfield, Ill. Maximum-demand meter. 1,619,473; Mar. 1.
- Holtz, Frederick C., assignor to Sangamo Electric Company, Springfield, Ill. Pivotal mounting for use in instruments of precision. 1,652,202; Dec. 13.
- Holtz, Karl, assignor to Carl Lindström Aktiengesellschaft, Berlin, Germany. Talking machine. 1,620,257; Mar. 8.
- Holtz, William M., Shelton, Nebr. Fence. 1,632,231; June 14.
- Holtzer-Cabot Electric Company, The. (See Kennedy, Carlton L., assignor.)
- Holtzer-Cabot Electric Co., The. (See Meinema, Thomas G., assignor.)
- Holtzman, John, New York, N. Y. Cleaning device. 1,630,084; May 24.
- Holtzman, John, New York, N. Y. Safety razor. 1,642,338; Sept. 13.
- Holtzman, John, New York, N. Y. Razor-blade holder. 1,647,357; Nov. 1.
- Holtzman, John, New York, N. Y. Cutting mechanism. 1,649,957; Nov. 22.
- Holtzman, John, assignor of one-half to B. Roman, New York, N. Y. Razor-blade-sharpening machine. 1,614,302; Jan. 11.
- Holtzman, Joseph A., Baltimore, Md. Hatbox. 1,637,223; July 26.
- Holtzman, Minard, Bexley, Ohio. Radiatable. 1,620,352; Mar. 8.
- Holub, Charles J., assignor to The W. E. Lameck Company, Columbus, Ohio. Double-wall conductor pipe. 1,652,827; Dec. 13.
- Holyc, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resilient driving connection. 1,619,345; Mar. 1.
- Holyoke Heater Company. (See Sinclair, Peter S., assignor.)
- Holysz, Roman P., Chicago, Ill. Skylight. 1,651,391; Dec. 27.
- Holzapel, Eduard. (See Nawiasky, P., Braunsdorf, and Holzapel.)
- Holzapel, John A., Jackson, Mich. Anchor. 1,613,107; Jan. 4.
- Holzappel, Johannes, Pasing, near Munich, Germany, assignor to A. G. Brown, Boveri & Cie., Baden, Switzerland. Catenary suspension system. 1,653,855; Dec. 27.
- Holzheuer, William F., Hale, Mich. Extraction process and apparatus. Re16,739; Sept. 20.
- Holzmann, Paul, Essen, Germany. Device for emptying garbage bins into garbage-collecting receptacles or carrying-off cars in dustproof manner. 1,647,829; Nov. 1.
- Holzverkohlungs-Industrie Aktien-Gesellschaft. (See Krause, B., and Roka, assignors.)
- Holzverkohlungsindustrie Aktiengesellschaft. (See Von Hochstetter, Heinrich, assignor.)
- Holzverkohlungs-Industrie, A. G. (See von Retze, Ewald, assignor.)
- Holzwarth, Gas Turbine Co. (See Hofmann, Friedrich, assignor.)
- Homan, Dominique A. (See Childs, George A., assignor.)
- Homan, John G., Steubenville, Ohio. Device for retaining hernial supporting pads in place. Re16,792; Nov. 22.
- Homan, Louis J., Jr., Cincinnati, Ohio. Tracing tool. 1,643,302; Sept. 27.
- Homan, Thomas W., Cincinnati, Ohio. Scalp-patting device. 1,634,873; July 5.
- Homan, Walter A., assignor to The Bronco Buster Pipe Company, Denver, Colo. Pipe. 1,627,605; May 10.
- Homan, Walter A., and C. T. Austin, Denver, Colo. Parking meter. 1,620,098; Mar. 8.
- Homan, William C., Meriden, Conn., assignor, by mesne assignments, to Wilcox Patents Corporation, Peckskill, N. Y. Liquid-fuel burner. Re16,794; Nov. 22.
- Homans, Thomas S., assignor to Intertype Corporation, Brooklyn, N. Y. Assembler-slide adjustment for line-casting machines. 1,645,547; Nov. 8.
- Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Magazine mounting for typographical machines. 1,650,448; Nov. 22.
- Homburg, Felix, Barmen, Germany, assignor to American Nuplex Corporation, New York, N. Y. Treatment of horn or the like. 1,636,818; July 26.
- Homand Mfg. Co., The. (See Matthai, William H., assignor.)
- Homo-O-Lite Co. (See Huck, T., and Meaney, assignors.)
- Homer Furnace Company. (See Hyatt, Charles D., assignor.)
- Homer, Joseph, New York, N. Y. Dental relator. 1,622,910; Mar. 29.
- Homer, Nettie M., Brooklyn, N. Y. Steaming device. 1,653,569; Dec. 20.
- Homestead Valve Manufacturing Company. (See Trinks, Willibald, assignor.)
- Hommel, Leon, Oakland, Calif. Furring and fastening device. 1,635,853; Aug. 15.
- Hommel, Oscar, Pittsburgh, Pa. Glass decorating. 1,642,441; Sept. 13.
- Homyer, Nicholas R. and W. M., Granite City, Ill. Glare deflector for headlights. 1,625,660; Apr. 19.
- Homyer, William M. (See Homyer, Nicholas R. and W. M.)
- Homburg, Frank S., Los Angeles, Calif. Protected concrete pile and making same. 1,629,103; May 17.
- Honey, Albert H., Los Angeles, Calif. Make-up frame for X-ray photography. 1,629,104; May 17.
- Honig, Frank. (See Lee, J. H., and Honig.)

- Honig, Frank, Oak Park, assignor to Cyclo Corporation, Chicago, Ill. Mechanism for and method of coiling wire or the like. 1,624,000; Apr. 12.
- Honig, Frank, Oak Park, assignor to Cyclo Corporation, Chicago, Ill. Spooling mechanism and method. 1,627,239; May 3.
- Honig, Frank, Oak Park, assignor to Cyclo Corporation, Chicago, Ill. Die for wire drawing, etc. 1,637,109; July 26.
- Honig, Frank, Oak Park, assignor to Cyclo Corporation, Chicago, Ill. Manufacturing dies. 1,637,111; July 26.
- Honig, Frank, Oak Park, assignor to Cyclo Corporation, Chicago, Ill. Wire-drawing and take-up method. 1,633,461; Dec. 2.
- Honigsbaum, Harry H., Richmond Hill, N. Y. Retainer. 1,616,957; Feb. 8.
- Honigsbaum, Harry H., Richmond Hill, N. Y. Shingle. 1,646,963; Oct. 25.
- Honigsbaum, Harry H., Richmond Hill, N. Y. Retainer. 1,651,392; Dec. 6.
- Honigsbaum, Harry H., New York, N. Y. Container. 1,649,591; Nov. 15.
- Honigsmann, Ludwig, B. Tolz, and F. Bartling, Munich, Germany. Furnace for the heat treatment of pulverulent granules or pulpy material. 1,634,027; June 28.
- Honigsmann, Ludwig, Biechlerhof, Bad Tolz, and F. Bartling, Munich, Germany. Distillation and coking of carbonaceous materials. 1,640,502; Aug. 30.
- Honkanen, Oney A., Portland, Oreg. Propeller. 1,632,292; June 14.
- Honk, Ernest J., Sleepy Eye, Minn. Operating track drills. 1,634,943; July 5.
- Honold, Gottlob F., assignor to Honold Manufacturing Company, Sheboygan, Wis. Fifth wheel. 1,613,828; Jan. 11.
- Honold, Gottlob F., assignor to Honold Manufacturing Company, Sheboygan, Wis. Wheel. 1,613,829; Jan. 11.
- Honold, Gottlob F., Sheboygan, Wis., assignor to The Globe Company. Wheel and crank. 1,619,024; Mar. 1.
- Honold, Gottlob F., and F. Leicht, assignors to Honold Manufacturing Company, Sheboygan, Wis. Roller bearing. 1,617,907; Feb. 15.
- Honold Manufacturing Company. (See Honold, Gottlob F., assignor.)
- Honold Manufacturing Company. (See Honold, G. F., and Leicht, assignors.)
- Honor, John, assignor of one-half to B. Watzman, Southwest, Pa. Crossing gate. 1,627,370; Mar. 15.
- Honti, Nandor, New York, N. Y. Amusement device. 1,614,923; Jan. 18.
- Höntsche, Walter, Niedersiedlitz, near Dresden, Germany. Steam superheater of low-pressure sectional boilers. 1,636,250; July 19.
- Hood, Harry M., assignor to Rex Products Co., Inc., Los Angeles, Calif. Cream depositor for hand-roll centers for candies. 1,622,115; Mar. 22.
- Hooben, James A., Taunton, Mass. Tool. 1,627,435; May 3.
- Hoobler, George B., Norwood, Ohio. Fixture hanger. 1,639,432; Aug. 16.
- Hood, Charles E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning device. 1,638,932; Aug. 16.
- Hood, Harry M., Chicago, Ill., assignor to Featheredge Rubber Company, Inc. Utilizing flexible molds for producing sponge-rubber articles. 1,628,979; May 17.
- Hood, Homer T. (See Robertshaw, G. A., and Hood.)
- Hood, James B., Forest Hills, N. Y. Screw locking and unlocking device. 1,641,489; Sept. 6.
- Hood, John L., Barrington, R. I. Pufferproof box. 1,618,340; Feb. 22.
- Hood, Lawrence E., Nutter Fort, W. Va. Burner-tip cleaner. 1,614,888; Jan. 18.
- Hood, Margaret M., Jonestown, Miss. Folding crib. 1,630,941; May 31.
- Hood Rubber Company. (See Hands, Howard A., assignor.)
- Hood Rubber Company. (See Perrault, Joseph B., assignor.)
- Hood, Samuel B., Minneapolis, Minn., assignor to Line Material Company, South Milwaukee, Wis. Circuit making and breaking device. 1,653,283; Dec. 20.
- Hood, William L., Lexington, Mass. Flour and shortening blender. 1,651,276; Nov. 29.
- Hooley, Edwin D., Minneapolis, Minn. Bathroom for cage birds. 1,616,223; Feb. 1.
- Hoof, Addison C., Hinsdale, Ill., assignor to General Electric Company, Blank for gears and making the same. 1,638,012; Aug. 9.
- Hoofnagle, William T., Glen Ridge, N. J. Cotton-picking machine. 1,636,132; July 19.
- Hook, Arley U., New Washington, Ohio. Electric thermostatic switch. 1,622,721; Mar. 20.
- Hook, Arthur S., Oak Park, assignor to Calumet Steel Company, Chicago, Ill. Fence post. 1,639,638; Aug. 16.
- Hooker Electrochemical Company. (See Rowland, Jasper M., assignor.)
- Hooker Electrochemical Company. (See Stuart, Kenneth E., assignor.)
- Hooker, James E., Coral Gables, Fla. Shingle. 1,637,306; July 26.
- Hookless Fastener Company. (See Sundback, Gideon, assignor.)
- Hooks, Bess, Thomas, Okla. Transplanting device. 1,638,693; Aug. 9.
- Hoos, Floyd L. (See Hooks, Kirk S. and F. L.)
- Hooks, Kirk S. and F. L., Paducah, Ky. Rerailing frog. 1,614,985; Jan. 18.
- Hooks, William N., Norwich, Conn. Piston-ring remover. 1,616,621; Feb. 8.
- Hooley, John W., Larchmont, N. Y. Electric-appliance support and connection. 1,647,002; Oct. 25.
- Hooper, Harold L. (See Hunter, F. B., and Hooper.)
- Hooper, Henry Y., Montclair, N. J. Crank-case repair arm. 1,635,847; July 12.
- Hooper, James E., Ruxton, assignor to William E. Hooper & Sons Company, Baltimore, Md. Filter cloth. 1,617,597; Feb. 15.
- Hooper, James E., Ruxton, assignor to William E. Hooper & Sons Company, Baltimore, Md. Wrapping machine. 1,654,258; Dec. 27.
- Hooper, John E., Milford, Mass. Shoe rack. 1,623,244; Apr. 5.
- Hooper, John S., Wilkensburg, Pa. Battery filler. 1,624,890; Apr. 12.
- Hooper, Lester B., Columbus, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Chip deflector for skiving machines. 1,638,933; Aug. 16.
- Hooper, William E., & Sons Company. (See Hooper, James E., assignor.)
- Hooper, William E., & Sons Company. (See Hooper, James P., assignor.)
- Hoopes, Penrose R., Hartford, assignor to The New England Enameling Company, Inc., Middletown, Conn. Dispensing-machine case. Des. 73,228; Aug. 9.
- Hoopes, Hurlin A., Cody Wyo. Display rack for face powders. 1,628,146; May 10.
- Hoos, Nannie F., et al. (See Gallagher, George D., assignor.)
- Hoos, Willem, Wassenaar, assignor to Naamloze Venootschap Vereenigde Touwfabrieken, Rotterdam, Netherlands. Spoolless twine ball, cross-wound bobbin, or the like. 1,628,244; May 10.
- Hooser, Charles E., Indianapolis, Ind. Lubricating system. 1,652,121; Dec. 6.
- Hoosier, Everett W., Brookline, Mass. Cloth-cutting machine. 1,644,334; Oct. 4.
- Hooton, Gordon B., Grand Rapids, Mich. Oil-purifying system. 1,623,728; Apr. 5.
- Hooven & Allison Company, The. (See Berry, William A., assignor.)
- Hooven, Owens, Rentschler Company, The. (See Greger, John E., assignor.)
- Hooven, Owens, Rentschler Company, The. (See Stuntz, John E., assignor.)
- Hooven, Owens, Rentschler Company, The. (See Theile, George L., assignor.)
- Hoovens, Amasa G., Goshen, Ind. Lightning rod. 1,616,801; Feb. 8.
- Hoovens, Amasa G., Goshen, Ind. Lightning-rod support. 1,649,697; Nov. 15.
- Hoover, Benjamin J., Okolona, Miss. Railway tie remover. 1,627,094; May 3.
- Hoover, Cecil E., Marshfield, Wis. Automatic engine stop. 1,614,904; Feb. 8.
- Hoover Company, The. (See Bailey, William F., assignor.)
- Hoover Company, The. (See Curry, Gordon C., assignor.)
- Hoover Company, The. (See Dondon, Gertrude G., assignor.)
- Hoover Company, The. (See Ewing, F. K., and Cummings, assignors.)
- Hoover Company, The. (See Holley, Clarence M., assignor.)
- Hoover Company, The. (See Hoover, Howard E., assignor.)
- Hoover Company, The. (See Leahy, William P., assignor.)
- Hoover Company, The. (See Nulsen, Marvin E., assignor.)
- Hoover Company, The. (See Oswald, Earl P., assignor.)
- Hoover Company, The. (See White, Harry B., assignor.)
- Hoover, Edward A., Bradley, and W. C. Kirchner, Kan-kakee, Ill. Miter box. 1,633,409; June 21.
- Hoover, Elbert C. and I. C., Washington, D. C. Racket case. 1,629,105; May 17.
- Hoover, Elbert C., Chicago, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction sweeper. Re16,585; Apr. 5.
- Hoover, Howard E., Chicago, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction cleaner. 1,624,246; Apr. 12.
- Hoover, Howard E., Glencoe, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction sweeper. Re16,763; Oct. 4.
- Hoover, Howard E., Glencoe, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction cleaner. 1,624,247; Apr. 12.
- Hoover, Irwin C. (See Hoover, Elbert C. and I. C.)
- Hoover, Jay F., Buffalo, N. Y. Lingular bar. 1,615,191; Jan. 18.
- Hoover, Sidney L., assignor of one-half to H. F. Miller, St. Louis, Mo. Insectifuge. 1,619,258; Mar. 1.
- Hoover, William C., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn. Tire. Des. 73,289; Aug. 23.
- Hoover, William C., R. D. Fritz, and E. F. Cahill, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Grinding and separating apparatus. 1,626,466; Apr. 26.

- Hope, Alfred, New York, N. Y. Egg holder. 1,622,143; Mar. 22.
- Hope, Edward, Oxford, England, assignor to F. W. Attnck, Kingston, Ontario, Canada. Manufacture of glass or glass-like objects. 1,644,131; Oct. 4.
- Hope, Ernest. (See Woodcock, R. B. and Ilope.)
- Hope, Frederick T., assignor of one-fourth to G. A. Meagher, Seattle, Wash. Draft regulator. 1,628,980; May 17.
- Hope Machine Company. (See Kinsley, L., and Moss, assignors.)
- Hope, Samuel N., assignor to The Campfire Company, Milwaukee, Wis. Display device. 1,642,497; Sept. 13.
- Hopedale Manufacturing Company. (See Draper, Clare H., assignor.)
- Hopedale Manufacturing Company. (See Dunaway, Clarence, assignor.)
- Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
- Hopedale Manufacturing Company. (See O'Connell, John J., assignor.)
- Höper, Karl. (See Wolters, O., and Höper.)
- Howell Brothers. (See Wolfard, Merl R., assignor.)
- Howell, Charles, Ottawa, Ontario, Canada. Device for holding collapsible tubes. 1,638,158; Aug. 9.
- Howell, Lester H., Brooklyn, N. Y. Apparatus for preventing grade-crossing accidents. 1,651,955; Dec. 5.
- Hopf, A., Rudolf, assignor to Averi Mfg. Co., New York, N. Y. Doll head. 1,627,511; May 8.
- Hopf, Wilhelm, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Garden, Germany. Water tube boiler. 1,614,839; Jan. 18.
- Hopfe, Lewis D., Napa, Calif., assignor to Taylor-Wharton Iron & Steel Company, High Bridge, N. J. Dredge tumbler. 1,632,602; June 14.
- Hopfinger, Arno H., Carlstadt, N. J. Circuit closer. 1,638,439; Aug. 9.
- Hopkins, Alfred, Allston, assignor to Hopkins Manufacturing Co., Boston, Mass. Pressing arm. 1,622,195; Mar. 22.
- Hopkins, Arthur C., Niles, Mich. Braiding carrier. 1,631,634; June 7.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Tire-head reinforcing element. 1,622,192; Jan. 4.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Braiding machine. 1,636,659; July 19.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Braiding machine. 1,636,660; July 19.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Tire spreader. 1,638,997; Aug. 16.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Making spools. 1,645,701; Oct. 18.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Lifting jack. 1,652,408; Dec. 13.
- Hopkins, Arthur C., Compton, Calif., assignor to U. S. Tool Co. Cushion joint for rotary drill pipes. 1,619,728; Mar. 1.
- Hopkins, Benjamin F., Cleveland Heights, assignor to The Cleveland Graphite and Bronze Company, Cleveland, Ohio. Spring manufacture. 1,650,941; Nov. 29.
- Hopkins, Charles E., deceased, Plainfield, N. J.; The Plainfield Trust Company, administrator. Machine for finishing curved stereotype plates. 1,652,717; Dec. 13.
- Hopkins, Charles L., River Forest, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical-fixture-supporting device. 1,646,482; Oct. 25.
- Hopkins, Charles L., River Forest, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch mechanism. 1,646,964; Oct. 25.
- Hopkins Corporation. (See Hopkins, Marcus C., assignor.)
- Hopkins, Ellis W., Oberlin, Kans. Corn nubbner. 1,621,928; Mar. 22.
- Hopkins, Elmer. (See Hover, Loren, assignor.)
- Hopkins, Frank H., Arlington, Mass., assignor to American & Eudenberg Corporation, Brooklyn, N. Y. Spring steel for spring-loaded valves. 1,648,124; Nov. 8.
- Hopkins, Harry A., Taft, Calif. Apparatus for treating crude oils. 1,621,782; Mar. 22.
- Hopkins, Homer S. (See Conklin, W. F., Hopkins, and Hover.)
- Hopkins, James L., trustee. (See Peebles, Frank W. L., assignor.)
- Hopkins, Leonard S. R., New York, and H. L. Corthell, Bronxville, assignors to Bacterial Sewage Purification Company, New York, N. Y. Bacterial sewage tank. 1,622,646; Mar. 22.
- Hopkins Manufacturing Company. (See Hopkins, Alfred, assignor.)
- Hopkins, Marcus C., Washington, D. C., assignor to Hopkins Corporation, Jersey City, N. J. Loud speaker. Des. 72,261; Mar. 22.
- Hopkins, Marcus C., Washington, D. C., assignor to Hopkins Corporation, Jersey City, N. J. Loud speaker. Des. 72,262; Mar. 22.
- Hopkins, Marcus C., Washington, D. C., assignor to Hopkins Corporation, Jersey City, N. J. Loud speaker. Des. 72,428; Apr. 12.
- Hopkins, Marcus C., Brooklyn, N. Y., assignor to Hopkins Corporation. Cone-type loud speaker. 1,630,008; May 24.
- Hopkins, Marcus C., Brooklyn, N. Y., assignor to Hopkins Corporation. Translating device. 1,630,009; May 24.
- Hopkins, Marcus C., Brooklyn, N. Y., assignor to Hopkins Corporation. Electrical translating device. 1,630,010; May 24.
- Hopkins, Marcus C., Brooklyn, N. Y., assignor to Hopkins Corporation. Loud speaker. 1,630,011; May 24.
- Hopkins, Matthew S., Reading, and N. Underwood, Swarthmore, assignors to Charles Eneu Johnson and Company, Philadelphia, Pa. Ink and making the same. 1,621,541; Mar. 22.
- Hopkins, Matthew S., Reading, and N. Underwood, Swarthmore, assignors to Charles Eneu Johnson and Company, Philadelphia, Pa. Intaglio ink. 1,621,542; Mar. 22.
- Hopkins, Matthew S., Reading, and N. Underwood, Swarthmore, assignors to Charles Eneu Johnson and Company, Philadelphia, Pa. Printing ink. 1,621,543; Mar. 22.
- Hopkins, Nathan F., Rockland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lock-stitch sewing machine. 1,616,049; Feb. 1.
- Hopkins, Nevil M., New York, N. Y., assignor to National Carbon Company, Inc. Electrical apparatus and core therefor. 1,623,345; Apr. 5.
- Hopkins, Nevil M., New York, N. Y., assignor, by mesne assignments, to Gilmont Products Corporation. Article of manufacture comprising container and contents therefor. 1,639,699; Aug. 23.
- Hopkins, Raymond R. (See Hamilton, M. E., and Hopkins.)
- Hopkins, Robert C., Alliance, Ohio. Liquid-fuel burner. 1,650,627; Nov. 29.
- Hopkins, Roy S., Parkersburg, W. Va. Automatically-focusing camera. 1,623,538; Apr. 5.
- Hopkins Spray Equipment Company. (See Tittmeyer, F. A., and Renwick, assignors.)
- Hopkinson, Ernest, New York, N. Y. Vulcanizing mold. 1,634,106; June 28.
- Hopkinson, Ernest, and J. P. Coe, New York, N. Y.; said Coe assignor of his right to Morgan & Wright. Tire for motor vehicles. 1,652,670; Dec. 13.
- Hopkinson, Ernest, New York, and W. A. Gibbins, Little Neck, N. Y., said Gibbins assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating rubber latex. 1,632,759; June 14.
- Hopkinson, Ernest, New York, and J. W. Steine, Flushing, N. Y.; said Steine assignor to The Hartford Rubber Works Company, Hartford, Conn. Manufacturing tires for motor vehicles. 1,625,122; Apr. 19.
- Hopkinson, Joseph, assignor to Dayton Scale Company, Dayton, Ohio. Scale. 1,626,828; May 3.
- Hopkinson, Joseph, assignor to Dayton Scale Company, Dayton, Ohio. Weighing scale. 1,645,326; Oct. 11.
- Hopkinson, Joseph, assignor to Dayton Scale Company, Dayton, Ohio. Weighing scale. 1,645,328; Oct. 11.
- Hoppe, Boris B., assignor to O. I. Hoppe, Kew Gardens, N. Y. Clasp. 1,616,694; Feb. 8.
- Hoppe, Olga I. (See Hoppe, Boris B., assignor.)
- Hoppenjans, Bernard J., assignor to Pauly Jail Building Company, St. Louis, Mo. Jail-door-operating mechanism. 1,617,950; Feb. 8.
- Hopper, Samuel E., Crafton, Pa. Boiler stand. 1,635,415; July 12.
- Hopson, Clifford P., Bakersfield, Calif. Eyeglass-glare shield. 1,647,626; Nov. 1.
- Hopson, Edward H. (See Buffington, G. L., and Hopson.)
- Hopson, Edwin S., Russellville, Ky. Barrel cover. 1,649,032; Nov. 15.
- Hopwood, Charles A., St. Louis County, Mo. Double-cutting-edge golf sickle or scythe. 1,638,807; Aug. 9.
- Hopwood, John M. (See Hall, Ralph E., assignor.)
- Hopwood, John M. (See Peebles, Thomas A., assignor.)
- Horacek, Paul, Germantown, Pa. Bookmark. 1,646,291; Oct. 16.
- Horak, Frank, Valparaiso, Ind. Padlock. 1,616,449; Feb. 8.
- Horelek, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer bushing support. 1,641,270; Sept. 6.
- Horelek, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer tap changer. 1,641,271; Sept. 6.
- Horelek, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer winding. 1,641,272; Sept. 6.
- Horgan, Patrick J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. 1,629,870; May 24.
- Horiata, Kenji, White Plains, N. Y. Window cleaner. 1,644,642; Oct. 4.
- Hori, Shinjiro, Tokyo, Japan. Stencil sheet. 1,645,141; Oct. 11.
- Horie, Lawrence C. F., Newark, N. J., assignor to Federal Telephone Manufacturing Corporation, Buffalo, N. Y. Vacuum-tube voltmeter. 1,622,786; Mar. 29.
- Horn & Brannen Manufacturing Co., The. (See Horn, Herman, Jr., assignor.)
- Horn & Brannen Manufacturing Co. Inc., The. (See Frerichs, Frederick A., assignor.)
- Horn, Earl M. (See Dunlap, J. E., and Horn.)
- Horn, Elfre M., Fallsdale, Colo. Arm sling. 1,621,323; Mar. 15.

- Horn, Ernst, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Verwerker, Siemensstadt, near Berlin, Germany. Telephone system. 1,615,206; Jan. 18.
- Horn, Heinrich, Freital-Doblen, near Dresden, Germany. Apparatus for comminuting pasty and liquid materials. 1,617,520; Feb. 15.
- Horn, Heinrich, Dresden, Germany. Manufacture of cocoa, chocolate, and the like. 1,621,409; Mar. 15.
- Horn, Herman, Jr., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Floor lamp. 1,619,976; Mar. 8.
- Horn, Leonhard, assignor to Maschinenfabrik Augsburg Nuernberg Aktiengesellschaft, Augsburg, Germany. Starting and stopping device for offset printing machines. 1,617,713; Feb. 15.
- Horn, Max, assignor to Thayer-Lloyd Corporation, Providence, R. I. Jewelry-display stand. 1,615,275; Jan. 25.
- Horn, Pleasant W. (See Patrick, N. M., and Horn.)
- Horn, William G. (See Austin, B. O., and Horn.)
- Horn, William G., Wilkesburg, Pa. Assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,647,293; Nov. 1.
- Hornaday, Charles W., Sidney, Neb. Sanitary bottle carrier for milk bottles. 1,629,871; May 24.
- Hornauer, Willy, Neukolln, assignor to Telegraphie-Gesellschaft mit beschränkter Haftung System Stille, Berlin, Germany. Controlling device for electromagnetic talking machines. 1,638,998; Aug. 16.
- Hornauer, Willy, Neukolln, assignor to Telegraphie-Gesellschaft mit beschränkter Haftung System Stille, Berlin, Germany. Apparatus for electromagnetic talking machines. 1,638,999; Aug. 16.
- Hornbostel, Henry, and W. J. Strassburg, Pittsburgh, Pa. Storage building. 1,637,110; July 26.
- Hornbuckle, William P., and B. F. Craig, Stanley, N. C. Harper attachment. 1,626,829; May 3.
- Hornby, Frank, Liverpool, England, assignor to Meccano Company, Inc., Elizabeth, N. J. Curved channel section. 1,614,958; Jan. 18.
- Hornby, Frank, Liverpool, England, assignor to Meccano Company, Inc., Elizabeth, N. J. Circular girder. 1,619,298; Mar. 1.
- Horne, Albert J., Park Ridge, Ill., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,648,945; Nov. 15.
- Horne, Carl, et al. (See Davis, Paul, assignor.)
- Horne, J. S., et al. (See Davis, Paul, assignor.)
- Horne, James A., Estes Park, Colo. Reading lamp. 1,648,125; Nov. 8.
- Horne, John P., Portland, Me. Apparatus for straining milk. 1,650,214; Nov. 22.
- Hornecker, George, Elmhurst, assignor by mesne assignments to Conwell Graphic Company, Incorporated, New York, N. Y. Advertising device. 1,653,707; Dec. 27.
- Horner, Earl B., and L. Holt, Burlington, N. C. Machine for treating road-building material. 1,632,969; June 21.
- Horner, Glenn M., Minneapolis, Kans. Gate. 1,624,169; Apr. 12.
- Horner, Marie L., and M. M., New Orleans, La. Favor. 1,631,205; June 7.
- Horner, Marie M. (See Horner, Marie L. and M. M.)
- Horney, Odus C., U. S. Army, Philadelphia, Pa. Primer for cartridges. 1,619,867; Mar. 8.
- Horni, Paul P., Newark, N. J. Closure. 1,623,477; Apr. 5.
- Horning, Frederick H., Toledo, Ohio. Phonograph. 1,646,148; Oct. 18.
- Horning, Harry L., Waukesha, Wis. Preventing detonation and increasing variations in spark timing. 1,652,122; Dec. 6.
- Horning, Harry L., assignor to Waukesha Motor Company, Waukesha, Wis. Manifest construction. Re16,781; Nov. 1.
- Horning, Harry L., J. B. Fisher, and A. W. Pope, Jr., assignors to Waukesha Motor Company, Waukesha, Wis. Heater. 1,638,581; Aug. 9.
- Hornquist, Frank, Mount Jewett, Pa. Safety shoe for railway trucks. 1,626,610; May 3.
- Hornquist, Frank, Mount Jewett, Pa. Child's conveyance guard. 1,647,990; Dec. 26.
- Hornung, Ernest W., Cleveland, Ohio. Frame for automobile curtain windows. 1,618,709; Feb. 22.
- Horowitz, Albert, New York, N. Y. Container for confectons. 1,646,534; Oct. 25.
- Horowitz, Harry, New York, N. Y. Making substitute for leather. 1,654,082; Dec. 27.
- Horowitz, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Lighting-fixture part or analogous article. Des. 73,568; Oct. 4.
- Horowitz, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Lighting-fixture backplate or analogous article. Des. 73,569; Oct. 4.
- Horowitz, Leon J., Brooklyn, assignor to The Standard Metal Spinning Co., New York, N. Y. Bracket back for lighting fixtures. Des. 72,014; Feb. 15.
- Horowitz, Samuel, New York, N. Y. Display device for dippers. 1,635,673; July 15.
- Horowitz, Samuel, Philadelphia, Pa. Automobile bumper. 1,647,627; Nov. 1.
- Horsburgh, John H., Cleveland, Ohio. Wrench. 1,628,842; May 17.
- Horsburgh, John H., Cleveland, Ohio. Identification mechanism. 1,644,132; Oct. 4.
- Horsfield, Walter R., Selly Oak, Birmingham, assignor to Morland and Impey, Limited, Northfield, Birmingham, England. Loose-leaf book or binder. 1,621,788; Mar. 22.
- Horsman, E. I., Co. Inc. (See Goldenberg, Benjamin, assignor.)
- Horspool, Francis L., and S. C. Rasmussen, Salt Lake City, Utah, assignors, by mesne assignments, of two-thirds to said Horspool and one-third to said Rasmussen. Game of skill. 1,650,215; Nov. 22.
- Horst, Milton F., Los Angeles, Calif. Continuous automatic concrete mixer. 1,626,830; May 3.
- Horst, Phares S., Ephrata, Pa. Nut bowl. Des. 74,055; Dec. 15.
- Hort, Wilhelm, Charlottenburg, Germany, assignor to General Electric Company. Fatigue testing of material. 1,635,787; July 12.
- Horten, Alphons, Berlin-Wilmersdorf, Germany. Apparatus for forming concrete pipes. 1,623,539; Apr. 6.
- Horten, Alphons, Berlin-Wilmersdorf, Germany. Device for the production of concrete pipes and especially for devices for applying the concrete. 1,625,123; Apr. 19.
- Horten, Alphons, Berlin-Wilmersdorf, Germany. Method of and apparatus for manufacturing concrete pipes. Dec. 15.
- Horter, Bayard M., Kingston, Pa., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for Power-driven pumps. 1,622,514; Mar. 29.
- Horter, Bayard M., Kingston, Pa., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for Power-driven pumps. 1,633,780; June 28.
- Horton, Albert J. (See Sheffield, W. K., and Horton.)
- Horton, Allen A., Plymouth, Mich., assignor to Burroughs Adding Machine Company. Retarding device. 1,619,574; Mar. 1.
- Horton, Bryson D., assignor to Square D Company, Detroit, Mich. Service switch and appurtenant protective fitting. 1,628,406; May 10.
- Horton, Charles, Ridgfield Park, N. J., assignor to The Pilot Electric Manufacturing Company, Inc., Brooklyn, N. Y. Resistance element. 1,646,535; Oct. 25.
- Horton, Daniel T., assignor to The Thyogen Company, East Cleveland, Ohio. Powder-applying device for medicinal purposes. 1,628,843; May 17.
- Horton, Dock G., Birmingham, assignor of one-half to S. P. Orr, Bessemer, Ala. Metal reed for wind instruments. 1,616,748; Feb. 8.
- Horton, Edwin, Brooklyn, N. Y. Pin fastener. 1,632,338; June 14.
- Horton, George T., Chicago, Ill. Gas holder. 1,621,929; Mar. 22.
- Horton, George T., Chicago, Ill. Gas holder. 1,621,984; Mar. 22.
- Horton, George T., Chicago, Ill. Container. 1,622,787; Mar. 29.
- Horton, George T., Chicago, Ill. Gas holder. 1,651,892; Dec. 6.
- Horton, George W., Queens Village, assignor to J. W. Bunker, New York, N. Y. Musical instrument. 1,636,133; July 19.
- Horton, James A., Worcester, Mass. Wire-drawing machine. 1,645,052; Oct. 11.
- Horton, John S., Milford, Del. Crate. 1,636,607; July 19.
- Horton, Joseph W., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillator generator with automatic frequency control. 1,616,622; Feb. 8.
- Horton, Joseph W., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Secret communication. 1,624,601; Apr. 12.
- Horton, Joseph W., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave signaling system. 1,636,134; July 19.
- Horton, Joseph W., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave modulation. 1,639,000; Aug. 16.
- Horton, Joseph W., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Communication system. 1,641,431; Sept. 6.
- Horton, Joseph W., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission of pictures by electricity. 1,654,374; Dec. 27.
- Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. 1,624,412; Apr. 12.
- Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitting signals. 1,638,550; Aug. 9.
- Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Frequent meter. 1,641,973; Sept. 13.
- Horton, Ralph, New York, N. Y. Milk-transfer system. 1,623,313; Apr. 5.
- Horton, Robert W. (See Hawes, A. B., Horton, and Mayo.)
- Horton, Spencer, Birmingham, England. Valve for automatic sprinkler apparatus for fire extinguishing. 1,614,002; Jan. 11.
- Horton, Thomas A., Kingston, N. Y. Cigar machine. 1,629,163; May 17.
- Horton, Arthur, Baltimore, Md. Wedding ring. Des. 71,834; Jan. 11.

- Horvat, Anton, Baltimore, Md. Wedding ring. Des. 71,835; Jan. 11.
- Horvath, Steven, Lorain, Ohio. Sugar-dispensing receptacle. 1,642,678; Sept. 20.
- Horwitt, Paul H., assignor to Independent Paper Mills, Inc., Brooklyn, N. Y. Package of paper napkins, towels, and the like. 1,628,981; May 17.
- Horwitz, Alexander, New York, N. Y. Resilient supporting device. 1,651,331; Nov. 29.
- Horwitz, Edward S., St. Louis, Mo. Bed, folding bed, or any substitute for beds. 1,618,589; Feb. 22.
- Horwitz, Hyman, Brooklyn, N. Y. Collar button. 1,617,252; Feb. 8.
- Horwitz, Vincent, Co. (See Goldberg, Leon, assignor.)
- Horyczak, Joseph, Newark, N. J. Shoe former. 1,650,357; Nov. 22.
- Hossein, Louis H. (See Stevens, N. D., and Hossein.)
- Hossein, Louis H., Winnetka, assignor to M. H. Detrick Co., Chicago, Ill. Furnace-arch construction. 1,629,706; May 24.
- Hossein, Louis H., Chicago, Ill., and R. D. Foltz, East Orange, N. J., assignors to M. H. Detrick Company, Chicago, Ill. Furnace-arch construction. 1,628,518; May 10.
- Hoselt, William J., assignor to H. S. Hart, Chicago, Ill. Dump-car-door control. 1,620,023; Mar. 8.
- Hoselt, William J., and D. Hindahl, assignors to Rodger Ballast Car Company, Chicago, Ill. Railway dump car. 1,634,377; June 28.
- Hosch, Greene C. (See Wheeler, J. L., Reed, and Hosch.)
- Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Shutter for measuring-machine charts. 1,619,935; Mar. 8.
- Hosch, J. Claude, Los Angeles, Calif. Air-cleaning machine. 1,618,02; Feb. 8.
- Hosch, J. Claude, Los Angeles, Calif. Fan. 1,642,205; Sept. 13.
- Hosch, Mathias J., Randolph, Nebr. Hog water fountain. 1,637,940; Aug. 2.
- Hose, Henry G., Brooklyn, N. Y. Changeable-feature hose toy. 1,618,710; Feb. 22.
- Hose, Henry G., Brooklyn, N. Y., and W. E. Ramsdell, Bridgeton, N. J. Roofing supporting strips. 1,636,095; July 19.
- Hösel, Paul, and G. Pagel, Charlottenburg, Germany, assignors, by mesne assignments, to General Electric Company, Schenectady, N. Y. Elastic-fluid-turbine installation. 1,614,128; Jan. 11.
- Hosford, Leonard V., and D. Davison, Portland, Oreg., assignors, by mesne assignments, to Hosford Motor Construction Co. Two-cycle internal-combustion engine. 1,633,585; Feb. 28.
- Hosford Motor Construction Co. (See Hosford, L. V., and Davison, assignors.)
- Hosford, Roger F., Montclair, N. J., assignor to American Telephone and Telegraph Company. Cross arm. 1,642,025; Sept. 13.
- Hosford, William F., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for coating cores. 1,615,381; Jan. 25.
- Hosford, William F., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Can-dried straws. 1,627,740; May 10.
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated. Method of and apparatus for drying and storing dried material preparatory to processing. 1,625,468; Apr. 19.
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tape or ribbon working machine. 1,625,469; Apr. 19.
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Coating strands. 1,627,739; May 10.
- Hoshan, Abraham, Fort Worth, Hills, N. Y. Wave and tide motor. 1,620,258; Mar. 8.
- Hoskin, Edmund F., assignor to William A. Spinks & Company, Chicago, Ill. Bed for billiard tables and the like. 1,619,515; Mar. 1.
- Hoskin, Edmund F., assignor to William A. Spinks & Company, Chicago, Ill. Game table. 1,652,671; Dec. 13.
- Hoskin, Fred E. (See Kelley, E. H., Greiwe, and Hoskin.)
- Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Division of Illinois Tool Works, Chicago, Ill. Washer. 1,615,382; Jan. 25.
- Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill. Lock washer. 1,631,415; June 7.
- Hosking, Richard T., Wilmette, Ill., assignor to E. W. Fritcher, Saginaw, Mich. Broiler. 1,642,071; Sept. 13.
- Hosking, Richard T., Wilmette, assignor to Shakeproof Lock Washer Company, Incorporated, Division of Illinois Tool Works, Chicago, Ill. Lock washer for cap screws. 1,645,859; Oct. 18.
- Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill. Cylindrical lock washer. 1,648,347; Nov. 8.
- Hosking, Robert, Jr., Berkeley, Va. Can opener. 1,617,253; Feb. 8.
- Hoskins, Ben D. W. (See Bridges, F., Firman, Tisdale, and Hoskins.)
- Hoskins, William, Chicago, Ill. Method of and compound for removing from the barrels of firearms the residues deposited by lead bullets and smokeless and semismokeless powder. 1,614,129; Jan. 11.
- Hoskins, William, Chicago, Ill. Treating wood. 1,631,728; June 7.
- Hoskins, William, Chicago, Ill. Removing oil from oil-bearing materials. 1,638,530; Aug. 9.
- Hoskins, William, Chicago, Ill. Induction furnace. 1,646,892; Oct. 25.
- Hoskins, Zachary T., Chicago, Ill. Rail joint. 1,629,791; May 24.
- Hosko, Stephen, Bone, Ohio. Fish net. 1,636,096; July 19.
- Hosler, Grace B., Reedsburg, Wis. Hot-dish lifter. 1,623,679; Apr. 5.
- Hosmer, Chester C. (See Maxwell, Raymond F., assignor.)
- Hosmer, Chester C., Huntington Beach, Calif. Oil-well casing head. 1,623,010; Mar. 29.
- Hosmer, Chester C., Huntington Beach, Calif. Blow-out-preventer attachment for casing heads. 1,635,749; July 12.
- Hosmer, Chester C., Huntington Beach, and S. E. Furman, Long Beach, Calif. Oil-well plunger attachment and sucker-rod connection. 1,645,428; Oct. 11.
- Hosmer, Fred E., Fort Worth, Tex. Recovering gasoline. 1,613,108; Jan. 4.
- Hosner, Orville H., St. Paul, Minn. Valve. 1,648,126; Nov. 8.
- Hoss, Leroy K., Lake Worth, Fla. Headlight. 1,618,010; Feb. 15.
- Hossell, Fred, assignor of one-half to C. A. Winslow, Minneapolis, Minn. Toy horse device. 1,615,383; July 19.
- Hossfeld, Harry E. (See Rose, D. E., Pulliam, and Hossfeld.)
- Hostetter, Abram E., Hope, Kans. Condenser for motor-vehicle radiators. 1,652,985; Dec. 13.
- Hostetter, Harold F., Hanover, Pa. Necktie retainer. 1,619,107; Nov. 14.
- Hostetter, William E. (See Beard, W. E., and Hostetter.)
- Hostettler, Fritz, Bern, Switzerland. Preparation of nonfermented beverages. 1,625,542; Apr. 19.
- Hoszwski, John, Oakland, Calif. Folding table. 1,619,124; Mar. 1.
- Hotchkiss, Paul M., Chicago, Ill. Suspending device for lighting fixtures. 1,630,745; May 31.
- Hotchner, Joseph, San Francisco, Calif. Illuminated sign. 1,633,785; June 28.
- Hotz, Charles H., Postville, Iowa. Display rack. 1,619,420; Mar. 1.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Pouring spout. 1,620,024; Mar. 8.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Closing containers. 1,623,245; Apr. 5.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Method of and machine for lining the flanges of can ends. 1,634,500; July 5.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Can-drying attachment. 1,645,005; Oct. 11.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Sifter-top can. 1,649,230; Nov. 15.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Tin-plate-weighing machine. 1,649,231; Nov. 15.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Can-closing machine. 1,649,122; Nov. 15.
- Hotherhall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Oil can. 1,653,284; Dec. 20.
- Hotsenpiller, William L. (See Fleschner, Lawrence P., assignor.)
- Hotstream Heater Company, The. (See Mendelson, Louis R., assignor.)
- Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)
- Hott, Ion V. K., assignor to The Joyce-Cridland Company, Dayton, Ohio. Lifting jack. 1,653,179; Dec. 20.
- Hottel, Louis W. (See Sturgeon, Harold M., assignor.)
- Hottel, Louis W., Erie, Pa. Forming plastic articles. 1,652,940; Dec. 13.
- Hottel, Louis W., Erie, Pa. Press for forming plastic articles. 1,652,991; Dec. 13.
- Hotter, Edward, Chicago, Ill. Die-casting apparatus. 1,622,768; Mar. 29.
- Hotze, Charles, St. Louis, Mo. Golf bag. 1,617,115; Feb. 8.
- Houch, Jay W., Minneapolis, Minn. Heat regulator. 1,638,582; Aug. 9.
- Houck, George C., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pad for ironing and pressing machines. 1,628,147; May 10.
- Houch, Owen D., Toledo, Ohio. Arm rest. 1,620,816; Mar. 15.

- Houde Engineering Corporation. (See Shultz, A. B., and Casper, assignors.)
- Hough, Arthur, Summit, N. J., assignor to The Duriron Company, Inc., New York, N. Y. Method of and apparatus for making nitric acid. 1,649,901; Nov. 22.
- Hough, Azel C., assignor to Hough Shade Corporation, Janesville, Wis. Woven slat shade. 1,645,951; Oct. 18.
- Hough, Clinton W., Boonville, N. Y., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal apparatus. 1,619,125; Mar. 1.
- Hough, Clinton W., Boonville, N. Y., assignor to Wired Radio, Inc., New York, N. Y. Directing light rays upon light-sensitive elements. 1,646,292; Oct. 18.
- Hough Shade Corporation. (See Hough, Azel C., assignor.)
- Houghton, Carl R., assignor to The Connerville Blower Co., Connerville, Ind. Pressure-temperature compensator and slip integrator for meters. 1,621,203; Mar. 15.
- Houghton, George F. C., Flushing, N. Y. Loud-speaker unit. 1,633,179; June 21.
- Houghton, Herbert H., Los Angeles, Calif., assignor, by mesne assignments, to The Bessick Manufacturing Company, Chicago, Ill. Valved coupling for lubricators. Re16,650; June 14.
- Houghton, Irvey V., Haverhill, Mass. Vehicle tail lamp. 1,646,094; Oct. 18.
- Houglund, Albert C., St. Paul, and L. G. Lindsay, Minneapolis, Minn. Automatic control mechanism for water softeners. 1,627,903; May 10.
- Houllis, Louis D., Dallas, Tex. Gas burner. 1,653,285; Dec. 20.
- House, Arthur C., Weldon, N. C., and G. B. Scheffey, Weehawken, N. J. Frame for cloth boards and similar articles. 1,616,898; Feb. 8.
- House, Charles M., Bloomington, Ill. Draft sill. 1,628,041; May 10.
- House, Ernest W., Birmingham, Ala. Radio receiving circuits. 1,643,015; Sept. 20.
- House, Everett W., Elizabeth, N. J. Supporting rack. 1,621,410; Mar. 15.
- House, Henry A., Bridgeport, Conn. Link belting. 1,625,609; Apr. 19.
- House, Henry A., Bridgeport, Conn., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Article-handling mechanism. 1,627,391; May 3.
- House, Herman, Vancouver, British Columbia, Canada. Phonograph repeater. 1,632,477; June 14.
- House, John W., Corsicana, Tex. Standing valve. 1,640,408; Aug. 30.
- House, Medora, administratrix. (See House, Samuel D.)
- House, Milus M. (See Needles, John W., assignor.)
- House, Milus M., Kansas City, Mo. Occlusal grinding device for articulators. 1,636,504; July 19.
- House, Milus M., Kansas City, Mo. Dental triturating appliance. 1,637,569; Aug. 2.
- House, Samuel D., deceased, Mount Pleasant, Tenn., M. House, administratrix. Permutation lock. 1,643,244; Sept. 20.
- House, Samuel G., assignor of one-third to B. Small and one-third to A. B. Small, Miami, Fla. Reserve valve for fuel tanks. 1,652,011; Dec. 6.
- Housel, Fred L., Brooklyn, N. Y. Appliance for cooking vessels. 1,622,587; Mar. 29.
- Housman, Harold E., assignor to Standard-Trump Brothers Machine Company, Wilmington, Del. Circular-knitting machine. 1,631,816; June 7.
- Housman, Harold E., assignor to Standard-Trump Brothers Machine Company, Wilmington, Del. Circular-knitting machine. 1,631,817; June 7.
- Houser, Charles B., Detroit, Mich. Division board for bowling alleys. 1,628,844; May 17.
- Houser, Orville E., Chillicothe, Ohio. Valve-seat-reconditioning machine. 1,654,219; Dec. 27.
- Housh Company, The. (See Eburne, Robert, assignor.)
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,630,431; May 31.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Control apparatus. 1,632,074; June 14.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,635,999; July 19.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,640,508; Aug. 30.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,642,498; Sept. 13.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,647,994; Nov. 8.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding machine. 1,632,075; June 14.
- Houskeeper, William G., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Removing enamel from electrical conductors. 1,653,895; Dec. 27.
- Housman, John S., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper. 1,644,252; Oct. 4.
- Housman, John S., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper-loader apparatus. 1,646,536; Oct. 25.
- Houston, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Truck structure. 1,637,342; Aug. 2.
- Houston, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radial truck support. 1,652,530; Dec. 13.
- Houston, Harold A., Wilkinsburg, and V. J. Shepard, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Welded spring structure. 1,619,346; Mar. 1.
- Houston, Madeline B., Evanston, Ill. Envelope shield for crib beds. 1,620,660; Mar. 15.
- Houston, William, Haverhill, Mass. Pie-plate attachment. 1,640,409; Aug. 30.
- Houts, John R., McLean, Va. Scraper-edge turner. 1,633,329; June 21.
- Houtz, Robert L. (See Hall, T., and Houtz.)
- Houze, Leon J., Point Marion, Pa. Glass-gathering ring. 1,628,465; May 10.
- Hovda, Oliver H., Billings, Mont. Nail-sorting device. 1,629,885; May 17.
- Hovda, Oliver H., Billings, Mont. Nail-sorting device. 1,634,192; June 28.
- Hovden, Olav, Monterey, Calif. Fish head and entrails removing device. 1,642,422; Sept. 13.
- Hovden, Olav, Monterey, Calif. Fish-segregating mechanism. 1,642,443; Sept. 13.
- Hovden, Olav, Monterey, Calif. Fish-positioning means. 1,642,444; Sept. 13.
- Hovell, Albert A., executor. (See Cary, Spencer C.)
- Hovell, Frank. (See Barnh, E. J., and Hovell.)
- Hover, John M. (See Conklin, W. F., Hopkins, and Hover.)
- Hover, Loren, assignor of one-half to E. Hopkins, Saginaw, Mich. Cultivator attachment for tractors. 1,620,093; Mar. 8.
- Hovland, Henry, Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. Re16,615; May 3.
- Hovland, Henry, Flushing, assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Automatic coin-service telephone system. Re16,616; May 3.
- Hovland, Henry, Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. 1,614,959; Jan. 18.
- Hovland, Henry, Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,644,060; Oct. 4.
- Howard, Arthur M., Pittsburgh, Pa., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Wood preservation. 1,638,440; Aug. 9.
- Howard, Arthur M., Pittsburgh, Pa., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Wood impregnation. 1,650,274; Nov. 22.
- Howard, Albert H., Bay Roberts, Newfoundland, assignor to The Western Union Telegraph Company, New York, N. Y. Regenerative rotary repeater. 1,626,534; Apr. 26.
- Howard, Alonzo, assignor of one-fifth to A. F. Burchard, Chicago, Ill. Ignition-controlling apparatus. 1,644,591; Oct. 4.
- Howard, Andrew. (See Ludwin, J., and Howard.)
- Howard, Burton J., and C. H. Stephenson, Washington, D. C., assignors to the Government and the People of the United States of America. Removal of maggots from blueberries. 1,615,700; Jan. 25.
- Howard, Charles H., Saugus, Mass., assignor by mesne assignments, to American Re-enforced Paper Company, Attleboro, Mass. Sealing device. 1,652,861; Dec. 13.
- Howard, Charles O., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pattern-chain guide for looms. 1,653,209; Dec. 20.
- Howard, Ernest E., Kansas City, Mo. Traffic gate. 1,631,416; June 7.
- Howard, Frank A. (See Clark, E. M., Loomis, and Howard.)
- Howard, Frank A., Chicago, Ill. Carburetor. 1,649,531; Nov. 15.
- Howard, Frank A., Westfield, N. J., assignor to Standard Development Company. Operating water-gas generators. 1,634,833; July 5.
- Howard, Frank A., New York, N. Y., assignor to Standard Development Company. Distillation of hydrocarbon oils. 1,649,532; Nov. 15.
- Howard, Frank A., Elizabeth, N. J., assignor to Standard Development Company. Power transmission. 1,653,360; Dec. 20.
- Howard, Frank A., and N. E. Loomis, Elizabeth, N. J., assignors to Standard Development Company. Continuous distillation of oils. 1,613,754; Jan. 11.
- Howard, Frank A., and N. E. Loomis, Elizabeth, N. J., assignors to Standard Development Company. Distillation of oils. 1,640,938; Aug. 30.
- Howard, Frank A., and J. E. Wright, Elizabeth, N. J., assignors to Standard Development Company, New York, N. Y. Controlling combustion in internal-combustion engines. 1,623,053; Apr. 5.
- Howard, Frank A., Elizabeth, N. J., E. M. Clark, New York, N. Y., J. R. Carrington, Elizabeth, N. J., assignors to Standard Development Company. Pyrogenetic conversion of hydrocarbon oils. 1,615,384; Jan. 25.
- Howard, George E., Butler, Pa. Regulation of glass feeders. 1,619,729; Mar. 1.

- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for forming sheet glass. 1,616,370; Feb. 1.
- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for forming sheet glass. 1,616,371; Feb. 1.
- Howard, George E., Butler, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Method and apparatus for feeding molten glass. 1,617,598; Feb. 15.
- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Leer. 1,618,669; Feb. 22.
- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for handling glassware. 1,618,660; Feb. 22.
- Howard, George E., Butler, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Method and apparatus for feeding molten glass. 1,620,207; Mar. 8.
- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for blowing glass parisons. 1,635,716; July 12.
- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Regulating glass feeders. 1,636,564; July 19.
- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for forming sheet glass. 1,645,063; Oct. 11.
- Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for forming sheet glass. 1,645,054; Oct. 11.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Insecticide. 1,620,208; Mar. 8.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Manufacture of ammonium nitrate. 1,625,807; Apr. 26.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making sodium phosphates. 1,642,444; Sept. 18.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Purifying cadmium. 1,644,431; Oct. 4.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Process and apparatus for producing a gas of uniform sulphur-dioxide content. 1,650,358; Nov. 22.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making ammonium chloride. 1,654,125; Dec. 27.
- Howard Iron Works. (See Worbois, Edson L., assignor.)
- Howard, John A., Johnson City, N. Y. Manufacture of rubber soles and analogous articles. 1,654,001; Dec. 27.
- Howard, John C. (See Bray, Mark, assignor.)
- Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railroad traffic controlling apparatus. 1,624,248; Apr. 12.
- Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railroad-traffic-controlling apparatus. 1,630,531; May 31.
- Howard, Nelson F., La Fayette, Ind. Fence-tightening post. 1,635,416; July 12.
- Howard, Oliver, O., et al. (See Andresen, Halvor, assignor.)
- Howard, Rauland H., Omaha, Nebr. Medical truss. 1,644,835; Oct. 11.
- Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Ltd., Norfolk Down, Mass. Carton-feeding machine. 1,638,399; Aug. 9.
- Howard, William B., assignor to Sattley Company, Detroit, Mich. Coin-wrapper crimper. 1,629,625; May 24.
- Howard, William N., Los Angeles, Calif. Index device. 1,616,623; Feb. 8.
- Howard, William N., Los Angeles, Calif. Index device. 1,616,624; Feb. 8.
- Howard, William R. (See Egloff, G., and Howard.)
- Howard, William R., Washington, D. C., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating hydrocarbons. 1,627,436; May 8.
- Howarth, Harry A. S., assignor, by mesne assignments, to Kingsbury Machine Works, Inc., Philadelphia, Pa. Cooling system for thrust bearings. 1,648,049; Nov. 8.
- Howarth, Stanley W., Stockport, England. Extracting machine from dust settling fur, hair, and the like material. 1,626,339; Apr. 26.
- Howcroft, Harley A. W., New Orleans, La. Oil-refining apparatus. 1,641,852; Sept. 6.
- Howe, Charles A., Pittsburgh, assignor of one-half to W. Bruce Glosky, Shrubsburg, Pa. Automatic safety appliance. 1,635,934; Aug. 18.
- Howe, Fred C., Pasadena, Calif. Spotlight. 1,619,936; Mar. 8.
- Howe, Harold, Orange, N. J. Folding table. 1,644,133; Oct. 4.
- Howe, James F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Mine-sweeping rope. 1,630,847; May 31.
- Howe, James M., Cleveland Heights, assignor to The Murray Manufacturing Company, Cleveland, Ohio. Bearing mechanism. 1,640,366; Aug. 30.
- Howe, James M., Cleveland Heights, assignor to The Murray Manufacturing Company, Cleveland, Ohio. Bearing mechanism. 1,640,366; Aug. 30.
- Howe, James M., Cleveland Heights, assignor to The Murray Products Company, Cleveland, Ohio. Juvenile vehicle. 1,640,357; Aug. 30.
- Howe, James M., Cleveland Heights, assignor to The Murray Products Company, Cleveland, Ohio. Dumping mechanism for vehicles. 1,640,358; Aug. 30.
- Howe, Ralph A., Washington, D. C. Needle. 1,620,550; Mar. 8.
- Howe, Rudolf H., Woodward, Ala. Musical instrument. 1,653,570; Dec. 20.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Intermittent inductive train control. 1,619,730; Mar. 1.
- Howe, Winthrop K., assignor, by mesne assignments, to General Railway Signal Company, Rochester, N. Y. Power-operated wringer for washing machines. 1,626,931; May 3.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,628,319; May 10.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Skate machine. 1,635,577; July 12.
- Howe, Winthrop K., assignor, by mesne assignments, to General Railway Signal Company, Rochester, N. Y. Washing-machine cylinder. 1,635,578; July 12.
- Howe, Winthrop K., assignor, by mesne assignments, to General Railway Signal Company, Rochester, N. Y. Cloth wringer for washing machines. 1,640,773; Aug. 30.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. 1,649,163; Nov. 15.
- Howe, Winthrop K., and C. S. Bushnell, assignors to General Railway Signal Company, Rochester, N. Y. Train control. 1,647,968; Nov. 1.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Photographic-printing machine. 1,614,241; Jan. 11.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Film-reel guard. 1,618,590; Feb. 22.
- Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Motion-picture camera and the like. 1,620,726; Mar. 15.
- Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Photographic camera. 1,620,727; Mar. 15.
- Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Motion-picture apparatus. 1,624,730; Apr. 12.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Film sprocket guide. 1,624,731; Apr. 12.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Motion-picture projecting machine. 1,624,732; Apr. 12.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Flat spiral power spring. 1,628,668; May 17.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Panoraming device for photographic cameras. 1,633,101; June 21.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Motion-picture mechanism. 1,637,878; Aug. 2.
- Howell, Bernard C., assignor to Henry Howell & Company Limited, London, England. Smoker's companion. 1,622,196; Mar. 22.
- Howell, Burr S., and G. M. Fast, Haviland, Ohio. Cultivator. 1,647,700; Nov. 1.
- Howell, Charles C., Kisbey, Saskatchewan, Canada. Stubble burner. 1,619,516; Mar. 1.
- Howell, Francis, Decatur, Ind. Automatic mechanically-controlled power-driven cash drawer. 1,654,045; Dec. 27.
- Howell, Frank B., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler. 1,633,666; June 28.
- Howell, Frank B., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler. 1,633,667; June 28.
- Howell, Frank B., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler. 1,651,528; Dec. 6.
- Howell, Fred E. (See Karling, C. A., and Howell.)
- Howell, George M., Northumberland, Pa. Automatic control for motor vehicles. 1,623,921; Apr. 5.
- Howell, Harry H., Erie, Ark. Clip. 1,618,625; Feb. 8.
- Howell, Henry, & Company Limited. (See Howell, Bernard C., assignor.)
- Howell, John E., and G. E. Sapp, Sacramento, Calif. Retraining mold. 1,641,490; Sept. 6.
- Howell, Manuel W., Monroe, La. Firearm. 1,615,385; Jan. 25.
- Howell, Martin L., Freedom, Pa. Brake-chain-operating means. 1,637,151; July 26.
- Howell, Wallace H., Jr., Willisboro, N. Y. Method and apparatus for producing paper pulp. 1,645,754; Oct. 18.
- Howell, Willie A., Jayess, Miss. Hand grip. 1,643,891; Sept. 27.
- Howlis, Frank E., and L. L. Leach, Steelton, assignors to Bethlehem Steel Company, Bethlehem, Pa. Device for tilting rails. 1,643,714; Sept. 27.

- Howells, Morgan, assignor to Icy-O Metal Products Company, Atlanta, Ga. Dispensing cabinet. 1,613,514; Jan. 4.
- Hower, John B., and J. V. Zeller, assignors to The Akron-Selle Company, Akron, Ohio. Liquid gauge. 1,648,731; Nov. 8.
- Howerton, Andrew G., Memphis, Tenn. Apparatus for treating piles. 1,631,532; June 7.
- Hovess, Frederick C., and F. L. Savageau, Denver, Colo. Apparatus for printing cylindrical objects. 1,643,605; Sept. 27.
- Howes, Raymond T. (See Black, J. C., Rial, and Howes.)
- Howes, S. Co., Inc. (See Shumaker, Charles F., assignor.)
- Howes, S. M., Company, The. (See Bertram, Frank, assignor.)
- Howeth, George O., Morattico, assignor of one-half to W. D. Newbill, Lancaster County, Va. Transmission gear for auto vehicles. 1,642,609; Sept. 13.
- Howey, John V., Munson, Alberta, Canada. Pencil. 1,614,936; Jan. 18.
- Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Knitting machine. 1,634,874; July 5.
- Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Spring-beard knitting machine. 1,652,308; Dec. 13.
- Howle, Robert L., Chicago, Ill. Rotary-pipe coupling. 1,653,703; Dec. 27.
- Howith, George D., Oitawa, Ontario, Canada. Convertible vehicle seat. 1,626,340; Apr. 26.
- Howitz, Alfred A., assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa. Retarding mechanism for internal-combustion engines. 1,624,342; Apr. 12.
- Howland, Harry W., Seattle, Wash. Combination portable electric saw and drill. 1,644,432; Oct. 4.
- Howland, Harry W., assignor to Electric Hand Saw Company, Seattle, Wash. Machine for sawing and boring on a plurality of angles. 1,618,341; Feb. 22.
- Howland, William L., Mason City, Iowa. Golf bag. 1,644,952; Oct. 4.
- Howlett, William E., Moline, Ill. Automatic self-loading hoist. 1,622,589; Mar. 29.
- Howse, Curtis L., Detroit, Mich. assignor to Craig Damper Regulator Company, Hydraulic engine for control devices. 1,612,813; Jan. 4.
- Howser, Christopher L. (See Brogdon, K. M., and Howser.)
- Howser, Walter M., Hammond, Ind. Valve reseater. 1,616,498; Feb. 8.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Speed regulator. 1,618,757; Feb. 22.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Electric clock system. 1,622,588; Mar. 29.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Photographic-developing apparatus. 1,623,788; Apr. 5.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Production of phonographic records. 1,637,903; Aug. 2.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Narrow light aperture. 1,646,249; Oct. 18.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Method and apparatus for the transmission of pictures and views. 1,648,687; Nov. 8.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Signaling apparatus. 1,653,099; Dec. 20.
- Hoxie, William D., Westerly, R. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. 1,636,960; July 26.
- Hoxton, Llewellyn G., University, Va. Braking engine-driven vehicles. 1,620,100; Mar. 8.
- Hoyle, Henry W. S., Dunedin, New Zealand. Gramophone stand or similar article. Des. 73,081; July 19.
- Hoyle, Henry W. S., Dunedin, New Zealand. Combination coat and trouser hanger. 1,617,116; Feb. 8.
- Hoyle, Henry W. S., Dunedin, New Zealand. Collapsible chair for infants. 1,621,930; Mar. 22.
- Hoyle, John E., assignor to The Dow Chemical Company, Midland, Mich. Working light metals. 1,647,095; Oct. 25.
- Hoyle Hoyle & Co. Limited. (See Flewitt, Edwin J., assignor.)
- Hoyle, John L., New Orleans, La. Electric-meter cover. 1,631,684; June 7.
- Hoyer, Willard E., Buffalo, N. Y. Circuit-protecting system. 1,644,525; Oct. 4.
- Hoyer, Willard E., Buffalo, N. Y. Controlling switch. 1,644,526; Oct. 4.
- Hoyer, Willard E., Buffalo, N. Y. Circuit-protecting system. 1,644,527; Oct. 4.
- Hoyme, Christopher B., New York, N. Y. Diaper. 1,649,953; Nov. 22.
- Hoyoss, Hoken, Chicago, Ill. Hydraulic engine. 1,621,840; Mar. 22.
- Hoyt, Arthur S., New York, N. Y. Making a new food product. 1,643,772; Sept. 27.
- Hoyt Heater Company. (See Hoyt, Robert C., assignor.)
- Hoyt, John C. (See Au, Carl H., assignor.)
- Hoyt, Robert C., Oakland, assignor to Hoyt Heater Company, Los Angeles, Calif. Water-heater coil. 1,614,242; Jan. 11.
- Hoz, Heinrich, W. Bernoulli, and A. Link, assignors to Society T. R. Geigy S. A., Basel, Switzerland. Dyeing and printing acetyl-cellulose. 1,613,223; Jan. 4.
- Hoz, Heinrich, W. Bernoulli, and A. Link, assignors to the Firm J. R. Geigy S. A., Basel, Switzerland. Dyeing and printing acetyl cellulose. 1,650,275; Nov. 22.
- Hozlak, Anthony, Nanticoke, Pa. Submarine vessel. 1,647,866; Nov. 1.
- Hubbard, Francis J., assignor to Le Febure Ledger Company, Cedar Rapids, Iowa. Loose-leaf binder. 1,623,314; Apr. 5.
- Hubbard, Arthur. (See McEvoy, W. L., and Hubbard.)
- Hubbard, Cecil R., Newark, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio. Machine for cutting annular articles. 1,647,353; Nov. 1.
- Hubbard, Cecil R., Newark, assignor to The Garlick Packing Company, Palmyra, N. Y. Packing. 1,651,277; Nov. 29.
- Hubbard, Clayton M., Elk Mound, Wis. Strainer-cloth fastener. 1,618,433; Feb. 22.
- Hubbard, Edward L., Oakland, Calif. Golf club. 1,627,348; May 10.
- Hubbard, Elmer A., Flagstaff, Ariz. Flexible spotter for repairing tire casings. 1,632,651; June 14.
- Hubbard, Francis A., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Determining inequalities in wall thickness of tubes. 1,633,476; July 14.
- Hubbard, Francis A., West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System for determining the direction of propagation of wave energy. 1,641,432; Sept. 6.
- Hubbard, Francis A., West Englewood, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Direction finding and indicating system. 1,645,810; Oct. 13.
- Hubbard, Franklin G., assignor to Neva-Clog Products, Inc., Bridgeport, Conn. Stapling machine. 1,654,170; Dec. 27.
- Hubbard, Henry E. (See Duncan, J. S., and Hubbard.)
- Hubbard, Henry E., assignor to Addressograph Company, Chicago, Ill. Index tab. 1,629,033; May 17.
- Hubbard, Lemott D., Utica, N. Y. Culinary utensil. 1,627,285; May 8.
- Hubbard, Lloyd B., assignor of one-fourth to B. Martin and B. O. Oneal, Wichita Falls, Tex. Reversible rotary motor (gas). 1,646,695; Oct. 25.
- Hubbard Machine Company. (See Hubbard, William E., assignor.)
- Hubbard, Moses G., Chatham, N. J. Air valve. 1,614,613; Jan. 18.
- Hubbard, Moses G., Chatham, N. J. Thermostatic valve. 1,633,410; June 21.
- Hubbard, Moses G., Chatham, N. J. Pressure regulator. 1,635,274; July 12.
- Hubbard, Moses G., Chatham, N. J. Fluid valve. 1,647,359; Nov. 1.
- Hubbard, Norman, Elizabeth, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Method of and apparatus for spraying liquids. 1,650,128; Nov. 22.
- Hubbard, William, Herkimer, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine and method. 1,643,498; Sept. 27.
- Hubbard, William E., assignor to Hubbard Machine Company, San Francisco, Calif. Pumping system. 1,619,474; Mar. 1.
- Hubbard, William E., assignor to Hubbard Machine Company, San Francisco, Calif. Pumping system. 1,619,475; Mar. 1.
- Hubbell, Alfred W., assignor of one-half to Phillips Petroleum Company, Bartlesville, Okla. Internal-combustion engine. 1,632,478; June 14.
- Hubbell, Clarence Z. (See Kelly, W. E., and Hubbell.)
- Hubbell, Harry C., assignor to Wico Electric Company, West Springfield, Mass. Ignition system for burners. 1,630,702; May 31.
- Hubbell, Harvey, Bridgeport, Conn. Canopy switch. 1,617,521; Feb. 15.
- Hubbell, Harvey, Bridgeport, Conn. Double T cap. 1,617,810; Feb. 15.
- Hubbell, Harvey, Bridgeport, Conn. Candle pull socket. 1,645,952; Oct. 18.
- Hubbell, Harvey C., Cincinnati, Ohio. Tractor. 1,633,743; Jan. 28.
- Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)
- Hubbell, Jay H. (See Kovanda, L. P., and Hubbell.)
- Hubble, Grover C., Bonners Ferry, Idaho. Arc-welding machine. 1,623,148; May 10.
- Hubener, Joseph F., Greenwood, N. J. Electric cord-supply. 1,636,306; July 19.
- Hubener, William A., assignor to Diamond Expansion Bolt Company, New York, N. Y. Toggle and method. 1,623,789; Apr. 5.
- Huber, Charles J., Baltimore, Md. Furnace-arch and coking-shelf structure. 1,627,741; May 10.
- Huber, Frank, Middletown, Ind. Dispensing apparatus. 1,639,564; Aug. 16.
- Huber, Frederick W., Riverside, Calif. Making table salt. 1,645,238; Oct. 11.
- Huber, Frederick W., Riverside, Calif. Well cementing. 1,647,003; Oct. 25.

- Huber, Fritz, Mannheim, assignor, by mesne assignments, to Heinrich Lanz Aktiengesellschaft, Mannheim, Baden, Germany. 1,624,413; Apr. 12.
- Huber, Gustav, Stuttgart, Germany. Seam for sewing together and covering for knitted and woven fabrics. 1,612,819; Jan. 4.
- Huber, Gustav, Stuttgart, Germany. Production of over-seams. 1,612,820; Jan. 4.
- Huber, Gustav, Stuttgart, Germany. Sewing machine. 1,612,821; Jan. 4.
- Hudson, Herman J. H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,645,055; Oct. 11.
- Huber, Johannes S., assignor to Harnischfeger Corporation, Milwaukee, Wis. Power shovel. 1,625,855; Apr. 26.
- Hudson, Louis E., Phoenix, Ariz. Direction signal. 1,642,995; Sept. 20.
- Huber, Matthew W., Chicago, Ill., assignor to Motor Wheel Corporation, Lansing, Mich. Running board. 1,637,570; Aug. 2.
- Huber, Walter, Pforzheim, Germany. Combined time-piece and support. Des. 71,973; Feb. 8.
- Hueber, Walter, Pforzheim, Germany. Watchcase. 1,619,822; Mar. 8.
- Huber, William, assignor of one-half to O. W. Meyer, Bentley, N. Dak. Whipping or prodding device. 1,634,193; June 28.
- Huebner, Charles H., et al. (See Wendler, Alex., assignor.)
- Huberty, August, Canton, Ohio. Lawn trimmer. 1,632,479; June 14.
- Hueley Manufacturing Co., The. (See Hartman, John H., assignor.)
- Hueber, Magloire, Montreal, Quebec, Canada. Broom-supporting device. 1,652,243; Dec. 13.
- Huck Axle Corporation. (See Huck, Louis C., assignor.)
- Huck Axle Corporation. (See Huck, L. C., and Twilight, assignors.)
- Huck, Louis C., assignor to Huck Axle Corporation, Chicago, Ill. Final drive for motor trucks. 1,636,819; July 26.
- Huck, Louis C., assignor to Huck Axle Corporation, Chicago, Ill. Final drive for motor trucks. 1,636,820; July 26.
- Huck, Louis C., and M. Twilight, assignors to Huck Axle Corporation, Chicago, Ill. Brake for automobile vehicles. 1,632,479; Dec. 13.
- Huck, Theodore, and T. Meaney, Brooklyn, N. Y., assignors to Home-O-Life Co., Inc. Lamp shade. Re1,650; Feb. 22.
- Huck, William, assignor to R. Hoe & Co. Inc., New York, N. Y. Mechanical movement for molding presses. 1,648,401; Nov. 8.
- Huckel, John F., assignor to F. Harvey, Kansas City, Mo. Lunch-counter stool. Des. 72,015; Feb. 15.
- Huckel, John F., assignor to F. Harvey, Kansas City, Mo. Lunch-counter stool. 1,626,832; May 3.
- Huckins, Charles W., Seattle, Wash. Toy. 1,649,533; Nov. 15.
- Hucks, William, Camden Town, London, assignor of one-half to Sodastream Limited, Camden Town, England. Apparatus for aerating liquids. 1,623,011; Mar. 29.
- Hucks, William, Camden Town, assignor of one-half to Sodastream Limited, London, England. Apparatus for aerating liquids. 1,650,516; Nov. 22.
- Hudd, Alfred E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electric relay. 1,648,348; Nov. 8.
- Hudd, Alfred E., Liverpool, and A. F. Bound, Timperley, England, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Train-control system. 1,629,833; Mar. 3.
- Hudgens, Albert C., assignor to Loom Lay Patch Company, Greenwood, S. C. Checkstrap holder. 1,620,463; Mar. 8.
- Hudgins, Burnie, Kenova, W. Va. Hose holder. 1,625,255; Apr. 19.
- Hudnall, Patrick L., Decatur, Ga. Emergency coupling for railway cars. 1,653,433; Dec. 20.
- Hudnall, John W., Shreveport, La. Portable fence panel. 1,646,293; Oct. 18.
- Hudson, A. P. H., et al. (See Pangborn, Redmond H., assignor.)
- Hudson, Albert B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and machine for inserting fasteners. 1,615,276; Jan. 25.
- Hudson, Alexander, Round Lake, Minn. Phonograph cabinet. Des. 73,229; Aug. 9.
- Hudson, Armond D., Keyapaha, and E. L. Smith, assignors of one-fourth to W. A. Tibbles, Millbrook, and one-fourth to B. B. Butts, Winler, S. Dak. Mechanical movement. 1,635,182; July 12.
- Hudson, Augustus H. (See North, C. E. H., and Hudson.)
- Hudson, C. R. (See Campbell, Howard D., assignor.)
- Hudson, Charles B., Akron, and H. C. Dextwyck, Kenmore, assignors to The Akron Standard Mold Company, Akron, Ohio. Vulcanizer. 1,644,433; Oct. 4.
- Hudson, Claude S., Trenton, N. J., assignor to Standard Development Company. Glazing composition. 1,646,731; Oct. 25.
- Hudson Coal Company, The. (See Cook, T. R., and Smith, assignors.)
- Hudson, Finn S., Kansas City, Mo. Automobile driving mechanism. 1,629,707; May 24.
- Hudson, Harvard F., Wichita, Kans. Radiator protector. 1,642,925; Sept. 20.
- Hudson Heating Systems, Inc. (See Hudson, Walter E., assignor.)
- Hudson Heating Systems, Inc. (See Shriner, Robert L., assignor.)
- Hudson, Herbert D., Minneapolis, Minn. Sprayer. 1,630,294; Aug. 16.
- Hudson, James A., Borger, Tex. Automatic switch for film rewinders. 1,635,478; July 12.
- Hudson, John, Brooklyn, N. Y. Air-circulating system for cargo vessels. 1,623,922; Apr. 5.
- Hudson, John W., Lyndbrook, N. Y. Cooling internal-combustion engines. 1,612,863; Jan. 4.
- Hudson, John W., Lyndbrook, N. Y. Cooling mechanism for internal-combustion engines. 1,635,938; July 12.
- Hudson Motor Car Company. (See Fekete, S. I., and Balts, assignors.)
- Hudson Motor Car Company. (See Groehn, Otto J., assignor.)
- Hudson Motor Car Company. (See Kopplin, Alfred O., assignor.)
- Hudson Motor Car Company. (See Rumely, Vincent P., assignor.)
- Hudson, Robert S., et al. (See Pangborn, Redmond H., assignor.)
- Hudson, Walter C., Anderson, S. C., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple for looms. 1,612,923; Jan. 4.
- Hudson, Walter C., Anderson, S. C., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple for looms. 1,612,924; Jan. 4.
- Hudson, Walter E., Amagansett, assignor to Hudson Heating Systems, Inc., New York, N. Y. Electric heater. 1,631,484; June 7.
- Hudson, Walter E., Amagansett, assignor to Hudson Heating Systems, Inc., New York, N. Y. Electric heating system. 1,631,485; June 7.
- Hueber, Joseph A. (See Kelley, J. M., and Hueber.)
- Huebner, George, La Grange, Tex. Plant-dusting attachment. 1,629,872; May 24.
- Huebner, Harry G., assignor to Albert Eichhorn & Son, Philadelphia, Pa. Easel. 1,634,715; July 5.
- Huebner & Mayer. (See Roschneek, Otto, assignor.)
- Huebner, William C., Buffalo, N. Y. Coating machine. 1,647,360; Nov. 1.
- Huebsch, Joseph, Milwaukee, Wis. Universal ironing machine. 1,623,187; Apr. 5.
- Hueckel, John T., Belleville, Ill. Oven-door mechanism. 1,640,036; Aug. 23.
- Hueckler, Rudolf. (See Sears, F. W., and Buck, assignors.)
- Hueller, Walter, Union, N. J. Needle mechanism. 1,645,532; Oct. 18.
- Huey, Hugh A. (See Smurr, Samuel P., assignor.)
- Huemperlin, Ferdinand W., assignor of one-half to Mid-States Gummed Paper Company, Chicago, Ill. Wire-typing tool. 1,636,741; July 26.
- Huenert, Hans. (See Kluehnel, Franz, assignor.)
- Hueney, William T., assignor to Paul J. Daemnick Company, Chicago, Ill. Display case. 1,646,075; Oct. 11.
- Huerttle, Karl, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Outer cover of rigid airships. 1,623,681; Apr. 5.
- Huettemann, Gustav A., and F. A. Gericch, assignors to Hammer-Bray Company, Oakland, Calif. Air-supplying device for gas burners. 1,650,359; Nov. 22.
- Huey, Andrew, assignor of forty-nine one-hundredths to K. Roehll and twenty-five one-hundredths to E. B. Huetter, Dayton, Ohio. Tube-splicing device. 1,616,958; Feb. 8.
- Huetter, Andrew, assignor to The Artyr Company, Dayton, Ohio. Expandable core. 1,616,959; Feb. 8.
- Huey, Elfriede B., et al. (See Huetter, Andrew, assignor.)
- Huey, Harold I., assignor to Sayles Finishing Plants, Inc., Saylesville, R. I. Producing woollike effects on cotton fabrics. 1,616,749; Feb. 8.
- Huey, Harold I., assignor to Sayles Finishing Plants, Inc., Saylesville, R. I. Method of and apparatus for feeding fabrics. 1,645,501; Oct. 11.
- Huey, Henry. (See Scott, H. B., Wildmont, and Huey.)
- Huff, Emmett C., Walla Walla, Wash. Target. 1,653,571; Dec. 20.
- Huff, Floyd A., Mansfield, Ohio. Snubber. 1,643,016; Sept. 20.
- Huff, Floyd A., Mansfield, Ohio. Automobile seat. 1,644,528; Oct. 4.
- Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Constant-volume regulator. 1,616,450; Feb. 8.
- Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Valve. 1,619,937; Mar. 8.
- Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating oils. 1,619,977; Mar. 8.
- Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon oil conversion. 1,638,735; Aug. 9.

- Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for drawing off gases and liquids from pressure systems. 1,652,171; Dec. 13.
- Huff, Omer, Fresno, Calif. Blow-off cock. 1,620,464; Mar. 8.
- Huff, William D., assignor of one-half to J. A. Gorr, La Fayette, La. Nail joint. 1,619,792; Mar. 1.
- Huff, William H., Hamlet, N. C. Adjustable tie plate. 1,632,970; June 21.
- Huffer, George. (See Alden, H. W., and Huffer.)
- Huffer, George H., Detroit, Mich., assignor to Thompson Products Inc., Cleveland, Ohio. Universal coupling. 1,641,385; Sept. 8.
- Huffer, George H., Detroit, Mich., assignor to Thompson Products Inc., Cleveland, Ohio. Universal coupling. 1,643,017; Sept. 20.
- Huffman, Charles A., assignor to The Long-Bell Lumber Company, Longview, Wash. Pacific coast type trimmer with tightener take-up. 1,620,101; Mar. 8.
- Huffman, Eugene S., Rockford, Ill. Nicotine collector for tobacco smoking. 1,612,975; Jan. 4.
- Huffman, Robert L., South Miami, Fla. Surveyor's instrument. 1,630,180; May 24.
- Hufnagle, Oliver C., assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Pump or the like. 1,614,733; Jan. 18.
- Hufnagle, Oliver C., assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Pump or the like. 1,647,861; Nov. 1.
- Huggins, Frank K., Redlands, Calif. Sanitary toothpick dispenser. 1,653,286; Dec. 20.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Co., Inc., New York, N. Y. Electric indicating means. 1,617,287; Feb. 8.
- Hughes, Albert M., Pasadena, Calif. Flange-pin remover. 1,630,942; May 31.
- Hughes, Ben H., East Cleveland, Ohio. Boiler plug. 1,636,135; July 19.
- Hughes, Benjamin, Montreal, Quebec, Canada. Shield for use with electrical appliances. 1,651,922; Dec. 6.
- Hughes, Charles H., and B. E. Kothe, Cincinnati, Ohio. Artificial bait. 1,627,512; May 3.
- Hughes, Clifford G., Elwood, Ind. Sanitary bottle cap. 1,650,517; Nov. 22.
- Hughes, Earl V., Peru, Ind., assignor to Wasmuth-Goodrich Company. Combination radio and phonograph apparatus. 1,648,644; Nov. 8.
- Hughes, George, Southampton, England. Apparatus for flanging and bending metal plates. 1,633,744; June 28.
- Hughes, Guy N., Atlanta, Ga. Fruit-juice-extracting machine. 1,620,551; Mar. 8.
- Hughes, H. E., et al. (See Johnson, Albert, assignor.)
- Hughes, Harry C., Cincinnati, Ohio. Valve-lifting apparatus. 1,615,701; Jan. 25.
- Hughes, Henry G., Mendon, Utah. Automobile lock. 1,637,343; Aug. 2.
- Hughes, Howard R., deceased, Houston, Tex.; R. C. Kull, administrator. Rotary drilling tool. 1,641,273; Sept. 6.
- Hughes, Hugh E., assignor to The Weed Control Company of California, Berkeley, Calif. Weed-destroying composition. 1,629,819; May 24.
- Hughes, Hugh L., Cleveland, Ohio, assignor, by mesne assignment, to E. H. Hall, Grand Rapids, Minn. Plug-inserting tool. 1,633,830; June 21.
- Hughes, Hugh T., Cleveland, assignor to The Wadsworth Core Machine & Equipment Company, Akron, Ohio. Tire-spreading device. 1,639,506; Aug. 16.
- Hughes, John A., Waco, Tex. Desk construction. 1,621,824; Mar. 15.
- Hughes, John A., Waco, Tex. Combination desk and file. 1,640,277; Aug. 23.
- Hughes, Joseph D. E., assignor to Stotesbury & Miner, New York, N. Y. Automobile theft detector. 1,636,513; July 19.
- Hughes, L. V., et al. (See Johnson, Albert, assignor.)
- Hughes, Lafayette M. (See Mitchell, Thomas A., assignor.)
- Hughes, Lank, Washington, D. C. Tool-holding device. 1,629,213; May 17.
- Hughes, Lawrence, et al. (See Wilkinson, Stanley W., assignor.)
- Hughes, Luther, et al. (See Daniels, Cecil C., assignor.)
- Hughes, Milton C., Roy, Wash. Pie-cutting guide. 1,629,164; May 17.
- Hughes, Paul C., Tulsa, Okla. Gas burner. 1,641,274; Sept. 6.
- Hughes, Paul C., Tulsa, Okla. Burner. 1,641,275; Sept. 6.
- Hughes, Percy A. (See De La Concha, Tomas, assignor.)
- Hughes, Ralph C. (See Gaunt, F., Reynolds, and Hughes.)
- Hughes, Robert S., Beaver, Pa., assignor to The Decal Products Company, East Liverpool, Ohio. Decorated glassware and process. 1,647,362; Nov. 1.
- Hughes, Roland M., assignor of one-half to R. E. Ferguson, Clinton, S. C. Let-off mechanism for looms. 1,628,540; May 10.
- Hughes, Thomas F., Pawtucket, assignor to United Wire and Supply Company, Auburn, R. I. Molding a fin into a casting. 1,616,626; Feb. 8.
- Hughes Tool Company. (See Fletcher, Harold W., assignor.)
- Hughes Tool Company. (See Scott, F. L., and Wellen-siek, assignors.)
- Hughes Tool Company. (See Scott, Floyd L., assignor.)
- Hughes, William, Taunton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Connector for electric wires. 1,619,517; Mar. 1.
- Hughes, William A., East Chattanooga, Tenn., assignor to Scott & Williams, Incorporated, New York, N. Y. Ribbed-top-holding-down attachment for knitting machines. 1,643,849; Sept. 27.
- Hughes, William B., Waltham, Mass. Dial gauge. 1,617,485; Feb. 15.
- Hughes, William D., Miami, Fla. Fruit picker. 1,619,731; Nov. 1.
- Hughes, William G., Downey, Calif. Chain pipe wrench. 1,626,238; Apr. 26.
- Hughson, Harry, Berkeley, Calif. Universal joint. 1,617,908; Feb. 15.
- Hughson, John A., New York, N. Y. Fastener for shirts, coats, and the like. 1,632,698; June 21.
- Huginin, George S. (See Cannam, E. W., and Huginin.)
- Hugo Stinnes Riebeck Montan und Olwerke Akt. Ges. (See Hellthaler, Theodor, assignor.)
- Hugo, Theodor, Wilmersdorf, near Berlin, Germany. Manufacture of envelopes. 1,648,768; Nov. 8.
- Hugo, Theodor, Wilmersdorf, near Berlin, Germany. Feeding device for envelope or bag making machines. 1,648,769; Nov. 8.
- Huguenin, Albert, Paris, France. Hydraulic works utilizing the power of tides. 1,648,848; Nov. 8.
- Huguenin, Louis, Topeka, Kans. Steering-wheel lock. 1,613,707; Jan. 11.
- Huguley, Carl M. (See Huguley, Job C. and C. M.)
- Huguley, Job C. and C. M., San Diego, Calif. Mop machine. 1,635,322; July 12.
- Huhholz, Max A., Chicago, Ill. Hood construction. 1,630,342; May 31.
- Hulsmann, Johann. (See Duisberg, W., Hentrich, Zeh, and Hulsmann.)
- Hula, Wesley A., Medford, Okla. Loading machine. 1,642,679; Sept. 20.
- Hulbert, Edwin F., Milwaukee, Wis., assignor, by mesne assignment, to The Miter Packing Corporation. Making containers. 1,638,035; Aug. 9.
- Hulbert, Leonard. (See Bernstein, J. S., and Hulbert.)
- Hulbish, David S., Toronto, Ontario, Canada. Printing-telegraph system with way stations. 1,653,047; Dec. 26.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron device and method of operating. 1,628,466; May 10.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Regulating apparatus. 1,641,679; Sept. 6.
- Hull, Charles C. and M. R., Connorsville, Ind. Automobile top. 1,637,112; July 26.
- Hull, Cloice B., Cleveland, Ohio. Brake for airplanes. 1,641,760; Sept. 6.
- Hull, Douglas M. (See Stahle, L. R. D., Wilson, Terry, and Hull.)
- Hull, Edward T., New York, N. Y. Speed-controlling apparatus for internal-combustion engines. 1,620,763; Mar. 15.
- Hull, Edward T., New York, N. Y. Speed-controlling apparatus for engines. 1,620,764; Mar. 15.
- Hull, George A. (See Fairchild, C. N., and Hull.)
- Hull, George A., assignor to Equipment Specialties Co., Chicago, Ill. Ventilating door for the hatchways of refrigerator cars. 1,613,830; Jan. 11.
- Hull, George A., assignor to Equipment Specialties Co., Chicago, Ill. Car-door-latching device. 1,626,834; May 3.
- Hull, George A., assignor to Equipment Specialties Co., Chicago, Ill. Ventilating door for the hatchways of refrigerator cars. 1,637,861; Aug. 2.
- Hull, George A., assignor to Equipment Specialties Co., Chicago, Ill. Air circulating means for refrigerator cars. 1,643,892; Sept. 27.
- Hull, Harold S., New York, N. Y. Table cover or similar article. Des. 73,082; July 19.
- Hull, Harold S., New York, N. Y. Table cover or similar article. Des. 73,083; July 19.
- Hull, Harry B., Orlton, assignor of one-half to C. S. Goodall, Yale, Okla. Fan-belt pulley. 1,637,773; Aug. 2.
- Hull, Harry B., assignor to Deeco-Light Company, Dayton, Ohio. Refrigerating apparatus. 1,648,178; Nov. 8.
- Hull, Harry E., Washington, D. C. Motor-vehicle control pedal. 1,619,421; Mar. 1.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. System of speed control for induction motors. 1,619,673; Mar. 1.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. 1,634,944; July 5.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Power system. 1,635,788; July 12.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Self-excited induction motor. 1,637,400; July 26.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Induction motor. 1,637,041; July 26.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Brush-shifting arrangement for dynamo-electric machines. 1,648,688; Nov. 8.

- Hull, John W., assignor of one-half to J. Riggs, San Antonio, Tex. Liquid-level gauge. 1,642,656; Sept. 13.
- Hull, Joseph, assignor of one-half to William Spiers, Limited, Leicester, England. Knitting-machine needle. 1,634,423; July 5.
- Hull, Lewis M., Mountain Lakes, and R. W. Seabury, assignors to Radio Frequency Laboratories, Incorporated, Efonton, N. J. Inductive coupling device. 1,625,723; Apr. 19.
- Hull, Matthew R. (See Hull, Charles C. and M. R.)
- Hull, Matthew R., assignor to Rex Manufacturing Company, Connerville, Ind. Automobile top. Re16,581; Mar. 29.
- Hull, Matthew R., assignor to Rex Manufacturing Company, Connerville, Ind. Windshield. 1,624,170; Apr. 12.
- Hull, Matthew R., assignor to Rex Manufacturing Company, Connerville, Ind. Connector plate for vehicle doors. 1,644,018; Oct. 4.
- Hull, Matthew R., and R. H. Money, assignors to Rex Manufacturing Company, Connerville, Ind. Automobile window. 1,650,876; Nov. 22.
- Hull, Robert W., assignor to Rex Manufacturing Company, Connerville, Ind. Connecting means for two-part automobile doors. 1,616,803; Feb. 8.
- Hull, Samuel P., Yonkers, N. Y. Front rod. 1,621,884; Mar. 22.
- Hull, Sidney M., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Organic molding composition. 1,645,179; Nov. 8.
- Hulme, Frederic G., assignor to Hensel Silk Manufacturing Company, Philadelphia, Pa. Bullion fringe loom. 1,643,211; Sept. 20.
- Hulmer, Joseph, and K. Jonas, Chicago, Ill. Electrolytic plating machine. 1,616,199; Feb. 22.
- Hulsart, Dolph R., Tuscaloosa, Ala. Vencer bucket. 1,654,375; Dec. 27.
- Hulse, Edison G., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Tire flap. 1,619,868; Mar. 8.
- Hulse, Edward P., Westfield, N. J. Knife. 1,622,870; Mar. 29.
- Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Apparatus for generator regulation. 1,622,282; Mar. 29.
- Hulse, Thomas W., Inver Grove, Minn. Animal trap. 1,625,027; Apr. 19.
- Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,621,254; Mar. 15.
- Hulshizer, George W., Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Friction head for rifle bars. 1,623,411; Apr. 5.
- Hulstzer, Robert L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-discharge device. 1,628,982; May 17.
- Hulsman, Oscar C., Middleboro, Mass. Roundabout. 1,643,499; Sept. 27.
- Hülsmeier, Christian, Dusseldorf-Grafenberg, Germany. Gas condenser. 1,650,972; Nov. 29.
- Hult, John A., assignor to The American Multigraph Company, Cleveland, Ohio. Paper detector for printing machines. 1,625,256; Apr. 19.
- Hult, John A., assignor to The American Multigraph Company, Cleveland, Ohio. Addressing machine. 1,627,240; May 3.
- Hult, Oscar W., Stockholm, Sweden. Motor with extra cooling of the air or fuel mixture before admission into the working cylinder. 1,636,937; July 26.
- Hultenius, Gustav A., Newport, R. I. Dispensing device. 1,627,647; May 10.
- Hultgren, Axel G. E., and J. H. E. Thorén, assignors to Aktiebolaget Svenska Kullagerfabriken, Göttenberg, Sweden. Self-locking nut. 1,635,082; July 5.
- Hultgren, Charles R., assignor to S. Karpen & Bros., Chicago, Ill. Upholstery construction. 1,654,171; Dec. 27.
- Hultgreen, Jacob. (See Hebs, W. J., and Hultgreen.)
- Hultin, Valter K., Stockholm, Sweden. Method and arrangement for making naked flooring. 1,622,829; Mar. 29.
- Hultquist, Charles A., Los Angeles, Calif. Fluid-operated percussive tool. 1,626,087; Apr. 26.
- Hultquist, Charles A., Los Angeles, Calif. Drill-steel-retaining device. 1,647,628; Nov. 1.
- Humbert, Louis, New York, N. Y. Sanitary device for cleaning and whining razors. 1,618,661; Feb. 22.
- Humble Oil and Refining Company. (See Ricker, Norman H., assignor.)
- Humble, William S., Riverside, Calif. Surgical instrument. 1,636,636; July 19.
- Humboldt, Elie S., Oakland, assignor to The Pacific Lumber Company, San Francisco, Calif. Wooden battist separator. 1,631,867; June 7.
- Humbrecht, Jules, assignor to the Firm of Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Periscope more particularly for submarines. 1,624,733; Apr. 12.
- Hume, John E., Clinton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector on loom transfer arms. 1,653,210; Dec. 20.
- Hume, Walter R., Melbourne, Victoria, Australia. Apparatus for the manufacture of pipes and the like from metal sheets or plates. 1,645,239; Oct. 11.
- Humidity Control Company, The. (See Ascher, Louis K., assignor.)
- Humidity Control Company, The. (See Krick, Arthur E., assignor.)
- Humiston, John M. (See Genung, Gilbert, assignor.)
- Humiston, John M., Berwyn, Ill. Installing ground pipes. 1,639,731; Aug. 23.
- Humm, Joseph A., Elyria, Ohio. Combined tool and electric bulb. 1,639,889; Aug. 23.
- Hummell, John E., Cleveland, Ohio. Electrical-fixture hanger. 1,634,578; July 5.
- Hummerson, Samuel, Clay Township, Carroll County, Ind. Game apparatus. 1,629,386; May 17.
- Hummert, Robert H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Radiator cap. Des. 73,259; Aug. 16.
- Humphrey, Alfred H., Salem, N. Y. License-plate unit. 1,621,411; Mar. 15.
- Humphrey, Alfred H., Salem, N. Y. Sign. 1,621,412; Mar. 15.
- Humphrey, Alfred H., assignor to G. G. Humphrey, Salem, N. Y. Sign. 1,627,437; May 3.
- Humphrey, Charles E., Pasadena, Calif. Sprinkler. 1,621,204; Mar. 15.
- Humphrey, Clifford W., et al. (See Humphrey, C. W., and McKittrick, assignors.)
- Humphrey, Clifford W. (See Lea, H. I., and Humphrey.)
- Humphrey, Clifford W., Redbank, N. J., and D. S. McKittrick, Oakland, assignors to C. W. Humphrey, San Francisco and H. I. Lea, Santa Monica, Calif. Solidifying aluminum chloride. 1,645,142; Oct. 11.
- Humphrey, Clifford W., Redbank, N. J., and D. S. McKittrick, Oakland, assignors to said Humphrey and H. I. Lea, Santa Monica, Calif. Purifying aluminum chloride. 1,645,143; Oct. 11.
- Humphrey, Clifford W., Redbank, N. J., and D. S. McKittrick, Oakland, assignors to C. W. Humphrey and H. I. Lea, Santa Monica, Calif. Apparatus for purifying and solidifying aluminum chloride. 1,645,144; Oct. 11.
- Humphrey, David, deceased, Cleveland, Ohio; H. J. Humphrey, executor. Beverage-dispensing device. 1,625,597; Apr. 5.
- Humphrey, Dwight E. (See Urquhart, W. R., Post, Humphrey and Van Arsdale.)
- Humphrey, Ernest N., New Britain, Conn., assignor to United Royalties Corporation, New York, N. Y. Blade for agitator blades of egg beaters. 1,647,800; Nov. 1.
- Humphrey Gas Pump Company. (See Trump, Charles C., assignor.)
- Humphrey, George C. (See Glaze, H. L., and Humphrey.)
- Humphrey, Grace G. (See Humphrey, Alfred H., assignor.)
- Humphrey, H. J., executor. (See Humphrey, David.)
- Humphrey, Henry H., St. Louis, Mo. Fuel economizer for internal combustion engines. 1,640,671; Aug. 30.
- Humphrey, Herbert A., Stockton-on-Tees, England, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Conducting catalytic fluid reactions. 1,617,522; Feb. 15.
- Humphrey, Herbert S., assignor to Rudd Manufacturing Company, Kalamazoo, Mich. Water heater. 1,618,434; Feb. 22.
- Humphrey, Hubert R., assignor to General Gas Light Company, Kalamazoo, Mich. Gas heating stove. 1,647,995; Nov. 8.
- Humphrey, Hubert R., Kalamazoo, Mich., assignor to General Gas Light Company. Gas heater. 1,650,835; Nov. 29.
- Humphrey, Irvin W., Kenil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Nitrocellulose lacquer and making same. 1,653,008; Dec. 20.
- Humphrey, Irvin W., Kenil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Pine-oil product and making same. 1,653,009; Dec. 20.
- Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Nitrocellulose lacquer. 1,653,010; Dec. 20.
- Humphrey, Raymond C., Pittsfield, Mass. Automobile brake adjuster. 1,635,417; July 12.
- Humphreys, Charles F., assignor to Armstrong Cork Company, Lancaster, Pa. Rug or similar article. Des. 71,794; Jan. 4.
- Humphreys, Charles F., assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum or similar hard-surfaced floor covering. Des. 71,795; Jan. 4.
- Humphreys, Charles F., assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum or similar hard-surfaced floor covering. Des. 71,796; Jan. 4.
- Humphreys, Charles F., assignor to Armstrong Cork Company, Lancaster, Pa. Rug or similar article. Des. 71,797; Feb. 8.
- Humphreys, Charles F., and J. C. McCarthy, Lancaster, assignors to Armstrong Cork Company, Pittsburgh, Pa. Linoleum floor coverings and process of manufacture. Des. 71,985; May 24.
- Humphreys, Charles F., and J. C. McCarthy, assignors to Armstrong Cork Company, Lancaster, Pa. Surface covering and ornamenting the same. 1,642,954; Sept. 20.

- Humphreys, Charles F., and J. C. McCarthy, assignors to Armstrong Cork Company, Lancaster, Pa. Surface covering and ornamenting the same. 1,642,955; Sept. 20.
- Humphreys, Harry S., assignor to Armstrong Cork Company, Lancaster, Pa. Rug or similar article. Des. 71,974; Feb. 8.
- Humphreys, Harry S., assignor to Armstrong Cork Company, Lancaster, Pa. Rug or similar article. Des. 72,051; Feb. 15.
- Humphreys, Harry S., assignor to Armstrong Cork Company, Lancaster, Pa. Rug or similar article. Des. 72,052; Feb. 15.
- Humphreys, Harry S., assignor to Armstrong Cork Company, Lancaster, Pa. Rug or similar article. Des. 72,097; Mar. 4.
- Humphreys, Harry S., assignor to Armstrong Cork Company, Lancaster, Pa. Rug or similar articles. Des. 72,098; Mar. 1.
- Humphreys, Omar R., Omaha, Nebr. Sewer pipe. 1,639,999; Aug. 23.
- Humphreys, Robert E., assignor to Standard Oil Company, Whiting, Ind. Distilling oils. 1,647,629; Nov. 1.
- Humphries, Chad H., assignor to Metals Protection Corporation, Indianapolis, Ind. Producing corrosion-resisting coating on iron and steel and products thereof. 1,614,808; Feb. 11.
- Humphries, Chad H., assignor to Metals Protection Corporation, Indianapolis, Ind. Producing corrosion-resisting coatings on iron and steel and product. 1,615,586; Jan. 25.
- Humphries, Chad H., Kokomo, assignor, by mesne assignments, to Metals Protection Corporation, Indianapolis, Ind. Producing corrosion-resisting coating on iron and steel and products. 1,651,278; Nov. 29.
- Humphries, Frank, Parkstone, England. Construction of bearer plates for use in presses and like machines. 1,643,893; Sept. 27.
- Humphris, Frank, Parkstone, England. Safety clutch used in presses, machinery, shafting, and the like. 1,645,383; Oct. 11.
- Humphris, Frank, Parkstone, England. Relief mechanism. 1,647,045; Oct. 25.
- Humphris, Frank, Parkstone, England. Edge-pressure plate for use in presses and like machines. 1,648,849; Nov. 8.
- Humphris, Frank, Parkstone, Dorset, England. Sheet metal. 1,650,518; Nov. 22.
- Humphris, Frank, Parkstone, assignor of one-half to K. A. Roberts, London, England. Machine for manufacturing nails or other articles from sheet or strip metal or material. 1,622,144; Mar. 22.
- Humphris, Frank, Parkstone, assignor of one-half to K. A. Roberts, London, England. Machine for manufacturing nails, brads, or the like from wire, rod, or the like. 1,632,703; June 11.
- Humphris, Frank, Parkstone, assignor of one-half to K. A. Roberts, London, England. Machine for making tacks, nails, rivets, pins, or the like. 1,647,830; Nov. 1.
- Humpton, M. R., et al. (See Nix, Neely, assignor.)
- Humpy Dumpty Stores Company. (See Stanton, Edward F.)
- Imnd, August, Bethesda, Md., assignor to Wired Radio, Inc., New York, N. Y. Condenser transmitter. 1,648,689; Nov. 8.
- Hund, August, Bethesda, Md., assignor to Wired Radio, Inc., New York, N. Y. Preparing piezo-electric plates. 1,649,828; Nov. 22.
- Hundemer, Walter F., Alameda, assignor to Cat Gun Lubricating Corporation, Oakland, Calif. Lubricating device. 1,619,126; Mar. 1.
- Hundemer, Walter F., Alameda, assignor, by mesne assignments to Cat Gun Lubricating Corporation, Oakland, Calif. High-pressure grease coupling. 1,637,612; Aug. 2.
- Hundt, Albert, Karlshorst, Germany, assignor to General Electric Company. Control of choke coil with switching in tap transformer. 1,625,539; Apr. 5.
- Hungate, Fred, Tampa, Fla., assignor of one-half to L. G. Gillaspay, Indianapolis, Ind. Oil-circulating system. 1,629,340; May 17.
- Hungerford, Churchill, Wenona, N. J. Water filter. 1,634,783; July 5.
- Hunker, Martin L. (See Wendle, V. P., and Hunker.)
- Hunkins, William S., Hollywood, Calif. Tab end. 1,618,662; Feb. 22.
- Hunkins, William S., Hollywood, Calif. Tab end. 1,621,589; Mar. 22.
- Hunt, Alex. R., San Francisco, Calif. Traffic marker. 1,640,830; Aug. 30.
- Hunt, Allan F. (See Bondeson, J. A., and Hunt.)
- Hunt, Andrew M., assignor to Standard Stoker Company, Incorporated, New York, N. Y. Conveyor for stokers. 1,640,704; Aug. 30.
- Hunt, Andrew M., New York, N. Y., assignor to Standard Stoker Company, Incorporated. Bearing. 1,647,523; Nov. 1.
- Hunt, Andrew S., Hope, Ark. Check. 1,653,100; Dec. 20.
- Hunt, Calvert R., Kansas City, Mo. Tamping and tamping machine. 1,624,734; Apr. 12.
- Hunt, Charles J., assignor of thirty-five per cent to E. G. Infield, Barnsdall, Okla. Drying apparatus. 1,623,540; Apr. 5.
- Hunt, Charles M. (See Everett, James M., assignor.)
- Hunt, Charles W. (See Schule, F. W., and Hunt.)
- Hunt, Chester. (See Baret, L. A., and Hunt.)
- Hunt, Clarence, Beulah West, Victoria, Australia. Feeding or conducting tube for agricultural drills or cultivators. 1,637,416; Aug. 2.
- Hunt, Clarence T., New Haven, assignor to W. C. Beers, Danbury, Conn. Mechanical miniature theatrical. 1,628,628; May 10.
- Hunt, Harry L., Bigelow, Mo. Oil cup. 1,636,742; July 28.
- Hunt, Harry L., Bigelow, Mo. Pitman boxing. 1,637,904; Aug. 2.
- Hunt, Harry L. and L. A., Bigelow, Mo. Pitman boxing. 1,632,480; June 14.
- Hunt, Helm, Ferris & Company. (See Ferris, Henry L., assignor.)
- Hunt, Helm, Ferris & Company. (See Ferris, Howard J., assignor.)
- Hunt, Herbert W. and P. Old Trafford, Manchester, England. Twist-drill-point grinding and thinning machine. 1,648,180; Nov. 8.
- Hunt, J. Harold. (See Budd, E. G., and Hunt.)
- Hunt, J. Harold, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Valve-stem arrangement for vehicle wheels. 1,646,863; Oct. 25.
- Hunt, John H., assignor of one-third to R. E. Martin and one-third to T. H. Greer, Providence, Ky. Land roller. 1,615,905; Feb. 1.
- Hunt, John E., and C. Ashton, Fort Jennings, Ohio. Barb-wire support. 1,618,929; Feb. 22.
- Hunt, John H. (See Chryst, W. A., and Hunt.)
- Hunt, John H. (See Kettering, C. F., and Hunt.)
- Hunt, John H. (See Wallace, H., and Hunt.)
- Hunt, John H., assignor to General Motors Research Corporation, Dayton, Ohio. Control of engine-oil heaters. 1,619,978; Mar. 8.
- Hunt, John H., assignor to General Motors Research Corporation, Dayton, Ohio. Generator-regulating apparatus. 1,622,145; Mar. 22.
- Hunt, John H., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Lighting and ignition magneto. 1,638,307; Aug. 9.
- Hunt, John H., assignor to General Motors Research Corporation, Dayton, Ohio. Battery-charging system. 1,641,386; Sept. 6.
- Hunt, John H., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Lighting and ignition system. 1,641,433; Sept. 6.
- Hunt, John H. and J. T. Fitzsimmons, assignors to General Motors Research Corporation, Dayton, Ohio. Lighting and ignition apparatus. 1,641,434; Sept. 6.
- Hunt, John H., and H. Wallace, Dayton, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Hand-pump pressure burner. 1,640,774; Aug. 30.
- Hunt, John H., J. T. Fitzsimmons, and G. F. Embshoff, assignors to The Dayton Engineering Laboratories Company, Dayton, Ohio. Fuel burner. 1,613,705; Jan. 11.
- Hunt, John O., assignor to Independent Paper Mills Inc., Brooklyn, N. Y. Paper-folding machine. 1,618,711; Feb. 22.
- Hunt, John O., assignor to Independent Paper Mills, Inc., Brooklyn, N. Y. Banding machine. 1,618,712; Feb. 22.
- Hunt, John O., Brooklyn, assignor to Independent Paper Mills, Inc., Brooklyn, N. Y. Paper folding, cutting, and delivering machine. 1,636,824; Apr. 26.
- Hunt, John O., Brooklyn, assignor to Hunt's Modern Paper Products, Inc., New York, N. Y. Paper-napkin machine. 1,653,908; Dec. 27.
- Hunt, Josephine, administratrix. (See Phillips, H., and Hunt.)
- Hunt, Leonard E., Duquesne, Pa. Rolling-mill table. 1,626,734; May 3.
- Hunt, Lincoln A. (See Hunt, Harry L. and L. A.)
- Hunt, Lloyd F. (See Butcher, C. A., and Hunt.)
- Hunt, Mabelle, Los Angeles, Calif. Copyholder. 1,616,854; Feb. 8.
- Hunt, Mary. (See Thompson, Arthur R., assignor.)
- Hunt, Mountfort E., et al. (See Frost, Walter E., assignor.)
- Hunt, Ormond E., assignor to General Motors Corporation, Detroit, Mich. Differential mechanism. 1,616,627; Feb. 8.
- Hunt, Ormond E., assignor to General Motors Corporation, Detroit, Mich. Mounting for control levers. 1,627,777; May 10.
- Hunt, Ormond E., assignor to General Motors Corporation, Detroit, Mich. Vehicle. 1,631,206; June 7.
- Hunt, Ormond E., assignor to General Motors Corporation, Detroit, Mich. Cowl light. 1,640,831; Aug. 30.
- Hunt, Ormond E., assignor to General Motors Corporation, Detroit, Mich. Brake mechanism for motor vehicles. 1,644,726; Oct. 11.
- Hunt, Percy. (See Hunt, Herbert W. and P.)
- Hunt, Rodney, Machine Company. (See Riggs, H. C., and Harris, assignors.)
- Hunt, Seth B., trustee. (See Mann, Matthew D., Jr., assignor.)
- Hunt-Spiller Manufacturing Corporation. (See Platt, John G., assignor.)
- Hunt, Warren P., assignor to The Wyllys-Overland Company, Toledo, Ohio. Transmission-lock mechanism. 1,645,192; Oct. 11.
- Hunt, William. (See Parsons, E. B., Inskeep, and Hunt.)
- Hunt, William A., Holden, W. Va. Lubricating device. 1,649,348; Nov. 15.

- Hunt, William E. (See Phillips, H. and Hunt.)
- Hunt, Wilson P., assignor to Moline Tool Company, Moline, Ill. Control and feed for boring and drilling machines, etc. 1,635,848; July 12.
- Hunter, Felix, Hillsdale, N. J., assignor to American Can Company, New York, N. Y. Semiautomatic can-closing machine. 1,639,945; Aug. 28.
- Hunter, Charles J., (See Gaskell, Walter J., assignor.)
- Hunter, David B., assignor to The Shaw-Walker Company, Muskegon, Mich. Safety device for safe doors. 1,613,755; Jan. 11.
- Hunter, Edgar K., assignor to J. R. C. August, London, England. Justification mechanism for type-composing machines. 1,647,408; Nov. 1.
- Hunter, Edward. (See Bosserdet, Alfred E., assignor.)
- Hunter, Frances H. (See Hunter, George H. and F. H.)
- Hunter, Frank E., and H. L. Hooper, Grandview, Wash. Chair support. 1,644,924; Oct. 11.
- Hunter, Frederick L., Jr., Iowaco, and S. W. Crowley, Schawken, assignors to De Forest Radio Telephone & Telegraph Co., Jersey City, N. J. Electron-discharge device. 1,647,996; Nov. 8.
- Hunter, George H. and F. H., New York, N. Y. Window-cleaning device. 1,628,669; May 17.
- Hurbin, Harry G. (See Ash, L. R., Tammen, and Hunter.)
- Hunter, Howard V., New York, N. Y., assignor to American Telephone and Telegraph Company. Multiplex telegraph system with magnitude discrimination. 1,614,555; Jan. 18.
- Hunter, Irving J., Medina, N. Y. Vapor-utilizing device. 1,637,941; Aug. 2.
- Hunter, James E., Monaca, Pa. Cast-steel freight-car spring plumb with brake-beam safety device. 1,621,014; Mar. 15.
- Hunter, John S., Coalinga, Calif. Double-acting pump. 1,629,702; May 22.
- Hunter, John S., Coalinga, Calif. Pump. 1,637,942; Aug. 2.
- Hunter, Joseph H., assignor to Detroit Insulated Wire Company, Detroit, Mich. Machine for forming armored insulated conductors. 1,640,939; Aug. 30.
- Hunter, Joseph H., assignor to Detroit Insulated Wire Company, Detroit, Mich. Nonstretchable cord. 1,644,529; Oct. 4.
- Hunter, Lewis B., Yonkers, assignor to R. T. Williams, Kensington, N. Y. Making chocolate products. 1,649,307; Nov. 15.
- Hunter, Lewis B., Yonkers, assignor to R. T. Williams, Kensington, N. Y. Apparatus for making and filling chocolate tubes. 1,649,308; Nov. 15.
- Hunter, Paul, et al. (See Hayes, James D., assignor.)
- Hunter, Percy E., assignor to Pittsburgh Annealing Box Company, Pittsburgh, Pa. Method of and apparatus for welding. 1,628,245; May 10.
- Hunter, Pierre K., Lakewood, assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Support for conveyor belts. 1,618,957; Feb. 22.
- Hunter, Ralph, New York, assignor to Hall, Hartwell & Co., Troy, N. Y. Semisoft collar. 1,642,858; Sept. 20.
- Hunter, Robert N., Charlotte, N. C. Crutch. 1,621,255; Mar. 15.
- Hunter, Samuel, Bellevue, Pa., assignor to Wappat Gear Works, York, Pa. Door-lock-mortising machine. 1,633,370; June 21.
- Hunter, William A., West Orange, N. J. Sudatory receptor pad. 1,633,586; June 28.
- Hunter, William K., assignor of one-half to M. F. Nichols, Knoxville, Tenn. Producing improved lime hydrate. 1,634,424; July 5.
- Huntington, Arthur S., Omaha, Nebr. Jar handle and producing same. 1,625,210; Apr. 10.
- Huntington, Charles S., Los Angeles, Calif. Hose reel and carrier. 1,652,718; Dec. 13.
- Huntington, Hiram H., and E. E. Towle, Richmond, Ind., assignors to International Harvester Company, Chicago, Ill. Seed-discharging mechanism. 1,613,831; Jan. 11.
- Huntington, J. T., Flint, Mich. Screen attachment. 1,647,179; Nov. 1.
- Huntington, Victor C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for advancing articles. 1,646,276; Sept. 6.
- Huntley, Willis G. (See Roberts, Frank B., assignor.)
- Huntley, Ernest R. (See Brockway, C. P. and Huntley.)
- Huntley, Ernest R., Milwaukee, Wis., assignor to Industrial Research Corporation, Toledo, Ohio. Air cleaner. 1,620,890; Mar. 15.
- Huntley, Philip C. (See Carpenter, A. H., and Huntley.)
- Huntley, Philip S. (See Frieder, L. P., Huntley, and Hollas.)
- Huntley, Willis L. et al. (See Dickie, James, assignor.)
- Huntoon, Charles F., Pasadena, Calif. Bolster spring seat stop. 1,617,811; Feb. 15.
- Huntoon, Charles F., South Pasadena, Calif. Truck bolster. 1,619,576; Mar. 1.
- Huntoon, Charles F., South Pasadena, Calif. Truck bolster. 1,619,576; Mar. 1.
- Huntoon, Charles F., Chicago, Ill. Brake beam. 1,634,995; July 5.
- Huntoon, Cullen L., Los Angeles, Calif. Band press for shoe-sole presses. 1,624,996; July 5.
- Hunt's Modern Paper Products, Inc. (See Hunt, John O., assignor.)
- Hunyady, Frank, Detroit, Mich. Vehicle braking system. 1,647,294; Nov. 1.
- Hupfel, Adolph G., Jr., New York, N. Y. Ointment. 1,615,277; Jan. 25.
- Hupfel, Adolph G., Jr., and T. M. Rector, assignor to Reimann-Hupfel, Inc., New York, N. Y. Mushroom paste. 1,633,379; June 21.
- Hupp, Loazo R., Urbana, Ohio. Drill set. 1,643,378; Sept. 27.
- Hupp Motor Car Corporation. (See Freeman, Lowell G., assignor.)
- Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)
- Hupp Motor Car Corporation. (See McDowell, La Mont A., assignor.)
- Huppert, Henry K., San Francisco, Calif. Radiotube. 1,631,035; May 31.
- Hupprich, William A., Seattle, Wash. Brake. 1,629,272; May 17.
- Hurd, Earl, assignor to Bray-Hurd Process Company, Inc., New York, N. Y. Apparatus for producing animated drawings. 1,633,547; June 21.
- Hurd, John E., Brooklyn, N. Y., assignor to Metropolitan Columbia Mfg. Co., Inc. Lighting-fixture loop or analogous article. Des. 73,034; July 12.
- Hurd, John E., Brooklyn, N. Y., assignor to Metropolitan Columbia Mfg. Co., Inc. Lighting-fixture tassel or analogous article. Des. 73,035; July 12.
- Hurd, John E., Brooklyn, N. Y., assignor to Metropolitan Columbia Mfg. Co., Inc. Backplate for lighting fixtures. Des. 73,036; July 12.
- Hurd, John E., Brooklyn, N. Y., assignor to Metropolitan Columbia Mfg. Co., Inc. Lighting-fixture canopy or analogous article. Des. 73,037; July 12.
- Hurd, Norman E., assignor to The American Hardware Corporation, New Britain, Conn. Door holder. 1,629,387; May 17.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Shut-out cylinder. 1,650,568; Nov. 22.
- Hurdling, William, Jr., et al. (See Flori, Jules L., assignor.)
- Huret, George, assignor to Societe Anonyme Jean Patou, Paris, France. Powder box. Des. 73,570; Oct. 4.
- Hurewitz, Joseph, assignor of one-half to H. Cohn and B. Aschenars, copartners under the name of American Mirror Works, and one-half to Hurewitz, doing business as Rose Novelty Co., New York, N. Y. Mirror. 1,651,771; Dec. 6.
- Hurewitz, Lena, et al. (See Hurewitz, Joseph, assignor.)
- Hurl, Lucien W., Galesburg, Ill. Baling machine. 1,639,549; May 10.
- Hurlburt Research Corporation. (See Zeldler, William A., assignor.)
- Hurlbut, Daniel C., assignor to Bennington Wax Paper Company, Bennington, Vt. Paper package and forming it. 1,630,343; May 31.
- Hurley, Charles, Jersey City, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Liquid atomizer. 1,637,113; July 26.
- Hurley, Charles, Jersey City, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Sheet-metal container. 1,646,587; Oct. 25.
- Hurley, George, Rockland, Mass. Shank stiffener for shoes. 1,624,001; Apr. 12.
- Hurley, John C., Newark, N. J. Machine for computing wages. 1,617,040; Feb. 15.
- Hurley, Joseph M., assignor to D. C. McClain, Minneapolis, Minn. Card holder. 1,630,946; Aug. 23.
- Hurley, Joseph M., assignor to D. O. McClain, Minneapolis, Minn. Filing device. 1,644,676; Oct. 11.
- Hurley Machine Company. (See Fisher, Alva J., assignor.)
- Hurley, Mike N., Whittier, Calif. Automobile bumper. 1,639,418; July 12.
- Hurley, Raymond D., and B. H. Patton, assignors to Rolland Glass Company, Clarksburg, W. Va. Glass-drawing apparatus. 1,631,097; May 31.
- Huron Industries, Inc. (See Rydner, Gustaf W., assignor.)
- Huron Manufacturing Co. (See Elstone, Stanley W., assignor.)
- Hurst, Albert E., assignor to Textile Publishing Company, New York, N. Y. Pictorial illustration. 1,649,959; Nov. 22.
- Hurst, George H., Jr., assignor to S. M. Hurst, Sumter, S. C. Hydraulic blood aspirator for embalming. 1,617,254; Feb. 8.
- Hurst, James E., and F. B. Ball, assignors to Centrifugal Castings Limited, Kilmnrock, Scotland. Metal-pouring apparatus for centrifugal casting machines. 1,626,342; Apr. 26.
- Hurst, John W., Minneapolis, Minn. Trolley retriever. 1,646,585; Oct. 25.
- Hurst, S. M. (See Hurst, George H., Jr., assignor.)
- Hurst, Willis T., Pittsburgh, Pa. Slag-casting apparatus. 1,616,855; Feb. 8.
- Hurt, Helen J., New York, N. Y. Method of and composition for transferring designs, pictures, and the like. 1,629,165; May 17.

- Hurt, John C., et al. (See Boone, D. C., and Burkett, assignors.)
- Hurt, William P., et al. (See Jones, Henry R., assignor.)
- Hürtle, Karl. (See Baumeister, H., Dörr, and Hürtle.)
- Hürtle, Karl, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Outer cover on rigid airships. 1,623,680; Apr. 5.
- Hürtle, Karl, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gas-inflated airship. 1,637,774; Aug. 2.
- Hürtle, Karl, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Airship. 1,642,026; Sept. 13.
- Hurwitz, Hermann, & Co. (See Fabian, Emanuel, assignor.)
- Hurwitz, Hermann, and Co. (See Weide, Rudolf, assignor.)
- Hurwitz, Israel R. (See Morrison, William E., assignor.)
- Hurxthal, Alpheus O. (See Kershaw, F., and Hurxthal.)
- Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Girt for loop driers. 1,613,460; Jan. 4.
- Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Rack dryer for brake linings and other strip material. 1,624,735; Apr. 12.
- Huseby, Edmond A., Chicago, Ill. Tempo box. 1,636,911; July 26.
- Hush, Ralph, Johannesburg, Transvaal, South Africa. Machine for breaking ore and other minerals. 1,626,535; Apr. 26.
- Husky Wrench Co. (See Mandl, Sigmund, assignor.)
- Husman, William, La Porte City, Iowa. Motor governor. 1,632,278; Dec. 13.
- Huss, Frank, Elizabeth, N. J. Cuspidor container. 1,638,441; Aug. 9.
- Hussar, William B., St. Louis, Mo. Vehicle traffic signal. 1,634,361; July 5.
- Hussey, Chester L., Holyoke, Mass. Attaching snowplows, back fillers, and the like to the drawbars of tractors. 1,640,731; Oct. 26.
- Hussey, Pliny E., Beverly, Mass. Ice-cutting machine. 1,648,181; Nov. 8.
- Hussey, William A. (See Masters, F. E., and Hussey.)
- Hussong Dyeing Machine Company. (See Thompson, James H., assignor.)
- Husud, Masao M., assignor of one-half to O. J. Orton.
- Ortley, S. Dak. Ledger plate fastener for guard fingers. 1,629,793; May 24.
- Husted, Harry F., Shavertown, assignor of one-third to E. C. Wideman and one-third to H. D. Levy, Wilkes-Barre, Pa. Shade roller. 1,624,053; Apr. 12.
- Huston, Charles L., Coatesville, Pa. Simultaneous intensifier feed for separate shears. 1,616,856; Feb. 8.
- Huston, Charles L., Coatesville, Pa. Facing shears for cutting heavy sheet metal. 1,617,486; Feb. 15.
- Huston, Tom, assignor to C. B. Medley, Columbus, Ga. Tractor plow. 1,637,525; Aug. 2.
- Husztig-Horvath, Ferdinand, New York, N. Y. Photographic album. 1,625,724; Apr. 19.
- Hutchens, Edward, Milwaukee, Wis. Pulp-forming press. 1,623,731; Apr. 5.
- Hutchens, Edward, Milwaukee, assignor to Utility Manufacturing Co., Cudahy, Wis. Horizontal bead flipper. 1,623,730; Apr. 5.
- Hutchens, Howard O., and C. A. Kessler, assignors to Gillette Rubber Co., Eau Claire, Wis. Flexible gasket for tire molds. 1,625,894; Apr. 26.
- Hutchens, Howard O., and A. R. Krause, assignors to Gillette Rubber Company, Eau Claire, Wis. Tire-tread-applying machine. 1,632,652; June 14.
- Hutchens, Ralph W., assignor to Gillette Rubber Company, Eau Claire, Wis. Tire or similar article. Des. 72,263; Mar. 22.
- Hutchings, Charles. (See Eldred, F. H., and Hutchings.)
- Hutchings, Joseph L., Olean, N. Y. Drain device. 1,617,333; Feb. 15.
- Hutchings, Joseph L., Olean, N. Y. Repair tool. 1,617,812; Feb. 15.
- Hutchings, Joseph L., Olean, N. Y. Drain device. 1,621,164; Mar. 15.
- Hutchings, Joseph L., Olean, N. Y. Draining valve. 1,621,165; Mar. 15.
- Hutchings, Joseph L., Olean, N. Y. Drain valve. 1,627,606; May 10.
- Hutchings, Le Roi E. (See Rand, J. H., jr., and Hutchings.)
- Hutchins Car Roofing Company. (See Fitzpatrick, John T., assignor.)
- Hutchins Car Roofing Company. (See Franck, Edwin G., assignor.)
- Hutchins Car Roofing Company. (See Hawksworth, David W., assignor.)
- Hutchins Car Roofing Company. (See Thompson, William D., assignor.)
- Hutchins Car Roofing Company. (See Wilson, Alfred R., assignor.)
- Hutchins, Colin, Leamington, Ontario, Canada. Collapsible mold core. 1,632,899; June 21.
- Hutchins, Colin, Leamington, Ontario, Canada. Wall mold. 1,632,490; Dec. 13.
- Hutchins, Elliott H., Baltimore, Md. Invalid-bed elevator. 1,645,908; Oct. 18.
- Hutchins, Ernest B., Bangor, Me. Vehicle ventilating apparatus. 1,618,152; Feb. 15.
- Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picking shoe for looms. 1,651,603; Dec. 6.
- Hutchins, George F., assignor to Crompton and Knowles Loom Works, Worcester, Mass. Let-off and tension mechanism for looms. 1,654,126; Dec. 27.
- Hutchins, George H. (See Fitz Gerain, C. H., and Hutchins.)
- Hutchins, James E., Buford, Ga. Slot machine. 1,613,200; Feb. 22.
- Hutchinson, Ely C., Oakland, assignor to The Pelton Water Wheel Co., San Francisco, Calif. Attaching rubber seal rings in metal containers. 1,630,012; May 24.
- Hutchinson, Ely C., and C. V. Foulds, Oakland, assignors to The Pelton Water Wheel Company, San Francisco, Calif. Water-tight seating for butterfly valves and such. 1,624,891; Apr. 12.
- Hutchinson, George, assignor to Hutchinson Scale Company, Sheboygan, Wis. Indicator device for instruments. 1,635,479; July 12.
- Hutchinson, George, assignor to Hutchinson Scale Company, Sheboygan, Wis. Indicator device for instruments. 1,646,819; Oct. 25.
- Hutchinson, Henry B. (See Richards, E. H., and Hutchinson.)
- Hutchinson, Howard M., Brock, Nebr. Wrench. 1,627,778; May 10.
- Hutchinson, Job, Saugerties, N. Y. Liquid-fuel vaporizer. 1,624,239; Apr. 12.
- Hutchinson, Job, Saugerties, N. Y. Washing and wringing machine. 1,627,438; May 3.
- Hutchinson, Joseph, Philadelphia, Pa. Woodworking machine. 1,617,211; Feb. 8.
- Hutchinson, Robert, Nottingham, assignor to Woodlands, Limited, Dover, England. Heat treatment of wheaten cereals. 1,634,259; July 5.
- Hutchinson Scale Company. (See Hutchinson, George, assignor.)
- Hutchinson, Uriah, assignor, by mesne assignments, to Motor Patents Corporation, New York, N. Y. Rotary internal-combustion engine. 1,614,476; Jan. 18.
- Hutchinson, William A., Orlando, Fla. Wheel structure. 1,643,379; Sept. 27.
- Hutchinson, F. Los Angeles, Calif. Producing camera copy for the photo-engraver. 1,614,924; Jan. 18.
- Hutchison, Benjamin F., Los Angeles, Calif. Producing multicolor printing plates. 1,614,925; Jan. 18.
- Hutchison, Benjamin F., Los Angeles, Calif. Art of photogravure color printing. 1,618,533; Feb. 22.
- Hutchison, Benjamin F., Los Angeles, Calif. Art of halftone photo-engraving color printing. 1,618,534; Feb. 22.
- Hutchison, Charles B., Parsons, Kans. Speed-controlling mechanism for motors. 1,625,545; Apr. 19.
- Hutchison, Charles E., Mount Holly, N. C. Chain-wrapping machine. 1,613,832; Jan. 11.
- Hutchison, Francis A., Wimbledon Park, England. Detachable heel for boots, shoes, clogs, and the like footwear. 1,639,433; Aug. 16.
- Hutchison, Miller R. (See Schick, Jacob, assignor.)
- Hutchison, Miller R., Llewellyn Park, N. J., assignor to The Safety Car Heating & Lighting Company. Power transmission. 1,615,544; Jan. 25.
- Hutchison, Robert A., jr., Bridgeton, N. J. Oil burner. 1,647,732; Nov. 1.
- Hutchison, Thomas S., Chicago, Ill. Combination tool. 1,636,637; July 19.
- Huth, Carl, Stuttgart, assignor to the Firm Feodor Burgmann, Dresden-Laubag, Germany. Packing of rotary shafts. 1,622,911; Mar. 29.
- Huth, Dr. Erich F., G. m. b. H. (See Messtorff, Gerhard, assignor.)
- Huth, Dr. Erich F., G. m. b. H. (See Kühn, Ludwig, assignor.)
- Huth, Walter H., Chicago, Ill. Electrical condenser. 1,633,019; June 21.
- Huther Brothers Saw Mfg. Company. (See Stauder, Emanuel, assignor.)
- Huther, William F., Canton, Ohio. Rail-clamping device. 1,647,701; Nov. 1.
- Hutnick, Theodore, Brooklyn, N. Y., assignor to Voices Incorporated, Newark, N. J. Voice for toys. 1,642,956; Sept. 20.
- Hutts, Ernest O., assignor of one-half to C. L. Fowler, Athens, Tenn. Lawn mower. 1,647,807; Nov. 1.
- Huttsell Motor Company. (See Huttsell, Thomas A., assignor.)
- Huttsell, Thomas A., assignor to Huttsell Motor Company, Spokane, Wash. Piston. 1,625,943; Apr. 26.
- Huttsell, Thomas A., assignor to Huttsell Motor Company, Spokane, Wash. Internal-combustion engine. 1,645,647; Oct. 18.
- Hutson, Roy D., Rosendale, Mo. Tool brace. 1,623,541; Apr. 5.
- Hutt, Albert E., Ardmore, Pa. Semi-inclosed, collapsible, upper deck roof. 1,631,818; June 7.
- Hutt, Joseph. (See Young, A. F., and Hutt.)
- Hutt, Leonard P. (See Murphy, E. J., and Hutt.)
- Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Valve. 1,624,730; Apr. 12.

- Hutt, Leonard P. Schenectady, N. Y., assignor to General Electric Company. Combined automatic and manual circuit controller. 1,637,042; July 26.
- Huttig, Ernst W. (See Goldman, M. S., and Huttig.)
- Huttlinger, Charles A., Lakewood, assignor by mesne assignments, to The Acme Rayon Corporation, Cleveland, Ohio. Producing threads from viscose. 1,646,538; Oct. 25.
- Hutton, Albert D. Minneapolis, Minn. Liquid-dispensing device. 1,634,570; July 5.
- Hutton, Earl S., Detroit, Mich. Locking mechanism. 1,626,197; Apr. 26.
- Hutton, Edward S., Muskogee, Okla. Rotary well drill. 1,638,537; Aug. 9.
- Hutton, Henry T., Donaghadee, Ireland. Lock nut. 1,639,407; Aug. 16.
- Hutton, James. (See Petter, E. W., and Hutton.)
- Hutton, Ulric O., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for effecting and regulating a flow of fluid. 1,630,943; May 31.
- Huwiler, Anton, Basel, Switzerland. Clutch actuated by liquid under pressure. 1,642,957; Sept. 20.
- Huyard, Henri, San Francisco, Calif. Window-sash attachment. 1,620,817; Mar. 15.
- Huyck, F. C., & Sons. (See Wilson, Ezekiel J., assignor.)
- Huye, Joseph G., New Orleans, La. Box. 1,641,974; Aug. 13.
- Huyett, Daniel D., assignor to Atlas Powder Company, Wilmington Del. Automatic dwell-control device for embossing presses. 1,641,632; Sept. 6.
- Huyette, Paul B., assignor to Paul B. Huyette Co., Incorporated, Philadelphia, Pa. Adapter for water gauges. 1,615,204; Jan. 18.
- Huyette, Paul B., Co. (See Huyette, Paul B., assignor.)
- Huyser, William W., Pueblo, Colo. Curtain bracket. 1,620,820; May 24.
- Hyatt, Charles D., assignor to Homer Furnace Company, Waterbury, Conn. 1,630,013; May 24.
- Hyatt, Charles D., assignor to Homer Furnace Company, Coldwater, Mich. Furnace casing. 1,634,543; July 5.
- Hyatt, Charles H., Cottagewood, Minn. Traction device for motor vehicles. 1,625,028; Apr. 19.
- Hyatt, Frank S., Brooklyn, N. Y. Socket and plug connection. 1,629,166; May 17.
- Hyatt, Raymond D., assignor to The D. L. Auld Company, Columbus, Ohio. Name-plate-fastening device. 1,649,473; Nov. 15.
- Hyatt, Samuel W., assignor to Indiana Lamp Corporation, Connersville, Ind. Adjusting device. 1,637,417; Aug. 2.
- Hybinette, Noah V., Ottawa, Ontario, Canada. Manufacture of malleable nickel. 1,628,149; May 10.
- Hyde, A. Fillmore. (See Simonds, Francis M., assignor.)
- Hyde, Archie L., Santa Cruz, Calif. Apparatus for viewing pictures with the illusion of relief. 1,616,867; Feb. 8.
- Hyde, Burdon P., assignor to Scovill Manufacturing Company, Waterbury, Conn. Loose-powder vanity box. 1,647,004; Oct. 25.
- Hyde Engineering Company. (See Hyde, Henry W., assignor.)
- Hyde, Henry W., North Cobasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,643,811; Sept. 27.
- Hyde, John, Albion Township, Rene County, Kans. Lug-gage carrier. 1,625,808; Apr. 26.
- Hyde, Leon W., Hillsboro, Oreg. Coffeepot. 1,631,486; June 7.
- Hyde, Reed W., Summit, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating mercury-bearing ores. 1,650,360; Nov. 22.
- Hyde, Robert C., Des Moines, Iowa. Annular exhaust tip. 1,649,698; Nov. 15.
- Hyde, Rollin M., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Refrigerating unit. 1,641,853; Sept. 6.
- Hydorn, Rex, and D. Forsyth, Bonners Ferry, Idaho. Seat for barbers' chairs. 1,630,432; May 31.
- Hydraulic Brake Company. (See Loughend, Malcolm, assignor.)
- Hydraulic Brake Company. (See Sherbino, Morton R., assignor.)
- Hydraulic-Press Brick Company. (See McArdie, Montrose F., assignor.)
- Hydraulic Press Manufacturing Company, The. (See Ernst, Walter, assignor.)
- Hydraulic Specialty Manufacturing Company, The. (See McKinney, Edward H., assignor.)
- Hydraulic Steel Company, The. (See Culhane, Patrick J., Jr., assignor.)
- Hydraulic Steel Company, The. (See Irish, William E., assignor.)
- Hydrocarbon Refining Process Co., The. (See McMichael, Paul, assignor.)
- Hydro Refrigerator Company. (See Potter, Thomas I., assignor.)
- Iyer, Floyd R., Boynton, Okla. Well. 1,647,630; Nov. 1.
- Iykon Manufacturing Company, The. (See Hick, Harry D., assignor.)
- Ireland, Charles, Leeds, England. Rheostat for liquid-level indicators. 1,641,491; Sept. 6.
- Ireland Stanford Company, The. (See Korner, J. H., and Stanford, assignors.)
- Ishlarsden, Walter, Granville, Iowa. Animal forceps. 1,619,299; Mar. 1.
- Hyde, Jacob A., Atlantic City, N. J., and N. H. Scott, Philadelphia, Pa., assignors to Continental Railway Supply Corporation. Rail anchor for railways. 1,622,036; Mar. 22.
- Hy-Lo Unit & Metal Products, Inc. (See Atherton, Charles, assignor.)
- Hyman, Bettie, Richmond Hill, N. Y. Holder for nursing bottles. 1,635,789; July 12.
- Hyman, Elias, New York, N. Y. Reversible folded stair covering. 1,635,084; July 5.
- Hyman, Henry. (See Muldoon, Bernard F., assignor.)
- Hyman, Henry, & Co. (See Kleinman, Jack, assignor.)
- Hyman, Henry, & Co. (See Rubin, Abraham, assignor.)
- Hyman, & Oppenheim. (See Oppenheim, Jesse, assignor.)
- Hymanus, Frederick, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Compensating rope for hoisting apparatus. 1,625,083; Apr. 19.
- Hymanus, Frederick, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Roping for hoisting apparatus. 1,625,084; Apr. 19.
- Hymanus, Frederick, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety appliance. 1,653,909; Dec. 27.
- Hymanus, Frederick, Philadelphia, Pa. Power transmission. 1,643,357; Oct. 4.
- Hymer, Ralph N., New Berg, Oreg. Comb. 1,633,893; June 28.
- Hyman, Arthur C., Chicago, Ill. Demountable wheel. 1,649,349; Nov. 15.
- Hynes & Cox Electric Corporation. (See Hynes, L. P., and Hynes, assignors.)
- Hynes, Lee P., Albany, assignor to Consolidated Car-Heating Company, Albany, N. Y. Thermostat. 1,617,487; Feb. 15.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Motor system for car doors. 1,627,180; Mar. 8.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Overload relay for electric heaters. 1,635,674; July 12.
- Hynes, Lee P., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Car-door operation. 1,643,454; Sept. 27.
- Hynes, Lee P., and H. A. Williams, assignors to Hynes & Cox Electric Corporation, Albany, N. Y. Thermostat. 1,650,942; Nov. 29.
- Hyninen, Armas F. (See Hallenberg, H. D., and Hyninen, assignor.)
- Hyperbo-Electric Flow Meter Co. (See Epstein, Hirsch, assignor.)
- Hyrup, Hans K., Los Angeles, Calif. Internal pipe threader and chaser. 1,614,197; Jan. 11.
- I. & C. Company. (See Packer, Eben R., assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Benda, Ludwig, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Benda, Louis, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Benda, L., and Sievers, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Bosch, Carl, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Doerr, Georg L., assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Ernst, O., and Sievers, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Gunzler, H., and Zieser, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Heinze, Fritz, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Herrdegen, Kurt, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Herzberg, W., and Ohlendorf, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Jannek, Josef, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Jannek, J., Witzel, and Stoeuener, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Jellinek, K., and Christ, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Jensch, Heinrich, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Kaltwasser, O., and Kochhoff, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Kirchhausen, Theodor, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Klatte, F., and Söll, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Krannich, W., Krizkalla, and Schuster, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Kropp, Walter, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Langer, Hans, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Lohöfer, Wilhelm, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Lommel, Wilhelm, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Lueg, P., and Thienemann, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Lüttinghaus, A., Nereshelmer, and Wolff, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Miller, Alfred, assignor.)

- I. G. Farbenindustrie Aktiengesellschaft. (See Moschel, W., and Siedler, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Müller, Cunardi, Martin, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Müller, Wilhelm, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Nawla-sky, P., Zahn, and Saurwein, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Neresheimer, Heinrich, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Neresheimer, H., and Emmer, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Petzold, G., and Ritter, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Pistor, Gustav, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Polikier, H., and Hähle, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Prill-witz, Hans, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Sander, Fritz, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Schatz, Hermann, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Schlade-bach, H., and Hähle, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Schuloff, Robert, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Siedler, Philipp, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Spengler, Oscar, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Spengler, O., Virck, and Weldenhagen, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Streitwolf, O., and Hanelichen, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Thiene-mann, Heinz, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Von Weinberg, A., and Schmidt, assignors.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Wagner, Hermann, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Weise, Paul, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Wiss, Ernst, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Wurz-schmitt, Bernhard, assignor.)
- I. G. Farbenindustrie Aktiengesellschaft. (See Zitscher, A. and Schmitt, assignors.)
- Iacovino, Pietro, New York, N. Y. Arch supporter 1,643,812; Sept. 27.
- Iarussi, Dominick. (See Benl, F. and Iarussi.)
- Ibele, Walter C., Euclid Village, Ohio, assignor to General Electric Company. Cement for incandescent-lamp fila-ments. 1,641,761; Sept. 6.
- Ice Cream Snack Products Company. (See Baier, Lud-wig S., assignor.)
- Ice, Herbert H., Muskogee, Okla. Duplex oil-well pump-ing power. 1,637,571; Aug. 2.
- Iceless Automatic Refrigerator Company. (See Jankus, Jack C., assignor.)
- Iceless Automatic Refrigerator Company. (See Otto, S., and Jankus, assignors.)
- Ierle, Bartlett, New York, N. Y. Vehicle fender and brake. 1,642,879; Sept. 20.
- Icy-O Metal Products Company. (See Howells, Morgan assignor.)
- Iddings, Frank A., Warren, Ohio. Nonevaporating oil tank. 1,628,246; May 10.
- Ide, Harry H., La Grange, assignor to Kellogg Switch-board and Supply Company, Chicago, Ill. Transformer. 1,652,203; Dec. 13.
- Ideal Brake Reliner Company. (See Hird, John B., as signor.)
- Ideal Electric & Manufacturing Company, The. (See Putnam, Henry V., assignor.)
- Ideal Heating Equipment Company, The. (See Preston, Bruce B., assignor.)
- Ideal Removable Body Company. (See Baxter, William M., assignor.)
- Ideal Wrapping Machine Company. (See Sergeant, Wal-ter H., assignor.)
- Iding, Matthew P., and W. A. Nintz, Milwaukee, Wis., said Nintz assignor to said Iding. Composition. 1,635,675; July 12.
- Iderda, Hanso H. S. & S., The Hague, Netherlands. Method and arrangement for high-frequency telephony 1,648,402; Nov. 8.
- Ihln, Alois, Berlin-Charlottenburg, Germany, assignor to General Electric Company. Arc light. 1,640,450; Aug. 30.
- Ihn, Charles, Baltimore, Md. Spray nozzle. 1,620,209; Mar. 8.
- Ihriz, Harry K. (See Wallace, G. W., and Ihriz.)
- Ihrsky, Vojtech, Bela Pri Varin, Czechoslovakia. Type writer. 1,651,455; Dec. 6.
- Ike, Lester B., Plainville, Nebr. Automobile bed. 1,649,233; Nov. 15.
- Ikeda, Iwao, Sendai, Japan. Measuring maximum cur-rent. 1,632,136; June 14.
- Ikeda, Kikumae, and H. Isobe, Tokyo, and T. Okazawa, Kitatoshima-Gori, assignors to Zaidan Hojin Rikagaku Kenkyukai, Tokyo, Japan. Making an adsorbent and the product thereof. 1,630,660; May 31.
- Ile, William. (See Stuart, Colin, assignor.)
- Ille, William, assignor to Reynolds Spring Company, Jackson, Mich. Cord connector. 1,627,286; May 3.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Electric switch. 1,628,884; May 17.
- Ille, William, assignor to Reynolds Spring Company, Jackson, Mich. Push-through switch. 1,630,433; May 17.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Duplex receptacle. 1,633,668; June 28.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Electric switch. 1,635,044; July 5.
- Ille, William, assignor to Reynolds Spring Company, Jackson, Mich. Cap and shell fastening for lamp socket casings. 1,635,323; July 12.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Combined lamp socket and current tap. 1,635,889; July 12.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Double lamp socket. 1,638,935; Aug. 16.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Two-way socket. 1,641,277; Sept. 6.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Three-way socket. 1,644,593; Oct. 4.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Three-way cap tin-type socket. 1,645,240; Oct. 11.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Table tap. 1,645,241; Oct. 11.
- Ille, William, assignor to Reynolds Spring Company, Jack-son, Mich. Electric lamp socket. 1,645,860; Oct. 18.
- Illeite Electric Manufacturing Corporation. (See Giles, Isaac F., assignor.)
- Ilg Electric Ventilating Company. (See Frank, John M., assignor.)
- Ilg Electric Ventilating Company. (See Frank, J. M., and Sutcliffe, assignors.)
- Ilg Electric Ventilating Company. (See Ilg, Robert A., assignor.)
- Ilg, Robert A., assignor to Ilg Electric Ventilating Com-pany, Chicago, Ill. Unit for ventilating systems. 1,643,379; Feb. 22.
- Iligan, Hattie, East Elmhurst, N. Y. Window shade. 1,630,344; May 31.
- Illich, Amson G., New York, N. Y., assignor to Campbell Metal Window Corporation, Baltimore, Md. Sash lift. 1,628,005; May 10.
- Illeman, William, Kilmarnock, Glasgow, Scotland. Coating concrete pipes and hollow bodies with bituminous compositions. 1,636,367; July 19.
- Illeg, Adam, New York, N. Y. Clear holder. 1,641,538; Sept. 6.
- Illeg, Carl, Brooklyn, N. Y. Tailor's cutting knife. 1,614,243; Jan. 31.
- Illingworth Carbonization Company, The. (See Illing-worth, Stewart R., assignor.)
- Illingworth, Stewart R., Radyr, Wales, assignor to The Illingworth Carbonization Company, Limited, Man-chester, England. Apparatus for the manufacture of carbonized fuel. 1,645,861; Oct. 18.
- Illinois Cork Co. (See Collins, Peter, assignor.)
- Illinois Refrigerator Company. (See Green, Fred C., as-signor.)
- Illinois Tool Works. (See Olson, Carl G., assignor.)
- Illinois Tool Works. (See Olson, C. G., and England, as-signors.)
- Illinois Watch Case Company. (See Bates, George T., May 10.)
- Illinois Watch Case Company. (See Bowen, George W., assignor.)
- Illinois Watch Case Company. (See Edelstein, Edwin, as-signor.)
- Illinois Watch Case Company. (See Lester, William H., assignor.)
- Illinois Watch Case Company. (See Wakefield, Frank E., assignor.)
- Illuminating Products Co. (See Chapman, Nathan E., assignor.)
- Imbery, Arthur. (See Alexander, H., and Imbery.)
- Imbrinck, Joseph, Brooklyn, N. Y. Knitting machine. 1,628,007; May 10.
- Imbus, Alphonse E. (See Konerman, H. H., and Imbus.)
- Imhoff, Karl, Essen, Germany. Apparatus for sewage treatment by activated sludge in combination with sludge digestion. 1,642,206; Sept. 13.
- Imhof, Karl, Essen, Germany. Fish pond with sewage supply. 1,643,273; Sept. 20.
- Imhoff, Max. (See Berg, O., and Imhoff.)
- Immenhöfer, Eugen. (See Bergmann, M., Immenhöfer, and Locwe.)
- Imperial Brass Manufacturing Company, The. (See Mc-Intosh, Robert D., assignor.)
- Imperial Brass Manufacturing Company, The. (See Rudolph, Walter J., assignor.)
- Imperial Oil, Limited. (See Leaver, Charles, assignor.)
- Imperial Typewriter Company Limited. (See Pateman, Arthur, assignor.)
- Impey, Robert E. (See Hein, G. N., Platt, and Impey.)
- Improved Oil-Resistant Partition Co. (See Winogradoff, Alexan-der, assignor.)
- Improved Paper Machinery Company. (See Reed, H. J., and Spafford, assignors.)
- Imschweller, John, Inglewood, Calif. Chicken fountain. 1,642,926; Sept. 20.

- Inset. Otto, Oslo, Norway. Writing implement. 1,635,624; July 12.
- Imus, James H., Boardman, Oreg. Weeder. 1,637,862; Aug. 2.
- In-A-Wall Safe Company. (See Belknap, Samuel L., assignor.)
- Independent Francis S., Los Angeles, Calif. Folding portable bed. 1,638,097; July 19.
- Independent Lock Company. (See Falk, Morris, assignor.)
- Independent Paper Mills, Inc. (See Horwitt, Paul H., assignor.)
- Independent Paper Mills Inc. (See Hunt, John O., assignor.)
- Independent Pneumatic Tool Company. (See Forss, Frithiof P., assignor.)
- Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)
- Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)
- Indian Territory Illuminating Oil Company. (See Pierce, Homer R., assignor.)
- Indiana Canning Machinery Company. (See Brass, Edward E., assignor.)
- Indiana Canning Machinery Company. (See Lindley, Stacey B., assignor.)
- Indiana Fibre Products Company. (See Bell, G. A., and Carson, assignors.)
- Indiana Glass Company. (See Haley, Reuben, assignor.)
- Indiana Lamp Corporation et al. (See Foster, Harry C., assignor.)
- Indiana Lamp Corporation. (See Foster, Harry C., assignor.)
- Indiana Lamp Corporation. (See Hyatt, Samuel W., assignor.)
- Indiana Lamp Corporation. (See Neuner, Frederick W. C., assignor.)
- Indiana Lamp Corporation. (See Robour, Chris W., assignor.)
- Individual Drinking Cup Company. (See Dawson, Cecil F., assignor.)
- Individual Drinking Cup Company. (See Wessman, Edwin G., assignor.)
- Individual Drinking Cup Co. Inc. (See Dawson, C. F., and Wessman, assignors.)
- Individualizing Company of Illinois. (See Magnus, E. G., and Dosch, assignors.)
- Industrial Appliance Company. (See Logan, John L., assignor.)
- Industrial Associates, Incorporated. (See Jones, Arthur B., assignor.)
- Industrial Associates, Incorporated. (See Riley, Champlain L., assignor.)
- Industrial Chemical Company. (See Wickenden, L., and Wickenden, assignors.)
- Industrial Chemical Company. (See Wickenden, L., and Okell, assignors.)
- Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
- Industrial Research Corporation. (See Boughton, Solon P., assignor.)
- Industrial Research Corporation. (See Brockway, Carl P., assignor.)
- Industrial Research Corporation. (See Brockway, C. P., and Huntley, assignors.)
- Industrial Research Corporation. (See Buchenberg, Albert E., assignor.)
- Industrial Research Corporation. (See Chilton, Ralph H., assignor.)
- Industrial Research Corporation. (See Davies, Henry R., assignor.)
- Industrial Research Corporation. (See Huntley, Ernest R., assignor.)
- Industrial Research Corporation. (See Manchester, Clyde C., assignor.)
- Industrial Spray-Drying Corporation. (See Holliday, Robert L., assignor.)
- Industrial Spray-Drying Corporation. (See Zlzinia, Paul T., assignor.)
- Industrial Technics Corporation. (See Arsem, William C., assignor.)
- Industrial Waste Products Corporation. (See Dickerson, Walter H., assignor.)
- Industriebedarf G. m. b. H. (See Mertens, Robert, assignor.)
- Infield, Earl G. (See Hunt, Charles J., assignor.)
- Inglis, Joseph B., Chicago, Ill. Coin bank. 1,619,073; Mar. 1.
- Inglis, Willde A., Richmond, Va. Roadside signal. 1,651,126; Nov. 29.
- Inglis, James, Muskegon, Mich. Dirigible headlight. 1,648,349; Nov. 8.
- Ingersoll, Charles A., Portland, assignor to The Russell Manufacturing Company, Middletown, Conn. Transmission band. 1,653,399; Dec. 20.
- Ingersoll, George B., Dearborn, assignor, by mesne assignments, to Federal Motor Truck Company, Detroit, Mich. Vehicle construction. 1,641,933; Sept. 6.
- Ingersoll, Howard L., White Plains, N. Y. Locomotive. 1,615,464; Jan. 25.
- Ingersoll, Howard L., White Plains, N. Y. Corrugated wall plate. 1,627,392; May 3.
- Ingersoll, Joseph, assignor to J. B. Patterson, Los Angeles, Calif. Ladder construction. 1,616,899; Feb. 8.
- Ingersoll, Leonard R., Madison, Wis. Eye model. 1,630,944; May 31.
- Ingersoll Milling Machine Company, The. (See Fish, Samuel W., assignor.)
- Ingersoll Milling Machine Company, The. (See Johnson, John R., assignor.)
- Ingersoll Milling Machine Company, The. (See Malone, Frank J., assignor.)
- Ingersoll-Rand Company. (See Allen, Roy O., assignor.)
- Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)
- Ingersoll-Rand Company. (See Bancel, P. A., and Kirgan, assignors.)
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- Ingersoll-Rand Company. (See Bayles, L. C., and Morrow, assignors.)
- Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)
- Ingersoll-Rand Company. (See Brackett, John C., assignor.)
- Ingersoll-Rand Company. (See Goodwillie, John E., assignor.)
- Ingersoll-Rand Company. (See Ha'ight, Harry V., assignor.)
- Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
- Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)
- Ingersoll-Rand Company. (See Hulshizer, George W., assignor.)
- Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
- Ingersoll-Rand Company. (See Kirgan, John F., assignor.)
- Ingersoll-Rand Company. (See Le Valley, John, assignor.)
- Ingersoll-Rand Company. (See Lear, Earl B., assignor.)
- Ingersoll-Rand Company. (See Lee, Gordon, assignor.)
- Ingersoll-Rand Company. (See Levine, Hyman, assignor.)
- Ingersoll-Rand Company. (See Longacre, Frederick van D., assignor.)
- Ingersoll-Rand Company. (See Lundstrom, Arthur G., assignor.)
- Ingersoll-Rand Company. (See Metzgar, Chester W., assignor.)
- Ingersoll-Rand Company. (See Mock, John F., assignor.)
- Ingersoll-Rand Company. (See Morrison, William A., assignor.)
- Ingersoll-Rand Company. (See Naab, Julius, assignor.)
- Ingersoll-Rand Company. (See Page, Robert F., assignor.)
- Ingersoll-Rand Company. (See Peters, Arthur E., assignor.)
- Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
- Ingersoll-Rand Company et al. (See Rathbun, Edward, assignor.)
- Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)
- Ingersoll-Rand Company. (See Rudlin, Frederick W., assignor.)
- Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
- Ingersoll-Rand Company. (See Smiclie, Raymond H., assignor.)
- Ingersoll-Rand Company. (See Smith, William A., assignor.)
- Ingersoll-Rand Company. (See Zimmermann, William F., assignor.)
- Ingham, Edward S., assignor to Budd Wheel Company, Philadelphia, Pa. Wheel-straightening machine. 1,650,216; Nov. 22.
- Ingham, Robert A., Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Pocket tire tester. 1,616,628; Feb. 8.
- Ingham, Walter E., Newington, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Ball-turning device. 1,626,986; May 3.
- Ingram, Howard T., et al, trustees. (See Ingham, Howard T., assignor.)
- Ingram, Howard T., assignor of one-fourth to L. Kraus, H. T. Ingham, and G. Schaefer, trustees of the trust doing business as The Universal Harvester Company, Kansas City, Mo., and one-fourth to Universal Harvester Corporation. Standing-grain thrasher. 1,626,366; Apr. 19.
- Ingles, Edward L., Indianapolis, Ind. Apparatus for preventing incrustation of water coils. 1,642,610; Sept. 13.
- Inglis, Alfred H., Orange, N. J., assignor to American Telephone and Telegraph Company. Substation circuits. 1,618,201; Feb. 22.
- Inglis, Bruce K., assignor of one-half to C. W. Inglis, Milwaukee, Wis. Oil burner. 1,631,374; June 7.
- Inglis, Clement W. (See Inglis, Bruce K., assignor.)
- Inglis, Henry B., Dayton, Ohio. Gun sight. 1,650,628; Nov. 29.
- Ingman, Andrew, Marshfield, Oreg. Adjustable window-shaft-fastening device. 1,633,961; June 28.
- Inglis, Ernest A., assignor to W. & C. Paultin, London, England. Clutch mechanism particularly applicable to wire twisting or tying machines. 1,622,146; Mar. 22.
- Ingoldby, Maurice K., Westminster, London, assignor to Vickers Limited, and The Variable Speed Gear Limited, London, England. Hydraulic pump and motor of the swash-plate type. 1,612,925; Jan. 4.

- Ingolfsrud, Leif J., and W. H. Soule, Coniston, Ontario, Canada. Apparatus for separating magnetic material from nonmagnetic material. 1,625,237; Apr. 19.
- Ingram, Floyd M., Sioux Rapids, Iowa. Cow hopple. 1,633,020; June 21.
- Ingram, George P., San Jose, Calif. Pliers. 1,639,183; Aug. 16.
- Ingram, Harry, Brooklyn, N. Y. Vacuum sealing machine for jars and other containers. 1,624,869; Apr. 12.
- Ingram, Oscar L., Walla Walla, Wash. Liquid-level gauge. 1,641,387; Sept. 6.
- Ingram, Walter M., Sudsbrook Park, assignor of two-thirds to I. Blum, Baltimore, Md. Making a commodity package. 1,616,804; Feb. 8.
- Ingram, Walter M., assignor to The Reliance Pump and Machine Company, Baltimore, Md. Tire pump. 1,628,365; May 10.
- Ingram, Walter M., Baltimore, Md., assignor to S. S. Unglaub, Air-pump connection. 1,652,626; Dec. 13.
- Ingram, William C., and E. J. Everest, Hackney Wick, London, England. Teat and valve for feeding bottles. 1,640,152; Aug. 23.
- Inhofe, Perry D., assignor to C. B. Hess, Des Moines, Iowa. Vaporizer for internal-combustion engines. 1,638,308; Aug. 9.
- Inland Empire Paper Company. (See Rosebush, Waldo E., assignor.)
- Inland Engineering Company. (See Alexander, Ralph I., assignor.)
- Inland Engineering Company. (See Alexander, R. I., and Exton, assignors.)
- Inland Glass Company. (See Allen, Joseph H., assignor.)
- Inland Manufacturing Company, The. (See Chilton, Ralph H., assignor.)
- Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
- Inland Manufacturing Company, The. (See Geyer, H. D., and Scott, assignors.)
- Inland Manufacturing Company, The. (See Lee, John W., assignor.)
- Inland Manufacturing Company, The. (See Nellis, C. P., and Scott, assignors.)
- Inland Steel Company. (See McIntosh, R. L., and Fox, assignors.)
- Inland Steel Company. (See McIntosh, Robert L., assignor.)
- Inland Steel Company. (See Murton, Crawford B., assignor.)
- Inman, Clarence G., Chicago, Ill. Eaves-trough hanger. 1,630,746; May 31.
- Inman, Ira I., Hartford City, Ind. Fastening or sealing device for burial caskets. 1,640,410; Aug. 30.
- Innes, Edith K., Zion, Ill. Vertical hydraulic turbine. 1,646,405; Oct. 25.
- Innes, George, Davenport, Iowa. Grain shocker. 1,646,250; Oct. 18.
- Innes, George, Davenport, Iowa. Grain shocker. 1,646,251; Oct. 18.
- Innes, George, Davenport, Iowa, assignor to Innes Shocker Company, Philadelphia, Pa. Grain shocker. Re16,552; Feb. 15.
- Innes Shocker Company. (See Innes, George, assignor.)
- Innes, William R. D., Melbourne, Victoria, and M. S. Stanley, Adelaide, South Australia, assignors to James Bell & Co. Proprietary Limited, Melbourne, Victoria, Australia. Construction of reinforced concrete floors. 1,641,084; Aug. 30.
- Ino, Kunisada, San Francisco, Calif. Salt and pepper shaker. Des. 71,836; Jan. 11.
- Inskip, William D. (See Parsons, E. B., Inskip, and Hunt.)
- Inskip, William D. and E. B. Parsons, San Francisco, Calif. Automatic releasing clutch. 1,632,839; June 21.
- Instruments di Misura C. G. S. Societa Anonima. (See Usigli, Bruno, assignor.)
- Insulex Corporation. (See Ashenburt, Harold S., assignor.)
- Insulex Corporation. (See Nelson, William K., assignor.)
- Intemann, William, Brooklyn, assignor to American Lithographic Company, New York, N. Y. Banding cigars. 1,618,983; Mar. 21.
- Interessentskapet Johs. Rudlands Selvbinder. (See Rudland, Johannes, assignor.)
- Interflash Signal Corporation. (See Conover, Arthur V., assignor.)
- Interlocking Shingle Co. (See Davis, Isadore, assignor.)
- International Amusement Corporation. (See Newsbaum, F. J., and Lohn, assignors.)
- International Banding Machine Company. (See Malocsay, Francis X., assignor.)
- International Business Machines Corporation. (See Peirce, John R., assignor.)
- International Cigar Machinery Company. (See Bronander, Wilhelm B., assignor.)
- International Cigar Machinery Company. (See Halstead, John F., assignor.)
- International Combustion Engineering Corporation. (See Clendon, George W., assignor.)
- International Combustion Engineering Corporation. (See deLorenz, Otto, assignor.)
- International Combustion Engineering Corporation. (See London, William J. A., assignor.)
- International Combustion Engineering Corporation. (See Lundgren, Edwin, assignor.)
- International Combustion Engineering Corporation. (See McEwen, Samuel, assignor.)
- International Combustion Engineering Corporation. (See Schwartz, Carl, assignor.)
- International Combustion Engineering Corporation. (See Skelly, John S., assignor.)
- International Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
- International Combustion Engineering Corporation. (See Wiebe, Sigurd J. A., assignor.)
- International Combustion Engineering Corporation. (See Wray, John W., assignor.)
- International Concrete Industries Corporation. (See Weiss, George, assignor.)
- International Controlled Lamp Company, The. (See Keck, George S., assignor.)
- International Derrick & Equipment Company, The. (See Bloss, Richard R., assignor.)
- International Derrick & Equipment Company. (See Bloss, R. R., Strout, and Ansel, assignors.)
- International Fire Equipment Corporation. (See Johnston, Charles O., assignor.)
- International Folding Paper Box Co. (See Soybel, Meyer, assignor.)
- International Fruit Vending Corporation. (See Redlinger, Michael, assignor.)
- International Harvester Company. (See Anderson, Emil F., assignor.)
- International Harvester Company. (See Anthony, J. E., and Baker, assignors.)
- International Harvester Company. (See Baker, David B., assignor.)
- International Harvester Company. (See Benjamin, B. R. and Raney, assignors.)
- International Harvester Company. (See Benjamin, B. R., and Webber, assignors.)
- International Harvester Company. (See Bozard, Harrison, assignor.)
- International Harvester Company. (See Cady, Sherman W., assignor.)
- International Harvester Company. (See Danly, Philo H., assignor.)
- International Harvester Company. (See Dennis, Samuel K., assignor.)
- International Harvester Company. (See Dewey, Frederick L., assignor.)
- International Harvester Company. (See Dwyer, W. C., and Mitchell, assignors.)
- International Harvester Company. (See Engstrom, Gustaf W., assignor.)
- International Harvester Company. (See French, C. A., and Galt, assignors.)
- International Harvester Company. (See Gronke, Barney, assignor.)
- International Harvester Company. (See Hitchcock, Rex B., assignor.)
- International Harvester Company. (See Huntington, H. H., and Towle, assignors.)
- International Harvester Company. (See Johnson, A. L., and Mitchell, assignors.)
- International Harvester Company. (See Johnston, E. A., and Danly, assignors.)
- International Harvester Company. (See Kipp, Roy H., assignor.)
- International Harvester Company. (See Kowalsky, Andrew, assignor.)
- International Harvester Company. (See Lindgren, Alexis C., assignor.)
- International Harvester Company. (See Mitchell, Robert M., assignor.)
- International Harvester Company. (See Pearson, Charles, assignor.)
- International Harvester Company. (See Raney, Clemma R., assignor.)
- International Harvester Company. (See Rice, G. L., and Whitcomb, assignors.)
- International Harvester Company. (See Schoenrock, Otto R., assignor.)
- International Harvester Company. (See Sheahan, John F., assignor.)
- International Harvester Company. (See Sperry, H. B., and Witte, assignors.)
- International Harvester Company. (See Sturrock, John, assignor.)
- International Harvester Company. (See Webber, Wilber, assignor.)
- International Harvester Company. (See Wiklund, Anders, assignor.)
- International Harvester Company. (See Witte, Gustav W., assignor.)
- International Life Saving Water Making Cup Corporation. (See Armbrust, Charles W., assignor.)
- International Motor Company. (See Adams, Clyde W., assignor.)
- International Motor Company. (See Bernard, Harry, assignor.)
- International Motor Company. (See Drumm, C. F., and Gurney, assignors.)

- International Motor Company. (See Erskine, Clyde, assignor.)
- International Motor Company. (See Froesch, Charles, assignor.)
- International Motor Company. (See Gurney, Erving R., assignor.)
- International Motor Company. (See Haag, Gustavus, assignor.)
- International Motor Company. (See Hasselkus, William E. B., assignor.)
- International Motor Company. (See Heiney, John W., assignor.)
- International Motor Company. (See Hewitt, E. R., and Leipert, assignors.)
- International Motor Company. (See Josephs, Lyman C., Jr., assignor.)
- International Motor Company. (See Jupp, W. B., and Hanshew, assignors.)
- International Motor Company. (See Kohlberger, Frank, assignor.)
- International Motor Company. (See Lelpert, August H., assignor.)
- International Motor Company. (See Manville, Keith R., assignor.)
- International Motor Company. (See Masury, Alfred F., assignor.)
- International Motor Company. (See Masury, A. F., and Froesch, assignors.)
- International Motor Company. (See Masury, A. F., and Gurney, assignors.)
- International Motor Company. (See Masury, A. F., and Lelpert, assignors.)
- International Motor Company. (See Matthews, Joseph L., assignor.)
- International Motor Company. (See Matthews, Philip E., assignor.)
- International Motor Company. (See McCall, George, assignor.)
- International Motor Company. (See Nein, Charles L., assignor.)
- International Motor Company. (See Pampinella, Frank, assignor.)
- International Motor Company. (See Queeeney, Frank E., assignor.)
- International Motor Company. (See Reid, J. E., and Nein, assignors.)
- International Motor Company. (See Robbins, Azor D., assignor.)
- International Motor Company. (See Runyon, Carroll T., assignor.)
- International Motor Company. (See Shields, Henry B., assignor.)
- International Motor Company. (See Wilson, Raymond C., assignor.)
- International Motor Company. (See Wirrer, Gottfried, assignor.)
- International Nickel Co., The. (See Lellep, Otto, assignor.)
- International Nickel Company, The. (See Merica, P. D. and Vanick, assignors.)
- International Paper Company. (See Peschl, Frank A., assignor.)
- International Patents Development Company. (See Buel, Hambden, assignor.)
- International Patents Development Company. (See Copland, Charles, assignor.)
- International Patents Development Company. (See McCoy, Rush O., assignor.)
- International Patents Development Company. (See Newkirk, William B., assignor.)
- International Patents Fiscal Corporation. (See Slate, Thomas B., assignor.)
- International Precipitation Company. (See Anderson, Evald, assignor.)
- International Precipitation Company. (See Deutsch, Walther, assignor.)
- International Precipitation Company. (See Jakosky, John J., assignor.)
- International Precipitation Company. (See Schmidt, Walter A., assignor.)
- International Precipitation Company. (See Viets, Floyd H., assignor.)
- International Precipitation Company. (See Welch, Harry V., assignor.)
- International Postal Supply Company. (See John, Raymond F., assignor.)
- International Postal Supply Company. (See Mitchell, J. A. and Zahn, assignors.)
- International Postal Supply Company. (See Zahn, Lawrence J., assignor.)
- International Scale Company. (See Gilbert, William N., assignor.)
- International Scale Company. (See Osgood, Louis A., assignor.)
- International Scale Company. (See Osgood, L. A., and Wolf, assignors.)
- International Screw Company. (See Arenz, John A., assignor.)
- International Shoe Company. (See Foley, William, assignor.)
- International Silencer Company (1926) Limited, The. (See Green, Archibald H., assignor.)
- International Silver Co. (See Beck, Ernest T., assignor.)
- International Silver Co. (See Brown, Leslie A., assignor.)
- International Silver Company. (See Kintz, Alfred G., assignor.)
- International Silver Co. (See Kintz, Robert R., assignor.)
- International Silver Company. (See Leech, John, assignor.)
- International Silver Company. (See McKeon, Patrick D., assignor.)
- International Silver Company. (See Stark, Frederick W., assignor.)
- International Silver Company. (See Zeitung, Alpeck L., assignor.)
- International Skywriters Limited. (See Sieber, Jacob, assignor.)
- International Stamping Company. (See Green, Walter R., assignor.)
- International Sugar and Alcohol Company Limited, The. (See Levy, Marcel, assignor.)
- International Time Recording Company of New York, The. (See Bryce, James W., assignor.)
- International Time Recording Company of New York. (See Bush, Le Grand C., assignor.)
- International Telephone Company. (See Heath, Earl R., assignor.)
- Interstate Equipment Corporation. (See Kilcarr, Gilbert M., assignor.)
- Interstate Folding Box Company, The. (See Bergstein, Samuel, assignor.)
- Interstate Folding Box Company, The. (See Bergstein, S., and Lindner, assignors.)
- Interstate Folding Box Company. (See Miller, William C., assignor.)
- Interstate Iron and Steel Company. (See Forrest, Andrew, assignor.)
- Intertype Corporation. (See Anderson, David L., assignor.)
- Intertype Corporation. (See Freund, Herman R., assignor.)
- Intertype Corporation. (See Homans, Thomas S., assignor.)
- Intertype Corporation. (See Testi, Nicholas, assignor.)
- Intertype Corporation. (See Tomlin, John K., assignor.)
- Interwoven Mills, Inc., The. (See Mettler, J. W., and Davis, assignors.)
- Intieri, Louis, Brooklyn, N. Y. Birdcage. Des. 71,797; Jan. 4.
- Inventors' Trading Company. (See Ratcliff, William D., assignor.)
- Invincible Laundry Equipment Co. (See Bell, Daniel, assignor.)
- Invincible Metal Furniture Company. (See Anderson, Edgar W., assignor.)
- Iuzinga, Philip, assignor of fifty-one per cent to E. M. Pfleger, Chicago, Ill. Producing facsimile carbon impressions. 1,643,212; Sept. 20.
- Ionides, Philip D., assignor of one-half to Ransomes & Rapier Limited, Ipswich, England. Electrically-propelled vehicle. 1,619,616; Mar. 1.
- Iowa State College of Agriculture and Mechanic Arts. (See Giese, Henry, assignor.)
- Ipag International Patent Exploiting Company. (See Simmehen, Wilhelm, assignor.)
- Ippco-Gesellschaft mit beschränkter Haftung Internationale Projektion-Propaganda-Compagnie. (See Boykoff, Ernst, assignor.)
- Iredell, Robert, assignor to The General Tire & Rubber Company, Akron, Ohio. Vehicle tire. Des. 73,835; Nov. 15.
- Ireland, Charles E., Jamaica, N. Y., assignor to Rich & McLean, Inc. Typographical machine. 1,638,036; Aug. 9.
- Ireland, George B., and R. T. Soule, assignors to Taylor Instrument Companies, Rochester, N. Y. Receptacle or case for thermometers. 1,634,028; June 28.
- Ireland, Harold W. F., assignor to C. L. Breeden, Birmingham, England. Temperature indicator suitable for use up or in connection with the radiators of internal-combustion engines of automobiles. 1,652,244; Dec. 13.
- Ireland, Ward S., St. Paul, Minn. Clutch. 1,649,116; Nov. 15.
- Ireland, Ward S., assignor to Lipman Refrigeration Company, Beloit, Wis. Alloy. 1,626,038; Apr. 26.
- Irgens, Finn T. (See Tanner, P. A., and Irgens.)
- Irish, Mary S., Los Angeles, Calif. Domestic cooking vessel. 1,625,999; Apr. 26.
- Irish, Russell S., Dormont, Pa. Dental model trimmer. 1,617,523; Feb. 13.
- Irish, William E., assignor to The Hydraulic Steel Company, Cleveland, Ohio. Rivet heater. 1,641,085; Aug. 30.
- Irish, William F., Anderson, S. C. Display hook. 1,629,576; May 24.
- Irish, Henry G., Chicago, Ill. Window attachment. 1,649,164; Nov. 15.
- Iron Products Corporation. (See Molby, Edgar C., assignor.)
- Irons, Roberts H., assignor to Central Iron & Steel Company, Harrisburg, Pa. Floor plate. Des. 73,834; Nov. 15.
- Ironside, Edward A., London, England. Apparatus for the extraction and recovery of volatile liquids. 1,631,036; May 31.
- Ironton Bernhard Boiler Company. (See Bernhard, John B., assignor.)

- Irrgang, William F., Chicopee, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Folder for pressure bags. 1,627,779; May 10.
- Irvin Air Chute Co. (See Irvin, Leslie L., assignor.)
- Irvin, Leslie L., assignor to Irvin Air Chute Co., Buffalo, N. Y. Method and apparatus for providing parachute abroad lines. 1,625,725; Apr. 19.
- Irvin, Richard, Knoxville, Pa. Garage structure. 1,643,948; Oct. 4.
- Irvin, Roy. (See Kohman, H. A., Irvin, and Stateler.)
- Irvin, Russe J., assignor to R. C. Mitchell, Mount Vernon, N. Y. Dishwashing machine. 1,638,069; June 28.
- Irvin, Walter. (See Murray, John R., assignor.)
- Irvine, Alexander R., Brooklyn, N. Y. Envelope opener. 1,649,699; Nov. 15.
- Irvine, Charles, Toronto, Ontario, Canada. Starting crank for internal-combustion engines. 1,644,019; Oct. 4.
- Irvine, Robert R., Mokelumne Hill, Calif. Combination saw and square. 1,620,891; Mar. 15.
- Irvine, Robin H., Bay City, Mich. Adjustable stool. 1,615,278; Jan. 25.
- Irvine, Robin H., Bay City, Mich. Back adjustment. 1,642,150; Sept. 13.
- Irving, Adam H. (See Brown, D., and Irving.)
- Irving Engineering Sales Co. (See Irving, Frank J., assignor.)
- Irving, Frank J., assignor to Irving Engineering Sales Co., Inc., Buffalo, N. Y. Operating mechanism for radiator shutters. 1,633,021; June 21.
- Irving Iron Works Company. (See Prince, Burton A., assignor.)
- Irving Iron Works Company. (See Van Hoffen, William A., assignor.)
- Irving, Norman B., Philadelphia, Pa. Automatic measuring device for liquids. 1,622,317; Mar. 29.
- Irving-Pitt Manufacturing Company. (See Pitt, William P., assignor.)
- Irving-Pitt Manufacturing Company. (See Redies, E. F., and Van Valkenburgh, assignors.)
- Irving-Pitt Manufacturing Company. (See Rupt, Frank G., assignor.)
- Irving-Pitt Manufacturing Company. (See Van Valkenburgh, Richard M., assignor.)
- Irving, William D., Charlestown, Mass. Sliding window. 1,634,425; July 5.
- Irwig, Fred, Kansas City, Mo. Radiographic attachment for X-ray machines. 1,651,707; Dec. 6.
- Irwin, Auger Bit Company, The. (See Robinson, Charles B., assignor.)
- Irwin & Company. (See Cohn, Irwin, assignor.)
- Irwin, Grant, administrator. (See Sheer, Henry M.)
- Irwin, Harold A., Brooklyn, N. Y. Duplicating machine. 1,615,084; Jan. 18.
- Irwin, Henry H., Greenville, S. C. Glare shield. 1,640,897; Aug. 30.
- Irwin, Henry H., Greenville, S. C. Glare shield. 1,641,889; Sept. 6.
- Irwin, Henry H. and W. A. Carpenter, Greenville, S. C. Tender attachment for automobiles. 1,631,417; June 7.
- Irwin, Howard W., et al. (See Rein, Edward A., assignor.)
- Irwin, Howard W. (See Rein, E. A., Irwin, and Leidy.)
- Irwin, John P., Rocky River, assignor to Arthur G. McKee & Company, Cleveland, Ohio. Self-propelled rail car. 1,634,362; July 5.
- Irwin, Lawrence C., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y. Compensating means for recording and indicating instruments. 1,633,380; June 21.
- Irwin, Walter J., Akron, Ohio. Molding machine. 1,621,114; Mar. 15.
- Isaac, Archibald C., Pittsfield, Mass., assignor to General Electric Company. Fluid-flow indicator. 1,652,941; Dec. 13.
- Isaac, Elmer B. (See Raus, A., and Isaac.)
- Isaachsen, Isak, assignor, by mesne assignments, to A/S. Krystal, Christiania, Norway. Separating two or more substances from a solution. 1,646,454; Oct. 25.
- Isaacs, Fannie M. (See Stowe, W. C., and Isaacs.)
- Isaacs, Harry H. (See Pentress, George E., assignor.)
- Isaacs, James, et al. (See Millinack, George H., assignor.)
- Isaacs, Louis, Louisville, Ky. Building material. 1,635,676; July 12.
- Isaacs, Mark, Minneapolis, Minn. Grain tester. 1,622,515; Mar. 29.
- Isaacs, Mark, Minneapolis, Minn. Milk can. 1,635,419; July 12.
- Isaacs, Mark, Minneapolis, Minn. Ground anchor. 1,640,504; Aug. 30.
- Isaacs, Mark, Minneapolis, Minn. Seed germinator. 1,648,309; Nov. 8.
- Isaacson, Joseph T. (See Kellander, H. S., and Isaacson.)
- Isaacson, William O., Chicago, Ill. Anchor. 1,616,426; Feb. 1.
- Isaacson, William O., Chicago, Ill. Anchor. 1,616,427; Feb. 1.
- Isaacson, William O., Chicago, Ill. Anchor. 1,649,407; Nov. 15.
- Isago, Gensuke, Ely, Nev. Beet-topping machine. 1,637,644; Aug. 2.
- Isbell, Toran, Little York, N. Y. Snowplow. 1,629,341; May 17.
- Isbell, Willard A., and H. H. Canfield, Woodbury, Conn. Making shears. 1,637,572; Aug. 2.
- Ischinger, Eric, East Rochester, N. Y. Automobile motor. 1,634,743; July 5.
- Ischinger, Eric, East Rochester, N. Y. Wind-operated toy and mounting therefor. 1,645,702; Oct. 18.
- Ischinger, Eric, assignor of one-half to F. Keiper, Rochester, N. Y. Guard for punch presses. 1,643,232; Nov. 8.
- Ischinger, Eric, East Rochester, assignor of one-half to F. Keiper, Rochester, N. Y. Guard for punch presses. 1,652,719; Dec. 13.
- Isely, Peter W., McLeansville, N. C. Disk harrow. 1,616,576; Feb. 8.
- Iseman, John W., Brooklyn, assignor of fifty per cent to J. D. Small, New York, N. Y. Rivet. 1,643,771; Sept. 27.
- Iseman, Manie, assignor to M. A. Vierling, Pittsburgh, Pa. Brush attachment for washing machines. 1,637,418; Aug. 2.
- Isenberg, Abe, et al. (See Borland, Deloss, assignor.)
- Isenberg, David, Miami, Fla. Paint. 1,650,071; Nov. 22.
- Isenberg, Hans O. C., New York, N. Y., and W. Piernay-Stettin, Germany, assignors to Universal Indicator Corporation. Charging apparatus for furnaces and the like. 1,618,011; Feb. 15.
- Isenberg, Myer, et al. (See Borland, Deloss, assignor.)
- Isenhart, Edwin A. (See Isenhart, John, and E. A., and Johnson.)
- Isenhart, John, and E. A., and W. E. Johnson, Wenatchee, Wash. Spray-forming device. 1,640,546; Aug. 30.
- Iserman, Samuel, Orange, N. J., W. Vernet, New York, and E. Q. Moses, Tarrytown, assignors to Boyce & Veeder Company, Incorporated, Long Island City, N. Y. Fuel for use in internal-combustion engines. 1,654,259; Dec. 27.
- Isgruber, Martin, Kanopolis, Kans. Bicycle wheel. 1,635,849; July 12.
- Isham, E. L., et al. (See Gregory, B., and Mitchell, assignors.)
- Isherwood, Joseph W., Chislehurst, England. Construction of floating vessels. 1,622,830; Mar. 29.
- Isherwood, Paul A., West Chicago, assignor to H. S. Fischer Co., Chicago, Ill. X-ray apparatus. 1,630,181; May 24.
- Isley, George H., assignor to Morgan Construction Company, Worcester, Mass. Apparatus for reversing and controlling regenerative furnaces. 1,635,939; July 12.
- Isley, Gilbert W., Cleveland, Ohio. Holder arm for door catches and closers. 1,646,408; Oct. 25.
- Isobe, Hajime. (See Ikeda, K., Isobe, and Okazawa.)
- Isom, Edward W. (See Bell, J. E., and Isom.)
- Isom, Edward W. (See Herthel, E. C., and Isom.)
- Isom, Edward W., Winnetka, assignor to Sinclair Refining Company, Chicago, Ill. Cracking hydrocarbons. 1,650,519; Nov. 22.
- Isom, Edward W., Winnetka, Ill., and J. E. Bell, Brooklyn, N. Y., assignors to Sinclair Refining Company, Chicago, Ill. Condensation of hydrocarbons. 1,623,790; Apr. 5.
- Isom, Edward W., Winnetka, Ill., and J. E. Bell, Brooklyn, N. Y., assignors to Sinclair Refining Company, Chicago, Ill. Apparatus for condensing vapors. 1,627,544; May 3.
- Isom, Paul C. (See Pennington, W. V., and Isom.)
- Israel, Albert H. (See Kramer, J., and Israel.)
- Israelson, Feder, Hillman, Minn. Potato cutter and planer. 1,628,779; May 17.
- Isralsky, Jake. (See Rankin, Julian, assignor.)
- Iseringhaus, Hugo, Barmen, Germany. Button-making machine. 1,629,214; May 17.
- Itell, Henry, Central San German, Oriente, Cuba. Process and apparatus for treating bagasse. 1,645,242; Oct. 14.
- Istrico, Vincent, Brooklyn, N. Y. Mop. 1,618,930; Feb. 22.
- Ithaca Gun Company. (See Smith, Louis P., assignor.)
- Iter, Jules A. H., assignor to Society Le Textilon Central, Paris, France. Rendering surfaces fluid tight. 1,649,592; Nov. 15.
- Itjen, Martin, Skagway, Alaska. Spark-plug cleaner. 1,643,606; Sept. 27.
- Itzen, William C., Geneva, Nebr. Straw spreader. 1,613,892; Jan. 11.
- Ivanph Lime and Chemical Company. (See Wood, Burton G., assignor.)
- Ivarson, Victor E., New Rochelle, N. Y. Spirit level. 1,650,122; May 24.
- Iversen, Lorenz, Pittsburgh, Pa. Valve. 1,615,279; Jan. 25.
- Iversen, Lorenz, Pittsburgh, Pa. Making valves. 1,629,504; May 24.
- Ives, Herbert E., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission of pictures by electricity. 1,631,963; June 14.
- Ives, Herbert E., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Optical system. 1,647,631; Nov. 1.

- Ives, Herbert E., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission of pictures by electricity. 1,648,127; Nov. 8.
- Ives, Herbert E., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Photomechanical reproduction of pictures. 1,649,309; Nov. 15.
- Ivey, John H., assignor of one-half to L. J. Mildren, Ponca City, Okla. Wrench. 1,630,848; May 31.
- Ivory, James W., Philadelphia, Pa. Nut lock or fastener washer. 1,631,819; June 7.
- Iwwerks, Eert U., Kansas City, Mo. Sound-reproducing device. 1,646,201; Oct. 18.
- Izawa, Richiro, Kyoto, Japan. Bristle-pointing device. 1,627,704; May 10.
- Izquierdo, Angel, New Orleans, La. Drain strainer. 1,621,015; Mar. 15.
- J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Sjoman, C. F., and Pettersson, assignors.)
- Jablow, Charles, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Guiding truck. 1,632,077; June 14.
- Jabouley & Co. (See Jabouley, Joanny B., assignor.)
- Jabouley, Joanny B., assignor to Jabouley & Co., (firm) Lyon, France. Loom for weaving. 1,626,411; Apr. 26.
- Jack, Edward, Chicago, Ill. Bottle-capping machine. 1,634,363; July 5.
- Jachimstall, Fred, Manitowoc, Wis. Hinge for storm sashes. 1,641,036; Aug. 30.
- Jack, Robert K., Lansing, assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,629,684; May 14.
- Jack, Robert K., Lansing, assignor to General Motors Corporation, Detroit, Mich. Battery support. 1,629,665; May 24.
- Jack, Robert K., Lansing, assignor to General Motors Corporation, Detroit, Mich. Manifold for internal-combustion engines. 1,651,893; Dec. 6.
- Jacker, Edward G., assignor of one-half to V. Bendix, Chicago, Ill. Hydraulic transmission. 1,624,663; Apr. 12.
- Jakes-Evans Manufacturing Company. (See Jakes, Stanley F., assignor.)
- Jakes, Stanley F., assignor to Jakes-Evans Manufacturing Company, St. Louis, Mo. Heater. Des. 72,768; May 31.
- Jackevich, Joseph. (See Mullen, L., and Jackevich.)
- Jacks, Sylvanus O., Sacramento, Calif. Covered indicat-ing chance disk game. 1,640,998; Apr. 30.
- Jackson, Albert H., London, England. Electric motor-control system. 1,633,102; June 21.
- Jackson, Alfred, Philadelphia, Pa. Attachment for emergency hand brakes. 1,616,260; Feb. 1.
- Jackson, Andrew O., Portland, Ore. Furnace-arch construction. 1,617,759; Feb. 14.
- Jackson, Arthur C., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Sealed padlock. 1,629,388; May 17.
- Jackson, Arthur H. (See Jones, E. P., and Jackson.)
- Jackson, Byron, Pump Mfg. Co., et al. (See Hollander, Aladar, assignor.)
- Jackson, Byron, Pump Mfg. Co. (See Hollander, Aladar, assignor.)
- Jackson, Callis W., San Francisco, Calif. Movable seat for automobiles and the like. 1,613,893; Jan. 11.
- Jackson, Carl W., Chicago, Ill. Hair-trimming appliance. 1,622,647; Mar. 29.
- Jackson, Charles A., Ridgewood, N. J. Impulse turbine. 1,613,950; Jan. 11.
- Jackson, Charles K., Columbus, Ohio. Fencing construction. 1,623,873; Apr. 5.
- Jackson, Charles K., Columbus, Ohio. Fencepost. 1,631,820; June 7.
- Jackson, Charles K., Columbus, Ohio. Wire connection. 1,631,821; June 7.
- Jackson, Charles N., New York, N. Y. Filling and post-ing system. 1,628,320; May 10.
- Jackson & Church Co. (See Church, Edgar D., assignor.)
- Jackson & Church Co. (See Lash, Frank S., assignor.)
- Jackson, Clarence W., assignor of one-half to C. Bildeback, Seattle, Wash. 1,628,845; May 17.
- Jackson-Corset Company. (See Fleck, Christian H., assignor.)
- Jackson, Dennis E., Cincinnati, Ohio. Combined face piece and automatic valve. 1,653,572; Dec. 20.
- Jackson, Elmer B., Brawley, Calif. Tire carrier. 1,641,890; Sept. 6.
- Jackson, Ernest G., Montreal, Quebec, Canada. Slide bearing for railway cars. 1,645,909; Oct. 18.
- Jackson, Francis M., Russellville, Ind. Yoke. 1,613,109; Jan. 4.
- Jackson, Fred J., Minneapolis, Minn. Jack. 1,640,411; Aug. 30.
- Jackson, Frederick H. (See Bailey, F., and Jackson.)
- Jackson, Harold, Garstang, England. Apparatus for hydrating fibrous pulp for the manufacture of paper and cellulose therefrom. 1,652,720; Dec. 13.
- Jackson, Harry W., et al. (See Ferris, Roy W., assignor.)
- Jackson, James A., Schenectady, N. Y., assignor to General Electric Company. Electric-railway system. 1,632,653; June 14.
- Jackson, James E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-fitting machine. 1,632,232; June 14.
- Jackson, James M., Parkersburg, W. Va. Spring-rolling clip. 1,616,805; Feb. 8.
- Jackson, James R., Nashville, Tenn. Automatic gate propeller. 1,638,202; Aug. 9.
- Jackson, John A., Des Moines, Iowa. Corn popper. 1,620,765; Mar. 15.
- Jackson, John A., and P. Swanson, Invercargill, New Zealand. Carburetor. 1,623,682; Apr. 5.
- Jackson, John R. (See Smith, E. R., Rice, and Jackson.)
- Jackson, John T., Coldwater, Mich. Poster board. 1,626,735; May 3.
- Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Covered baking pan. 1,628,885; May 17.
- Jackson, Joseph R., jr., Boston, Mass., assignor to A. B. See Elevator Company, Inc., New York, N. Y. Elevator system. 1,632,876; June 14.
- Jackson, Lloyd E., Pittsburgh, Pa. Treating hydrocarbon oils. 1,619,869; Mar. 8.
- Jackson, Lloyd E., and H. E. Wassell, Pittsburgh, Pa. Insecting. 1,615,843; Feb. 1.
- Jackson, Maceo K., and E. D. Hackett, Washington, D. C. Brake attachment. 1,614,867; Jan. 11.
- Jackson Machine & Tool Company. (See Dowley, Jesse E., assignor.)
- Jackson, Maunsell B., Toronto, Ontario, Canada. Starter for engines. 1,646,864; Oct. 25.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Starter for engines. 1,648,946; Nov. 15.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Starter for engines. 1,651,127; Nov. 29.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Starter for internal-combustion engines. 1,652,360; Dec. 13.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Engine starter. 1,652,361; Dec. 13.
- Jackson, Minnesota B., Guthrie, Okla. Body garment. 1,632,137; June 14.
- Jackson, Percy, assignor to Walsh & Weidner Boiler Co., Chattanooga, Tenn. Closure plug for pipes. 1,620,728; Mar. 15.
- Jackson Petroleum Motor Company, The. (See Jackson, Terence G., assignor.)
- Jackson, Philip A., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,621,985; Mar. 22.
- Jackson, Philip A., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,622,148; Mar. 22.
- Jackson, Philip A., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,630,298; May 31.
- Jackson, Philip A., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,632,443; June 14.
- Jackson, Philip A., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,633,103; June 21.
- Jackson, Philip A., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,636,961; July 26.
- Jackson, Philip A., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,650,892; Nov. 29.
- Jackson, Philip A., Atlanta, Ga., assignor to The Egly Register Company, Dayton, Ohio. Automatic register. 1,622,147; Mar. 22.
- Jackson, Philip A., Atlanta, Ga., assignor to The Egly Register Company, Dayton, Ohio. Automatic register. 1,626,574; Apr. 26.
- Jackson, Philip T., Toronto, Ontario, Canada. Cooking apparatus. 1,631,418; June 7.
- Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coating inner surfaces of hollow bodies. 1,621,016; Mar. 15.
- Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,622,648; Mar. 29.
- Jackson, Ray P., Edgewood Park, G. C. Kent, Turtle Creek, and E. J. Casselman, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Mold plywood. 1,628,836; May 17.
- Jackson, Richard A. (See Freivogel, Ernest, assignor.)
- Jackson, Richard W., Clear Creek, Utah. Egg beater. 1,615,386; Jan. 25.
- Jackson, Samuel, Oxford, Ohio. Rail-securing device. 1,647,229; Nov. 1.
- Jackson, Simon S., assignor to The Stafford Company, Boston, Mass. Welt-partner device for looms. 1,637,114; July 26.
- Jackson, Terence G., Rockford, Ill., assignor to The Jackson Petroleum Motor Company, Augusta, Me. Internal-combustion engine. 1,624,952; Apr. 19.
- Jackson, Thaddeus A., Brooklyn, N. Y. Drill grinder. 1,652,672; Dec. 13.
- Jackson, Thelma P., Houston, Tex. Bulb container. 1,651,772; Dec. 6.
- Jackson, Thomas, London, assignor to G. B. Ramsay, Folkestone, England. Governing device. 1,633,180; June 21.
- Jackson, Thomas A., Pittsburg, Calif. Pedal-propelled scooter. 1,644,836; Oct. 11.
- Jackson, Vilas H., assignor, by mesne assignments, to The Gustav-Schaefer Wagon Company, Cleveland, Ohio. Drawbar reverse lock. 1,634,501; July 5.

- Jackson Vitrifired China Company. (See Wilson, James H., assignor.)
- Jackson, William E. (See Reynolds, W. B., and Jackson.)
- Jacob, George N., Brooklyn, assignor to Haulon & Goodman Co., New York, N. Y. Brush, 1,616,558; Feb. 8.
- Jacob, Max, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Cash register. 1,649,408; Nov. 15.
- Jacob, Peritz. (See Fullenlove, McClellan C., assignor.)
- Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)
- Jacobi, Edward N., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Automobile instrument-panel rim. Des. 73,915; Nov. 22.
- Jacobi, Edward N., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Horn push button. 1,638,037; Aug. 9.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Tumbler lock. 1,645,006; Oct. 11.
- Jacobi, Emil R., assignor to Hayes Wheel Company, Jackson, Mich. Joint for split rims and making the same. 1,632,550; June 14.
- Jacobi, Emil R., and F. H. Le Jeune, Jackson, assignors, by mesne assignments, to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Wheel. 1,650,794; Nov. 20.
- Jacobi, Frank. (See Bradley, H. T., and Jacobi.)
- Jacobowitz, Adolf, Nuremberg, Germany. Cutting disk for high-speed friction saws. 1,630,945; May 31.
- Jacobowitz, Adolf, Nuremberg, Germany. High-speed friction saw. 1,640,532; Aug. 30.
- Jacobs, Aaron J. and H. M., Brooklyn, N. Y. Scale frame. Des. 73,132; July 26.
- Jacobs, Belle. (See Grenier, H. J., assignor.)
- Jacobs, Charles B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Carbon catalyst and making it. 1,623,598; Apr. 5.
- Jacobs, Charles B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing cyanides from masses containing the same. 1,623,599; Apr. 5.
- Jacobs, Charles B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Furnacing in thermo-chemical treatment and apparatus therefor. 1,625,610; Apr. 19.
- Jacobs, Charles B., Wilmington, Del., assignor to Electro Metallurgical Company. Casting having chromium alloy surface. 1,632,704; June 14.
- Jacobs, Charles B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Erosive resistant ferrous alloy. 1,647,099; Oct. 25.
- Jacobs, Charles B., See Jacobs, Hugh A. and C. E.)
- Jacobs, Emanuel, Detroit, Mich. Razor-honing device. 1,630,182; May 24.
- Jacobs, Ernest B., assignor to Lyons' California Glacé Fruit Company, San Francisco, Calif. Making glacé fruit. 1,631,487; June 18.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Electrical switch. 1,631,268; June 7.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Circuit breaker. 1,647,632; Nov. 1.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Refining copper. 1,648,947; Nov. 15.
- Jacobs, Ernest H., and C. F. Schoonmaker, Chicago, Ill. Electric-transmission system. 1,620,552; Mar. 8.
- Jacobs, Francis A. (See Finney, H. F., and Jacobs.)
- Jacobs, Francis A. (See Williams, T. H., and Jacobs.)
- Jacobs, Francis A., Warren, Ohio, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,637,307; July 26.
- Jacobs, H. W., et al. (See Clark, Edward E., assignor.)
- Jacobs, Hannah, Brooklyn, N. Y. Hair-waving device. 1,652,279; Dec. 13.
- Jacobs, Harry M. (See Jacobs, Aaron J. and H. M.)
- Jacobs, Henry J., Buffalo, N. Y. Spring-lifting mechanism for folding couches and the like. 1,650,217; Nov. 22.
- Jacobs, Hugh A. and C. E., Minneapolis, Minn. Multiple-needle hemstitching mechanism. 1,638,338; Aug. 9.
- Jacobs, Irving W. (See Jacobs, Robert and I. W.)
- Jacobs, Isidor M. (See Cramer, William, assignor.)
- Jacobs, Joe, Denver, Colo. Tire flap. 1,620,813; Mar. 15.
- Jacobs, Joseph, Bronx, assignor to Webbing and Edging Company, New York, N. Y. Hose supporter. 1,618,435; Feb. 22.
- Jacobs, Joseph H., Paxton, Mont. Educational toy. 1,634,194; June 28.
- Jacobs, Lillian, Cincinnati, Ohio. Carrier for buckets and the like. 1,633,002; June 21.
- Jacobs, Louis. (See Litcher, Malvin, assignor.)
- Jacobs Manufacturing Company, The. (See Englund, Gustaf A., assignor.)
- Jacobs, Maurice, Tucson, Ariz. Spark plug. 1,648,770; Nov. 8.
- Jacobs, Richard D., Detroit, Mich. Mechanical movement. 1,623,732; Apr. 5.
- Jacobs, Robert, Boston, and I. W. Jacobs, Brookline, Mass. Game. 1,636,694; July 26.
- Jacobs, Thomas, Evansville, Ind. Automobile power transmission. 1,614,614; Jan. 18.
- Jacobsen, Emil, New York, N. Y., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,615,280; Jan. 25.
- Jacobsen, Emil, Port Washington, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,623,118; Apr. 5.
- Jacobsen, Emil, Plandome, N. Y., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,639,089; Aug. 16.
- Jacobsen, Emil, Plandome, N. Y., assignor to American Telephone and Telegraph Company. By-pass selector circuit. 1,644,727; Oct. 11.
- Jacobsen, Emil, Port Washington, and A. B. Sperry, New York, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,647,363; Nov. 1.
- Jacobsen, Ib H. H., Gedved, near Horsens, Denmark. Fungicide. 1,617,255; Feb. 26.
- Jacobsen, James A., Buffalo, N. Y. Feeding mechanism for stitching machines. 1,618,591; Feb. 22.
- Jacobsen, Jens O. B., Bellingham, Wash. Educational apparatus. 1,634,289; July 5.
- Jacobsen, Oystein, Dayton, Ohio, assignor to The Durion Company, Inc. Mixing rollers. 1,637,697; Aug. 2.
- Jacobsen, Richard S., Wheaton, Ill. Mechanism for operating reciprocating conveyors or screens. 1,641,435; Sept. 6.
- Jacobsohn, Isaak, Spandau, assignor to E. Muller, Gorlitz, Germany. Talking machine. 1,633,745; June 28.
- Jacobson, Andrew, Los Angeles, Calif. Combined cooker and mixer. 1,642,445; Sept. 13.
- Jacobson, Arthur, and A. L. Ogilvie, San Francisco, Calif. Flushing valve. 1,643,500; Sept. 27.
- Jacobson, Arthur G., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press-register-guide mechanism. 1,618,202; Feb. 22.
- Jacobson, Birger, New York, assignor of two-fifths to J. L. Gilbert, Mount Vernon, N. Y. Protective means for automobiles. 1,616,126; Feb. 1.
- Jacobson, Conrad C., Glen Ridge, assignor to The Artesian Well Engineering Co., Inc., New York, N. Y. Automatic control for air lifts. 1,620,210; Mar. 8.
- Jacobson, Conrad C., Glen Ridge, N. J., assignor to John Robertson Co. Inc., Brooklyn, N. Y. Hydraulic molding press. 1,636,962; July 26.
- Jacobson, David L. (See Sperr, F. W., Jr., and Jacobson.)
- Jacobson, Edward B., Pittsfield, Mass. Device for testing the induction coil and condenser of an electrical ignition system of a motor vehicle. 1,636,743; July 26.
- Jacobson, Harry. (See Stone, Harry, assignor.)
- Jacobson, Ole A., Chicago, Ill., assignor to The Automatic Guard and Signal Corporation, Grand Rapids, Mich. Draw pul and latch. 1,640,336; Nov. 20.
- Jacobson, Omand B., Waukegan, Ill. Floor-surfacing machine. 1,635,480; July 12.
- Jacobson, Sidney D., New York, N. Y. Antiskidding device. 1,631,207; June 7.
- Jacobson, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler. 1,629,273; May 17.
- Jacobson, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Method and apparatus for burning fuel. 1,630,387; May 31.
- Jacobson, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Air heater. 1,647,997; Nov. 8.
- Jacobson, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Degassing water. 1,650,129; Nov. 22.
- Jacobson, David S., Jersey City, and A. D. Pratt, Short Hills, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Method and apparatus for utilizing heat. 1,624,602; Apr. 12.
- Jacobson, Edward, Newark, N. J. Radiator vent valve. 1,635,790; July 12.
- Jacobson, William L. (See Wetherbee, H. E., and Jacobson.)
- Jacoby, Clark E. See Scott, Syrus S., assignor.)
- Jacoby, Hermann, Eberstadt, near Darmstadt, Germany. Device for electrically exhibiting a danger signal on a locomotive. 1,642,303; Sept. 13.
- Jacoby, John, and B. Wleczkiewicz, Cleveland, Ohio. Lamp shade. Des. 72,673; May 17.
- Jacoby, Philip L. (See Edmunds, J. L., and Jacoby.)
- Jacoby, Richard, Berlin, Germany, assignor to General Electric Company. Making long crystal tungsten filaments. 1,648,690; Nov. 8.
- Jacovatos, Nicholas H., New York, N. Y. Liquid-flow governor. 1,629,821; May 24.
- Jacquin, Adrien P., Saucourt, par-Douvincourt, France. Furnace adapted for the heating and unwinding of rolls of wire. 1,642,613; Sept. 13.
- Jacquemin, Eugene, assignor of one-half to H. L. Charles, Kent, Wash. Toy whistle. 1,626,198; Apr. 26.
- Jacquemin, Joseph E. T., and M. F. C. Frère, Brussels. Electric-practice device. 1,629,794; May 24.
- Jacques, George H., Casper, Wyo. Casing head. 1,654,463; Dec. 27.
- Jacques, Jean. (See Oswald, Adolph W., assignor.)
- Jacques, Jean, assignor of one-half to A. W. Oswald, Philadelphia, Pa. Closure. 1,631,098; May 31.
- Jacques, Jean, and A. W. Oswald, Philadelphia, Pa. Closure for automobile radiators and the like. 1,630,897; May 31.

- Jacques, Raynaldo P., Woonsocket, R. I., assignor, by mesne assignments, to The Baskick Manufacturing Company, Chicago, Ill. Connector for lubricating apparatus. 1,637,325; July 26.
- Jacques, William L., Central Falls, R. I. Handsaw. 1,641,168; Sept. 6.
- Jaeger, Adolph W., Newark, N. J. Vehicle tail lamp. 73,181; Aug. 2.
- Jaeger, August F. (See Jaeger, Gustav A. and A. F.)
- Jaeger, Charles F., assignor to Jaeger Portable Power Corporation, Detroit, Mich. Motor vehicle attachment. 1,648,128; Nov. 8.
- Jaeger, Gustav A. and A. F., assignors to Perfect Pool Pocket Irons Company, Morrison, Ill. Machine for forming leathers for pool pockets. 1,636,000; July 19.
- Jaeger, Max, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Hermetic seal and making same. 1,640,940; Aug. 30.
- Jaeger, Max; Astoria, N. Y. Positive variable-speed transmission. 1,650,449; Nov. 22.
- Jaeger Portable Power Corporation. (See Jaeger, Charles F., assignor.)
- Jaegler, Heinrich, Salem, Oreg. Warm-air-furnace radiator. 1,628,780; May 17.
- Jaenichen, Louis, Springfield Township, Oakland County, assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. 1,628,781; May 17.
- Jaffe, Abe, Philadelphia, Pa. Necktie holder. 1,620,553; Mar. 8.
- Jaffe, Joseph L., Cleveland, Ohio. Globe for lighting fixtures. Des. 73,916; Nov. 22.
- Jagdmann, Karl E. W., Stockholm, Sweden. Applying window to hollow bricks. 1,640,658; Aug. 30.
- Jagmann, Frederick, New York, N. Y. Adjustable tie clasp. 1,635,791; July 12.
- Jagenberg, Emil, Dusseldorf, Germany. Cigarette-packing machine. 1,615,626; Jan. 25.
- Jagenberg, Emil, Dusseldorf, Germany. Filling and packing machine. 1,624,664; Apr. 12.
- Jäger, Karl, Werden-Ruhr, Germany. Textile fabric. Des. 72,557; May 8.
- Jagoe, Alice F., Bogota, N. J. Creeping garment for babies. 1,618,012; Feb. 15.
- Jaguschitz, Konrad, Mainz, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Nuremberg, Bavaria, Germany. Scaling means for use in gasometers inclosing a vertically-slidable body. 1,636,963; July 26.
- Jagy, John F., et al. (See Donald, William H., assignor.)
- Jahant, Charles J., assignor to The General Tire & Rubber Company, Akron, Ohio. Golf club. 1,636,514; July 19.
- Jahn, B., Manufacturing Company, The. (See Jahn, B. and Kahl, assignors.)
- Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Window fastener. 1,650,011; Dec. 20.
- Jahn, Frederick L., assignor to Watson & McDaniel Co., Philadelphia, Pa. Screen. 1,631,822; June 7.
- Jahn, Herman C., Springfield, Ill. Wrench. 1,627,035; May 8.
- Jahn & Ollier Engraving Co. (See Ronning, Victor C., assignor.)
- Jahn, Raymond F., assignor to International Postal Supply Company, Brooklyn, N. Y. Printing-die structure. 1,623,478; Apr. 5.
- Jahnke, Albert A., San Francisco, Calif. Electrolytic cell. 1,629,246; Apr. 5.
- Jahnke, Charles B., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Oil filter. 1,644,728; Oct. 11.
- Jahr, Arthur A. (See Schultz, August E., assignor.)
- Jahr, Arthur A., Forest Park, assignor of one-half to A. E. Schultz, Chicago, Ill. Window. 1,625,611; Apr. 10.
- Jahraus, Joseph E. (See Schulz, Otto E., assignor.)
- Jakeman, John W., Altrincham, assignor to Linotype and Machinery Limited, London, England. Sheet-delivery mechanism for printing machines. 1,639,184; Aug. 16.
- Jakeway, George W. (See Paque, E. J. and Jakeway.)
- Jakobsson, Herman. (See Crook, Louis H., assignor.)
- Jakovits, Martin. (See Weinberger, V., Jakobovits, and Roth.)
- Jakopec, George and V. Schwarz, Chicago, Ill. Combined air-lock mechanism and burglar alarm. 1,639,566; Aug. 16.
- Jakosky, John J., assignor to International Precipitation Company, Los Angeles, Calif. Electrical phonograph reproducer. Des. 71,837; Jan. 11.
- Jakosky, John J., Los Angeles, Calif. Drain device. 1,629,089; Apr. 26.
- Jakosky, John J., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for sound reproductions. 1,626,088; Apr. 26.
- Jakowsky, Jay J., Los Angeles, Calif. Process of and apparatus for distilling bituminiferous material. 1,622,722; Mar. 29.
- Jakuliak, Edmund J., Detroit, Mich. Light support. 1,643,455; Sept. 27.
- Jakubiec, Kazimierz, Chicago, Ill. Shade-roller holder and curtain-rod bracket. 1,634,304; July 5.
- Jakert, Georges, assignor of one-half to Société Parisienne de Confection, Paris, France. Lay figure. 1,653,180; Dec. 20.
- James, Albert, Eureka, Calif. Guard for hair clippers. 1,652,439; Dec. 13.
- James, Albert E., Natchez, Miss. Oil-burning stove. 1,632,971; June 21.
- James, Albert S., Eureka, Calif. Attachment for tank vents. 1,627,095; May 8.
- James, Chieley, Corydon, Iowa. Corn planter. 1,640,238; Aug. 23.
- James, Charles H., Spokane, Wash., assignor to United Autographic Register Company, Chicago, Ill. Manifold device. 1,648,482; Nov. 8.
- James Corporation Limited. (See Gosling, William J., assignor.)
- James, Edmund L., New York, N. Y. Belt and buckle clasp. 1,615,085; Jan. 18.
- James, Edwin F., Cleveland, Ohio. Refrigerating apparatus. 1,626,835; May 8.
- James, Edwin P., Abington, Pa. Folding stool or table. 1,652,942; Dec. 13.
- James, Henry D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. 1,622,649; Mar. 29.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,647,295; Nov. 1.
- James, Hubert S. (See Duprey, Louis J., assignor.)
- James, James V., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tube-making method and apparatus. 1,626,412; Apr. 26.
- James, Joe, Brownwood, Mo. Bottle capper. 1,618,879; Feb. 22.
- James Joe, Brownwood, Mo. Filtering device. 1,621,413; Mar. 15.
- James, John A., Sales, La. Clevis. 1,618,663; Feb. 22.
- James, Joseph, Hobart, Tasmania, Australia. Variable-transmission gearing. 1,626,611; May 8.
- James Manufacturing Company. (See Markey, George T., assignor.)
- James Manufacturing Company. (See Olson, J. B., and Shodron, assignors.)
- James Manufacturing Company. (See Stader, O., and Olson, assignors.)
- James, Nepthamus E., et al. (See Clayton, William F., assignor.)
- James, Samuel W., Chicago, Ill. Service platter. Des. 73,744; Nov. 1.
- James, Samuel W., Chicago, Ill. Serving implement. 1,643,456; Sept. 27.
- James, Sidney V., assignor to William A. Rogers, Ltd., Niagara Falls, N. Y. Spoon. Des. 72,769; May 31.
- James, Thomas, Battle Creek, Mich. Surgical appliance. 1,615,945; Feb. 1.
- James, William, et al. (See Meyer, Svend M., assignor.)
- James, William A., Hugoton, Kans. Broomcorn harvester and cleaner. 1,615,981; Feb. 1.
- James, William D. (See Tooker, Harry S., assignor.)
- James, William E., et al. (See Clayton, William F., assignor.)
- James, William R., Portland, Oreg. Brush with detachable handle. 1,630,703; May 31.
- Jameson, Percy R., assignor to Taylor Instrument Companies, Rochester, N. Y. Barometer-setting means. 1,632,736; June 14.
- Jameson, Stenstrom W., Duluth, Minn. Shaft-kila construction. 1,630,489; May 31.
- Jangotche, Hagop A., Minneapolis, Minn. Stair-carpet fastener. 1,629,505; Apr. 26.
- Janieson, Charles M., assignor, by mesne assignments, to Brodrex Company, Winter Haven, Fla. Bufling apparatus. 1,651,850; Nov. 29.
- Janison, Frank E., Kansas City, Kans. Attachment for paper-folding machines. 1,627,333; May 3.
- Janison, George S., et al. (See Chapman, Charles E., assignor.)
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave signaling system. 1,613,951; Jan. 11.
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-transmission system. 1,617,591; Feb. 15.
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave-transmission system. 1,617,392; Feb. 15.
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-transmission system. 1,617,393; Feb. 15.
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission regulation. 1,623,600; Apr. 5.
- Jammer, Jacob S., Cumberland, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiplex transmission. 1,624,551; Apr. 12.
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,632,078; June 14.
- Jammer, Jacob S., Cumberland, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater circuit for multiplex systems. 1,632,900; June 21.
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission regulation. 1,642,499; Sept. 13.
- Jans, Meesters, Abraham M., Djokjakarta, Java, Dutch East Indies, assignor to N. V. Constructie Atelier der Vorstenlanden, Djokjakarta, Netherlands East Indies. Three-roller sugar-cane mill with a particularly arranged feed roller. 1,621,077; Mar. 15.

- Jandac, Edward J., Chicago, Ill. Milling-machine attachment, 1,614,245; Jan. 11.
 Jancke, Benno F., assignor to Shelton-Jancke Corporation, New York, N. Y. Heater for hair waving, 1,618,592; Feb. 22.
 Jancke, Benno F., assignor, by mesne assignments, to Halliwell-Shelton Electric Corporation, New York, N. Y. Electric massage machine, 1,630,435; May 31.
 Jancke, Benno F., Brooklyn, assignor, by mesne assignments, to Halliwell-Shelton Electric Corporation, New York, N. Y. Air-purifying device, 1,637,448; Aug. 2.
 Jancke, Benno F., Brooklyn, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Electronic device, 1,647,364; Nov. 1.
 Janda, Anna J., Chicago, Ill. Marcel waver, 1,615,702; Jan. 25.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,300; Aug. 23.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,308; Aug. 23.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,309; Aug. 23.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,318; Aug. 23.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,319; Aug. 23.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,320; Aug. 23.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,321; Aug. 23.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper-supporting means, 1,614,734; Jan. 18.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Automobile bumper, 1,623,412; Apr. 5.
 Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamping device for bumpers and like articles, 1,649,165; Nov. 15.
 Jandus, Herbert S., and R. A. Flum, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,280; Aug. 23.
 Jandus, Herbert S., and H. L. Blydenburgh, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper, 1,623,413; Apr. 5.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,292; Aug. 23.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,299; Aug. 23.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,314; Aug. 23.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,315; Aug. 23.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,608; Oct. 11.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 73,700; Oct. 25.
 Jandus, Herbert S., and E. Rush Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 73,838; Nov. 15.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 73,839; Nov. 15.
 Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 73,841; Nov. 15.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper, 1,638,789; Nov. 15.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,293; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,294; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,295; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,305; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,310; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,311; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,312; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,313; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,314; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp for vehicle bumpers. Des. 73,315; Aug. 23.
 Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 73,837; Nov. 15.
 Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,837; Nov. 15.
 Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,838; Nov. 15.
 Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,839; Nov. 15.
 Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,840; Nov. 15.
 Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,841; Nov. 15.
 Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,842; Nov. 15.
 Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,843; Nov. 15.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,296; Aug. 23.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,297; Aug. 23.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,298; Aug. 23.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,301; Aug. 23.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 73,303; Aug. 23.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Plate for vehicle bumpers. Des. 73,304; Aug. 23.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Plate for vehicle bumpers. Des. 73,307; Aug. 23.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 73,701; Oct. 25.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 73,702; Oct. 25.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 73,836; Nov. 15.
 Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 73,842; Nov. 15.
 Jane, William T. (See Greenawalt, Ralph D., assignor.)
 Janer, Andre, Flushing, N. Y. Ash tray, Re16,628; May 24.
 Janer, Andre, Flushing, N. Y. Discharge mechanism for containers, 1,620,892; Mar. 15.
 Janer, Andre, Flushing, N. Y. Receptacle, 1,622,318; Mar. 29.
 Janesville Products Company. (See Kohler, Walter R., assignor.)
 Janette, John T., Chicago, Ill. Motor-driven apparatus, 1,613,034; Jan. 4.
 Janette, John T., Chicago, Ill. Brush holder, 1,614,616; Jan. 18.
 Janette, John T., Chicago, Ill. Strainer, 1,616,577; Feb. 8.
 Janette, John T., Chicago, Ill. Brush-holder connection, 1,651,059; Nov. 29.
 Janette, John T., Chicago, Ill. Heating apparatus, 1,651,060; Nov. 29.
 Janette, John T., Chicago, Ill. Motor construction, 1,651,061; Nov. 29.
 Jankus, Jack C. (See Otto S., and Jankus.)
 Jankus, Jack C., Scranton, Pa., assignor, by mesne assignments, to Iceless Automatic Refrigerator Company, Dover, Del. Refrigerator box, 1,646,616; Oct. 25.
 Jannek, Josef, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Purifying gases, 1,631,823; June 7.
 Jannek, Josef, G. Wietzel, and F. Stoenewer, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Recovery of volatile substances, 1,614,615; Jan. 18.
 Janney, Charles L., et al. (See Winterling, William F., assignor.)
 Janosck, Albin B., Corpus Christi, Tex. Harrow, 1,625,318; Apr. 19.
 Janosko, George J., Anaconda, Mont. Snow shovel, 1,628,782; May 17.
 Janseen, Hendrik, J. J., assignor to Naamloze Venootschap, Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Manufacture of textile fibers, Arns, fabrics, or the like for obtaining effects of color or luster, or both, 1,653,962; Dec. 27.
 Jansen, Harry. (See Thurston, H., and Jansen.)

- Janso, Ernest J. (See Richards, E. W., and Janso.)
- Janson, Edwin, Webster City, Iowa. Boiler-clean-out device. 1,616,372; Feb. 1.
- Janson, George W. Nutley, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Messenger-call circuits and switching apparatus therefor. 1,640,325; Aug. 23.
- Janssens, Henry, assignor to Textile Machine Works, Wyo. missing, Pa. Braiding carrier. 1,630,266; May 31.
- Janssen, Henry, assignor to Textile Machine Works, Wyo. missing, Pa. Braiding carrier. 1,651,527; Dec. 6.
- Jantzen, Carl C., Portland, Oreg., assignor to Jantzen Knitting Mills. Bathing suit. 1,616,733; Nov. 8.
- Jantzen Knitting Mills. (See Jantzen, Carl C., assignor.)
- Jantzen, Paul, Newark, N. J. Trouser-cuff support. 1,654,083; Dec. 27.
- Janus, William, St. Louis County, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable eccentric chair for brake beams. 1,622,516; Mar. 29.
- Janzen, Franz, Berlin-Tempelhof, assignor to W. Vobach, Berlin, Germany. Producing chromophotographs on paper and chromodiatropics. 1,613,515; Jan. 4.
- Janzen, Otto, Berlin, Germany. Bearing for movements and driving gears. 1,626,536; Apr. 26.
- Japolsky, Nicolas. (See Kostenko, M., and Japolsky.)
- Japolsky, Nicolas, and M. Kostenko, London, England. Electric driving installation. 1,617,394; Feb. 15.
- Japs, Bernard W., Minneapolis, Minn. Loose-leaf binder. 1,626,280; Apr. 26.
- Jaquemot, Eugene. (See Pattay, M. A., and Jaquemot.)
- Jaques, Donald E. (See Holmes, A. W., Jaques, and Coats.)
- Jaquette, Albert G., et al. (See Replogle, Ulysses G., assignor.)
- Jaquette, Hazel E., et al. (See Replogle, Ulysses G., assignor.)
- Jaquith, William E. (See Bodle, V. H., and Jaquith.)
- Jaquith, William E. (See Carpenter, C. L., and Jaquith.)
- Jaquith, William E., B. A. Evans, and G. Foerster, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for covering tires. 1,639,408; Aug. 16.
- Jaray, Paul, Friedrichshafen, Germany. Motor car. 1,631,269; June 7.
- Jardh, Wilhelm. (See Axelsson, J. C., and Jardh.)
- Jardine, A. B., & Co. Limited. (See Jardine, James V., assignor.)
- Jardine, James V., assignor to A. B. Jardine & Co. Limited, Hespeler, Ontario, Canada. Pipe cutter or threader. 1,641,928; Sept. 6.
- Jardine, Robert, assignor to Rich Tool Company, Chicago, Ill. Roller tapper for poppet valves and making the same. 1,633,331; June 21.
- Jardine, Robert, assignor to Rich Tool Company, Detroit, Mich. Tapper and making same. 1,649,409; Nov. 15.
- Jardine, Thomas. (See Smith, J. D., and Phillips, assignors.)
- Jardot, Louis J., Stillwater, Okla. Bricklayer's gauge. 1,641,854; Sept. 6.
- Jarecki, Frank J., Grand Rapids, Mich. Machine for use in welding. 1,642,548; Sept. 13.
- Jarecki, Frank J., Grand Rapids, Mich. Welding fixture. 1,642,549; Sept. 13.
- Jaret, Joseph T., Brooklyn, N. Y., assignor to Sun-Ray Lighting Products Co., Inc., New York, N. Y. Lamp. Dec. 72,950; June 28.
- Jarmagin, Harry S., assignor to one-half to R. W. Bidwell, Richmond Heights, Mo. Locomotive-boiler construction. 1,622,012; Mar. 29.
- Jaros, Matthew. (See Clarke, Patrick J., assignor.)
- Jarrett, Brooke L. (See Stuart, Wallace A., assignor.)
- Jarrett, Isaac, Cincinnati, Ohio. Sterilizing food and beverage products. 1,630,661; May 31.
- Jarvis, Charles D., San Francisco, Calif. Automatic air pressure equalizer. 1,651,773; Dec. 6.
- Jarvis, Charles H., assignor to United Steel and Wire Company, Battle Creek, Mich. 1,619,259; Mar. 1.
- Jarvis, Charles H., assignor to United Steel and Wire Company, Battle Creek, Mich. Rack. 1,645,533; Oct. 18.
- Jarvis, Frank J. (See Jarvis, Nelson L. and F. J.)
- Jarvis, George O. (See Dunn, Lorraine, assignor.)
- Jarvis & Jarvis, Inc. (See Jarvis, Nelson L. and F. J., assignors.)
- Jarvis, Lewis A., Grand Rapids, Mich. Water gauge for automobile radiators. 1,630,388; May 31.
- Jarvis, Nelson L. and F. J., Palmer, Mass. Caster. 1,633,638; June 28.
- Jarvis, Nelson L. and F. J., assignors to Jarvis & Jarvis, Inc., Palmer, Mass. Service cart. 1,649,005; Nov. 15.
- Jarvis, William B., Grand Rapids, Mich. Radiator cap. 1,645,384; Oct. 11.
- Jarvis, William B., Grand Rapids, Mich. Radiator cap and the like. 1,648,129; Nov. 8.
- Jarvis, William B., Grand Rapids, Mich. Radiator cap. 1,648,130; Nov. 8.
- Jarvis, William B., Grand Rapids, Mich. Radiator cap. 1,648,131; Nov. 8.
- Jasper, Karl T., Hattingsen, assignor to the Firm Maschinenfabrik G. Haubert, E. Hinselmann & Co., Gesellschaft mit beschränkter Haftung, Essen, Germany. Pneumatic tool. 1,613,172; Jan. 4.
- Jasperson, Charlie, Baldwin Township, Sherburne County, Minn. Potato harvester. 1,650,753; Nov. 29.
- Jasperson, Charlie, Princeton, Minn. Potato picker, cleaner, sorter, and bagger. 1,641,492; Sept. 6.
- Jaspet, William B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molding gears. 1,622,116; Mar. 22.
- Jaspet, William B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode-feeding means. 1,643,773; Sept. 27.
- Jassen, Bern, Brooklyn, N. Y. Automobile mirror. 1,629,458; May 17.
- Jassen, Bern, New York, N. Y. Wind deflector for automobiles. 1,634,280; July 5.
- Jauch, Robert J., Fort Wayne, Ind. Foot rest for shoe-shining stands. 1,622,832; Mar. 29.
- Jauch, Robert J., Fort Wayne, Ind. Paper-tube-making machine. 1,625,470; Apr. 19.
- Jauch, Robert J., Fort Wayne, Ind. Tube ironing and grinding device. 1,625,471; Apr. 19.
- Jauvert, Pierre M., Toulon, France. Refrigerating apparatus. 1,626,836; May 3.
- Javins, John M., et al. (See Ward, Andrew W., assignor.)
- Jaxon, George S., Huntington, W. Va., assignor to Link-Belt Company, Chicago, Ill. Coal-handling plant. 1,617,117; Feb. 8.
- Jaxon, George S., Huntington, W. Va., assignor to Link-Belt Company, Chicago, Ill. Inspection and weighing apparatus. 1,619,732; Mar. 1.
- Jayne, James R., assignor to American Steel Wheel Corporation, Chicago, Ill. Steel vehicle wheel. 1,637,256; July 26.
- Jayne, Irving, and E. R. Rinker, Davenport, Wash. Hair-waving device. 1,638,442; Aug. 9.
- Jean, Evariste L., Fall River, Mass. Gas-stove attachment. 1,633,101; Dec. 20.
- Jeannette, Glass Company. (See Rinken, Peter G., assignor.)
- Jeannin Electric Company, The. (See Jeannin, Harry W., assignor.)
- Jeannin, Harry W., assignor to The Jeannin Electric Company, Toledo, Ohio. Electric motor. 1,638,551; Aug. 9.
- Jeannotte, Arthur A., Nashua, N. H. Combined stool, steps, and tool box. 1,635,183; July 12.
- Jeannotte, Emile A., Montreal, Quebec, Canada. Passing light. 1,626,281; Apr. 26.
- Jeavons, Albert N., et al. (See Rentschler, Mahlon J., assignor.)
- Jeavons, William R., et al. (See Rentschler, Mahlon J., assignor.)
- Jeck, George G. (See Clemmensen, Peter C., assignor.)
- Jefferies, Ebenezer A. W. (See Jefferies, Ernest S., assignor.)
- Jefferies, Ernest S., Hamilton, Ontario, Canada, assignor to one-third to E. A. W. Jefferies, Worcester, Mass. Electrical heating of metal stock. 1,647,296; Nov. 1.
- Jefferies, Samuel L., Gaffney, S. C. Dental casting machine. 1,635,911; Dec. 27.
- Jeffers, Bailey L., assignor to one-half to H. C. Gay, Spokane, Wash. Pan holder. 1,632,972; June 21.
- Jeffers, Carl H., Canton, Ohio. Locomotive stoker. 1,613,110; Jan. 4.
- Jeffers, John F., Burbank, Calif. Saw guide. 1,615,703; Jan. 25.
- Jefferson, Benjamin H., assignor to Lyon & Healy, Inc., Chicago, Ill. Devices for indicating position of pianos on floors or other surfaces. 1,622,445; Mar. 29.
- Jefferson Construction and Oil Treating Company, The. (See Coggeshall, G. W., and Reilly, assignors.)
- Jefferson Electric Manufacturing Company. (See Daley, James C., assignor.)
- Jefferson, Jerome D., Federalsburg, Md., assignor to Del-Mar-Va Sales Company, Laurel, Del. Poultry catcher. 1,630,946; May 31.
- Jefferson, Jerome D., Federalsburg, Md., assignor to Del-Mar-Va Sales Company, Laurel, Del. Impaling trap. 1,635,890; July 12.
- Jefferson, Jordan J. (See Wilburn, J., and Jefferson.)
- Jeffery, Joseph A., and E. T. Montgomery, assignors, by mesne assignments, to Champion Porcelain Company, Detroit, Mich. Ceramic insulating material. 1,631,729; June 7.
- Jeffery, Joseph A., and E. T. Montgomery, assignors, by mesne assignments, to Champion Porcelain Company, Detroit, Mich. Ceramic material. 1,631,730; June 7.
- Jeffrey Manufacturing Company, The. (See Francisco, George D., assignor.)
- Jeffrey Manufacturing Company, The. (See Holmes, Morris P., assignor.)
- Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
- Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
- Jeffreys, William L., Riverton, Nebr. Power plant. 1,637,115; July 26.
- Jeffries, John C., Angola, Ind. Balt. 1,653,400; Dec. 20.
- Jeffries, Schuchter A., assignor to Rec Motor Car Company, Lansing, Mich. Transmission. 1,619,127; Mar. 1.
- Jehle, Gottfried, Zurich, Switzerland. Hand planing machine. 1,636,863; July 26.
- Jelbert, Martin, Jr., Lead, S. Dak. Piston-ring contractor. 1,625,258; Apr. 19.
- Jelenko, J. F., & Co. (See Aderer, Hugo, assignor.)

- Jelley, Henry, Birmingham, and J. Jelley, Coventry, Eng-
land. Manufacture of cycle and like saddles. 1,620,554;
Mar. 8.
- Jelley, James. (See Jelley, Henry and J.)
- Jelley, James J. (See Ledyard, H. A., and Jelley.)
- Jelliff, C. O., Manufacturing Corporation, The. (See
Bunnell, E. C. and Messenger, assignors.)
- Jellinek, Karl, and W. Christ, Offenbach-on-the-Main, as-
signors to G. Farbenindustrie Aktiengesellschaft,
Frankfort-on-the-Main, Germany. Producing ice colors
on cotton. 1,638,121; Aug. 9.
- Jellinek, Charles, et al. (See Pecker, Joseph S., assignor.)
- Jencich, Stephen, Cleveland, Ohio. Starting device for
internal-combustion engines. 1,620,102; Mar. 8.
- Jenckes Knitting Machine Company. (See Miller, Max
C., assignor.)
- Jenkins, Addison, assignor to D. C. Jenkins Glass Co.,
Kokomo, Ind. Ash tray. Des. 74,112; Dec. 20.
- Jenkins, Alexander F., Boone, Md. Acetylene generator.
1,646,252; Oct. 18.
- Jenkins, Carl H. (See Smith, Earl H., assignor.)
- Jenkins, Charles E., Boston, Mass. Food-conveying
truck. 1,654,330; Dec. 27.
- Jenkins, Charles F., Washington, D. C. Airplane stop.
1,634,904; July 5.
- Jenkins, Charles F., Washington, D. C. Web message
receptor. 1,635,324; July 12.
- Jenkins, Charles F., Washington, D. C. Film-piercing
spark unit. 1,639,775; Aug. 23.
- Jenkins, Charles F., Washington, D. C. Multiple light-
cell transmitter. 1,641,638; Sept. 6.
- Jenkins, Charles F., Washington, D. C. Radio tablet
method. 1,642,110; Sept. 13.
- Jenkins, Charles F., Washington, D. C. Twin-light-cell
transmitter. 1,642,733; Sept. 20.
- Jenkins, Charles F., Washington, D. C. Billboard radio
picture receiver. 1,643,660; Sept. 27.
- Jenkins, Charles F., Washington, D. C. Twin-blade trans-
mitter. 1,644,382; Oct. 4.
- Jenkins, Charles F., Washington, D. C. Plural lens-disk
analyzer. 1,644,383; Oct. 4.
- Jenkins, Charles F., Washington, D. C. Apparatus for
converting electrical impulses into graphic representa-
tions. 1,650,361; Nov. 22.
- Jenkins, Charles F., assignor to Jenkins Laboratories,
Washington, D. C. Flexing mirror. Rel.6,767; Oct. 11.
- Jenkins, Charles F., Washington, D. C., assignor to Jen-
kins Laboratories. Prim-lens disk. 1,646,789; Nov. 22.
- Jenkins, Charles F., assignor to Jenkins Laboratories,
Washington, D. C. Two-way oscillating mirror.
Rel.6,790; Nov. 22.
- Jenkins, Charles F., Washington, D. C., assignor to Jen-
kins Laboratories. Pneumatically-controlled light valve.
Des. 7,818; Dec. 13.
- Jenkins, Charles F., assignor to Discrola, Inc., Washington,
D. C. High-speed motion-picture machine. 1,618,090;
Feb. 15.
- Jenkins, D. C., Glass Co. (See Jenkins, Addison, as-
signor.)
- Jenkins, Earl R., New York, N. Y. Whirligig. 1,621,784;
Mar. 22.
- Jenkins, Floyd A., Olden, Tex. Load binder. 1,636,638;
July 19.
- Jenkins, George M. O., London, England, assignor to
Western Electric Company, Incorporated, New York,
N. Y. Pneumatic valve. 1,632,078; June 14.
- Jenkins, Henry C., Hove, England. Device for com-
pressing valve springs of internal-combustion engines
and for like purposes. 1,622,319; Mar. 29.
- Jenkins, John D., and E. F. Berger, Milwaukee, Wis., as-
signors to Pittsburgh Plate Glass Company. Pyrexide
containing copper and making the same. 1,642,370;
Sept. 13.
- Jenkins, John E., Chicago, Ill. Rheostat. 1,621,466;
Mar. 15.
- Jenkins Laboratories. (See Jenkins, Charles F., as-
signor.)
- Jenkins Machine Company. (See Stuedeman, Anton G.,
assignor.)
- Jenkins, Nathan, Chicago, Ill. Buckle. 1,648,017;
Nov. 8.
- Jenkins, Richard H. (See Reynolds, H. W., and Jenkins.)
- Jenkins, Samuel B., West Barnstable, assignor to H. N.
Sweet, Boston, Mass. Berry-picking machine.
1,622,117; Mar. 22.
- Jenkins, Stanley S. (See Hammond, Robert O., as-
signor.)
- Jenkins, Stanley S., Buffalo, N. Y., assignor to Livezey
Surgical Service, Inc., Newark, N. J. Invalid lifter
and carrier. 1,641,388; Sept. 6.
- Jenkins, Wellington E., Pittsburg, Kans. Container for
blasting charges. 1,638,038; Aug. 9.
- Jenkins, William, Detroit, Mich. Attachment for alarm
clocks. 1,648,902; Nov. 15.
- Jenkins, William A., Wilmington, Calif. Thread-cutting
die. 1,652,673; Dec. 13.
- Jenkins, William L., London, England. Memorandum
appliance. 1,629,459; May 17.
- Jenkins, William L., sr., Ann Arbor, Pa., assignor of one-
half to J. A. Ellisism, Wheeling, W. Va. Apparatus
for annealing metal plates and sheets. 1,615,627;
Jan. 25.
- Jenkinson, Ellis L., San Jose, Calif. Gasoline filling
apparatus. 1,650,837; Nov. 29.
- Jenkinson, Richard C. (See Bauer, Adolph, assignor.)
- Jenkinson, Richard C., & Co. (See Bauer, Adolph, as-
signor.)
- Jenks, Abbott B. (See Coates, S. D., Davis, and Jenks.)
- Jenks, Charles R., assignor of one-half to C. M. Rawlins,
Cleveland, Ohio. Soda-fountain draft-arm valve.
1,630,947; May 31.
- Jenks, Edwin A., Alderpoint, Calif. Roadway embank-
ment. 1,633,321; June 21.
- Jenks, Fred A., Plymouth, assignor to Plymouth Cordage
Company, North Plymouth, Mass. Label for rope.
1,635,750; July 12.
- Jenks, John S., Pittsburgh, Pa. Washing machine.
1,632,407; June 14.
- Jenks, Stuart W., Washington, D. C. Electrolytic re-
flector. Rel.6,733; Sept. 6.
- Jenner, George O., assignor to Oxford Press Incorporated,
Los Angeles, Calif. Mailing card. 1,632,185; June 14.
- Jennerjahn, Walter. (See Pomplun, E., and Jennerjahn.)
- Jenney, Thacher, Lexington, Mass., and H. G. Miner,
Louisville, Ky., assignors to American Soda Fountain
Company. Refrigerated compartment and cover there-
for. 1,615,628; Jan. 25.
- Jennings, Carl E., Graham, Calif. Radiomantel. Des.
72,016; Feb. 15.
- Jennings, Harvey L. (See Bell, A. W., sr., and Jen-
nings.)
- Jennings, Henry B., jr., Long Island, Va. Loose-leaf
binder. 1,620,103; Mar. 8.
- Jennings, Henry B., jr., Leesburg, Va. Loose-leaf binder.
1,620,104; Mar. 8.
- Jennings, Henry B., jr., Leesburg, Va. Loose-leaf binder.
1,620,105; Mar. 8.
- Jennings, Henry B., jr., Leesburg, Va. Loose-leaf binder.
1,630,849; May 31.
- Jennings, Henry T. (See Gelger, E. A. Schraegle, and
Jennings.)
- Jennings, J. Claud, Winoosboro, Tex. Mattress-display
rack. 1,626,282; Apr. 26.
- Jennings, James W. (See Green, H. K., and Jennings.)
- Jennings, John F., Cleveland, Ohio. Race-course con-
struction. 1,634,326; July 5.
- Jennings, John T., Birmingham, England. Carburetor.
1,623,683; Apr. 5.
- Jennings, Oliver S., Brooklyn, N. Y., assignor to West-
inghouse Electric & Manufacturing Company. Meter-
testing-switch mechanism. 1,615,704; Jan. 25.
- Jennings, Oliver S., Brooklyn, N. Y., assignor to West-
inghouse Electric & Manufacturing Company. Switch
mechanism. 1,642,027; Sept. 13.
- Jennings, Oliver S., Brooklyn, N. Y., assignor, by mesne
assignments, to Westinghouse Electric & Manufacturing
Company. Switch box. 1,652,531; Dec. 13.
- Jennings, Oliver S., Edgewood Park, Pa., assignor to
Westinghouse Electric and Manufacturing Company.
Switch mechanism. 1,630,389; May 31.
- Jennings, R. J. (See Tyson, William M., assignor.)
- Jennings, Robert G., Elmira, N. Y. Winding and dyeing
apparatus. 1,627,849; May 10.
- Jennings, Robert G., Elmira, N. Y. Jet-dyeing apparatus
and process. 1,627,850; May 10.
- Jennings, Valerius T., Chicago, Ill. Hanger bar for outlet
boxes. 1,615,829; Jan. 25.
- Jennings, Victor H., assignor to Crompton & Knowles
Loom Works, Worcester, Mass. Device to prevent ro-
tation of bobbins. 1,626,837; May 3.
- Jennings, Victor H., assignor to Crompton & Knowles
Loom Works, Worcester, Mass. Thread cutter for
looms. 1,647,702; Nov. 1.
- Jennings, Victor H., and H. H. Watson, assignors to
Crompton & Knowles Loom Works, Worcester, Mass.
Thread cutter for looms. 1,643,457; Sept. 27.
- Jennings, William A., Raytown, Mo. Cylinder-honing tool.
1,647,133; Nov. 1.
- Jennings, William A., Raytown, Mo. Cylinder-honing
tool. 1,647,134; Nov. 1.
- Jennings, William F., London, England. Compression
pump. 1,646,294; Oct. 18.
- Jenny, Willy, Houston, Tex., assignor to Roxana Petro-
leum Corporation. Calculating machine. 1,653,462;
Dec. 20.
- Jensch, Heinrich, Höchst-on-the-Main, assignor to I. G.
Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-
Main, Germany. Acridine derivatives and making same.
1,629,873; May 24.
- Jenschke, Adolph, Fredericksburg, Tex. Automobile shock
absorber. 1,619,422; Mar. 1.
- Jensen, Adolph C., W. Moloney, and G. Biltgen, Chicago,
Ill. Window-cleaning device. 1,628,783; May 17.
- Jensen, Andrew M., Stockton, Calif. Griddle greaser.
1,612,926; Jan. 4.
- Jensen, Carl C., Chicago, Ill. Fastening device.
1,625,612; Apr. 19.
- Jensen, Hans, C. E. Salsbery, and G. G. Graham, Kansas
City, Mo. Producing anthrax aggressin. 1,615,878;
Feb. 1.
- Jensen, Hans C., Port Clinton, Ohio. Catoptric light.
1,629,506; May 24.
- Jensen, Hans P., Aumsville, Ore. Vehicle coupling.
1,650,838; Nov. 29.
- Jensen, Henry J., Schleswig, Iowa. Hay holst.
1,614,617; Jan. 18.
- Jensen, James A., assignor to Quaker City Iron Works,
Philadelphia, Pa. Emergency valve-control system for
tank vehicles. 1,626,283; Apr. 26.

- Jensen, James A., assignor to Quaker City Iron Works, Philadelphia, Pa. Closure for filler openings. 1,654,501; Dec. 27.
- Jensen, Jens C., and O. L. Miles, Chicago, Ill.; said Jensen assignor to said Miles. Article-dispensing device. 1,620,766; Mar. 15.
- Jensen, Jens J., assignor to Bogdill & Jacobsen, Copenhagen, Denmark. Machine for casting chocolate. 1,645,605; Oct. 11.
- Jensen, Jens O., Baltimore, Md. Cooling comminuted solid material. 1,619,577; Mar. 1.
- Jensen, John, Houston, Tex. Tie holder. 1,624,737; Apr. 12.
- Jensen, Josef E., Frederiksberg, near Copenhagen, Denmark. Manufacturing floor slabs and the like of cork and similar materials. 1,640,659; Aug. 30.
- Jensen, Kresten R. (See Jensen, William G. and K. R.)
- Jansen, Louis. (See Barker, W. R., and Jensen.)
- Jensen, Louis, assignor to United Autographic Register Company, Chicago, Ill. Web-feeding mechanism. 1,627,905; May 10.
- Jensen, Louis, assignor to United Autographic Register Company, Chicago, Ill. Autographic register. 1,648,549; Nov. 8.
- Jensen, Louis, Chicago, assignor to United Autographic Register Company, Chicago, Ill. Autographic register. 1,651,456; Dec. 6.
- Jensen, Nels, Grass Valley, Calif. Display rack. 1,625,544; Apr. 19.
- Jensen, Peter L. (See Pridham, E. S., and Jensen.)
- Jensen, Rasmus N., Salt Lake City, Utah. Wall board. 1,635,214; July 12.
- Jensen, Rasmus N., Salt Lake City, Utah. Lathing sheet. 1,646,483; Oct. 25.
- Jensen, Robert, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Resilient gearing. 1,637,379; Aug. 2.
- Jensen, Severin, St. Paul, Minn. Mortar-laying machine. 1,613,833; Jan. 11.
- Jensen, Soren, Los Angeles, Calif. Adjustable can opener and liquid preserver. 1,636,821; July 26.
- Jensen, Soren G., Green River, Wyo. Combined emergency tire and towline. 1,652,442; Dec. 13.
- Jensen, Thomas C., assignor to Scandinavian Export Agency, Ltd., Copenhagen, Denmark. Automatic weighing scale. 1,623,414; Apr. 5.
- Jensen, William G. and K. R., Nowata, Okla. Pump jack. 1,621,414; Mar. 15.
- Jeppson, George N., assignor to Norton Company, Worcester, Mass. Aggregate-cement tile. 1,619,733; Mar. 1.
- Jeppson, George N., and M. F. Beecher, assignors to Norton Company, Worcester, Mass. Making laminated ceramic articles. 1,614,926; Jan. 18.
- Jeppson, George N., and C. L. Leafie, assignors to Norton Company, Worcester, Mass. Terrazzo tile and making the same. 1,619,734; Mar. 1.
- Jeppsson, Ivar. (See Lundberg, G. E., and Jeppsson.)
- Jepson, Julius. (See Polachek, J., Jepson, and Peremi.)
- Jepson, John W., Elizabeth, N. J. Brake. 1,643,733; Apr. 5.
- Jepson, Percy, St. Kilda, Victoria, Australia. Machine for pitting drupeaceous fruits. 1,617,909; Feb. 15.
- Jerabek, Bernard D., Hutchinson, Minn. Wheel puller. 1,620,211; Mar. 8.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel-reserve supply system for motor vehicles. 1,628,150; May 10.
- Jereszek, Viktor, Weissensee, near Berlin, assignor to Stock Motordruck Aktiengesellschaft, Berlin, Germany. Chain wheel for chain-track drives. 1,633,746; June 28.
- Jerome, Benjamin, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,631,208; June 7.
- Jerome, Edward, New York, N. Y. Musical instrument. 1,652,627; Dec. 13.
- Jernie, William, San Francisco, Calif. Pneumatic bumper. 1,645,056; Oct. 11.
- Jerry-J., Inc. (See Cohen, Samuel H., assignor.)
- Jerry-Creme Company. (See Boswell, John S., assignor.)
- Jervy, Thomas M., U. S. Army, Aberdeen, Proving Ground, Md. Machine gun. 1,630,932; May 31.
- Jervy, Thomas M., Washington, D. C. Automatic gun. 1,651,128; Nov. 29.
- Jervy, Thomas M., Aberdeen, Md., and S. G. Green, Gray, Ga. Mount for machine guns. 1,625,124; Apr. 19.
- Jesdale, Charles, Chicago, Ill. Fuel-mixture homogenizer. 1,643,072; Sept. 20.
- Jeske, Clarence W., Walnut Grove, Minn. Motor-cycle stand. 1,622,383; Mar. 29.
- Jesnik, Charles, Philadelphia, Pa. Automatic cigarette-delivering container. 1,639,295; Aug. 16.
- Jesnik, Charles, Philadelphia, Pa. Automatic cigarette-delivering container. 1,639,296; Aug. 16.
- Jespersen, Helgo W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for coating cores. 1,615,387; Jan. 25.
- Jespersen, Helgo W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Moisture-extracting apparatus. 1,615,388; Jan. 25.
- Jespersen, Helgo W., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working pulposus material. 1,633,181; June 21.
- Jespersen, Hans P., Sioux City, Iowa. Oil pump. 1,624,738; Apr. 12.
- Jessen, Charles C., assignor to Atlas Powder Company, Wilmington, Del. Spinning machine. 1,617,118; Feb. 8.
- Jessen, Charles C., assignor to Atlas Powder Company, Wilmington, Del. Manufacture of artificial silk. 1,621,590; Mar. 22.
- Jessen, Christian. (See Schulz, P. H., and Jessen.)
- Jesser, Albert E. (See McCrery, H. E., Jesser, and Montgomery.)
- Jessup & Moore Paper Co., The. (See Plumstead, Joseph E., assignor.)
- Jessup, Samuel A., Charlottesville, Va. Bottle. Des. 1,737,676; Feb. 8.
- Jester, John R. (See Clark, A. T., Leonhauser, and Jester.)
- Jetel, Otto, Chicago, Ill. Laundry-bag holder. 1,638,203; Aug. 9.
- Jett, George C., assignor of two-fifths to W. H. Stienke, Milwaukee, Wis. Creeper tractor mechanism. 1,618,203; Feb. 22.
- Jett, George C., assignor of two-fifths to W. H. Stienke, Milwaukee, Wis. Snapping roll for corn harvesters. 1,641,436; Sept. 6.
- Jevons, William, Wakefield, Kans. Poultry fountain. 1,643,425; Sept. 20.
- Jewell, Charles E., Seneca Falls, N. Y. Adjustable hanger or support. 1,631,209; June 7.
- Jewell, Edward W., San Diego, Calif. Rotary-valve-type internal-combustion engine. 1,650,362; Nov. 22.
- Jewell Electrical Instrument Co. (See Simpson, Ray, assignor.)
- Jewell, Frederick C. and H. S., Chicago, Ill. Valve lifter. 1,629,708; May 24.
- Jewell, Henry S. (See Jewell, Frederick C. and H. S.)
- Jewell, Katherine D., St. Paul, Minn. Rouge and powder soap. 1,655,839; Nov. 29.
- Jewett, Anna, Lawrence, Kans. Making belts. 1,630,617; May 31.
- Jewett, Nelson J., Jewell Station, Va. Golf game. 1,615,982; Feb. 1.
- Jew, Dennis E., Old Bilton, near Rugby, England, assignor to General Electric Company. Ship propulsion. 1,618,827; Feb. 22.
- Jiffy Wire Connector Company. (See Sommer, W. R., Ree, and Kerkhof, assignors.)
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Handle for pneumatically operated tools. 1,614,130; Jan. 11.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. 1,637,192; July 26.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Crank shaft. 1,647,230; Nov. 1.
- Jimmis, John E., Oshkosh, Wis. Traffic safety gate. 1,646,820; Oct. 25.
- Jirasek, John, Detroit, Mich. Hot-water vest. 1,629,626; May 24.
- Jirotko, Bohumil, Berlin, Germany, assignor to the Firm, Dr. Otto Sprenger Patentverwertung Jirotko mit beschränkter Haftung, Vaduz, Lichtenstein. Variable condenser. 1,026,537; Apr. 26.
- Jirotko, Bohumil, Berlin, assignor to the Firm Dr. Otto Sprenger Patentverwertung Jirotko mit beschränkter Haftung, Vaduz, Germany. Apparatus for delivering measured quantities of a fluent material. 1,635,126; July 5.
- Joachim, Harry J., Webster Groves, Mo. Seat covering. 1,650,130; Nov. 22.
- Joannas Bros. Company. (See Martin, James W., assignor.)
- Job, Albert. (See Tesche, H., and Job.)
- Jobe, George M. (See Gibb, J. M., and Jobe.)
- Jobes, Frank M., Ann Arbor, Mich. Internal-combustion engine. 1,629,795; May 24.
- Jobes, Frank M., Ann Arbor, Mich. Internal-combustion engine. 1,649,700; Nov. 15.
- Jobst, Conrad, Toledo, Ohio, assignor, by mesne assignments, to The Ulline Ice-Scoring Machine Company, Wilmington, Del. Ice-scoring machine. 1,619,128; Mar. 1.
- Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Motor brake. 1,639,038; Aug. 16.
- Jochum, Luis, Buenos Aires, Argentina. Compressed-air motor for bicycles. 1,650,450; Nov. 22.
- Jodeck, Paul, Berlin, assignor to Algemeine Gesellschaft für Chemische Industrie m. b. H., Berlin-Schöneberg, Germany. Obtaining liquid sulphurous acid from the products of combustion of sulphur or sulphurous pyrites. 1,649,701; Nov. 15.
- Jodeck, Paul. (See Edelenau, L., Pfeiffer, Gress, and Jodeck.)
- Joerger, John N., and J. E. Craver, Atlantic City, N. J., assignors to Craveroller Company of American, Philadelphia, Pa. Lubricating system for internal-combustion engines. 1,632,654; June 14.
- Joesch, Bernhard, St. Louis, Mo. Dental appliance. 1,628,449; May 10.

- Joba, Elmer N. (See Rosenberg, S., and Joha.)
 Johanknigt, Jan C. The Hague, Netherlands. Advertising device. 1,632,973; June 21.
 Johannessen, Jovan E., Dunmore, Pa. Strap. 1,613,516; Jan. 4.
 Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Stationary induction apparatus. 1,644,729; Oct. 11.
 Johannesmeyer, Charles G., Glendale, assignor to The Liberty Machine Tool Company, Hamilton, Ohio. Metal-planing machine. 1,631,132; June 7.
 Johnsen, Friedrich, Clausen-on-the-Harz, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Treatment of ores and metallurgical products. 1,618,204; Feb. 22.
 Johnsen, Harry C., Michigan City, Ind., assignor to Sullivan Machinery Company. Mining machine. 1,645,007; Oct. 11.
 Johnsen, Rasmus D. (See Kittredge, E. E., Forster, and Johnsen.)
 Johnsen, Victor E., Oakland, Calif. Centrifugal switch. 1,651,708; Dec. 6.
 Johnson, Adolph T., et al., trustees. (See Johnson, Adolph T., assignor.)
 Johnson, Adolph T., Chicago, Ill., assignor to Consolidated Boilers Corporation, Benton Harbor, Mich. Heater. 1,616,960; Feb. 8.
 Johnson, Adolph T., assignor to one-half to H. V. Tutton, Benton Harbor, Mich. Water heater. 1,631,533; June 7.
 Johnson, Adolph T., assignor to M. E. Page, jr., A. T. Johnson, and C. M. Page, Chicago, Ill., as trustees for Anall Manufacturing Company. Air preheater for oil burners. 1,640,081; Aug. 23.
 Johnson, Charles, Dover, N. J. Metal-working implement. 1,636,744; July 26.
 Johnson, Emil G., Chicago, Ill. Cream separator. 1,641,493; Sept. 6.
 Johnson, Georg K. V., Lidings, assignor to Aktiebolaget Gasmasktare, Stockholm, Sweden. Gas meter. Rel.642; May 31.
 Johnson, Georg K. V., assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Fluid meter. 1,626,538; Apr. 26.
 Johnson, Georg K. V., Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Electric gas-light controlling means. 1,659,507; Aug. 16.
 Johnson, Gustaf E., Sundsvall, Sweden. Motor vehicle. 1,638,854; Aug. 16.
 Johnson, Magnus H. (See Candee, A. H., and Johnson.)
 Johnson, Magnus H., assignor to Gleason Works, Rochester, N. Y. Tool mechanism for gear-cutting machines. 1,643,813; Sept. 27.
 Johnson, Gustaf, Bay City, Mich. Display rack. 1,637,573; Aug. 2.
 Johnson, Gustav V. (See Eriksson, E. O., and Johnson.)
 Johnson, Karl M., Stockholm, Sweden. Manufacturing lathing for walls and ceilings. 1,630,618; May 31.
 John, Alfred, Gera-Ruess, Germany. Loom. 1,636,515; July 19.
 John, Ferdinand, Dusseldorf-over-Kassel, Germany. Rotary-key clutch. 1,630,183; May 24.
 John, Robert, New York, N. Y. Film-printing machine and method. 1,654,291; Dec. 27.
 Johns, Emory R., Dallas, Tex. Nut encasement. 1,633,639; June 28.
 Johns, George M., Rockdale, Tex. Retort. 1,621,785; Mar. 22.
 Johns, Henry S., assignor to The Crystallite Stone Products Limited, Hamilton, Ontario, Canada. Bagging apparatus. 1,647,703; Nov. 1.
 Johns, Lee, Miami, Fla. Fish hook. 1,622,118; Mar. 22.
 Johns-Manville Corporation. (See Carroll, John S., assignor.)
 Johns-Manville Corporation. (See McMillan, Luther B., assignor.)
 Johns-Manville Corporation. (See Wardell, Henry R., assignor.)
 Johns-Manville Incorporated. (See Baldwin, L. A., and Schaeffer, assignors.)
 Johns-Manville Incorporated. (See Beckwith, Charles J., assignor.)
 Johns-Manville Incorporated. (See Christensen, George, assignor.)
 Johns-Manville Incorporated. (See Graham, James H., assignor.)
 Johns-Manville Incorporated. (See Seigle, William R., assignor.)
 Johns-Manville Incorporated. (See Wardell, Henry R., assignor.)
 Johnsen, Martin, and F. C. Holling, Antioch, Calif. Door-operating mechanism. 1,646,025; Oct. 18.
 Johnson, Agnar, Rockford, Ill. Headwear. 1,631,210; June 7.
 Johnson, Aklas J., J. Boileau, and E. A. Findell, Missoula, Mont. Rippling head. 1,634,749; July 5.
 Johnson, Albert, Altadena, Calif. Combustion regulator and economizer. 1,653,401; Dec. 20.
 Johnson, Albert, et al. (See Sopher, Ted L., assignor.)
 Johnson, Albert, assignor to one-fourth to L. V. and H. E. Hughes, Los Angeles, Calif. Draft control for locomotives. 1,623,054; Apr. 6.
 Johnson, Albert B., New Britain, Conn. Pad for dental use. 1,635,275; July 12.
 Johnson, Albert M., assignor to Barnes Drill Company. Drilling machine and the like. 1,617,910; Feb. 15.
 Johnson, Oakland, Calif., assignor to The Flash-Way Corporation. Safety signal. 1,648,350; Nov. 8.
 Johnson, Albin H., Chicago, Ill. Fountain comb. 1,629,389; May 17.
 Johnson, Alex, and J. A. Sidle, Helena, Mont. Key-ring holder. 1,640,275; Aug. 23.
 Johnson, Alfred C., assignor to Belle City Manufacturing Company, Itasca, Wis. Tractor. 1,633,212; June 21.
 Johnson, Alfred E., assignor to one-half to M. M. Berg, Duluth, Minn. Animal trap. 1,636,745; July 26.
 Johnson, Allington H., Tacoma, Wash. Dirigible head-light for automobiles. 1,633,332; June 21.
 Johnson, Alrik, Kelliher, Saskatchewan, Canada. Safety bumper. 1,620,106; Mar. 8.
 Johnson, Alrik, O. Persson, and P. Johnson, Kelliher, Saskatchewan, Canada. Oil can, lubricator, and the like. 1,635,215; July 12.
 Johnson, Alvin L., Worcester, assignor, by mesne assignments, to R. W. Robinson, jr., Worcester, and W. C. Watson, Leicester, Mass. Connector for two-part demountable rims. 1,626,284; Apr. 26.
 Johnson, Andrew A., assignor to D. E. Ward, Chicago, Ill. Coin controlled clock. 1,625,408; May 10.
 Johnson, Andrew L., and R. M. Mitchell, assignors to International Harvester Company, Chicago, Ill. Power drive for harvesters. 1,646,455; Oct. 25.
 Johnson, Andrew M., Pasco, Wash. Car seal. 1,615,225; Jan. 25.
 Johnson, A. Ron E., Seattle, Wash. Necktie holder. 1,636,368; July 19.
 Johnson, Arthur A., assignor to Dictaphone Corporation, Bridgeport, Conn. Phonograph record. 1,641,142; Aug. 30.
 Johnson, Arthur A., New York, N. Y., assignor to The Regy Register Company, Dayton, Ohio. Autographic register. 1,649,234; Nov. 15.
 Johnson, Arthur H., Woburn, Mass. Bottle. Des. 72,951; June 28.
 Johnson, Arthur M. (See Schesvold, G. T., and Johnson.)
 Johnson, Arthur S. (See Rhodes, A. E., and Johnson.)
 Johnson, Arthur S., assignor to Draper Corporation, Hopdale, Mass. Brake mechanism for looms. 1,646,539; Oct. 25.
 Johnson, Arvid H. (See Holm, C., and Johnson.)
 Johnson, August. (See Johnson, John S. and A.)
 Johnson, August L., Chicago, Ill. Combination stepladder and chair. 1,630,747; Mar. 31.
 Johnson, Augusta S., Brooklyn, assignor to Model Brasiers Co., Inc., New York, N. Y. Garment. 1,615,629; Jan. 25.
 Johnson, Austin B., Wellsboro, Pa. Cultivator. 1,652,012; Dec. 6.
 Johnson Automatic Sealer Co. (See Sandberg, Oscar, assignor.)
 Johnson Automatic Sealer Co. (See Taylor, William L., assignor.)
 Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
 Johnson, Axel, Oakland, Calif. Electric heater. 1,620,767; Mar. 15.
 Johnson, Axel, Oakland, Calif. Saw set. 1,631,534; June 7.
 Johnson, Axel, Oakland, Calif. Electric heater. 1,636,369; July 19.
 Johnson, Axel Z., assignor to The Dahlstrom Metallic Door Company, Jamestown, N. Y. Doorframe. 1,623,874; Apr. 6.
 Johnson, Bernard G., Brookfield, assignor to Grigsby-Grumow-Hinds Co., Chicago, Ill. Spring reel. 1,648,948; Nov. 15.
 Johnson, Boone V. H., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Railway truck. 1,615,802; Jan. 25.
 Johnson, Bror A. E. (See Ekström, G. C., and Johnson.)
 Johnson, Bror A. E. (See Ekström, G. C., Öhrström, and Johnson.)
 Johnson, Carl E., Detroit, Mich. Electric heating apparatus. 1,633,747; June 28.
 Johnson, Carl E., Chicago, Ill. Baffle plate for boiler fire boxes. 1,642,371; Sept. 18.
 Johnson, Carl E., assignor to United States Electrical Manufacturing Company, Los Angeles, Calif. Mold. 1,637,613; Aug. 2.
 Johnson, Carl E., assignor to United States Electrical Manufacturing Company, Los Angeles, Cal. Producing rotors. 1,639,456; Aug. 16.
 Johnson, Carl E., assignor to United States Electrical Manufacturing Company, Los Angeles, Calif. Auto-start motor. 1,647,633; Nov. 1.
 Johnson, Carl E., Los Angeles, Calif., assignor to United States Electrical Manufacturing Company. Bimetallic rotor for induction motors. 1,650,795; Nov. 29.
 Johnson, Carl E., St. Paul, and S. Pearce, assignors to J. N. Collins Company, Minneapolis, Minn. Receptacle-forming and filling machine. 1,614,960; Jan. 18.
 Johnson, Carl G., Los Angeles, Calif. Clamp. 1,634,834; July 5.
 Johnson, Carl H. (see Johnson, Oscar W. and C. H.)
 Johnson, Carl M., Chicago, Ill. Burial vault. Des. 73,609; Oct. 11.

- Johnson, Carl O., assignor to Bradford Machine Company, Bradford, Pa. Machine for trimming tenpins. 1,654,502; Dec. 27.
- Johnson, Chrl. G., Lincoln, assignor to Highway Maintainer Company, Havelock, Nebr. Highway maintainer. 1,648,310; Nov. 8.
- Johnson, Charles A., Duluth, Minn. Cement block. Des. 71,798; Jan. 4.
- Johnson, Charles A., Nashville, Tenn. Vending machine. 1,648,812; Nov. 8.
- Johnson, Charles A., Superior, Wis. Grain door. 1,618,758; Feb. 22.
- Johnson, Charles A., Unionville, Conn. Threading tool. 1,640,941; Aug. 30.
- Johnson, Charles A., Unionville, Conn. Threading tool. 1,640,942; Aug. 30.
- Johnson, Charles E., assignor to The Piston Ring Company, Muskegon, Mich. Flexible closing fixture for piston rings. 1,644,883; Oct. 11.
- Johnson, Charles E. (See Casselman, E. J., Griffith, and Johnson.)
- Johnson, Charles H., Sacramento, Calif. Direction indicator. 1,630,014; May 24.
- Johnson, Charles H., Sacramento, Calif. Direction indicator. 1,630,015; May 24.
- Johnson, Charles J., Sacramento, Calif. Handy measuring device. 1,629,106; May 17.
- Johnson, Charles L., et al. (See Bauer, Jacob, assignor.)
- Johnson, Charles M., Avalon, Pa., assignor to Crucible Steel Company of America. Alloy steel. 1,617,834; Feb. 15.
- Johnson, Charles W. (See Johnson, Richard W., assignor.)
- Johnson, Chester A., Wells, Nev. Noiseless rail joint. 1,617,760; Feb. 15.
- Johnson, Chester B. Hasbrouck Heights, N. J. Bearer. 1,653,912; Dec. 27.
- Johnson, Chester F., Detroit, Mich. Hydrocarbon motor. 1,613,706; Jan. 11.
- Johnson, Clarence A., Larimer, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-starting system. 1,638,943; June 28.
- Johnson, Clarence G., Detroit, Mich. Garage door and operating mechanism therefor. 1,621,669; Mar. 22.
- Johnson, Clarence L., Littleton, Colo. Tire boot and fastener therefor. 1,623,923; Apr. 5.
- Johnson, Colvin L., Chicago, Ill., assignor to Johnson Automobile Lock Co. Automobile lock. 1,632,655; June 14.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., St. Louis, Mo. Transmission-housing cover-locking means. 1,632,656; June 14.
- Johnson, Eads, Morristown, N. J. Docking apparatus. 1,614,131; Jan. 11.
- Johnson, Earl R., Chicago, Ill. Frame for flexible sheet material. 1,621,727; Mar. 22.
- Johnson, Earl K., Chicago, Ill. Ruler. 1,631,731; June 7.
- Johnson, Earl R., Chicago, Ill. Frame and mounting. 1,645,862; Oct. 18.
- Johnson, Edward E., St. Paul, Minn. Screen coupling. 1,625,055; Mar. 5.
- Johnson, Edward H., and A. H. Winterton, East Rand, Transvaal, South Africa. Concentrator. 1,627,648; May 10.
- Johnson, Edward M., Pawnee City, Nebr. Hay track hanger. 1,653,769; Dec. 27.
- Johnson, Edward P., Superior, Wis. Fish lure. 1,644,884; Oct. 11.
- Johnson, Edward T., Greenfield, Mass. Collapsible container. 1,651,528; Dec. 6.
- Johnson, Edwin A., Houston, Tex. Connection between well-pipe sections of different materials. 1,613,461; Jan. 4.
- Johnson, Elmer J. (See Booth, George A., assignor.)
- Johnson, Elmer V., Tracy, Minn. Camper's back rest. 1,647,297; Nov. 1.
- Johnson, Emelyn O., Brooklyn, N. Y. Toe adjuster. 1,624,171; Apr. 12.
- Johnson, Emil L., et al. (See Knistrom, Joseph, assignor.)
- Johnson, Emma K., administratrix. (See Johnson, Homer B.)
- Johnson, Eric, Seattle, Wash. Portable elevator. 1,641,891; Sept. 6.
- Johnson, Eric, Seattle, Wash. Fuel-feeding device for internal-combustion engines. 1,653,287; Dec. 20.
- Johnson, Ernest E., Scotia, N. Y., assignor to General Electric Company. Displacement-responsive device. 1,620,465; Mar. 8.
- Johnson, Ernest G., Boston, assignor, by mesne assignments, to The Palmer Electric and Manufacturing Company, Cambridge, Mass. Relay. 1,632,186; June 14.
- Johnson, Ernest J., St. Cloud, Minn. Bumper. 1,618,880; Feb. 22.
- Johnson, Ernest S., Webster City, Iowa. Automobile supply tank and holder. 1,613,111; Jan. 4.
- Johnson, Ernest S., Webster City, Iowa. Leg structure. 1,636,912; July 26.
- Johnson, Ernest S., Webster City, Iowa. Awning structure. 1,640,660; Aug. 30.
- Johnson, Everard L., Patchogue, N. Y. Flash-light apparatus. 1,615,455; Jan. 25.
- Johnson, Ford, Helena, Mont. Stub holder for check books. 1,635,625; July 12.
- Johnson, Frank K., Chicago, Ill. Row-boat motor. 1,640,999; Aug. 30.
- Johnson, Frank L., Akron, Ohio. Collapsible tire-building form. 1,618,153; Feb. 15.
- Johnson, Frank L., Akron, Ohio. Mold construction. 1,624,343; Apr. 12.
- Johnson, Frank L., Akron, Ohio. Collapsible tire-building form. 1,636,055; July 19.
- Johnson, Frank L., Akron, Ohio. Collapsible tire-building form. 1,636,056; July 19.
- Johnson, Frank L., Akron, Ohio. Machine for redressing tenpins or the like. 1,644,530; Oct. 4.
- Johnson, Frank L., Akron, Ohio. Collapsible tire-building drum. 1,648,132; Nov. 8.
- Johnson, Frank P., Danville, Pa. Carpet beater. 1,644,020; Oct. 4.
- Johnson, Fred A., Wolverton, Minn. Bag holder. 1,620,819; Mar. 15.
- Johnson, Fred H., and S. R. Lathrop, Sapulpa, Okla. Conveyor for leer-charging apparatus. 1,623,247; Apr. 5.
- Johnson, Fred H., and S. R. Lathrop, Sapulpa, Okla. Leer-charging apparatus. 1,624,250; Apr. 12.
- Johnson, Frederick G., assignor to Visible Tire Gauge Co., New Haven, Conn. Air gauge. 1,636,566; July 19.
- Johnson, Frederick H., Los Angeles, Calif. Sprinkler-system control valve. 1,636,370; July 19.
- Johnson, Frank G., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing means. 1,648,274; Nov. 8.
- Johnson, George A., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Surplus-water discharge system for locomotive tenders. 1,640,037; Aug. 23.
- Johnson, George F., Endicott, N. Y. Shoe. 1,638,339; Aug. 9.
- Johnson, George M., assignor to Fort Pitt Mine Equipment Company, Jeannette, Pa. Chain rail-car conveyor. 1,635,275; July 2.
- Johnson, George T., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Cast car-truck side frame. 1,621,786; Mar. 22.
- Johnson, George T., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Cast car-truck side frame. 1,635,751; July 12.
- Johnson, George T., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Cast car-truck side frame. 1,639,732; Aug. 23.
- Johnson, George W., Manufacturing Company. (See Bumbarger, Clarence R., assignor.)
- Johnson, Granlin V., et al. (See Schauman, Bror M., assignor.)
- Johnson, Gustav, West Roxbury, Mass., assignor, by mesne assignments, to The Bascick Manufacturing Company, Chicago, Ill. Dust cap for lubricating apparatus. 1,644,253; Oct. 4.
- Johnson, Gustave A., Omaha, Nebr. Cement marker. 1,641,087; Feb. 1.
- Johnson, Gustave T., Chicago, Ill. Balancing machine. 1,625,259; Apr. 19.
- Johnson, Gustave T., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Hollow-chisel mortiser. 1,614,304; Jan. 11.
- Johnson, Halligan, assignor to Nudette Company, Jacksonville, Fla. Passenger car for amusement rides. 1,640,038; Aug. 23.
- Johnson, Harley M., River Rouge, Mich. Amplifier. 1,644,191; Oct. 4.
- Johnson, Harry S., Erwin, Tenn. Safety device for locomotives. 1,631,588; June 7.
- Johnson, Harry G., et al. (See Grau, George B., assignor.)
- Johnson, Harry W., et al. (See Schauman, Bror M., assignor.)
- Johnson, Harvey F., assignor to Union Machinery Company, Joliet, Ill. Dough-molding machine. 1,653,211; Dec. 20.
- Johnson, Harvey L., assignor to American Locker Company, Chicago, Ill. Coin-controlled lock. 1,640,605; Aug. 30.
- Johnson, Harvey L., assignor to American Locker Company, Chicago, Ill. Coin-controlled lock. 1,643,458; Sept. 27.
- Johnson, Hastings H., Minneapolis, Minn. Wire-measuring device. 1,652,407; Dec. 13.
- Johnson, Henning A. (See Whitfield, Joseph E., assignor.)
- Johnson, Henry C., Colton, Calif. Rotary steam engine. 1,642,991; Sept. 20.
- Johnson, Herbert B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Trunking system. 1,632,901; June 21.
- Johnson, Herbert B., Brooklyn, and L. La Fayette Eagon, said Johnson assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., and said Eagon assignor to American Telephone and Telegraph Company. Telephone system. 1,639,135; Aug. 16.
- Johnson, Herbert L., Brooklyn, N. Y., assignor to Standard Development Company, Lubricant. 1,619,074; Mar. 1.

- Johnson, Herbert W., et al. (See Gerau, George D., assignor.)
- Johnson, Herman M., Portland, Oreg. Coin-controlled optical instrument. 1,632,377; July 14.
- Johnson, Homer B., deceased, Sheridan, Ind. E. K. Johnson administratrix. Harvester. 1,629,215; May 17.
- Johnson, Iver, Vancouver, British Columbia, Canada. Butt gauge. 1,635,752; July 12.
- Johnson, J. E., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Eraser-holding device and the like. 1,636,822; July 26.
- Johnson, James C., Sacramento, Calif. Patent envelope. 1,639,568; Aug. 16.
- Johnson, James C., Minneapolis, Minn. Show case. 1,641,335; Sept. 6.
- Johnson, James P., Cleveland Heights, Ohio. Starting mechanism. 1,646,202; Oct. 18.
- Johnson, James T., Birmingham, Ala. Picture frame. 1,632,133; June 14.
- Johnson, James W. (See Showalter, A. E., and Johnson.)
- Johnson, Jay M. (See Hansen, Henry, assignor.)
- Johnson, Jay M., Chicago, Ill., assignor to Great Lakes Auto Products Company. Adjustable spotlight. 1,614,743; Jan. 18.
- Johnson, Jay M., Chicago, Ill., assignor to Great Lakes Auto Products Company. Spotlight. 1,614,744; Jan. 18.
- Johnson, Jay M., Chicago, Ill., assignor to Great Lakes Auto Products Company. Spotlight mounting. 1,614,745; Jan. 18.
- Johnson, Jennie S., et al. (See Gerau, George B., assignor.)
- Johnson, Jesse C., Oakland, Calif., assignor to S. T. Johnson Co., Oakland, Calif. Control mechanism for electrically-operated burners. 1,631,099; May 31.
- Johnson, Jesse O., Mexico, Tex. Fishing tool for use in oil wells. 1,646,965; Oct. 25.
- Johnson, John A. (See Luckett, G. B., and Johnson.)
- Johnson, John A., New York, N. Y. Bottle-capping machine. 1,634,464; July 5.
- Johnson, John B., Elmhurst, assignor to Western Electric Company, Incorporated, New York, N. Y. Electric discharge device. 1,632,080; June 14.
- Johnson, John E. (See Oslund, C. H., and Johnson.)
- Johnson, John E., Chicago, Ill. Lathe. 1,639,090; Aug. 16.
- Johnson, John E., assignor to The Speedaumatic Company, Chicago, Ill. Addressing machine. 1,623,542; Apr. 5.
- Johnson, John E., assignor to The Speedaumatic Company, Chicago, Ill. Embossing machine. 1,639,733; Aug. 23.
- Johnson, John G., Tacoma, Wash. Stuffing box. 1,632,293; June 14.
- Johnson, John H., and Sons. (See Umsted, B. T., and Harris, assignors.)
- Johnson, John H., Chicago, Ill. Pressure gauge. 1,622,517; Mar. 29.
- Johnson, John H., Astoria, N. Y. Necktie supporter. 1,638,809; Aug. 9.
- Johnson, John M., Kansas City, Mo., assignor to The United States Automatic Fire Alarm Company. Fire alarm system. 1,620,107; Mar. 8.
- Johnson, John M., Kansas City, Mo., assignor to The United States Automatic Fire Alarm Company. Circuit controller. 1,654,483; Dec. 27.
- Johnson, John R., Greenwich, Conn. Fire pot. 1,620,353; Mar. 8.
- Johnson, John R., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Feed mechanism for machine tools. 1,623,346; Apr. 5.
- Johnson, John S., and A., Fargo, N. Dak. Oil injector. 1,639,409; Aug. 16.
- Johnson, John V., Duluth, Minn. Bird cage. 1,649,902; Nov. 22.
- Johnson, John W., Auckland, assignor of one-half to I. B. Dougherty, Hamilton, New Zealand. Automatic alarm. 1,641,273; Sept. 6.
- Johnson & Johnson. (See Dalley, Frank L., assignor.)
- Johnson & Johnson. (See Dickson, Ensign E., assignor.)
- Johnson & Johnson. (See Dorman, William R., assignor.)
- Johnson & Johnson. (See Hayden, Robert P., assignor.)
- Johnson & Johnson. (See Johnson, Robert W., assignor.)
- Johnson & Johnson. (See Oulnt, Everett A., assignor.)
- Johnson & Johnson. (See Zimmerli, W. F., and Bibb, assignors.)
- Johnson, Joseph, Birmingham, England. Shock-absorbing device for the handle bars of cycles and the like. 1,622,912; Mar. 29.
- Johnson, Joseph B., Los Angeles, Calif. Vending machine. 1,641,539; Sept. 6.
- Johnson, Joseph D., Leola, S. Dak. Disk cultivator. 1,616,318; Feb. 1.
- Johnson, Josiah F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Bleeder turbine. 1,619,129; Mar. 29.
- Johnson, Josiah F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-pressure control. 1,647,135; Nov. 1.
- Johnson, Josiah F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coupling. 1,647,136; Nov. 1.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave filter. 1,613,952; Jan. 11.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical network. 1,628,983; May 17.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave filter. 1,647,634; Nov. 1.
- Johnson, Kenneth S., Jersey City, and T. E. Shea, Rutherford, N. J., assignors, by mesne assignments, to Western Electric Company, Incorporated. Wave filter. 1,624,068; Apr. 12.
- Johnson, Kirk A., Omaha, assignor of one-half to R. F. Beach, Douglas County, Nebr. Desk set and pencil sharpener. 1,627,705; May 10.
- Johnson, Lane. (See Biggart, F. C., jr., and Johnson.)
- Johnson, Lane, Ingram, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Roll-adjusting means. 1,633,709; Dec. 27.
- Johnson, Lars, Chicago, Ill. Separating butter fats, etc. 1,651,028; Nov. 29.
- Johnson, Lars, and W. W. Hillson, Ossining, N. Y. Floor jack. 1,615,705; Jan. 25.
- Johnson, Lawrence et al., trustees. (See Rogers, Harry R., assignor.)
- Johnson, Le Roy F., Willmar, Minn. Door-closing device for box cars. 1,638,694; Aug. 9.
- Johnson, Lewis H., Madison, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,632,902; June 21.
- Johnson, Lewis H., Madison, N. J., and T. H. Roberts, New York, N. Y., assignors, by mesne assignments, to Western Electric Company, Incorporated. Telephone-exchange system. 1,616,127; Feb. 1.
- Johnson, Lindley W., et al. (See Bauer, Jacob, assignor.)
- Johnson, Lloyd A., San Francisco, Calif. Laminated shim. 1,635,753; July 12.
- Johnson, Logan, Centerville, Iowa. Loading machine. 1,634,148; June 28.
- Johnson, Magnus. (See Sever F., and Johnson.)
- Johnson, Martin B., Tillamook, Oreg. Desk-sanding machine. 1,621,931; Mar. 22.
- Johnson, Maxwell O., Waipio, Hawaii. Fertilizing plants and fertilizer composition. 1,614,305; Jan. 11.
- Johnson, Melvin, Danville, Ill. Dump truck. 1,633,104; June 21.
- Johnson, Mervin C., Loyalton, Calif. Lumber-piling jack. 1,645,488; Oct. 11.
- Johnson, Milton M., Cleburne, Tex. Combination gauging device. 1,630,299; May 31.
- Johnson, Nathan C., Englewood, N. J. Method of and apparatus for treating concrete. 1,637,321; July 26.
- Johnson, Nathan C., Englewood, N. J. Method and apparatus for mixing. 1,646,540; Oct. 25.
- Johnson, Nels A., Jamestown, N. Y. Wrench. 1,617,483; Feb. 15.
- Johnson, Norman E., assignor to Chicago Rhopac Products Company, Chicago, Ill. Packing and making the same. 1,646,356; Oct. 19.
- Johnson, Olaf W., Seattle, Wash., assignor to Bakeries Service Corporation, Chicago, Ill. Card or pamphlet holding device. 1,622,518; Mar. 29.
- Johnson, Olgard, et al. (See Peterman, Henry, assignor.)
- Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Water softener. 1,623,541; May 10.
- Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Lubrication means for pumps and the like. 1,638,160; Aug. 9.
- Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Closure operator. 1,639,091; Aug. 16.
- Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Deep-well pump. 1,649,593; Nov. 15.
- Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Water softener. 1,634,172; Dec. 27.
- Johnson, Oscar W. and C. H., Chicago, Ill. Emergency ratchet. 1,639,185; Aug. 16.
- Johnson, Paul W., Portland, Oreg. Fabricated spring support. 1,621,415; Mar. 15.
- Johnson, Perry, Topeka, Kans. Combined tomb marker and decoration container. 1,619,735; Mar. 1.
- Johnson, Pete. (See Johnson, A., Persson, and Johnson.)
- Johnson, Peter B., Fremont, Nebr. Stack. 1,628,725; May 17.
- Johnson, Peter D. (See Strom, Gustav, assignor.)
- Johnson, Philip M., Newton, Mass., assignor, by mesne assignments, to National Refracting Company, New Haven, Conn. Valve. 1,622,723; Mar. 29.
- Johnson, Richard F., San Antonio, Tex. Automobile jack. 1,650,016; Nov. 22.
- Johnson, Richard W., assignor of one-fourth to C. W. Johnson, Danville, Pa. Automatic take-up for shaft bearings. 1,652,829; Nov. 29.
- Johnson, Robert C., Leicester, England. Runner for curtain rods. 1,628,984; May 17.
- Johnson, Robert C., Roxton, Leicester, England. Button or distance piece for supporting the runner rails of curtains. 1,648,903; Nov. 15.
- Johnson, Robert E., Washington, D. C. Vaporizer for gasoline engines. 1,625,661; Apr. 19.

- Johnson, Robert J., Spokane, Wash. Shirt retainer. 1,653,288; Dec. 20.
- Johnson, Robert P., Columbus, Ohio. Pneumatic tire. Des. 73,745; Nov. 1.
- Johnson, Robert R., St. Louis, Mo. Radiator protector. 1,648,811; Nov. 8.
- Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. Bandage compress. 1,622,948; Mar. 29.
- Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. End-locked sanitary napkin. 1,629,390; May 17.
- Johnson, Roy W. (See Gauger, F. A., and Johnson.)
- Johnson, S. T. Co. (See Bradley, Arthur J., assignor.)
- Johnson, S. T. Co. (See Johnson, Jesse C., assignor.)
- Johnson, Seth. (See Cole, T. S., and Johnson.)
- Johnson, Smith M., Middlefield, Ohio. Container. 1,650,520; Nov. 22.
- Johnson, Stanley G., assignor to The Burkhardt Company, Detroit, Mich. Display book. 1,635,420; July 12.
- Johnson, Stanley G., assignor to The Burkhardt Company, Detroit, Mich. Display book. 1,635,421; July 12.
- Johnson, Theodore, Erie, Pa., assignor, by mesne assignments, to Erie City Iron Works. Furnace-fuel-feeding apparatus. 1,633,640; June 28.
- Johnson, Theodore G., Kansas City, Mo. Mop head. 1,617,524; Feb. 15.
- Johnson, Theodore G., Kansas City, Mo. Floor mop. 1,617,525; Feb. 15.
- Johnson, Theodore G., Kansas City, Mo. Convertible seat for motor vehicles. 1,632,233; June 14.
- Johnson, Thomas, Los Angeles, Calif. Memoranda holder for hats. 1,641,812; Sept. 6.
- Johnson, Thomas L., Charleston, W. Va. Coal-loading machine. 1,625,726; Apr. 19.
- Johnson, Thomas L., Charleston, W. Va. Conveyor chain for coal-loading machines. 1,635,085; July 5.
- Johnson, Thor, Rolette, N. Dak. Camp stove. 1,627,513; May 3.
- Johnson, Tomlinson F., Jr., Atlanta, Ga. Disconnecting stirrup and hook. 1,613,325; Jan. 4.
- Johnson, Waldo P., Chicago, Ill. Feed trough for poultry cars. 1,643,501; Sept. 27.
- Johnson, Waldo P., Chicago, Ill. Poultry car. 1,651,129; Nov. 29.
- Johnson, Waldo P., Chicago, Ill. Poultry-car construction. 1,653,573; Dec. 20.
- Johnson, Wallace D., assignor to Yates-American Machine Company, Beloit, Wis. Chip breaker. 1,651,529; Dec. 6.
- Johnson, Walter B., Breckenridge, Tex. Shoe-shining cabinet. 1,621,787; Mar. 22.
- Johnson, Walter R. and A. C. Canfield, Portland, Ore. Handplane. 1,653,212; Dec. 20.
- Johnson, Warren B., Lorenzo, Tex. Short-stem-milometer head. 1,650,521; Nov. 22.
- Johnson, Warren V., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,616,578; Feb. 8.
- Johnson, Warren V., Bloomsburg, Pa., and J. L. McDowell, Jersey City, N. J., assignors to American Car and Foundry Company, New York, N. Y. Mine car. 1,631,320; June 7.
- Johnson, Warren V., and R. C. Kepner, Bloomsburg, Pa., assignors to American Car and Foundry Company, New York, N. Y. Car floor and draft gear. 1,649,410; Nov. 15.
- Johnson Washer Company. (See Maus, Frank, assignor.)
- Johnson Washer Company. (See Schuyler, Frank B., assignor.)
- Johnson, Wilfred G., Elyria, Ohio. Bumper. 1,641,225; Sept. 6.
- Johnson, Wilfred G., assignor to The Colson Company, Elyria, Ohio. Caster. Des. 73,844; Nov. 15.
- Johnson, Wilfred G., assignor to The Colson Company, Elyria, Ohio. Caster. Des. 73,845; Nov. 15.
- Johnson, William, et al. (See Soper, Ted L., assignor.)
- Johnson, William, Muskegon Heights, Mich. Cylinder-coupling device. 1,643,424; Sept. 27.
- Johnson, William, Council Bluffs, Iowa, assignor to J. W. Martin, Omaha, Nebr. Disappearing shoe-shining foot rest. 1,640,239; Aug. 23.
- Johnson, William A., Chicago, Ill., assignor to Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Coupling for armor hose. 1,649,594; Nov. 15.
- Johnson, William B., Lexington, Ky. Headlight. 1,619,617; Mar. 1.
- Johnson, William E. (See Isenhardt, John and E. A., and Johnson.)
- Johnson, William F., et al. (See Duncan, Charles H., assignor.)
- Johnson, William H., Cambridge, Mass. Window bracket. 1,627,241; May 8.
- Johnson, William H., Haverhill, Mass. Figure toy. 1,635,550; July 12.
- Johnson, William M., assignor of one-half to F. E. Brown, Pomona, Calif. License plate. Des. 72,154; Mar. 8.
- Johnson, William N., Neeah, Wis. Saw guard. 1,647,868; Nov. 1.
- Johnson, William S. (See Ferguson, Carl J., assignor.)
- Johnson, William V., Moore, Minn. Yielding windshield for funnels. 1,644,837; Oct. 11.
- Johnson, Hans A., Chicago, Ill. Tag. 1,634,544; July 5.
- Johnson, Allen T., Dormont, assignor to The Union Switch & Signal Company, Swissvale, Pa. Control and indication of railway switches. 1,620,893; Mar. 15.
- Johnston, Benjamin W., Rosedale, Alberta, Canada, assignor of one-half to Berton A. McEwen, Brumheller, Canada. Latch. 1,634,195; June 28.
- Johnston, Carl W., et al. (See Andrews, Walter S., assignor.)
- Johnston, Charles F., and G. G. Rees, San Francisco, Calif. Piston ring. 1,649,474; Nov. 15.
- Johnston, Charles O., assignor, by mesne assignments, to International Fire Equipment Corporation, New York, N. Y. Fire extinguisher. 1,633,254; June 21.
- Johnston, Charles O., assignor, by mesne assignments, to Standard Fire Equipment Corporation, New York, N. Y. Fire extinguisher. 1,648,233; Nov. 8.
- Johnston, Charlie N., et al. (See Andrews, Walter S., assignor.)
- Johnston, Clarence, Townsend, Mont. Weeder attachment for harrows. 1,624,789; Apr. 12.
- Johnston, Clarence L., assignor to Marchant Calculating Machine Company, Oakland, Calif. Calculating machine. 1,624,154; May 10.
- Johnston, Clarence L., Oakland, Calif., assignor to American Sales Book Company, Limited, Toronto, Canada. Autographic register. 1,649,595; Nov. 15.
- Johnston, Clarence S., Glendive, Mont., assignor to The United Iron Company, Minneapolis, Minn. Vehicle. 1,621,932; Mar. 22.
- Johnston, Clyde M. (See Coleman, C. R., and Johnston.)
- Johnston, Dryden & Co. (See Smart, Russel S., assignor.)
- Johnston, Edward A., and P. H. Danley, assignors to International Harvester Company, Chicago, Ill. Tractor. 1,648,813; Nov. 8.
- Johnston, Frank H., assignor, by mesne assignments, to Acme Card System Company, Chicago, Ill. Visible card system. 1,631,732; June 7.
- Johnston, Gordon G., Moruya, New South Wales, Australia. Convertible vehicle seat. 1,649,702; Nov. 15.
- Johnston, George W., Sand Springs, Okla. Boat-propelling mechanism. 1,626,736; May 8.
- Johnston, Gustave V., Chicago, Ill., assignor to Steel and Tubes, Incorporated, Cleveland, Ohio. Electric tubewelding machine. 1,652,481; Dec. 13.
- Johnston, Herbert L., assignor to The Hobart Manufacturing Company, Troy, Ohio. Glass hopper. 1,616,750; Feb. 8.
- Johnston, Herbert L., assignor to The Hobart Manufacturing Company, Troy, Ohio. Transmission mechanism. 1,651,822; Dec. 6.
- Johnston, Howard H., et al. (See Riley, L. G., Meyer, Johnston, and van Niekerken.)
- Johnston, Howard H., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,642,028; Sept. 13.
- Johnston, James H., assignor to Stamm-Scheele Manufacturing Co., Limited, Rayne, La. Centrifugal pump. 1,650,522; Nov. 22.
- Johnston, James S., Utica, assignor to Randomet Dyelng Machine Corporation, Syracuse, N. Y. Coloring yarn on bobbins. 1,613,707; Jan. 11.
- Johnston, John, New Haven, Conn., assignor, by mesne assignments, to Western Electric Company, Incorporated. Preservation of wood. 1,617,447; Feb. 15.
- Johnston, John A., Westmount, Quebec, Canada. Belt-shifting mechanism. 1,653,463; Dec. 20.
- Johnston, John J., Benson, Minn. Bearing plane. 1,649,703; Nov. 15.
- Johnston, Lynn, assignor to The Electric Railway Equipment Company, Cincinnati, Ohio. Cable and trolley clamp. 1,625,366; Apr. 19.
- Johnston, Norman M., Fremont, Ohio. Capo tasto. 1,616,859; Feb. 8.
- Johnston, R. L., et al. (See Dougherty, Charles T., assignor.)
- Johnston, Robert B., Collingswood, N. J., assignor to Charles T. Wilson Company, Inc., New York, N. Y. Apparatus for shelling palm nuts. 1,548,456; Nov. 8.
- Johnston, Robert C., and J. R. Estey, Vancouver, British Columbia, Canada. Latch. 1,621,841; Mar. 22.
- Johnston, Robert F. (See McLean, James S., assignor.)
- Johnston, Roland, Vancouver, British Columbia, Canada. Standing boom. 1,645,910; Oct. 18.
- Johnston, Walter E., Youngstown, Ohio. Device for mounting and carrying automobile tires. 1,615,456; Jan. 25.
- Johnston, Walter V., Milwaukee, Wis. Glass jar. Des. 72,771; May 31.
- Johnston, William A. (See Baldwin, R. S., and Johnston.)
- Johnston, William A. (See Denmesd, John W., assignor.)
- Johnston, William D., and G. M. Sullivan, assignors to Wm. Cameron & Company, Incorporated, Waco, Tex. Built-in ironing table. 1,634,426; July 5.
- Johnston, William F., Los Angeles, Calif., assignor, by mesne assignments, to Remington Rand, Inc., Tonawanda, N. Y. Index. 1,645,598; Oct. 18.
- Johnston, William W. (See Findlay, G. F., and Johnston.)
- Johnstone, John, and P. J. and A. B. Allen, Gisborne, New Zealand. Automatically controlling the ignition systems of internal-combustion engines. 1,654,220; Dec. 27.
- John L. Lynwood, assignor of one-half to I. M. Conkey, Maywood, Calif. Casing head. 1,650,131; Nov. 22.
- Johnstone, Robert M., Roselle Park, assignor to Cameron Machine Company, Brooklyn, N. Y. Slitting means. Re16,702; Aug. 9.

- Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Handling webs of flexible material. 1,614,244; Jan. 11.
- Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Core-supporting means. 1,642,680; Sept. 20.
- Johnstone, Samuel, Sparks, assignor of one-third to F. H. Seavey, Reno, and one-third to F. W. Steiner, Sparks, Nev. Bathing mat. 1,615,706; Jan. 25.
- Joiner, Sylvester L., McGregor, Tex. Reversible placard holder for tank cars. 1,614,792; Jan. 18.
- Joiner, Sylvester L., McGregor, Tex. Centrifugal dirt collector. 1,637,257; July 26.
- Jokel, Franz, assignor to Carl Lindstrom Aktiengesellschaft, Berlin, Germany. Sound-box diaphragm for use in telephones, loud speakers, acoustic apparatus, and the like. 1,621,670; Mar. 22.
- Joline, Emmet A., Tottenville, N. Y., assignor to The S. S. White Dental Manufacturing Company. Flexible shaft. 1,649,310; Nov. 15.
- Jolley, James, Manchester, England. Driving and reversing gear. 1,627,607; May 10.
- Jolls, Le Roy E., Detroit, Mich., assignor, by mesne assignments, to Gleason Works, Rochester, N. Y. Gear-grinding machine. 1,645,439; Oct. 11.
- Jolly, James, Bolton, England, assignor to Whitin Machine Works, Whitinsville, Mass. Combining machine. 1,640,705; Aug. 30.
- Jolstad, Trygve, assignor to Michigan Stamping Company, Detroit, Mich. Stretching die for sheet metal. 1,622,590; Mar. 29.
- Jonas, Gottfried B., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Joint between metal and glass and making the same. 1,627,780; May 10.
- Jonas, Jacob F., Bellevue, Ky. Shoe-tip stiffener. 1,638,263; Aug. 9.
- Jonas, Jacob F., Bellevue, Ky., assignor to The Krippendorf-Dittman Company, Cincinnati, Ohio. Shank stiffener for shoes. 1,637,943; Aug. 2.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Apparatus for diminishing injurious earthing currents. 1,647,869; Nov. 1.
- Jonas, Julius, and W. Niggeler, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Flame-arc furnace. 1,650,072; Nov. 22.
- Jonas, Kaspar. (See Hulmer, J., and Jonas.)
- Jonasson, Carl, and H. J. Boal, Portland, Ore. Standing board. 1,640,323; Aug. 23.
- Jones, A. H., Co. Inc., The. (See Jones, Augustus H., assignor.)
- Jones, A. H., Company, The. (See Jones, Augustus H., assignor.)
- Jones, Aaron R., assignor to Millville Manufacturing Company, Millville, N. J. Stop motion for looms. 1,644,647; Oct. 4.
- Jones, Adolph G., Celoron, N. Y., assignor, by mesne assignments, to The Lobdell-Emery Mfg. Co., Alma, Mich. Wood-spoked steering wheel. 1,642,029; Sept. 13.
- Jones, Albert E., assignor to The Whitehead Torpedo Company Limited, Westminster, London, England. Lubricating device. 1,614,536; Jan. 18.
- Jones, Alfred L. (See Thomson, C. H., Cummiskey, Miller, and Jones.)
- Jones, Arthur B., Plainfield, N. J., assignor to Industrial Associates, Incorporated, New York, N. Y. Spray drying. 1,624,739; Apr. 12.
- Jones, Arthur C., assignor to A. S. Kelly, South Pittsburg, Tenn. Insulated stove-top attachment. 1,638,770; Aug. 9.
- Jones, Arthur W., Randolph, Wis. Splint. 1,643,850; Sept. 27.
- Jones, Arthur W., East Orange, assignor to Elevator Supply Company Inc., Hoboken, N. J. Combined door latch and switch mechanism. 1,649,475; Nov. 15.
- Jones, Augustus H., assignor to The A. H. Jones Co. Inc., Meriden, Conn. Casket-light fixture. Des. 71,799; Jan. 4.
- Jones, Augustus H., assignor to The A. H. Jones Company, Meriden, Conn. Combination candlestick. 1,645,193; Oct. 11.
- Jones, Avoca, Seattle, Wash. Loud-speaker casing. Des. 71,915; Jan. 25.
- Jones, Barton, et al. (See Hanson, Roy E., assignor.)
- Jones, Benjamin H., Allegheny, N. Y. Clothes basket. 1,617,056; Feb. 8.
- Jones, Benjamin T., New Haven, Conn. Separator. 1,622,872; Mar. 29.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. System of motor control. 1,614,193; Jan. 11.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic device. 1,620,556; Mar. 8.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing-circuit-breaker system. 1,637,887; Apr. 26.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Motor control. 1,632,603; June 14.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Phase-failure protection. 1,637,043; July 26.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Summation metering system. 1,641,762; Sept. 6.
- Jones, Benjamin W., and N. A. Wolfe, Schenectady, N. Y., assignors to General Electric Company. Electromagnetic device for alternating-current circuits. 1,620,555; Mar. 8.
- Jones, Bert. (See Walstead, Gustav A., assignor.)
- Jones Bros. Co. (See Jones, M., and Goldstein, assignors.)
- Jones, Everett L., Oakland, Calif. Wall bed. 1,621,885; Mar. 22.
- Jones, Byron G., Washington, D. C. Diaphragm muffler. 1,622,150; Mar. 22.
- Jones, Charles. (See Edwards, E., Jones, and Hanson.)
- Jones, Charles B., above Cynwyd, Pa. Fuse plug and socket. 1,634,905; July 5.
- Jones, Charles E., and M. A. Atuesta, Schenectady, N. Y., assignor to General Electric Company. Corrosion-resisting metal. 1,615,707; Jan. 25.
- Jones, Charles G., assignor to Western Electric Company, Incorporated, New York, N. Y. Mounting vacuum bulbs. 1,615,883; Feb. 1.
- Jones, Charles L., Pittsburgh, Pa. Maintaining inert atmospheres in electrical apparatus. 1,641,814; Sept. 6.
- Jones, Charles L., Pittsburgh, Pa. Discharging carbon dioxide. 1,644,338; Oct. 4.
- Jones, Charles W., Richmond, and R. R. Gordon, Glenallen, Va. Railroad spike. 1,632,294; June 14.
- Jones, Charlie, White Plains, N. Y. Cotton cultivator. 1,628,542; May 10.
- Jones, Charlotte M., Philadelphia, Pa. Music-scale-indicating device. 1,643,303; Sept. 27.
- Jones, David B. (See Csonka, F. A., Bernton, and Jones.)
- Jones, David L., Oakland, Calif. Clothes hanger. 1,634,750; July 5.
- Jones, Earl L., et al. (See Green, Lee B., assignor.)
- Jones, Earle M., assignor to O. B. McClintock Company, Minneapolis, Minn. Automatic emergency lock for safes. 1,638,204; Aug. 9.
- Jones, Edward E., Rockford, Ill. Telephone holder. 1,626,539; Apr. 26.
- Jones, Edward M., St. Louis, Mo. Incinerator. 1,638,771; Aug. 9.
- Jones, Edward O., Brooklyn, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y. Plate or similar article. Des. 73,610; Oct. 11.
- Jones, Edward P., Breckenridge, Colo. Electric-driven rock drill and automatic hammer and boring machine. 1,625,211; Apr. 19.
- Jones, Edward P., Ellesmere Port, and A. H. Jackson, Manchester, England. Machine for shearing metal bars. 1,620,854; Mar. 8.
- Jones, Edward P., Ellesmere Port, and J. H. Middleton, Helsby, England. Grab for lifting or hoisting. 1,652,013; Dec. 6.
- Jones, Eleanor H., Boston, Mass. Golf tee. 1,631,270; June 7.
- Jones, Elmer M. (See Green, M., Jones, and Willard.)
- Jones, Elmore D., et al. (See Jones, Winfield S., assignor.)
- Jones, Ernest. (See Jones, Frank and E.)
- Jones, Erwin J., St. Paul, Minn. Mouth cleaning and massaging device. 1,631,133; June 7.
- Jones, Erwin J., St. Paul, Minn. Snow condenser. 1,643,121; Sept. 20.
- Jones, Floyd D., Cleveland, Ohio. Magazine and book support. 1,628,247; May 10.
- Jones, Floyd P., Torrance, Calif. Gas anchor for oil wells. 1,639,734; Aug. 23.
- Jones, Floyd P., Torrance, Calif. Adjustable beam hanger. 1,639,735; Aug. 23.
- Jones, Floyd P., Torrance, Calif. Adjustable-beam hanger. 1,644,434; Oct. 4.
- Jones, Francis J. S., Porthcawl, South Wales. Liquid-fuel-supply arrangement for internal-combustion engines. 1,621,933; Mar. 22.
- Jones, Frank and E., Birmingham, England. Expanding bracelet. 1,621,205; Mar. 15.
- Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Hosiery machine for making right and left toe pockets. 1,641,583; Sept. 6.
- Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Feeding means for knitting machines. 1,641,590; Sept. 6.
- Jones, Frank S., Philadelphia, Pa. Gearing for metal-working machines. 1,645,194; Oct. 11.
- Jones, Frank E., and W. Conkey, M. W., and Jones.)
- Jones, George, Flushing, N. Y. Protector for glass and metal door knobs and automobile handles. 1,633,988; June 28.
- Jones, George A., Denver, Colo. Mouse trap. 1,642,151; Sept. 13.
- Jones, George A. E., New London, Conn. Electric forge. 1,634,363; July 5.
- Jones, George A. E., assignor of one-third to A. B. Hart and one-third to H. H. Starr, New London, Conn. Automatic-feed rivet heater. 1,650,943; Nov. 29.
- Jones, George D., Petersburg, Va. Dustproof door for wardrobe trunks. 1,617,911; Feb. 15.
- Jones, George D., Petersburg, Va. Ironing-board attachment for wardrobe trunks. 1,626,468; Apr. 26.
- Jones, George D., East Cleveland, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio. Tractor-propelled implement. 1,644,885; Oct. 11.

- Jones, George E., sr., Knoxville, Tenn. Wheel. 1,643,460; Sept. 27.
- Jones, George H., administrator. (See Jones, Harold C.)
- Jones, George H., Oregon, Ill. Sound board for pianos. 1,634,689; July 5.
- Jones, George W. (See Herman, J. H. and Jones.)
- Jones, George W., and H. D. Robertson, assignors to Wachusett Shirt Company, Leominster, Mass. Soft collar. 1,650,717; Nov. 29.
- Jones, Harold C., deceased, Chicago, Ill., G. H. Jones, administrator. Fencepost. 1,637,645; Aug. 2.
- Jones, Harold F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Guard for pulleys. 1,629,709; May 24.
- Jones, Harry C. (See Darby, J. and Jones.)
- Jones, Harry C., Larchmont, assignor to Lithoprintex Corporation, New York, N. Y. Registration of photographic plates. 1,650,132; Nov. 22.
- Jones, Harry S., Chicago, Ill. Steel stock rack. 1,619,478; Mar. 1.
- Jones, Harry W. (See Sanford, H. W., and Jones.)
- Jones, Henry A., Lilbourn, Mo. Tube valve. 1,616,806; Feb. 8.
- Jones, Henry D., assignor to The American Seeding Machine Company, Springfield, Ohio. Fastening seed distributors to metal hoppers. 1,630,850; May 31.
- Jones, Henry R., assignor of one-third to W. P. Hurt and one-third to N. Sale, Bedford, Va. Internal-combustion engine. 1,621,634; Mar. 22.
- Jones, Howard N., Pawtucket, R. I., assignor of one-half to J. L. Jones, Winthrop, Mass. Door latch. 1,651,711; Dec. 6.
- Jones, Hugh H., Camden, N. J., assignor to General Chemical Company, New York, N. Y. Carboy package. 1,642,072; Sept. 13.
- Jones, Hubert B., Ada, Okla. Dispensing and advertising device. 1,625,944; Apr. 26.
- Jones, Ira M., assignor to C. A. Bechstein and E. E. Kornitz, Milwaukee, Wis. Apparatus for stretching skins and leather. 1,632,551; June 14.
- Jones, Isaac, Denver, Colo. Combined flash light and handle. 1,638,039; Aug. 9.
- Jones, Jacob H., Harborcreek, Pa., assignor, by mesne assignments, to Erie City Iron Works. Pulverizer beater. 1,621,256; Mar. 15.
- Jones, James F., Sewickley, Pa., assignor to The Consolidated Paper Company, Monroe, Mich. Machine for forming blanks for corrugated-paper boxes. 1,619,207; Mar. 1.
- Jones, James J., New York, N. Y. Broller. 1,627,742; May 10.
- Jones, James M., Lewisburg, Tenn. Railway and high-rail crossing gate. 1,642,026; Mar. 8.
- Jones, James M., assignor of twelve and one-half per cent to C. Buettner, and twenty-five per cent to R. A. Kennedy, Hamilton, Ohio. Wire wheel. 1,642,207; Sept. 13.
- Jones, Jesse L., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Solder. 1,651,709; Dec. 6.
- Jones, Jesse M., and R. R. Webb, assignors to Charles R. Hadley Company, Los Angeles, Calif. Tray binder. 1,633,023; June 21.
- Jones, John F., Chicago, Ill. Electrically-illuminated floor indicator for passenger elevators. 1,651,710; Dec. 6.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for making paper strips with thinned edges. 1,634,987; July 5.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Conveyer. 1,641,437; Sept. 6.
- Jones, John G., and H. G. Dewey, assignors to Eastman Kodak Company, Rochester, N. Y. Automatic photographic-film-spool-making machine. 1,616,973; Feb. 8.
- Jones, John H., Atlanta, Ga. Automatic sprinkler. 1,613,035; Jan. 4.
- Jones, John T., assignor of one-half to F. G. Stephens, St. Louis, Mo. Smoke consumer. 1,639,736; Aug. 23.
- Jones, John U., Dallas, Tex. Valve for engines and motors. 1,620,355; Mar. 8.
- Jones, John W., Smackover, Ark. Suspender buckle. 1,644,594; Oct. 4.
- Jones, John W., Philadelphia, Pa. Compound for removing paint and stains. 1,651,130; Nov. 29.
- Jones, Joseph H. (See Burgess, Robert, assignor.)
- Jones, Joseph L. (See Jones, Howard N., assignor.)
- Jones, L. W., Tool Company. (See Jones, Louis W., assignor.)
- Jones & Lamson Machine Company. (See Flanders, Ralph B., assignor.)
- Jones & Lamson Machine Company. (See Lovely, John E., assignor.)
- Jones & Laughlin Steel Corporation. (See Boardman, Charles S., assignor.)
- Jones & Laughlin Steel Corporation. (See Boardman, C. S., and Free, assignors.)
- Jones & Laughlin Steel Corporation. (See Jones, Wm. L., assignor.)
- Jones & Laughlin Steel Corporation. (See Rendleman, Norman C., assignor.)
- Jones & Laughlin Steel Corporation. (See Sennott, John H., assignor.)
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Method and mechanism for removing centrifuge effluents. 1,634,242; June 28.
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Method and mechanism for centrifugal treatment of substances. 1,634,243; June 28.
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal separator. 1,634,244; June 28.
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Method and mechanism for centrifugally separating substances. 1,649,117; Nov. 15.
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Method and apparatus for centrifugally separating substances. 1,649,118; Nov. 15.
- Jones, Leo D., and A. U. Ayres, assignors to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine and process involving the use of the same. Re-16,640; May 31.
- Jones, Leo D., and A. U. Ayres, assignors to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal bowl. 1,619,347; Mar. 1.
- Jones, Leo D., and A. U. Ayres, assignors to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,625,613; Apr. 19.
- Jones, Leo D., and A. U. Ayres, assignors to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine and process involving the use of the same. 1,634,245; June 28.
- Jones, Leo D., and A. U. Ayres, assignors to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine and process involving the use of the same. 1,634,246; June 28.
- Jones, Leslie W., assignor of one-third to A. H. Young, and one-third to C. L. Bright, Charleston, W. Va. Safety stop valve. 1,619,130; Mar. 1.
- Jones, Lester L., Oradell, N. J. Radiofrequency amplifier. 1,620,661; Mar. 15.
- Jones, Lester L., Oradell, N. J. Manufacture of electrical resistance units. 1,635,184; July 12.
- Jones, Lester L., Oradell, N. J. Variable condenser. 1,641,438; Sept. 6.
- Jones, Lewis, New York, N. Y. Sheet mill. 1,634,196; June 28.
- Jones, Lloyd, Freeport, N. Y. Rolltag mill. 1,636,057; July 19.
- Jones, Louis S., G. W. Fisher, and C. G. Henrikson, assignors to The National Tile Company, Anderson, Ind. Tile-coating machine and process. 1,627,098; May 3.
- Jones, Louis W., New York, N. Y., assignor to L. W. Jones Tool Company, Incorporated. Chain-operating device. 1,647,801; Nov. 1.
- Jones, Louis W., New York, N. Y., assignor to L. W. Jones Tool Company. Tool holder. 1,642,831; Nov. 1.
- Jones, Louis W., assignor to Eastman Kodak Company, Rochester, N. Y. Portable projection screen. 1,627,908; May 10.
- Jones, Loyd A., assignor to Eastman Kodak Company, Rochester, N. Y. Illuminating apparatus. 1,631,488; June 7.
- Jones, Martha, Akron, Ohio, and T. H. Forehand, Nashville, Tenn. Adjustable bearing. 1,652,014; Dec. 6.
- Jones, Maurice F. (See Riley, L. G., Candee, and Jones.)
- Jones, Mayer, and B. E. Goldstein, Brooklyn, N. Y., assignors to Jones Bros. Co., Inc., New York, N. Y. Container for candy and other articles. Des. 71,800; Jan. 4.
- Jones, Minnie L., Cornelia, Ga. Danger indicating means for highways. 1,641,279; Sept. 6.
- Jones, Morris. (See Metcalf, R., and Jones.)
- Jones, Mortimer. (See Panajiotaros, A., and Jones.)
- Jones, Neil M., Los Angeles, Calif. Radioactive adhesive plastic composition. 1,645,599; Oct. 13.
- Jones, Norman and S. Bolton, England. Detaching roller of combing machines for combing cotton and other fibrous materials. 1,639,802; Aug. 23.
- Jones, Paul A., Jacksonville, Ill. Hand covering. 1,612,822; Jan. 4.
- Jones, Paul R., Porterville, Calif., assignor to Balfour, Guthrie & Co. Insecticide emulsion. 1,646,149; Oct. 18.
- Jones, Percival W., Warwick, R. I. Hook. 1,635,277; July 12.
- Jones, Percival W., Warwick, assignor to Louis Stern Company, Providence, R. I. Safety catch. 1,631,824; June 7.
- Jones, Percival W., Warwick, assignor to Rosenheim Co., Inc., Providence, R. I. Bracelet. 1,636,639; July 19.
- Jones, Percival W., Warwick, assignor to Rosenheim Co., Inc., Providence, R. I. Bracelet. 1,641,763; Sept. 6.
- Jones, Philip J., Elkhart, Ind. Railway gauge or tie rod. 1,648,645; Nov. 8.
- Jones, R. A., & Company. (See Jones, Ruel A., assignor.)
- Jones, Richard G., Hynes, Calif. Transmission. 1,633,989; June 28.
- Jones, Richard G., Hynes, Calif. Deplegmatator. 1,633,990; June 28.
- Jones, Robert W., Stony Point, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,646,407; Oct. 25.
- Jones, Robert R., Akron, Ohio. Curing rubber articles. 1,642,614; Sept. 13.
- Jones, Robert R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for coating and drying fabric or the like. 1,632,760; June 14.

- Jones, Robert R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Seal for driers, heaters, or the like. 1,633,548; June 21.
- Jones, Ruel A., assignor to R. A. Jones & Company, Inc., Covington, Ky. Carton-feeding mechanism for carton folding and filling machine. 1,624,740; Apr. 12.
- Jones, Rufus B. (See Shipley, C. W., and Jones.)
- Jones, Rufus B., assignor to The Trailmobile Company, Cincinnati, Ohio. Semitrailer. 1,617,714; Feb. 15.
- Jones, Rufus B., assignor to The Trailmobile Company, Cincinnati, Ohio. Semitrailer. 1,654,503; Dec. 27.
- Jones, Russell C., Bronxville, assignor to The Griscom Russell Company, New York, N. Y. Bent tube evaporator. 1,617,119; Feb. 8.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Deaerator. 1,622,283; Mar. 29.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Heat exchanger with self-draining tube surface. 1,641,975; Sept. 13.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Submerged drain cooler in evaporators. 1,662,204; Dec. 13.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Deaerator. 1,654,260; Dec. 27.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Deaerator. 1,654,261; Dec. 27.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Deaerator. 1,654,262; Dec. 27.
- Jones, Russell G., London, England, and C. Zwiebel, Dayton, Ohio, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-winding machine. 1,635,677; July 12.
- Jones, Samuel. (See Neil, A., Jones, and Neil.)
- Jones, Sheldon L., Brooklyn, N. Y. Signaling device for automobiles. 1,632,081; June 14.
- Jones, Stanley P., Waco, Tex. Electric razor. 1,613,953; Dec. 11.
- Jones, Sidney. (See Jones, Norman and S.)
- Jones, Thomas A., Walla Walla, Wash. Power take-off. 1,633,814; June 28.
- Jones, Thomas L., Christchurch, New Zealand. Automatic temperature-controlling apparatus. 1,618,828; Feb. 22.
- Jones, Thomas L. R., Newark, N. J. Elevator safety appliance. 1,614,675; Jan. 18.
- Jones, Thomas M., Garden City, Kans. Concrete form. 1,631,826; June 7.
- Jones, Thomas W. (See Styer, J. F., and Jones.)
- Jones, Vincent L., New Haven, Conn. Boiler. 1,618,829; Feb. 22.
- Jones, Virgil B., Hawarden, Iowa. Valve. 1,649,235; Nov. 15.
- Jones, Warren C., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone receiver. 1,642,776; Sept. 20.
- Jones, Warren C., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Receiver. 1,642,777; Sept. 20.
- Jones, William, Los Angeles, Calif. Automatic-reverse-motion brake. 1,644,081; Oct. 4.
- Jones, William A. (See Morgan, J. F., and Jones.)
- Jones, William A., Miami, Fla. Wick for cooking and heating stoves. 1,651,209; Nov. 29.
- Jones, William F., Little Falls, N. J. Construction and installing subaqueous conduits. 1,647,448; Nov. 1.
- Jones, William H., Utica, N. Y. Tire-chain catch. 1,620,894; Mar. 15.
- Jones, William H., Fellows, and A. Eberle, Taft, Calif. Ball catcher. 1,623,543; Apr. 5.
- Jones, William H., and M. Kinnebrew, Fellows, Calif. May drill. 1,614,141; Jan. 15.
- Jones, William J., Carthage, Mo. Stone and marble saw. 1,620,466; Mar. 8.
- Jones, Wm. L., Pittsburgh, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Continuous mill and rolling structural shapes. 1,632,295; June 14.
- Jones, William P., Dover, N. J. Wire-cloth-stretching machine. 1,649,350; Nov. 15.
- Jones, Winfield S., Brea, assignor of one-eighth to H. U. Baker, Los Angeles, three-sixteenths to E. D. Jones, Taft, one-fourth to L. T. McCutcheon, and one-fourth to J. F. McMahon, Los Angeles, Calif. Cutter. 1,614,840; Jan. 18.
- Jongedyk, Ralph, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine press. 1,614,557; Jan. 18.
- Jonick, Michael, New York, N. Y., assignor to Jonick-Sirken Co., Inc. Lighting-fixture strap. Des. 72,318; Mar. 29.
- Jonick, Michael, New York, N. Y., assignor to Jonick-Sirken Co., Inc. Lighting-fixture strap. Des. 72,710; May 24.
- Jonick, Michael, New York, N. Y., assignor to Jonick-Sirken Co., Inc. Lighting-fixture wall bracket. Des. 72,711; May 24.
- Jonick-Sirken Co. (See Jonick, Michael, assignor.)
- Jonisch, Steven. (See Schnur, J. M., Kesseling, Schnur, and Jonisch.)
- Jonkhoff, Hendri W., Semarang, Java, Dutch East Indies. Brake device. 1,625,727; Apr. 19.
- Jones, Lloyd, Circleville, Ohio. Support for garment hangers of the like. 1,628,623; May 10.
- Jonsson, Gustaf E. Halmslad, Sweden. Nut lock. 1,639,803; Aug. 23.
- Jonsson, Jonas, Vansbro, Sweden. Transport wagon for railways. 1,628,543; May 10.
- Jonsson, Jonas, Vansbro, and C. W. Dybeck, Falun, Sweden. Pine-seed separator. 1,646,803; Oct. 25.
- Jopson, William G., Wellesley, Mass., assignor, by mesne assignments, to C. A. Reed Company, Williamsport, Pa. Shipping tag. 1,632,082; June 14.
- Jordan, Claude W. (See Fulweiler, W. H., and Jordan.)
- Jordan, Daniel, Harrison, Nebr. Mower. 1,616,629; Feb. 8.
- Jordan, Eugène, Franconville, assignor to Societe L'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude), Paris, France. Tray for gas and liquid contact apparatus. 1,621,728; Mar. 22.
- Jordan, Franz, Berlin-Lichterfelde, Germany. Track brake. 1,613,535; Feb. 22.
- Jordan, Hans, Karlshorst, Germany, assignor to General Electric Company. Loading system for telephone lines. 1,637,044; July 26.
- Jordan, Hugh I., Staunton, Va. Valve lifter. 1,636,058; July 18.
- Jordan, Jesse M., Lovefield, Tex. Milk-bottle cap. 1,627,036; May 3.
- Jordan, Louis, and G. W. Quick, Washington, D. C., assignors to the United States of America, represented by the Secretary of Commerce. Alloy. 1,638,855; Aug. 16.
- Jordan, O. F., Company. (See Protzeller, Harry W., assignor.)
- Jordan, Roy E., Newark, N. J., assignor to The Mosaic Tile Company. Toothbrush holder. Des. 72,998; July 5.
- Jordan, Roy E., Newark, N. J., assignor to The Mosaic Tile Company. Bar and shelf bracket. Des. 73,038; July 12.
- Jordan, Roy E., Newark, N. J., assignor to The Mosaic Tile Company. Receptacle for rolls of toilet paper. 1,643,380; Sept. 27.
- Jordan, Silas V., assignor to Delco-Light Company, Dayton, Ohio. Lamp stand. Des. 74,113; Dec. 20.
- Jordan, Wesley, assignor to South Bend Bait Co., South Bend, Ind. Bait seat. 1,617,951; Feb. 15.
- Jordan, William, New York, N. Y. Loading device. 1,649,829; Nov. 22.
- Jordan, William C., Madison, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,624,953; Apr. 19.
- Jordan, William M., and C. S. Nichols, Lincoln, Nebr. Corn sheller. 1,650,988; Nov. 29.
- Jordanoff, Assen C., Toledo, Ohio. Aerial navigation. 1,613,834; Jan. 11.
- Jording, Charles A. (See Gardner, Leonard T., assignor.)
- Jorgensen, Aage K., Oakland, Calif. Block for wall construction. 1,651,893; Dec. 6.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack-supplying mechanism. 1,631,134; June 7.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Assembling and testing machine. 1,634,550; July 5.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. 1,648,403; Nov. 8.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in lasting shoes. 1,653,289; Dec. 20.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting shoes. 1,653,290; Dec. 20.
- Jorgensen, Clarence H. (See Jorgensen, Peter J. and C. H.)
- Jorgensen, Hans G., Erie, Pa. Ash receptacle. 1,627,907; May 10.
- Jorgensen, Hans G., Erie, Pa. Antirattle joint strip. 1,632,908; June 21.
- Jorgensen, Hans G., Erie, Pa. Antirattle joint strip. 1,653,012; Dec. 20.
- Jorgensen, Lewis, Sioux City, Iowa. Current retarder. 1,633,530; June 21.
- Jorgensen, Olav E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,615,282; Jan. 25.
- Jorgensen, Olav E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Spray valve for oil engines. 1,615,457; Jan. 25.
- Jorgensen, Olav E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,615,458; Jan. 25.
- Jorgensen, Olav E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine piston. 1,615,459; Jan. 25.
- Jorgensen, Olav E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Scavenging air pump or compressor. 1,619,131; Mar. 1.
- Jorgensen, Olav E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Piston-cooling device. 1,619,618; Mar. 1.

- Jorgensen, Olav E., Forest Hills, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Piston for internal-combustion engines. 1,626,838; May 3.
- Jorgensen, Olav E., Forest Hills, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Reversing and starting mechanism for internal-combustion engines. 1,636,964; July 26.
- Jorgensen, Olav E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam-jacketed oil pump and pipe connection for internal-combustion engines. 1,644,838; Oct. 11.
- Jorgensen, Peter J. and C. H., Chicago, Ill. Lubricant cup. 1,620,557; Mar. 8.
- Jorgensen, Peter J. and C. H., Chicago, Ill. Oil gun. 1,624,138; Apr. 12.
- Jorner, Victor G., Chicago, Ill. Lathe chuck. 1,635,481; July 12.
- Jorstad, Osmund M., East Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, Pantograph trolley shoe. 1,638,856; Aug. 16.
- Jory, William E., Martinez, Calif. Automobile headlight. 1,620,356; Mar. 8.
- Josef, Edward E., Buffalo, N. Y. Shaft coupling. 1,647,802; Nov. 1.
- Joseph, Arthur H., Detroit, Mich., assignor to The Milleometer Company, Chicago, Ill. Speedometer. 1,649,830; Nov. 22.
- Joseph, Edmond C., New Orleans, La. Washing and polishing device. 1,641,494; Sept. 6.
- Joseph & Feiss Co., The. (See Feiss, Richard A., assignor.)
- Joseph, Frederick, and I. Creamer, assignors of one-third to J. Alterman, New York, N. Y. Faucet attachment. 1,623,248; Apr. 5.
- Joseph, Henry, Pittsburgh, assignor to United States Sand Paper Company, Williamsport, Pa. Sheet abrasive material. Re16,535; Jan. 11.
- Joseph, Henry, Pittsburgh, Pa., assignor to United States Sand Paper Company, Williamsport, Pa. Sheet abrasive material. 1,614,618; Jan. 18.
- Joseph, Henry, assignor, by mesne assignments, to R. Joseph, Milwaukee, Wis. Washing machine. 1,617,526; Feb. 15.
- Joseph, Leslie B., assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Shoe. 1,643,551; Sept. 27.
- Jose, Rosa. (See Joseph, Henry, assignor.)
- Joseph, Sheldon, assignor of eighteen one-hundredths to J. P. Cole, sixteen one-hundredths to W. B. Casey, and sixteen one-hundredths to E. H. Meagle, Wheeling, W. Va. Kerosene-gas generator and burner using radiant. 1,630,184; May 24.
- Joseph, Apatal M., New York, N. Y. Developing apparatus for photographic films. 1,642,927; Sept. 20.
- Joseph, Apatal M., assignor to Photomat Inc., New York, N. Y. Photographic apparatus. 1,631,593; June 7.
- Josephs, Benjamin, et al. (See Methot, John A., assignor.)
- Josephs, Lyman C., jr., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Bogie truck for self-propelled rail cars. 1,617,715; Feb. 15.
- Josephson, Walter S., New York, assignor, by mesne assignments, to Dry Ice Corporation of America, New York, N. Y. Fire-extinguishing apparatus for motor vehicles. 1,616,974; Feb. 8.
- Josey, J. E., et al. (See Rayon, Joseph D., assignor.)
- Joslin, Charles T., Cleveland, and C. W. Klotz, Parma Village, Ohio, assignors to The Russ Manufacturing Company, Cleveland, Ohio. Sirup pump. 1,641,280; Sept. 6.
- Joslin, Lydia E., Los Angeles, Calif. Eraser cleaner. 1,643,000; Aug. 30.
- Joslin, Pliny N., De Kalb, Ill. Roller. 1,627,561; May 10.
- Joslin, Pliny N., De Kalb, Ill. Hotel-room-record rack. 1,642,208; Sept. 13.
- Joslin, William H., assignor to Shoe Lace Company, Ltd., Providence, R. I. Box. 1,645,203; Oct. 18.
- Jos. Fe. Farbenphoto Gesellschaft mit beschrankter Haftung. (See Piloty, Hans, assignor.)
- Jost, Fred, San Francisco, Calif. Apparatus for mixing fluids of different densities. 1,646,913; Oct. 25.
- Jostam Manufacturing Co. (See Ammann, Albert H., assignor.)
- Jourdan, Alvin S., et al. (See Jourdan, Roy E., assignor.)
- Jourdan, Clarence C., et al. (See Jourdan, Roy E., assignor.)
- Jourdan, Felix, Rome, Italy. Treatment of leucite and other sodium and potassium silicates with lime for the purpose of extracting potassium or sodium and aluminum values. 1,620,212; Mar. 8.
- Jourdan, Roy E., assignor of one-fourth to A. S. Jourdan, one-fourth to C. C. Jourdan, and one-fourth to E. J. P. Lutzke, Rhineclander, Wis. Wire cutter. 1,622,446; Mar. 29.
- Journet, Elaine, New York, N. Y. Handkerchief. Des. 1,605,475; Feb. 22.
- Jovino, John V., Brooklyn, N. Y. Safety holster. 1,641,439; Sept. 6.
- Joy, Charles H., jr. (See Sauer, L. J., and Joy.)
- Joy, Charles H., jr. (See Sauer, L. J., and Joy, assignors.)
- Joy, Guy A., Lombard, assignor to Joy-Kelsey Corporation, Chicago, Ill. Inductance coil for high-frequency circuits. 1,648,388; Nov. 8.
- Joy, Henry P., New York, N. Y. Focusing device for motion-picture-projecting apparatus. 1,620,768; Mar. 15.
- Joy, Joseph F., assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa. Loading machine. 1,612,260; Mar. 1.
- Joy, Henry P., Pittsburgh, assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa. Loading machine. 1,628,985; May 17.
- Joy-Kelsey Corporation. (See Joy, Guy A., assignor.)
- Joy Manufacturing Company. (See Joy, Joseph F., assignor.)
- Joy Manufacturing Company, The. (See Nicks, Ira G., assignor.)
- Joy, Vernon A., New York, N. Y. Hairpin box. 1,623,684; Apr. 5.
- Joyal, Peter M., Methuen, Mass. Fish trap. 1,621,017; Mar. 15.
- Joyce, Ada. (See Kadane, C., and Joyce.)
- Joyce, Bryan P., Davenport, Iowa. Packing ring. Re16,725; Aug. 30.
- Joyce, Bryan P., Davenport, Iowa. Liquid-level gauge. 1,640,606; Aug. 30.
- Joyce, Bryan P., Davenport, Iowa, assignor to T. A. Conlon, Silver Spring, Md. Hoist. 1,635,162; July 5.
- Joyce, Bryan P., Davenport, Iowa. Packing. 1,651,131; Nov. 29.
- Joyce, Bryan P., Washington, D. C. Packing. 1,635,482; July 2.
- Joyce, Cridland Company, The. (See Hott, Ion V. K., assignor.)
- Joyce, Harold L., East Orange, assignor to Tiffany Manufacturing Company, Newark, N. J. Ignition timer. 1,621,115; Mar. 15.
- Joyce, Thomas J., Philadelphia, Pa. Unwinding device. 1,620,558; Mar. 8.
- Joyce, James D., Philadelphia, Pa. Winding machine. 1,649,066; Nov. 15.
- Joyce, John, Quincy, Mass. Electric brake. 1,652,362; Dec. 13.
- Joyce, Roy E., Montebello, Calif. Pressure regulator. 1,622,151; Mar. 22.
- Joyner, George F., assignor of one-half to L. M. Moseley, Montpelier, Miss. Swivel hook. 1,642,958; Sept. 20.
- Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
- Jubonsky, Max, San Francisco, Calif. Automobile bumper. 1,620,357; Mar. 8.
- Juch, Otto, Rathenow, Germany. Nose bridge of spectacles. 1,651,062; Nov. 29.
- Judd, Arthur C., New York, N. Y. Rod packing. 1,617,952; Feb. 15.
- Judd, H. L. Co. (See Dlouhy, August, assignor.)
- Judd, H. L. Co. (See Hofmann, William F., assignor.)
- Judd, Irving H., Detroit, assignor to Whitehead and Kales, Inc., River Rouge, Mich. Landing and raising gear for semitrailers. 1,631,135; June 7.
- Judd, Irving H., Detroit, assignor to Whitehead and Kales, Inc., River Rouge, Mich. Fifth-wheel construction. 1,634,945; July 5.
- Judd, Irving H., assignor to Whitehead & Kales Company, Detroit, Mich. Brake attachment for tractors. 1,636,231; July 19.
- Judd, J. B., Braintree, Mass. Game-ball holder. 1,625,856; Apr. 26.
- Judell, H. L., and Company. (See Mullen, John E., assignor.)
- Judelson, Oscar I., Park Ridge, N. J. Fabric-cutting machine. 1,640,833; Aug. 30.
- Judelson, Julius, New York, N. Y. Load supporting and carrying device. 1,632,904; June 21.
- Judge, Edward A. (See Cameron, Hugh M., assignor.)
- Judge, Joseph S., Brooklyn, N. Y. Waxer and polisher. 1,632,481; June 14.
- Judge, Thomas C., New Brunswick, N. J. Sash fastener. 1,617,813; Feb. 15.
- Judkins, Orlo W., assignor to H. M. Reynolds Shingle Company, Grand Rapids, Mich. Forming designs. 1,645,534; Oct. 18.
- Judson, Ernest G., Centralla, Wash. Water meter. 1,645,245; Oct. 11.
- Judson, Russell V., Detroit, Mich. Portable apparatus for cleaning and grading grain, seed, and the like. Re16,600; Apr. 19.
- Judson, Russell V., Detroit, Mich. Centrifugal sorting machine. 1,650,218; Nov. 22.
- Judy, Philip S., Kansas City, Mo. Making and maintaining wells. 1,642,245; Sept. 13.
- Jufe, Fannie. (See Jufe, Joseph E., assignor.)
- Jufe, Joseph E., assignor to F. Jufe, New York, N. Y. Safety apparatus for vehicles. 1,640,836; Aug. 23.
- Juhasz Carburetor Corporation. (See Juhasz, John, assignor.)
- Juhasz, John, assignor to Juhasz Carburetor Corporation, New York, N. Y. Carburetor. 1,640,412; Aug. 30.
- Juhasz, Michael, Dover, Ohio. Vehicle signaling system. 1,620,542; May 17.
- Julia, Gideon, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-rounding machine. 1,620,027; Mar. 8.
- Julian & Kokegne Company, The. (See Wilke, John M., sr., assignor.)

- Julian, Marcena R., assignor to Julian Pump and Manufacturing Corporation, Jamestown, N. Y. Liquid-dispensing pump, 1,650,073; Nov. 22.
- Julian Pump and Manufacturing Corporation. (See Julian, Marcena R., assignor.)
- Juliano, John, assignor of one-fourth to J. F. Braden, Niagara Falls, N. Y. Rear air-brake control, 1,619,132; Mar. 1.
- Julich Jakob W., Tulsa, Okla. Land and water auto, 1,615,389; Jan. 25.
- Jull, Charles H., Ben Avon, assignor to Pittsburgh, Erie Saw Company, Pittsburgh, Pa. Power saw, 1,638,122; Aug. 9.
- Jumonville, Edward, New Orleans, La. Combined mop and wringer, 1,620,028; Mar. 8.
- Jumonville, Edward, New Orleans, La. Making mop heads, 1,625,857; Apr. 26.
- Jump, George H., Buffalo, N. Y., assignor to General Electric Company. Frequency changer, 1,637,863; Aug. 2.
- Jung Arch Brace Company, The. (See Jung, George H., jr., assignor.)
- Jung, George H., jr., assignor to The Jung Arch Brace Company, Cincinnati, Ohio. Surgical device and making same, 1,616,178; Jan. 18.
- Jung, Peter. (See Heidicke, Hermann, assignor.)
- Junge, Erich, Staten Island, N. Y. Internal-combustion engine, 1,624,489; Apr. 12.
- Junge, Erich, Staten Island, N. Y. Internal-combustion engine, 1,643,591; Sept. 27.
- Jurgens, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine, 1,640,451; Aug. 30.
- Junken, Lawrence H., Schenectady, N. Y., assignor to General Electric Company. Thermionic current transformer, 1,645,057; Oct. 11.
- Junker, Ernest, London, England. Detachable heel pad for boots and shoes, 1,613,881; Feb. 22.
- Junker, Otto, Stolberg, Germany. Mold for casting metals, 1,616,086; Jan. 18.
- Junker, Thomas J., Williamsport, Pa. Game device, 1,640,095; Oct. 8.
- Junkers, Hugo. (See Mader, Otto, assignor.)
- Junkers, Hugo, Dessau, Germany. Heating furnace, 1,614,439; Jan. 11.
- Junkers, Hugo, Dessau, Germany. Erection of the hulls and the like of flying machines, 1,618,536; Feb. 22.
- Junkers, Hugo, Dessau, Germany. Sheet-metal trelliswork, 1,619,518; Mar. 1.
- Junkers, Hugo, Dessau, Germany. Erection of wings and the like for flying machines, 1,625,029; Apr. 19.
- Junkers, Hugo, Dessau, Germany. Fuel control in internal-combustion engines, 1,636,998; July 26.
- Junkers, Hugo, Aachen-Frankenburg, Germany. Liquid-fuel furnace, 1,636,999; July 26.
- Junkers, Hugo, Dessau, Germany. Propeller, 1,645,811; Oct. 18.
- Junkers, Hugo, Dessau, Germany. Starting internal-combustion engines, 1,647,231; Nov. 1.
- Junkins, Oliver R. (See Atwood, C. R., Berg, and Junkins.)
- Junkunc, Andrew W. (See Fentress, J., and Junkunc.)
- Junkunc, John, Chicago, Ill. Tire lock, 1,638,264; Aug. 9.
- Jupp, Alfred E., and F. Seigh, Youngstown, Ohio. Repeater for rolling mills, 1,648,732; Nov. 8.
- Jupp, George E. (See Lenz, C. S., and Jupp.)
- Jupp, William B., New York, and G. O. Hanshaw, Brooklyn, assignors to International Motor Company, New York, N. Y. Body suspension for motor vehicles, 1,634,946; July 8.
- Jurasinski, Thomas L., West Allis, Wis. Window structure, 1,635,678; July 12.
- Jurey, Wesley F., Norcatur, Kans. Meat tenderer, 1,631,869; June 7.
- Jurgens, Emil G. (See Becker, H. K., and Jurgens.)
- Jurriaanse, Nicolaas van W., Baarn, Netherlands. Device for launching boats on board of vessels, 1,636,059; July 19.
- Jury, Alfred E., Rutherford, N. J., and O. H. Smith, assignors to General Rubber Company, New York, N. Y. Preserving latex and product, 1,619,938; Mar. 8.
- Jüsternitz, Hermann. (See de Trairun, M. K., and Jüsternitz.)
- Justice, Charles E. (See Vaughan, J. L., and Justice.)
- Justice, Ellis R., Charlotte, N. C. Tube-repairing attachment for automobiles, 1,640,327; Aug. 25.
- Justin, Basil D., Chicago, Ill. Condiment holder, 1,614,793; Jan. 18.
- K. W. Battery Company. (See Nordhaus, William H., assignor.)
- Kasas, Ole, Ferndale, Wash. Carbide indicator for gas generators, 1,644,002; Oct. 4.
- Kabisius, Charles F., Santa Monica, Calif. Pneumatic sander, 1,613,277; Jan. 4.
- Kabus, Fernand, Amsterdam, Netherlands, assignor to "Turmac" Turkish Macedonian Tobacco Co., Amsterdam. Ash tray with pedestal, 1,638,205; Aug. 9.
- Kachel, Charles, Miami, Fla. Vehicle brake, 1,653,013; Dec. 20.
- Kachman, John, Berwyn, Ill. Connector, 1,647,097; Oct. 25.
- Kacziba, Alexander, San Antonio, Tex. Steering device, 1,621,206; Mar. 15.
- Kadane, Cora, and A. Joyce, Wichita Falls, Tex. Permeant-wave device, 1,658,443; Aug. 9.
- Kaddatz, Emil, Ortonville, Minn. Color-testing device for translucent fluids, 1,647,569; Nov. 1.
- Kadel, Byers W., Baltimore, Md. Railway car, 1,617,395; Feb. 15.
- Kadel, Byers W., Baltimore, Md. Car truck, 1,630,567; May 31.
- Kadel, Byers W., Baltimore, Md. Car truck, 1,630,568; May 31.
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- Kadel, Byers W., Baltimore, Md. Car truck, 1,630,570; May 31.
- Kadel, Byers W., Baltimore, Md. Draft rigging, 1,634,306; July 5.
- Kadel, Byers W., Baltimore, Md. Door mechanism for railway cars, 1,637,905; Aug. 2.
- Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Draft rigging, Re1,659; Feb. 22.
- Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company, New York, N. Y. Friction draft gear, 1,618,830; Feb. 22.
- Kadel, Byers W., Baltimore, Md., assignor, to The Symington Company, New York, N. Y. Split-ring draft gear, 1,624,742; Apr. 12.
- Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Side frame, 1,628,544; May 10.
- Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Manufacturing draft yokes, 1,633,670; June 28.
- Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Draft rigging, 1,639,277; Aug. 16.
- Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Key adapter for draft gears, 1,649,351; Nov. 15.
- Kadel, Byers W., Baltimore, Md., and D. S. Barrows, Rochester, N. Y. Car truck, 1,630,571; May 31.
- Kadel, Byers W., Baltimore, Md., and D. S. Barrows, Rochester, N. Y. Car truck, 1,630,572; May 31.
- Kadel, Byers W., Baltimore, Md., and D. S. Barrows, Rochester, N. Y. Car truck, 1,630,573; May 31.
- Kadel, Byers W., Baltimore, Md., and D. S. Barrows, Rochester, N. Y. Car truck, 1,630,574; May 31.
- Kadel, Barry E., assignor to The Art Specialty Company, Cleveland, Ohio. Lighting fixture, Des. 72,155; Mar. 8.
- Kadow, August, assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Gathering means for glass-working apparatus, 1,645,755; Oct. 18.
- Kadow, Roy, New York, N. Y. Lighting apparatus, 1,616,579; Feb. 8.
- Kaechele, Ernest, New York, and G. Kaechele and R. Leidig, Brooklyn, N. Y. Collapsible boat, 1,649,311; Nov. 15.
- Kaechele, George. (See Kaechele, Ernest and G., and Leidig.)
- Kaegi, Emil, Detroit, Mich., assignor to D. J. Burns, Bronxville, N. Y. Oil filter, 1,631,594; June 7.
- Kaehni, Frank J. and W. L. assignors to The Cleveland Trust Company, trustees, Cleveland, Ohio. Sound-producing device, 1,632,408; June 14.
- Kaehni, William L. (See Kaehni, Frank J. and W. L.)
- Kaeser, Otto F. (See Bager, S. R. W. M., Kaeser, and Lehman.)
- Kaestner & Hecht Company. (See Dunlop, James, assignor.)
- Kaestner & Hecht Company. (See Dunlop, J., and Clancy, assignors.)
- Kafka, Heinrich, Berlin-Lichterfelde-West, and S. Klein, Copenick, near Berlin, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Measuring device for high-voltage networks, 1,617,912; Feb. 15.
- Kahl, Abraham A., Brooklyn, N. Y. Cushion bumper, 1,649,166; Nov. 15.
- Kahl, Ernest B. (See Jahn, B., and Kahl.)
- Kahl, Leopold, Berlin-Dahlem, assignor to Rütgerswerke Aktiengesellschaft, Abteilung Plattenwerke, Berlin, Germany. Production of arc-light electrodes, 1,654,046; Dec. 27.
- Kahler, Paul F., Chicago, Ill. Photographic printing frame, 1,638,936; Aug. 16.
- Kahlsch, Gustav. (See Reimers, W., and Kahlsch.)
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heater, Re18,707; Aug. 16.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heater, Des. 72,264; Mar. 15.
- Kahn, Isaac T., Cleveland, Ohio. Container for collapsible tubes, 1,643,881; Sept. 27.
- Kahn, Joseph, Chicago, Ill. Loose-leaf-binder lock, 1,647,635; Nov. 1.
- Kahn, Julius, Youngstown, Ohio. Electric-welding machine with pedestal, 1,623,249; Apr. 5.
- Kahn, Marcus, Brooklyn, N. Y. Collar, 1,622,037; Mar. 22.
- Kahn, Maurice, assignor to Société Française des Produits Alimentaires Azotes, Paris, France. Manufacture of nitrogen-containing products, 1,642,209; Sept. 13.
- Kahn, Michael M. (See Bromberg, Samuel, assignor.)

- Kahn, Milton, New York, N. Y. Educational device. 1,645,008; Oct. 11.
- Kahn, Myrtill, Cologne, and R. Mayer, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Catalytic reduction of organic nitro compounds. 1,639,186; Aug. 16.
- Kahn, Samuel, San Francisco, Calif., assignor to Byllesby Engineering and Management Corporation, Chicago, Ill. Safety car. 1,617,761; Feb. 15.
- Kahns, Walter R., and K. Keller, assignors to J. H. White Manufacturing Company, Brooklyn, N. Y. Lighting fixture. 1,639,508; Aug. 16.
- Kalmer, Richard V., assignor to The English & Mersick Co., New Haven, Conn. Latch for vehicle doors. Re16,735; Sept. 13.
- Kain, Clifford H., San Carlos, Calif. Rotary internal-combustion engines. 1,623,875; Apr. 5.
- Kain, Clifford H., San Carlos, Calif. Rotary pump and motor. 1,623,924; Apr. 5.
- Kaiser, Auguston D., Mountain Home, Tex. Gate. 1,630,704; May 31.
- Kaiser, Emil F., Fresno, Calif. Grass catcher for lawn mowers. 1,652,363; Dec. 13.
- Kaiser, George D., Chicago, Ill. Valve-control mechanism. 1,629,627; May 24.
- Kaiser, Otto. (See Fritzsche, H., Krummenacher, Gubler, and Kaiser.)
- Kaiser, William H., Harborside Township, Pa., assignor to American Meter Company, New York, N. Y. Meter connection. 1,621,986; Mar. 22.
- Kaisting, Frank W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Rheostat. 1,618,014; Feb. 15.
- Kaisting, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Rheostat. 1,618,015; Feb. 15.
- Kaisting, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combination switch. 1,621,729; Mar. 22.
- Kaisting, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Wall telephone. 1,617,393; Mar. 3.
- Kaisting, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition switch. 1,641,169; Sept. 6.
- Kaisting, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Plug. 1,646,541; Oct. 23.
- Kaji, Jiro, Vancouver, British Columbia, Canada. Sign-making device. 1,633,703; June 28.
- Kalaf, John, Jr., Meta, Mo. Friction clutch. 1,635,086; July 5.
- Kalamusko Store Company. (See Wolverton, Harry H., assignor.)
- Kalatzky, Irwin L., New York, N. Y. Stationary hub for vehicles. 1,644,339; Oct. 4.
- Kalbach, Raymon B., Philadelphia, Pa. Attachment for braiding machinery. 1,649,476; Nov. 15.
- Kalcher, George J., Hamilton, Ohio. Caster. 1,622,447; Mar. 29.
- Kalbfleisch Corporation, The. (See Fredriksson, John F., assignor.)
- Kale, William G. (See Nell, G. M., and Kale.)
- Kalenborn, Arion S. (See Fricker, R. E., and Kelenborn.)
- Kales Stamping Company. (See Whitehead, James F., assignor.)
- Kaley, John A., Elyria, Ohio. Paring machine. 1,618,091; Feb. 15.
- Kalgen, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Ironing board. 1,636,232; July 19.
- Kalgen, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Ironing board. 1,636,305; July 19.
- Kalgen, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Ironing board. 1,637,526; Aug. 2.
- Kalgen, John E., assignor to The J. R. Clark Co., Minneapolis, Minn. Stepladder. 1,641,591; Sept. 6.
- Kalgen, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Stepladder-assembling machine. 1,645,414; Oct. 11.
- Kalgen, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Step-ladder-support-assembling machine. 1,647,365; Nov. 1.
- Kali-Industrie A. G. (See Küppers, Kurt, assignor.)
- Kalix Cup Company. (See Benson, William E., assignor.)
- Kalix Cup Company. (See Prudden, Theodore M., assignor.)
- Kalix Cups Company. (See Prudden, Theodore M., assignor.)
- Kalkbrenner, Louis, Wall, S. D. Automatic valve. 1,622,448; Mar. 29.
- Kallbeck, John A., San Francisco, Calif. Fluid-operated motor. 1,641,001; Aug. 30.
- Kallberg & Co. Aktiengesellschaft. (See Schmidt, M. P., and Krieger, assignors.)
- Kallmeyer, Ernst, New York, N. Y. Syringe head. 1,638,532; Aug. 9.
- Kallmeyer, Ernst, Burghelm, Germany, assignor to H. W. Reese, New York, N. Y. Catheter. 1,626,839; May 3.
- Kalman Steel Company. (See Weller, George L., assignor.)
- Kalman Steel Company. (See White, William E., assignor.)
- Kalsey, Alexander T., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blowing engine. 1,636,001; July 19.
- Kaltschmidt, William, Erie, Pa. Tape holder. 1,642,152; Sept. 13.
- Kaltwasser, Oskar, Berlin, and H. Kirchhoff, Dessau-in-Anhalt, assignors to G. Fährindustrie Adressgesellschaft, Frankfurt-on-the-Main, Germany. Dyeing furs, skins, hairs, feathers, or the like. 1,643,246; Sept. 20.
- Kalvig, Lewis J., Kanawha, Iowa. Poultry roost. 1,632,234; June 14.
- Kalving, John A., Jenkins, Minn. Road-map case. 1,615,708; Jan. 25.
- Kämmer & Reinhardt A.-G. (See Sörgel, Waldemar, assignor.)
- Kammerdiner, James A., Los Angeles, Calif. Rotary jar. 1,618,769; Feb. 22.
- Kammerdiner, James A., Los Angeles, Calif. Blow-out packer. 1,650,074; Nov. 22.
- Kammerer Corporation. (See Kammerer, George, assignor.)
- Kammerer Corporation. (See Reilly, J. B., and Stone, assignors.)
- Kammerer, George, Fullerton, assignor to Kammerer Corporation, Brea, Calif. Tool for cutting and removing pipe from wells. 1,625,414; Apr. 19.
- Kammerer, George, Whittier, and F. Hill, Los Angeles, Calif. Pumping apparatus. 1,622,384; Mar. 29.
- Kammerer, Hermann, Baden-Lichtental, Germany. Producing photographic papers for making prints from tracings. 1,618,931; Feb. 22.
- Kammermann, Georges, Paris, France. Treatment of oleaginous seeds or oleaginous vegetable substances for the purpose of extracting the oil contained therein. 1,616,319; Feb. 1.
- Kamp, John T., Manhattan, Mont. Extension guard for mowers. 1,642,246; Sept. 13.
- Kämpf, Adolf, Premnitz, Germany. Precipitating artificial threads, ribbons, films, and the like of viscose. 1,614,686; Jan. 11.
- Kämpf, Adolf, and E. Grünewälder, Premnitz, Westphalen, Germany. Loosening parallel fiber bunches by the wet process. 1,627,037; May 3.
- Kanawha Manufacturing Company. (See Schadel, William F., assignor.)
- Kandra, John, New York, N. Y. Planer. 1,620,895; Mar. 15.
- Kanders, Helen, New York, N. Y. Sound amplifier. 1,645,329; Oct. 11.
- Kandle, Furman M., Atlantic City, N. J. Floor and ceiling construction. 1,630,185; May 24.
- Kane, Edmund J., Chicago, Ill., assignor to Manitowoc Ship Building Corporation, Manitowoc, Wis. Steering mechanism for locomotive cranes. 1,649,598; Nov. 15.
- Kane, John J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric-power system. 1,643,213; Sept. 20.
- Kane, John P. (See Brown, J. B., and Kane.)
- Kane, Lyon J. (See Bosley, M. E., and Kane.)
- Kane, Matthew M., Rome, Ga. Explosive engine. 1,653,856; Dec. 27.
- Kane, Murray A., Johnstown, Pa. Flag holder for the motometers and similar devices of automobiles. 1,620,820; Mar. 15.
- Kane, Rudolph, Vindex, Md. Domestic boiler. 1,616,050; Feb. 1.
- Kankas, John J. (See Kindler, J. C., and Kankas.)
- Kanner, Samuel, New York, N. Y. Pen desk stand or similar article. Des. 72,558; May 3.
- Kansas City Gasoline Company, The. (See Lasher, Henry M., assignor.)
- Kansas City Gasoline Company, The. (See Wellman, Frank B., assignor.)
- Kant-Bäck Corporation. (See Gonard, John L., assignor.)
- Kantack, Walter W., St. Albans, Long Island, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Canopy for lighting fixtures. Des. 71,975; Feb. 8.
- Kantack, Walter W., St. Albans, Long Island, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Wall plate for lighting fixtures. Des. 71,978; Feb. 8.
- Kantack, Walter W., St. Albans, Long Island, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Pin for lighting fixtures. Des. 71,979; Feb. 8.
- Kantack, Walter W., St. Albans, Long Island, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Spindle for lighting fixtures. Des. 71,980; Feb. 8.
- Kantack, Walter W., St. Albans, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Banding for lighting fixtures. Des. 73,084; July 19.
- Kantack, Walter W., St. Albans, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Banding for lighting fixtures. Des. 73,085; July 19.
- Kantenwein, Oscar E. (See Burner, W. L., and Kantenwein.)
- Kantor, Harry B., et al. (See Stoll, H. C., and Schroder, assignors.)
- Kantor, Adam, Spokane, Wash. Gear, sectional replacement. 1,648,550; Nov. 8.
- Kanzel, Maxwell, New York, N. Y. Wallet. 1,635,940; July 12.
- Kapitowitz, Aaron, Stevensville, N. Y. Oil gauge for motors. 1,615,762; Jan. 25.

- Kaplan, Harry E., Chicago, Ill. Envelope. 1,635,278; July 12.
- Kaplan, Jacob, assignor to Record-O-Phone Company, Inc., Washington, D. C. Reel-stopping device for record-ophones. 1,642,681; Sept. 20.
- Kaplan, Jacob W., Boston, Mass. Apparatus for photographing checks. 1,614,619; Jan. 18.
- Kaplan, Louis M., Philadelphia, Pa. Thermostatic-control electrical heater plug. 1,641,002; Aug. 30.
- Kaplan, Morris L., Hazleton, Pa. Cutting board and guide. 1,619,940; Mar. 8.
- Kaplan, Morris L., Hazleton, Pa. Perforating wheel. 1,645,385; Oct. 11.
- Kaplan, Morris L., and M. Brandish, Hazleton, Pa. Collar-stretching machine. 1,619,939; Mar. 8.
- Kaplan, Samuel, Monroe, La. Automobile wheel. 1,636,325; July 12.
- Kappes, Carl H., New York, assignor to Eberhard Faber Pencil Co., Brooklyn, N. Y. Paper box. 1,631,595; June 7.
- Kapps, Robert E., assignor to W. & L. E. Gurley, Troy, N. Y. Tripod. 1,641,592; Sept. 6.
- Kapfeller, Alexander B., Chicago, Ill. Universal joint. 1,633,333; June 11.
- Kapuczinski, Dave, Los Angeles, Calif. Device for dispensing fluids. 1,618,436; Feb. 22.
- Karaban, Rubin. (See Goldman, M., and Karaban.)
- Karabin, Michael, J. Skoczkie, and K. F. Mandl, New Britain, Conn. Floor holder. 1,627,649; May 10.
- Karagozian, Mike, Los Angeles, Calif. Toothpick holder. Des. 72,017; Feb. 15.
- Karagunis, John, Newburyport, Mass. Indicating device. 1,622,913; Mar. 29.
- Kara-Joseph, Kallil, Philadelphia, Pa. Renovating clothing. 1,622,991; Apr. 5.
- Karapetoff, Vladimir, Ithaca, N. Y., assignor to General Electric Company. Regulating system for dynamo-electric machines. 1,646,821; Oct. 25.
- Karapetoff, Vladimir, Ithaca, N. Y., assignor to General Electric Company. Regulation of dynamo-electric machines. 1,646,822; Oct. 25.
- Karapetoff, Vladimir, Ithaca, N. Y., assignor to General Electric Company. Regulation of dynamo-electric machines. 1,646,823; Oct. 25.
- Karapetoff, Vladimir, Ithaca, N. Y., assignor to General Electric Company. Calculator. 1,648,735; Nov. 8.
- Karus, Joseph, Chicago, Ill. Transformer construction. 1,651,713; Dec. 6.
- Karas, Leland L., Chicago, Ill. Coil and support for same. 1,625,212; Apr. 19.
- Karasevich, John, Mount Carmel, Pa. Trouble lamp for motor vehicles. 1,645,953; Oct. 1.
- Kar-Ben-Cast Manufacturing Company. (See Graveman, William H., assignor.)
- Karcher, Lawrence C., and L. Asman, Evansville, Ind. Automobile heater. 1,632,974; June 21.
- Karch, Charlie, et al. (See Mayers, Stanley G., assignor.)
- Karel, Helen, et al. (See Mayers, Stanley G., assignor.)
- Karellus, Carl A., Pasadena, Calif. Corner-bead-positioning device. 1,651,712; Dec. 6.
- Karfol, Edward, Brooklyn, N. Y. Shelf paper. Des. 74,148; Dec. 27.
- Karg, Frank E., Cleveland, Ohio. Heating device. 1,644,595; Oct. 1.
- Karger, David, Milwaukee, Wis. Patent, 1,648,018; Nov. 8.
- Karger, David, Milwaukee, Wis. Cap. 1,653,181; Dec. 20.
- Karich, Rudolf R. (See Gluck, J., and Karich.)
- Karikas, Elizabeth, McKeesport, Pa. Life-saving device. 1,630,948; May 31.
- Karikas, Elizabeth, McKeesport, Pa. Life-saving device for children. 1,637,574; Aug. 2.
- Karlitzky, John, Garwood, assignor to H. B. Newhall, Plainfield, N. J. Cable clamp and bridge ring. 1,623,792; Apr. 5.
- Karjouch, John, South Boston, assignor to H. C. Perkins, Boston, Mass. Machine for bending metal. 1,617,913; Feb. 15.
- Karl, Heinrich, Jersey City, N. J. Treating traffic rails. 1,626,285; Apr. 26.
- Karl, Heinrich, Jersey City, N. J. Electric brake. 1,649,597; Nov. 15.
- Karle, John D., Roselle Park, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Medallion. 1,620,269; Mar. 8.
- Karlning, Carl A., Paso Robles, and F. E. Howell, Santa Maria, assignors to R. B. Lyon, Paso Robles, Calif. Graphic billing device. 1,648,275; Nov. 8.
- Karlsen, Eugene S., Chicago, Ill. Attachment for electric irons. 1,624,666; Apr. 12.
- Karlsson, Gustav V., Elizabeth, N. J. Light-operated controlling apparatus. 1,641,170; Sept. 6.
- Karlson, Julius H., Chicago, Ill. Electrically-heated cup and producing same. 1,649,067; Nov. 15.
- Karlsson, Oscar F., Sodertalje, Sweden. Water closet. 1,628,887; May 17.
- Karmazin, John, East Amherst, assignor to Laminated Shm Company, Inc., Long Island City, N. Y. Shim. 1,625,545; Apr. 19.
- Karner, Joseph W., Jr., New York, N. Y. Gas gun. 1,637,079; July 26.
- Karnes, Andrew L., Arkansas City, Kans. Ice holder. 1,651,457; Dec. 6.
- Karnes, James C., Buffalo, N. Y. Mechanism for setting fuses within guns. 1,631,211; June 7.
- Karnes, James C., Buffalo, N. Y. Fire-control system for guns. 1,635,365; July 12.
- Karnopp, Arno W. (See Perry, R. S., and Karnopp.)
- Karow, Emil, assignor of one-half to E. Garwick, Sables, N. Dak. Automobile lifting device. 1,623,013; Mar. 29.
- Karp, Jacob N. (See Smith, C. E., and Karp.)
- Karp, S., & Bros. (See Carter, Carrie B., assignor.)
- Karpen, S., & Bros. (See Edwards, Edward J., assignor.)
- Karpen, S., & Bros. (See Hultgren, Charles R., assignor.)
- Karpi, Lester J., Dayton, Ohio. Apparatus for treating the feet. 1,645,949; Nov. 15.
- Karpiusky, Stephen Severs, and J. S. Anderson, St. Ouen, France. Manufacture of butter. 1,644,254; Oct. 4.
- Karr, Andrew S., Avalon, Pa. Rail splice. 1,645,386; Oct. 11.
- Karr, Glen L. (See Butterfield, C. L., and Sawdon, assignors.)
- Karrer, Paul, Zurich, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Preparation of cotton fibers. 1,650,989; Nov. 29.
- Karret, Henry, Des Moines, Iowa. Cuff for knickers. 1,650,075; Nov. 22.
- Karst, Clarence E., assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Display and vending apparatus. 1,628,546; May 17.
- Karwarth, Alonzo H., Davenport, Iowa. Container for powdered substances. 1,633,105; June 21.
- Kasanof, Maurice M., New York, N. Y. Drier for tubular fabrics. 1,647,449; Nov. 8.
- Kasano, Maurice M., New York, N. Y. Fabric steaming and stretching means. 1,648,614; Nov. 8.
- Kasantzoff, Florentin, Berlin, Germany. One-lined air brake. 1,619,979; Mar. 8.
- Kasantzoff, Florentin, Berlin, Germany. Air brake for railways. 1,621,980; Mar. 22.
- Kasantzoff, Florentin, Berlin, Germany. Air brake of the one-lined type. 1,652,986; Dec. 13.
- Kasarnowsky, Leo. (See Osnos, M., and Kasarnowsky.)
- Kasch, Frederick C., Akron, Ohio. Roof construction. 1,633,641; June 28.
- Kasch, Henry J., Dayton, Ohio. Knob or similar article. Des. 73,182; Aug. 2.
- Krsh, Henry J., Dayton, Ohio. Knob or the like. Des. 73,183; Aug. 2.
- Kasch, Henry J., Dayton, assignor to The Kurtz-Kasch Company, South Broadway, near Dayton, Ohio. Verner dial. 1,646,233; July 19.
- Kasdan, Nathan, Bronx, N. Y. Vanity case. 1,631,136; June 7.
- Kasdan, Nathan, Bronx, and D. Pollack, Brooklyn, assignors to Majestic Machine & Tool Co., Inc., New York, N. Y. Vanity box. 1,651,132; Nov. 15.
- Kasdan, Nathan, New York, and D. Pollack, Brooklyn, assignors to Majestic Metal Specialties, Inc., New York, N. Y. Vanity case. 1,631,964; June 14.
- Kasdan, Nathan, New York, and D. Pollack, Brooklyn, N. Y. Article-containing case. 1,633,255; June 21.
- Kasdan, Nathan, New York, and D. Pollack, Brooklyn, assignors to Majestic Metal Specialties, Inc., New York, N. Y. Vanity case. 1,635,326; July 12.
- Kaseberg, Theodore C., Granite City, Ill., assignor to American Car and Foundry Company, New York, N. Y. Car-wheel-boring machine. 1,649,411; Nov. 15.
- Kaser, Walter I., assignor of one-third to T. G. Macpherson and one-third to W. E. Farver, Baltic, Ohio. Transmission. 1,652,943; Dec. 18.
- Kaser, William J., Chicago, Ill. Making pies. 1,624,490; Apr. 12.
- Kaser, William J., assignor to Colborne Manufacturing Company, Chicago, Ill. Apparatus for making pastry and the like. 1,653,402; Dec. 20.
- Kashivagi, Kosuke, Yamaguchi, Japan. Clinical thermometer and manufacture of same. 1,646,914; Oct. 25.
- Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Cutting elemental slots in cylindrical bodies. 1,614,558; Jan. 18.
- Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade fastener. 1,619,133; Mar. 1.
- Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,620,662; Mar. 15.
- Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,620,663; Mar. 15.
- Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Quill drive. 1,635,551; July 12.
- Kasley, Alexander T., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade lashing. 1,618,285; Feb. 22.
- Kismaler, Wilhelm, Esslingen-on-the-Neckar, Germany. Drill socket. 1,634,716; July 5.
- Kispac, Getreideschälmaschine G. m. b. H. (See Hoff, Ferdinand, assignor.)
- Kasper, Michael, Cleveland, Ohio. Soft-collar clasp. 1,621,730; Mar. 22.
- Kasper, Walter F., assignor to Fairmont Gas Engine & Ry. Motor Car Co., Fairmont, Minn. Wheel. Re16,520; Jan. 4.
- Kasper, Walter F., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Two-piece crank shaft. 1,613,835; Jan. 11.

- Kasper, Walter F., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Wheel. 1,615,709; Jan. 25.
- Kasperals, Joseph, et al. (See Soland, Emerson L., assignor.)
- Kass, Samuel M., Philadelphia, Pa. Immersible water heater. 1,640,943; Aug. 30.
- Kassebeer, William, Lihue, Hawaii. Contour cane-planting machine. 1,618,958; Feb. 22.
- Kassett, Morris, San Francisco, Calif. Treating eggs. 1,636,420; July 19.
- Kassler, Adolf, New York, N. Y. Collapsible-tube holder. 1,652,862; Dec. 13.
- Kassler, Adolph. (See Willoughby, V., and Kassler.)
- Kassler, Adolph, assignor to American Car and Foundry Company, New York, N. Y. Lock for car-door-operating mechanism. 1,631,321; June 7.
- Kassler, Frederick W., St. Louis, Mo. Coin-controlled lock. 1,633,411; June 21.
- Kassner, Georg, Munster, Germany. Manufacturing nitric acids and nitric-acid salts. 1,616,900; Feb. 8.
- Kas-So Kitch-E-Mon-E-Too So-Ne-Ah Limited. (See du Mazuel, Edmond G., assignor.)
- Kassy, Charles, West Newton, Pa. Chicken feeder. 1,623,840; Apr. 5.
- Kat, Edward R., Pearl River, assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y. Machine for assembling and stitching signatures. 1,644,192; Oct. 4.
- Kast, Harry L., Fort Wayne, Ind. Folding book. 1,625,662; Apr. 19.
- Kast, Miller L., Harrisburg, Pa. Wall light. 1,642,339; Sept. 13.
- Kast, Morgan D., Pendleton, Oreg. Weeder. 1,631,733; June 7.
- Kastler, Edward L., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Sliding-base engine. 1,629,918; May 24.
- Kastner, James J., Chicago, Ill. Culinary utensil. 1,617,120; Feb. 8.
- Katcher, Morris, New York, N. Y. Machine for armoring cables. 1,618,437; Feb. 22.
- Katze, Edgar J., New Rochelle, assignor to De La Vergne Machine Company, New York, N. Y. Engine-exhaust tester. 1,653,213; Dec. 20.
- Kathcart, Samuel M., assignor of one-half to J. M. Cooper, Potosi, Mo. Pipe wrench. 1,648,484; Nov. 8.
- Katims, Harry, and E. Weiner, New York, N. Y. Textile fabric. Des. 74,056; Dec. 13.
- Katona, Josef, et al. (See Balogh, Louis, assignor.)
- Kator, Jeremiah H., assignor of one-half to W. A. Kirk, Detroit, Mich. Rail joint. 1,647,293; Nov. 1.
- Katow, William L., Los Angeles, Calif. Window-cleaning device. 1,637,258; July 26.
- Katow, William L., Los Angeles, Calif. Vehicle toy. 1,653,291; Dec. 20.
- Katterjohn, August H., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock drill. 1,617,914; Feb. 15.
- Katterjohn, August H., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rotary engine for rock drills. 1,617,915; Feb. 15.
- Katterjohn, August H., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Fluid-operated motor. 1,629,035; May 17.
- Katterjohn, August H., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock drill. 1,637,000; Jul. 26.
- Katterjohn, August H., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Fluid-operated tool. 1,637,001; July 26.
- Katterjohn, August H., Denver, Colo. assignor to The Denver Rock Drill Mfg. Company. Turbine-reversing mechanism. 1,640,082; Aug. 23.
- Katterjohn, August H., assignor to The Denver Rock Drill Mfg. Co., Denver, Colo. Fluid-actuated tool. 1,643,560; Sept. 27.
- Katzenkel, Hans, Coswig, Germany. Manufacture of friction bodies for brakes and clutches. 1,614,200; Jan. 11.
- Katz, Aaron S., New York, N. Y. Console table. Des. 73,611; Oct. 11.
- Katz, Aaron S., New York, N. Y. Console table. Des. 73,612; Oct. 11.
- Katz, Aaron S., New York, N. Y. Table. Des. 73,613; Oct. 11.
- Katz, Aaron S., New York, N. Y. Flower stand. Des. 73,703; Oct. 25.
- Katz, Frank, Brooklyn, assignor to Anchor Manufacturing Company, New York, N. Y. Plate or similar article. Des. 72,480; Apr. 19.
- Katz, Frederick J., Shreveport, La. Differential lock for motor vehicles. 1,622,449; Mar. 29.
- Katz, Harry L., Baltimore, Md. Reinforced concrete construction. 1,632,443; Dec. 13.
- Katz, Jack, New York, N. Y. Clock case. Des. 72,712; May 24.
- Katz, Jack, New York, N. Y. Clock case. Des. 73,524; Sept. 27.
- Katz, Jack, New York, N. Y. Clock case. Des. 73,525; Sept. 27.
- Katz, Jack, New York, N. Y. Clock case. Des. 73,526; Sept. 27.
- Katz, Jack, New York, N. Y. Clock case. Des. 73,846; Nov. 15.
- Katz, Jacob, Chicago, Ill. Game. 1,650,840; Nov. 29.
- Katz, John A., York, Pa., assignor to S. F. Laucks, York, Pa. Key-identification device. 1,629,343; May 17.
- Katz, Max, Providence, R. I. Fountain pen. 1,621,166; Mar. 19.
- Katz, Morris, New York, N. Y. Apron. 1,628,670; May 17.
- Katz, Samuel, Greenville, S. C. Changeable sign or advertising device. 1,631,870; June 7.
- Katz, Sarah, Detroit, Mich. Attachment for telephones. 1,625,895; Apr. 26.
- Katzander, Morris, et al. (See Pecker, Joseph S., assignor.)
- Katzmeyer, John A., Ellwood City, Pa. Mechanism for the leading pipes, rods, etc. 1,613,395; Jan. 4.
- Katzenmoyer, Harry B., Rosedale, Pa., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Latch knitting needle. 1,629,454; May 17.
- Katzin, Nathan, Winston-Salem, N. C. Amusement device. 1,610,451; Feb. 8.
- Katzinger, Arthur, Chicago, Ill. Reinforced baking pan. 1,627,542; May 3.
- Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Making containers. 1,627,540; May 3.
- Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Covered pan. 1,627,541; May 3.
- Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Reinforced drawn baking pan. 1,627,650; May 10.
- Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Covered baking pan. 1,631,734; June 7.
- Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Reinforced baking pan. 1,634,248; June 28.
- Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Jelly mold or similar article. Des. 73,786; Nov. 8.
- Katzinger, Edward, Company. (See Jackson, Joseph G., assignor.)
- Katzinger, Edward, Company. (See Katzinger, Arthur, assignor.)
- Katzman, Jacob, Brooklyn, N. Y. Friction-clutch driving mechanism. 1,647,450; Nov. 1.
- Katzman, Max. (See Martin, Alphonse, assignor.)
- Katzman, Max, Ogdensburg, N. Y. Electric vaporizer. 1,628,784; May 17.
- Kauch, Robert. (See Paulus, C. L., and Kauch.)
- Kauch, Robert, Dayton, Ohio. Searchlight range finder. 1,627,097; May 3.
- Kauch, Robert, Dayton, Ohio. Pendulum-controlled sight. 1,631,635; June 7.
- Kauch, Robert, Dayton, Ohio. Ground-speed indicator. 1,635,045; July 5.
- Kauch, Robert, and L. Paulus, Dayton, Ohio. Ground speed indicator. 1,643,461; Sept. 27.
- Kauch, Robert, and C. L. Paulus, Dayton, Ohio. Pilot director for aircraft. 1,653,770; Dec. 27.
- Kaufeld, Elias, Pittsburgh, Pa. Automatic cut-off for gas burners. 1,628,049; May 10.
- Kaufeld, Elias, Pittsburgh, Pa. Safety stop for locomotives. 1,650,277; Nov. 22.
- Kaufman, Abram E., assignor to R. Thomas & Sons Company, East Liverpool, Ohio. Method and apparatus for finishing insulators. 1,641,815; Sept. 6.
- Kaufman, Harold L., and I. A. Clark, Denver, Colo., assignors to said Kaufman. Decolorizing, clarifying, and purifying petroleum oils. 1,636,938; July 26.
- Kaufman, Lou B., assignor to Nathan Strauss & Sons, Inc., New York, N. Y. Plate or similar article. Des. 73,086; July 19.
- Kaufman, Paul C., Seattle, Wash. Marine compass bracket. Des. 72,829; June 14.
- Kaufman, Charles, Cleveland, Ohio. Making studs. 1,617,121; Feb. 8.
- Kaufman, Charles, Cleveland, Ohio. Making screws and bolts. 1,617,122; Feb. 8.
- Kaufman, Irving, et al. (See Pfister, John R., assignor.)
- Kaufman, Joseph, assignor to American Safety Razor Corporation, New York, N. Y. Combined case and razor blades. Des. 72,897; June 21.
- Kaufman, Joseph, assignor to American Safety Razor Corporation, New York, N. Y. Container. 1,626,840; May 3.
- Kaufman, Joseph, assignor to American Safety Razor Corporation, New York, N. Y. Container. 1,631,965; June 14.
- Kaufman, Joseph, assignor to American Safety Razor Corporation, New York, N. Y. Container. 1,631,966; June 14.
- Kaufman, Joseph, Bronxville, assignor to American Safety Razor Corporation, New York, N. Y. Container. 1,631,967; June 14.
- Kaufman, Joseph, assignor to American Safety Razor Corporation, New York, N. Y. Combined case and razor holder. 1,632,840; June 21.
- Kaufman, Joseph, Bronxville, assignor to American Safety Razor Corporation, New York, N. Y. Container. 1,639,509; Aug. 16.
- Kaufman, Joseph, New York, N. Y. Foldable-gate lock. 1,651,394; Dec. 6.
- Kaufman, Martin, Trenton, N. J. Garment hanger. 1,641,680; Sept. 6.

- Kaufman, Solomon, New York, N. Y. Collar button. Des. 71,985; Feb. 8.
- Kaufman, Solomon, New York, N. Y. Collar button. 1,629,822; May 24.
- Kaufman, Solomon, New York, N. Y. Collar button. 1,629,823; May 24.
- Kaufman, Wolff, Paterson, N. J. Radio receiving circuit. 1,620,973; Aug. 15.
- Kaufmann, Albert J., Wellsboro, Pa., assignor to Pet Milk Company, St. Louis, Mo. Can-body assorter and piler. 1,615,763; Jan. 25.
- Kaufmann, Arno, Pforzheim, Germany. Necktie holder. 1,626,937; May 3.
- Kaufmann, Charles F. L. and W. L., Santa Ana, Calif. Carburetor. 1,624,603; Apr. 12.
- Kaufmann, Ethel A., et al. (See Kaufmann, Jacob L., assignor.)
- Kaufmann, Jacob, Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness. 1,637,380; Aug. 2.
- Kaufmann, Jacob L., assignor of one-third to A. E. Post, one-third to M. B. Curtis, and one-sixth to E. A. Kaufmann, Los Angeles, Calif. Hair-collecting attachment for clippers. 1,618, 713; Feb. 22.
- Kaufmann, Jerome J., New York, N. Y. Discharging transfer process for fabrics. 1,617,123; Feb. 8.
- Kaufmann, Michael M., J. P. Lynn, and F. C. Deli, assignors to Autopoint Company, Chicago, Ill. Grinding machine. 1,619,736; Mar. 1.
- Kaufmann, Walter L. (See Kaufmann, Charles F. L. and W. L.)
- Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Draft connection. 1,615,630; Jan. 25.
- Kautz, Charles W., jr., Lancaster, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-restoring relay. Re16,661; June 21.
- Kavtzky, Joe, jr., Fort Dodge, Iowa. Automatic single-trigger mechanism for double-barrel guns. 1,625,546; Apr. 19.
- Kautzsch, Alma, Philadelphia, Pa. Corset clasp. 1,631,535; June 7.
- Kautzsch, Kurt, Philadelphia, Pa. Rubber heel. 1,627,651; May 10.
- Kavanaugh, James T., Port Richmond, N. Y. Oil-storage tank. 1,618,984; Mar. 1.
- Kavle, Oscar C., Syracuse, assignor to W. M. Weeks and J. A. Pease, Skaneateles, N. Y. Expander for bottle closures. 1,638,444; Aug. 9.
- Kavle, Oscar C., Syracuse, assignor to Wallace M. Weeks and John A. Pease, Skaneateles, N. Y. Apparatus for sealing bottle closures. 1,638,445; Aug. 9.
- Kawarada, Masataro. (See Yamamoto, T., and Kawarada.)
- Kawner Company, The. (See Eaglesfield, Frederick R., assignor.)
- Kawner Company, The. (See Plvm, Francis J., assignor.)
- Kay, Edgar B., Washington, D. C. Incinerator. 1,626,000; Apr. 26.
- Kay, Lloyd D., Los Angeles, Calif. Dual-tired truck wheel. 1,640,338; Aug. 23.
- Kay, Lloyd D., Los Angeles, Calif. Dual-tired wheel. 1,640,339; Aug. 23.
- Kay Manufacturing Co. (See Krakauer, Phillip, assignor.)
- Kay, Oscar, assignor of one-twentieth to B. C. Ryan, one-twentieth to H. C. Phipps, and one-twentieth to E. R. Phipps, Los Angeles, Calif. Rotary blower. 1,650,873; Nov. 29.
- Kay, Pete. (See Gardner, Phoebe G., assignor.)
- Kay Sign Company. (See Walsh, Harrie H., assignor.)
- Kay, John A., Sault Ste. Marie, Ontario, Canada. Billiard compass. 1,625,770; Apr. 19.
- Kaye, Samuel, Columbus, Miss., assignor, by mesne assignments, to C. A. Frick, Muncie, Ind. Cooler for bottled goods. Des. 16,669; July 5.
- Kayler, Frank H., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Uncoupling device. 1,647,636; Nov. 1.
- Kayline Co., The. (See Maerz, Frederick K., assignor.)
- Kayline Company, The. (See Maerz, Frederick K., assignor.)
- Kaynor, Warren F., assignor to Waterbury Button Company, Waterbury, Conn. Detachable metal button. 1,626,582; Apr. 26.
- Kayser, Friedrich, and K. Schranz, Elberfeld, near Cologne-on-the-Rhine, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Pharmaceutical product. 1,651,458; Dec. 6.
- Keall, Frank B. (See Barclay, W. R., and Keall.)
- Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. 1,632,235; June 14.
- Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Perforating. 1,645,648; Oct. 18.
- Keen, Paul W., Corvallis, Oreg. Road grader. 1,617,256; Feb. 8.
- Keane, Francis B. (See Papst, Hermann, assignor.)
- Kearney, Edward J., Waumata, and J. Armitage, Milwaukee, assignors to Kearney-Trecker Corporation, West Allis, Wis. Machine-tool drive. 1,626,001; Apr. 26.
- Kearney, Graham, Lisbon, Ohio. Tee for golf balls. 1,623,119; Apr. 5.
- Kearney, James R., Kansas City, Mo. Ground anchor. 1,620,596; Mar. 15.
- Kearney, James R., Kansas City, Mo. Ground anchor. 1,624,871; Apr. 12.
- Kearney, Joseph J., Henryetta, Okla. Swivel-socket closure. 1,620,029; Mar. 8.
- Kearney-Trecker Corporation. (See Kearney, E. J., and Kearney, Joseph J., assignors.)
- Kearney & Trecker Corporation. (See Parsons, Fred A., assignor.)
- Kearns, John, assignor to The Lee Tire & Rubber Co., Conshohocken, Pa. Machine for treating rubber. 1,640,834; Aug. 30.
- Kearney, John J., Spokane, Wash. Weeding implement. 1,627,038; May 8.
- Keasley, William K., jr., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,653,102; Dec. 20.
- Keas, Charles E., assignor to Economy Products Corporation, Los Angeles, Calif. Corner bead. 1,652,674; Dec. 13.
- Keating, Daniel A., assignor to The American Tube and Stamping Co., Bridgeport, Conn. Variable-speed rolling mill. 1,639,851; Aug. 23.
- Keating, Henry J., Chicago, Ill. Card game. 1,614,132; Jan. 1.
- Keating, John D., et al. (See Keating, Robert M., assignor.)
- Keating, Katherine, et al. (See Keating, Robert M., assignor.)
- Keating, Robert M., deceased, by Keating Valve Company, Incorporated, assignee, assignor, by mesne assignments, to K. and J. D. Keating and B. E. Brutnell, Springfield, Mass., and M. K. Quirk, Middletown, Conn. Flushing valve. Re16,785; Nov. 15.
- Keating Valve Company, assignee. (See Keating, Robert M.)
- Keaton, Robert J., San Francisco, Calif. Combination advertising folder and gauge. 1,637,775; Aug. 2.
- Keaton, Theodore P., Pearson, Ga. Turpentine-gathering apparatus. 1,622,119; Mar. 22.
- Keay, Herbert O., assignor to Laurentide Company Limited, Grandmere, Quebec, Canada. Abrasive cement. 1,650,193; Nov. 29.
- Keays, Robert J., and E. I. Coffey, San Francisco, Calif. Filing device. 1,646,696; Oct. 25.
- Keck, Charles H., U. S. Army. Propellant powder. 1,649,784; Nov. 15.
- Keck, Charles H., New York, N. Y. Propellant powder. 1,651,459; Dec. 6.
- Keck, George S., Pasadena, Calif., assignor to The International Controlled Lamp Company, Wilmington, Del. Dirigible headlight. 1,634,580; July 5.
- Keck, George S., Pasadena, Calif., assignor to The International Controlled Lamp Company, Wilmington, Del. Dirigible headlight for automobiles and the like. 1,651,133; Nov. 29.
- Keck, George W., Independence, Kans. Self-service gasoline-pump attachment. 1,652,408; Dec. 13.
- Kee, Charles L., Portsmouth, Va. Advertising device. 1,645,195; Oct. 11.
- Kee Lox Mfg. Co. (See Poorman, George W., assignor.)
- Keefe, James E., Chicago, Ill. Dental handpiece sterilizer. 1,647,637; Nov. 1.
- Keeler, Walter L., assignor to H. G. Wolf, Chambersburg, Pa. Vacuum cleaner. 1,624,251; Apr. 12.
- Keeler, Walter L., assignor to The Wolf Co., Chambersburg, Pa. Vacuum door scrubbing and washing machine. 1,647,005; Oct. 25.
- Keefover, Daisy, et al. (See Fritts, George E., assignor.)
- Keefover, F. A., et al. (See Fritts, George E., assignor.)
- Keegan, Francis W. (See Pokorny, Frank, assignor.)
- Keegan, Patrick, Fall River, assignor to Draper Corporation, Hopedale, Mass. Weft end clearer for weft replenishing looms. 1,644,648; Oct. 4.
- Keel, Charles H. (See Greathouse, Lucien H., assignor.)
- Keelan, Bernard J., Los Angeles, Calif. Wheel. 1,620,897; May 17.
- Keeler, Albert E., Jasper Park, Alberta, Canada. Child's toy. 1,622,198; Mar. 22.
- Keeler Brass Co. (See Burton, Edward, assignor.)
- Keeler Brass Company. (See Graf, Raymond I., assignor.)
- Keeler, Harry E., jr., Longmont, Colo. Berry box. 1,636,308; July 19.
- Keeler, Lewis J., assignor of one-half to Le Rue P. Bengs, Cleveland, and one-half to G. P. Koelliker, Cleveland Heights, Ohio. Electrolytic rectifier. 1,628,785; May 17.
- Keeler, Raymond W., assignor to The Gallion Iron Works & Mfg. Co., Gallion, Ohio. Transmission control. 1,629,668; May 24.
- Keeler, Raymond W., assignor to The Gallion Iron Works & Mfg. Co., Gallion, Ohio. Roller tractor. 1,631,271; June 7.
- Keeler, Everett R. (See Jandus, H. S., and Keeler.)
- Keen Waving Company. (See Carrough, Howard W., assignor.)
- Keen Waving Company. (See Metz, John, assignor.)
- Keen, William C. (See Bayes, R. E., and Keen.)
- Keen, William H., Albany, N. Y. Alloy steel. 1,621,886; Mar. 22.
- Keena, George F., Detroit, Mich. Valve cap. 1,627,908; May 10.

- Keenan, Charles G., Ojai, Calif. Illuminated sign. 1,626,286; Apr. 26.
- Keenan, Charles L., Piedmont, E. P. Kennedy, San Francisco, and G. H. Kirsch, Larkspur, Calif., assignors to Alaska Pulp and Paper Company. Pulp-forming machine. 1,621,671; Mar. 22.
- Keenan, Edward T., Brewster, Fla. Vibration machine and screen. 1,620,213; Mar. 8.
- Keenan, James W., Farmington, Mich. Combined muffler and heater. 1,641,086; Aug. 30.
- Keenan, Walter P., jr. (See Wyld, R. H., and Keenan.)
- Keenan, Walter P., jr., Pelham, assignor to Power Specialty Company, New York, N. Y. Superheater boiler. 1,630,087; Mar. 24.
- Keenan, William J., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,641,764; Sept. 6.
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-treating furnace. 1,617,396; Feb. 15.
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,622,650; Mar. 29.
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,622,651; Mar. 29.
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,624,344; Apr. 12.
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heating-unit terminal. 1,624,345; Apr. 12.
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,638,857; Aug. 16.
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,643,774; Sept. 27.
- Keene, Alvin D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Hearth-tray vibrator. 1,632,532; Dec. 13.
- Keene, Alvin D., West Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,638,937; Aug. 16.
- Keene, Alvin D., Pittsburgh, and K. Ehrigott, East Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electric heating unit. 1,654,392; Dec. 27.
- Keene, James A. (See May, William F., assignor.)
- Keene, James P., Youngstown, Ohio. Tank-head construction. 1,651,004; Dec. 6.
- Keene, Walter E., Baltimore, Md. Match-box support. 1,649,167; Nov. 15.
- Keener, Charles M., assignor to W. H. Zachry, Atlanta, Ga. Detachable fastening for handles. 1,645,490; Oct. 11.
- Keener, William M., et al. (See Moore, S., and Sheets, assignors.)
- Keesey, Charles H., Avon, Conn. Exhaust fan. 1,627,608; May 10.
- Keeney, Gordon H., Sacramento, Calif. Card holder. 1,637,344; Aug. 2.
- Keeran, Charles R., assignor, by mesne assignments, to Autopoint Company, Chicago, Ill. Clip for pencils and the like. 1,625,809; Apr. 26.
- Keese, Matthew B. (See Ferris, W., and Keese.)
- Keese, Richard A. (See Baldwin, J. P., and Keese.)
- Keese, Richard A., Los Angeles, Calif. Motor cultivator. 1,612,823; Jan. 4.
- Keesee, John H., Griswold, Iowa. Combined end gate and platform. 1,635,422; July 12.
- Keezer, Lillian M., and F. A. Osgood, Boston, Mass.; said Osgood assignor to said Keezer. Knife sharpener. 1,622,197; Mar. 22.
- Kepl, Zoltan J., York, Pa. Garter shield. 1,642,030; Sept. 13.
- Kepler, Anton W., Minneapolis, Minn. Sprayer. 1,639,297; Aug. 16.
- Kegresse, Adolphe, Paris, France. Removable creeper for tractor belts. 1,621,371; Mar. 15.
- Kegresse, Adolphe, Paris, France. Endless supporting and driving flexible belt for motor and other vehicles. 1,627,287; May 3.
- Ke Hlaw Ke Manufacturing Company. (See Hawkinson, Paul E., assignor.)
- Kehl, Robert J., Newark, N. J., assignor to Oxweld Acetylene Company. Pressure-regulator casing. Des. 72,530; Jan. 14.
- Kehee, Arthur H., Rutherford, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electrical distribution system. 1,642,031; Sept. 13.
- Kehoe, Michael J. (See Kehoe, Thomas J. and M. J.)
- Kelch, Michael J., London, Ohio, assignor, by mesne assignments, to Cascade Manufacturing Company. Dishwashing machine. 1,632,007; June 14.
- Kehoe, Thomas J., Toledo, and M. J. Kehoe, London, Ohio, assignors, by mesne assignments, to Cascade Manufacturing Company. Dishwashing machine. Des. 73,230; Aug. 9.
- Kehoe, William B., San Francisco, Calif. Display stand. Des. 73,230; Aug. 9.
- Kehrer, John A., Rockport, Ind. Automobile bumper. 1,637,152; July 26.
- Kelchline, Anna W., Bellefonte, Pa. Portable partition. 1,647,733; Nov. 1.
- Kelchline, Anna W., Bellefonte, Pa. Building block. 1,653,774; Dec. 27.
- Keiding, Einar, Birkerød, and J. Keiding, Charlottelund, Denmark. Production of complex aurothiosulphate compounds. 1,640,775; Aug. 30.
- Keiding, Johannes. (See Keiding, Einar and J.)
- Keilding, Harry E., Perrysburg, Ohio. Tilting washer. 1,629,274; May 17.
- Kelkholtz, Lester S., and E. Dickey, assignors to Delco-Light Company, Dayton, Ohio. Switchboard construction. 1,613,708; Jan. 11.
- Keim, Harvey A., Naponee, Nebr. Foldable, portable nursery chair. 1,639,295; Aug. 16.
- Keim, Master H., Pasadena, and R. E. Kline, Alhambra, assignors to Oil Well Supply Company, Los Angeles, Calif. Rotary draw works. 1,628,847; May 17.
- Kelnath, Georg, Berlin-Charlottenburg, assignor to Siemens and Halske Aktiengesellschaft, Berlin, Germany. Optical pyrometer. 1,644,340; Oct. 4.
- Keiper, Frank. (See Ischinger, Eric, assignor.)
- Keiper, Frank. (See Streiff, Rudolph A., assignor.)
- Keisling, Ira F., Kokomo, Ind. Door operator. 1,632,028; June 14.
- Keister, James, Steubenville, Ohio. Internal-combustion engine. 1,616,320; Feb. 1.
- Keistler, Charles F. (See Kelly, William H., assignor.)
- Keith, Charles W., Denver, Colo. Ensilage cutter. 1,621,510; Mar. 22.
- Keith, Floyd. (See Miller, G. F., and Keith.)
- Keith, George, assignor to James Keith & Blackman Company Limited, London, England. Delivering a mixture of gas and air or oxygen for combustion. Re16,796; Nov. 22.
- Keith, George, assignor to James Keith & Blackman Company Limited, London, England. Injector for gas engine. 1,692,533; Dec. 13.
- Keith, Harold L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,642,032; Sept. 13.
- Keith, Henry M., West Frankfort, Ill. Brushing machine. 1,632,705; June 14.
- Keith, William L. (See Sawyer, Albert F., assignor.)
- Keith, James, & Blackman Company. (See Keith, George, assignor.)
- Keith, James, & Blackman Company Limited. (See Keith, George, assignor.)
- Keith, Nathaniel S., deceased, Philadelphia, Pa.; C. L. Roth, administrator. Amalgamator. 1,627,181; May 3.
- Keith, William G., Chicago, Ill., assignor to Welsbach Traffic Signal Company, Philadelphia, Pa. Signal device. Des. 71,801; Jan. 4.
- Keizer, Aaron, assignor to T. Keizer, New York, N. Y. Fraud-proof bottle. 1,645,954; Oct. 18.
- Keizer, Tillie. (See Keizer, Aaron, assignor.)
- Kekenes, Peter E. (See Comati, C. N., Kekenes, and Peters.)
- Kelch, James W., and J. J. Sunday, Detroit, Mich., assignors to Kelch Ventilating Heater Company. Heater for automobiles. 1,628,671; May 17.
- Kelch, James W., and J. J. Sunday, Detroit, Mich., assignors by direct and mesne assignments to Kelch Ventilating Heater Company. Heater for automobiles. 1,651,029; Nov. 29.
- Kelch Ventilating Heater Company. (See Kelch, J. W., and Sunday, assignors.)
- Kelch Ventilating Heater Company. (See Sunday, James J., assignor.)
- Keichner, Sara A., New York, N. Y. Doll. Des. 73,659; Oct. 18.
- Kell, James R., et al. (See Cunningham, Roy S., assignor.)
- Kellahey, Timothy, Cleveland, Ohio. Pipe-threading die-stock. 1,645,535; Oct. 2.
- Kellander, Harold S., and J. T. Isaacson, Minneapolis, Minn. Hollow frame bar for doors, windows, and the like. 1,644,531; Oct. 4.
- Kelleher, Daniel Berea, assignor to The Foote-Burt Company, Cleveland, Ohio. Conduit-treading machine. Des. 72,285; Oct. 11.
- Kelleher, James, Chippawa, Ontario, Canada, assignor to Harper Electric Furnace Corporation. Electric furnace. 1,637,486; Aug. 2.
- Kelleher, James, Chippawa, Ontario, Canada, assignor to Harper Electric Furnace Corporation. Tunnel kiln. 1,643,775; Sept. 27.
- Kelleher, James, Chippawa, Ontario, Canada, assignor to Harper Electric Furnace Corporation. Electric tunnel kiln. 1,647,524; Nov. 1.
- Kelleher, Thomas J., Chicago, Ill. Eye and face shield for grinding wheels. 1,634,412; June 21.
- Kelleher, Thomas J., Chicago, Ill. Electric sheet-metal cutter. 1,651,823; Dec. 6.
- Kelleher, Thomas J., and H. Krump, Chicago, Ill. Compound wheel. 1,641,440; Sept. 6.
- Keller, Alfred R., assignor to Morgan Construction Company, Worcester, Mass. Coupling device. 1,637,944; Aug. 2.
- Keller, Andrew P., Tiffin, Ohio. Spray disk and method and apparatus for making the same. 1,633,531; June 21.
- Keller, Arnold B., et al., trustees. (See Graham, William S., assignor.)
- Keller, Charles B., assignor to H. C. La Rue, Jenkintown, Pa. Grinding mechanism. 1,635,702; July 12.

- Keller, Cornelius H., San Francisco, Calif., assignor to Minerals Separation, North American Corporation, New York, N. Y. Concentration of ores. 1,628,151; May 10.
- Keller, Ernest U., Pawhuska, Okla. Drill bit. 1,625,030; Apr. 19.
- Keller, Eva, Pasadena, Calif. Voice placer. 1,621,207; Mar. 15.
- Keller, Eva, Pasadena, Calif. Piano practice exerciser. 1,638,858; Aug. 16.
- Keller, Frederick A., New York, N. Y., assignor to Bright Star Battery Company. Battery cell. 1,640,039; Aug. 23.
- Keller, Harry C., Hummelstown, Pa. Belt replacer. 1,651,063; Nov. 29.
- Keller, Julius, sr., Chicago, Ill. Brush gear for vacuum cleaners. 1,613,396; Jan. 4.
- Keller, Karl. (See Kahns, W. R., and Keller.)
- Keller, Keith K., Minneapolis, Minn. Marking capsules. 1,636,823; July 29.
- Keller Knitting Company, The. (See Keller, William A., assignor.)
- Keller, Leo. (See Craft, E. B., and Keller.)
- Keller Mechanical Engineering Corporation. (See Shaw, John C., assignor.)
- Keller Mechanical Engineering Corporation. (See Shaw, John C. and R. D., assignors.)
- Keller, Paul E. (See Dunn, C. L., and Keller.)
- Keller, Robert, Emmetbaden, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Protective device for use in polyphase-current installations. 1,638,533; Aug. 9.
- Keller, Walter D. (See Yanney, G. W., and Keller.)
- Keller, Wilhelm, Ronsdorf, Germany. Loom for weaving wire fabric. 1,647,113; Oct. 25.
- Keller, Will E., Los Angeles, Calif. Concrete-mold form. 1,630,794; May 31.
- Keller, Will E., Los Angeles, Calif. Mold form for building structures. 1,630,795; May 31.
- Keller, Will E., Los Angeles, Calif. Mold form. 1,630,796; May 31.
- Keller, Will E., Los Angeles, Calif. Concrete wall construction. 1,638,583; Aug. 9.
- Keller, William A., assignor to The Keller Knitting Company, Cleveland, Ohio. Knitted blouse. Des. 71,947; Feb. 1.
- Keller, William H., Inc. (See Shaff, Ernest H., assignor.)
- Kert, Charles L., Baltimore, Md. Light color screen. 1,643,234; Nov. 8.
- Kelley, Anna L., Fyriton, Ala. Basket. Des. 73,260; Aug. 16.
- Kelley Color Laboratory, Inc. (See Kelley, W. V. D., and Tronolone, assignors.)
- Kelley, Earl H., E. F. Greave, and F. E. Hoskin, Portland, Oreg. Carburetor. 1,623,347; Apr. 5.
- Kelley, Floyd C., Schenectady, N. Y., assignor to General Electric Company. Electric terminal. 1,633,815; June 28.
- Kelley, Frank R., Pittsburgh, Pa. Ventilator. 1,639,187; Aug. 16.
- Kelley, George C., Taft, Calif. Apparatus for treating oil. Re1.6.778; Oct. 25.
- Kelley, George L., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Preventing the development of stretcher strains in metal sheets. 1,649,705; Nov. 15.
- Kelley, George L., and C. L. Eksergian, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Roller-leveler mechanism. 1,649,706; Nov. 15.
- Kelley, George L., and J. Winlock, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Metal-working machine. 1,649,704; Nov. 15.
- Kelley, Herbert W., Winchester, and W. D. Wolfe, Newton, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Treating rubber latex and product obtained thereby. 1,644,730; Oct. 27.
- Kelley, James M., and J. A. Hueber, Philadelphia, Pa. Color-changing attachment for motion-picture projectors. 1,626,841; May 3.
- Kelley, John R., Covington, Ky. Control switch. 1,615,517; Jan. 4.
- Kelley, John R., Covington, Ky. Radiographic apparatus. 1,622,320; Mar. 29.
- Kelley, John R., Covington, Ky. Radiographic apparatus. 1,622,321; Mar. 29.
- Kelley, John R., Covington, Ky. Radiographic apparatus. 1,643,392; Sept. 27.
- Kelley, Milton W., Austin, Tex. Knee pad. 1,637,116; July 26.
- Kelley, Otto. (See Goude, C. T., and Kelley.)
- Kelley, Victor H., Madison, Wis. Vending machine. 1,644,134; Oct. 4.
- Kelley, Victor H., assignor to Madison Tool and Stamping Works, Madison, Wis. Gauge for mortising machines. 1,623,621; Apr. 5.
- Kelley, William J., assignor to American Optical Company, Southbridge, Mass. Frame stretcher. 1,636,473; July 19.
- Kelley, William V. (See Stevens, Burt D., assignor.)
- Kelley, William V. D., Los Angeles, Calif., assignor, by mesne assignments, to Prizma, Incorporated. Photographic image and making same. 1,628,248; May 10.
- Kelley, William V. D., Jersey City, and D. Tronolone, Fort Lee, assignors to Kelley Color Laboratory, Inc., Passaic, N. J. Photography. 1,615,283; Jan. 25.
- Kellner, Alexis. (See Hannebohn, Curt W. A., assignor.)
- Kellner, Gustav A. H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projecting system for cinematographs. 1,621,741; Mar. 22.
- Kellner, Louis, assignor to Chicago Fuse Mfg. Co., Chicago, Ill. Switch. 1,645,145; Oct. 11.
- Kellner, Walter H. (See Miller, A. B., and Kellner.)
- Kellogg, Alfred B., El Centro, Calif. Connector for lubricating apparatus. 1,638,488; Aug. 9.
- Kellogg, Carl A., Brooklyn, N. Y. Printing machine. 1,627,182; May 3.
- Kellogg, Carlton C., Moline, Ill. Grain shocker. 1,638,612; May 3.
- Kellogg, Carlton C. and E. M., jr., Moline, Ill. Grain shocker. 1,652,280; Dec. 13.
- Kellogg, Charles, Morgan Hill, Calif. Fruit and nut picker. 1,650,796; Nov. 29.
- Kellogg, Daniel F., Los Angeles, Calif. Bolt or rod straightening machine. 1,620,260; Mar. 8.
- Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Vibration damper. 1,614,133; Jan. 11.
- Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Radio receiving system. 1,637,945; July 26.
- Kellogg, Edwin M., jr. (See Kellogg, Carlton C. and E. M., jr.)
- Kellogg, Frank W., Reedsport, Oreg. Hairbrush. 1,633,894; June 28.
- Kellogg, Langdon C., Westfield, Mass. Mop. 1,634,260; July 26.
- Kellogg, Leroy D., Deerfield, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Receiving circuit. 1,626,239; Apr. 26.
- Kellogg, M. W., Company, The. (See Cooke, Maurice B., assignor.)
- Kellogg Manufacturing Co. (See Hazard, George E., assignor.)
- Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
- Kellogg Switchboard and Supply Company. (See Currier, Frank D., assignor.)
- Kellogg Switchboard & Supply Co. (See Dunbar, Francis W., assignor.)
- Kellogg Switchboard and Supply Company. (See Eaton, G. R., and Stazak, assignors.)
- Kellogg Switchboard and Supply Company. (See Groat, Martin B., assignor.)
- Kellogg Switchboard and Supply Company. (See Ide, Harry H., assignor.)
- Kellogg Switchboard and Supply Company. (See Kaisling, Frank W., assignor.)
- Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
- Kellogg Switchboard and Supply Company. (See Kellogg, Leroy D., assignor.)
- Kellogg Switchboard and Supply Company. (See Lincoln, Elmer W., assignor.)
- Kellogg Switchboard and Supply Company. (See Nielsen, Emil J., assignor.)
- Kellogg Switchboard and Supply Company. (See Potter, Earl E., assignor.)
- Kellogg Switchboard and Supply Company. (See Robison, Daniel B., assignor.)
- Kellogg Switchboard and Supply Company. (See Sauer, Louis B., assignor.)
- Kellogg Switchboard and Supply Company. (See Shull, William G., assignor.)
- Kellogg Switchboard and Supply Company. (See Stazak, Michael B., assignor.)
- Kellogg Switchboard and Supply Company. (See Wallace, Bert A., assignor.)
- Kellogg Switchboard and Supply Company. (See Yachowsky, George A., assignor.)
- Kelsum, Charles S., assignor to Commonwealth Brass Corporation, Detroit, Mich. Valve. 1,650,797; Nov. 29.
- Kelly, Alan S. (See Jones, Arthur C., assignor.)
- Kelly, Alberia R., Aspen, Colo. Ventilator for beehives. 1,654,464; Dec. 27.
- Kelly, Andrew J., Baltimore, Md. Convertible wagon and bed. 1,654,465; Dec. 27.
- Kelly, Anna J., New York, N. Y. Catamenial bandage. 1,653,587; Dec. 27.
- Kelly, Bert F., assignor to Parts Corporation, Indianapolis, Ind. Rear-view-mirror support. 1,626,938; May 3.
- Kelly, Bert F., R. F. Miller, and L. G. Winkler, assignors to Parts Corporation, Indianapolis, Ind. Universal mounting. 1,618,985; Mar. 1.
- Kelly, Charles B., Seattle, Wash. Paint improving composition and size. 1,633,106; June 21.
- Kelly, Charles H., Dallas, Tex., assignor to Yates-American Company, Beloit, Wis. Planer cutter gauge and scale layout. 1,653,048; Dec. 20.
- Kelly, Edward J., Chester, Pa. Tangle arrester for coning machines. 1,629,507; May 24.
- Kelly, Elbert, Anniston, Ala. Lap link. 1,619,519; Mar. 1.
- Kelly, Frank V., administrator. (See Anderson, E. D., and Beckmann.)
- Kelly, George M., Chicago, Ill., assignor, by mesne assignments, of sixty per cent to P. J. Kelly, and thirty per cent to J. F. Kelly, Muskegon, Mich., and ten per cent to H. T. Potter, Chicago, Ill. Self-cleaning valve. 1,647,734; Nov. 1.

- Kelly, Hanson C., West Burlington, Iowa. Combination knife for peeling oranges. 1,630,186; May 24.
- Kelly, Harry D. (See Steel, B. P., and Kelly.)
- Kelly, Harry D., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Lamp-making machine. 1,626,679; May 3.
- Kelly, Harry G., Omaha, Nebr. Roofing strip. 1,634,465; July 5.
- Kelly, J. A., et al. (See McKenney, F. Y., and Cheney, assignors.)
- Kelly, J. F., et al. (See McKenney, F. Y., and Cheney, assignors.)
- Kelly, James E., assignor of one-half to J. S. Harper, Asco, Va. Railway tie. 1,618,932; Feb. 22.
- Kelly, John A., Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seal fitting machine. 1,642,033; Sept. 18.
- Kelly, John A. and J. F., Brooklyn, N. Y. Applying heels to shoes. 1,647,925; Nov. 1.
- Kelly, John C., assignor of one-half to G. E. Lund, Huntington, Ind. Machine for reclaiming piston packing. 1,646,915; Oct. 25.
- Kelly, John D., New York, N. Y. Order-signal device. 1,617,850; Feb. 15.
- Kelly, John F., et al. (See Kelly, George M., assignor.)
- Kelly, John F. (See Kelly, John A. and J. F.)
- Kelly, John F., Chicago, Ill., assignor, by mesne assignments, to Kelly Valve Company, Muskegon, Mich. Self-grinding valve. 1,640,040; Aug. 23.
- Kelly, John F., assignor of one-half to W. J. Kelly, Elkins, W. Va. Welding-rod holder. 1,652,944; Dec. 13.
- Kelly, John, et al. (See Palmer, Harry A., assignor.)
- Kelly, Leo I., Detroit, Mich. Generating plant. 1,639,737; Aug. 23.
- Kelly, Orson N., Los Angeles, Calif. Vending machine. 1,629,824; May 24.
- Kelly, Orson N., Los Angeles, Calif. Vending machine. 1,630,949; May 31.
- Kelly, Orson N., Los Angeles, Calif. Vending machine. 1,648,734; Nov. 8.
- Kelly, Orson N., Los Angeles, Calif. Vending machine. 1,648,813; Nov. 8.
- Kelly, Orson N., Los Angeles, Calif., assignor to Frank J. Weeks, Mfg. Co., New York, N. Y. Automatically-closing inkwell. 1,628,786; May 17.
- Kelly, Patrick J., et al. (See Kelly, George M., assignor.)
- Kelly Reamer Company, The. (See Marty, John M., jr., assignor.)
- Kelly, Richard L. (See Vandenberghe, Charles, assignor.)
- Kelly, Sherman L., Toledo, Ohio. Electric heat element. 1,649,033; Nov. 15.
- Kelly, Sherman L. and L. E. Koos, Toledo, Ohio. Engine starter. 1,633,862; June 28.
- Kelly, Sherman L. and L. E. Koos, Toledo, Ohio. Engine drive. 1,633,864; June 28.
- Kelly-Springfield Tire Company. (See Hulse, Edison G., assignor.)
- Kelly-Springfield Tire Company. (See McClenathen, Robert, assignor.)
- Kelly-Springfield Tire Company. (See Sutherland, Frederick P., assignor.)
- Kelly, Thomas, Butte, Mont. Legging. 1,633,206; Aug. 9.
- Kelly, Thomas B., Iowa City, Iowa. Farm implement. 1,653,292; Dec. 20.
- Kelly, Thomas H., New Castle, Pa. Oil burner. 1,639,377; Aug. 16.
- Kelly Valve Company. (See Kelly, John F., assignor.)
- Kelly, Walter E., Highland Park, and C. Z. Hubbell, Royal Oak, Mich. Luggage carrier. 1,650,451; Nov. 22.
- Kelly, William A., assignor of one-half to F. J. Timmerman, Green Bay, Wis. Pulp-web cutter. 1,625,472; Apr. 19.
- Kelly, William H., assignor of one-third to C. F. Keistler, Charlotte, N. C. Humidifier. 1,625,603; Apr. 19.
- Kelly, William J. (See Kelly, John F., assignor.)
- Kelly, William J., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Manufacturing mercaptanole. 1,631,871; June 7.
- Kelly, William M., Westfield, N. J. Front guide. 1,616,174; Jan. 18.
- Kelly, William M., Westfield, N. J. Sheet-feeding mechanism. 1,621,788; Mar. 22.
- Kelly, William M., Westfield, N. J. Automatic pile-elevating mechanism for sheet feeders. 1,629,874; May 24.
- Kelly, William M., Westfield, N. J. Extension sheet delivery. 1,645,993; Oct. 18.
- Kelly, William M., Jersey City, N. J. Printing press. 1,631,774; Dec. 6.
- Kelly, William M., Westfield, N. J. Machine element. 1,654,127; Dec. 27.
- Kelly, William M., Westfield, N. J. Printing press. 1,654,128; Dec. 27.
- Kelkoudas, Ernest. (See Russell, Philip J., assignor.)
- Kelso, Otto, Malcolm, Iowa. Damper. 1,648,182; Nov. 8.
- Kelner, George, Cleveland, Ohio. Spring lubricator. 1,635,327; July 12.
- Kel-Plastic Corporation. (See Meehan, G. F., and Kennedy, assignors.)
- Kellogg, Le Roy W., assignor to Western Electric Company, Incorporated, New York, N. Y. Cartridge fuse. 1,638,534; Aug. 9.
- Kelsen, Clarence H., Belmont, assignor to Peter Gray & Sons Inc., Cambridge, Mass. Illuminating apparatus. 1,614,068; Jan. 11.
- Kelsey, Cadwallader W., Short Hills, N. J. Steering gear. 1,619,980; Mar. 8.
- Kelsey, Charles A., Schenectady, N. Y., assignor to General Electric Company. Control systems for electric motors. 1,628,409; May 10.
- Kelsey-Hayes Wheel Corporation. (See Jacobi, E. R., and Le Jeune, assignors.)
- Kelsey, Walter H., Kansas City, Mo. Mattress and making the same. 1,616,633; May 24.
- Kelsor, Wheel Company. (See Batie, Joseph E., assignor.)
- Kelso, Alex M., Murphysboro, Ill. Light accelerator or switch. 1,636,567; July 19.
- Kelso, Nyla G., assignor of one-half to J. A. Semke, Oklahoma City, Okla. Sash-operating device and lock. 1,622,949; Mar. 29.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling device. 1,645,756; Oct. 18.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling device. 1,645,757; Oct. 18.
- Keltie, George R., Woonsocket, R. I., assignor to American Wringer Company, Inc. Wringer roll. 1,630,086; May 24.
- Keltner, Moody C. (See Allensworth, J. N., Keltner, and Collins.)
- Kelty, Charles C., Poast Town, assignor of one-fourth to M. W. Renick, Middletown, Ohio. Rail clamp. 1,622,152; Mar. 22.
- Kelvie, James D., jr., Massillon, Ohio. Blowtorch and pot. 1,629,628; May 24.
- Kelvin Engineering Co. (See Merlis, Ira, assignor.)
- Kelvin Engineering Co. Inc. (See Merlis, Ira, assignor.)
- Kelvin & Wilford O. White Company. (See White, W. O., and Hatch, assignors.)
- Kelvinator Corporation. (See Mercer, William D., assignor.)
- Kelvinator Corporation. (See Taylor, Huston, assignor.)
- Kemble, Thomas S., Lakewood, Ohio. Muffler construction. 1,638,309; Aug. 9.
- Kembs, Thomas S., Cleveland, Ohio. Adjusting tool. 1,651,246; Dec. 13.
- Kemnal, James, London, England, assignor, by mesne assignments, to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler installation. 1,645,955; Oct. 18.
- Kemmer, Edwin W. and W. G. Price, assignors to Dean-Griffin & Steel Wheel Company, Inc., Seattle, Wash. Vehicle wheel. 1,650,452; Nov. 22.
- Kemp, Archie R., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating material. 1,628,986; May 17.
- Kemp, Archie R., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plastic material. 1,638,535; Aug. 9.
- Kemp, Archie R., Jamaica, assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine-cable insulation. 1,645,753; Oct. 18.
- Kemp & Beatty, Inc. (See Kemp, Demetrius, assignor.)
- Kemp & Beatty, Inc. (See Kemp, Demetrius A., assignor.)
- Kemp, C. M., Manufacturing Company, The. (See Kemp, William W., assignor.)
- Kemp, Charles T., and N. E. Ryckman, assignors to The Cofield Washer Company of Canada Limited, Hamilton, Ontario, Canada. Washing machine. 1,629,391; May 17.
- Kemp, Demetrius, assignor to Kemp & Beatty, Inc., New York, N. Y. Bedsread. Des. 72,265; Mar. 22.
- Kemp, Demetrius, assignor to Kemp & Beatty, Inc., New York, N. Y. Bedsread. Des. 72,429; Apr. 12.
- Kemp, Demetrius A., assignor to Kemp & Beatty, Inc., New York, N. Y. Tabcloth. Des. 71,338; Jan. 11.
- Kemp, Ervin A., et al. (See White, Philip A., assignor.)
- Kemp, George T. (See Graue, Frederick, assignor.)
- Kemp, John B., Ridgewood, N. J., assignor to Clark Loose Leaf Manufacturing Company. Pad holder. 1,616,618; May 10.
- Kemp, Paul, and T. Kittl, Vienna, Austria. Bearing metal. 1,632,604; June 14.
- Kemp, William W., Baltimore, Md. Gas burner. 1,642,154; Sept. 13.
- Kemp, William W., assignor to The C. M. Kemp Manufacturing Company, Baltimore, Md. Gas burner. 1,642,153; Sept. 13.
- Kemper, Albert H., Dayton, Ohio. Boiler or the like. 1,648,988; Nov. 15.
- Kemper-Thomas Company, The. (See Hilton, Robert W., assignor.)
- Kempf, Conrad, assignor to Sueddeutsche Christbaumschmuck- u. Reflektoren Gesellschaft mit beschränkter Haftung, Nuremberg, Germany. Reflector for Christmas-tree decoration. Des. 72,481; Apr. 19.
- Kempf, Ida E. L., St. Louis, Mo. Mail-delivery system. 1,652,245; Dec. 13.
- Kempf, Karl F. W., Buffalo, N. Y. Manufacturing bolts. 1,631,395; Dec. 6.
- Kempf, Stephen S., Chicago, Ill. Traction chain. 1,623,014; Mar. 29.
- Kempien, August J., St. Paul, Minn. Foul indicator for bowling alleys. 1,621,511; Mar. 22.
- Kempter, Fritz, Stuttgart, Germany. Kneading and mixing machine. 1,652,075; May 21.

- Kempler, Philip, assignor to Guder Paeschke & Frey Company, Milwaukee, Wis. Strainer. 1,653,214; Dec. 20.
- Kempton, Herbert E., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Wheel-dressing mechanism. 1,631,696; June 7.
- Kempton, William E., Marshall, and J. Rucker, Morgan, Minn. Automobile visor. 1,627,975; May 10.
- Kenan, John J. W., Orange, N. J. Acid-proof valve. 1,623,056; Apr. 5.
- Kenan, John J. W., and W. M. Cady, Newark, N. J. Radio apparatus. 1,629,825; May 24.
- Kenan, John J. W., and W. M. Cady, Newark, N. J. Radio apparatus. 1,629,826; May 24.
- Kendall, Allen B., Niagara Falls, and B. W. Meisel, Crestwood, assignors to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,631,597; June 7.
- Kendall, Clyde E. (See Sutton, O. D., and Kendall.)
- Kendall, Edward L., Jersey City, assignor to W. G. Kendall, Newark, N. J. Closure for powder-dispensing containers. 1,627,781; May 10.
- Kendall, George M., assignor of one-half to W. G. Cockerell, Weatherford, Tex. Drain cock for automobile radiators. 1,616,373; Feb. 1.
- Kendall, Ira H., Potsdam, N. Y. Closure device. 1,618,882; Feb. 22.
- Kendall, Ira H., Potsdam, N. Y. Method of and apparatus for preheating milk. 1,618,883; Feb. 22.
- Kendall, Ira H., Potsdam, N. Y. Apparatus for cleansing milk cans and other receptacles. 1,644,384; Oct. 4.
- Kendall, Ira H., Potsdam, N. Y. Cleansing milk receptacles. 1,644,385; Oct. 4.
- Kendall, Ira H., Potsdam, N. Y. Apparatus for washing receptacles. 1,644,386; Oct. 4.
- Kendall, Ira H., Potsdam, N. Y., assignor to Manning Manufacturing Company, Rutland, Vt. Jet-washing machine. 1,610,835; Aug. 30.
- Kendall, Thomas W., Newark, N. J. Hanger. 1,643,661; Sept. 27.
- Kendall, William G. (See Kendall, Edward L., assignor.)
- Kendall, William G. (See MacDougall, Harold, assignor.)
- Kendall, William G., Newark, N. J. Compact holder. Des. 74,014; Dec. 6.
- Kendall, William G., Newark, N. J. Closed sifter cap for containers. 1,618,518; Jan. 4.
- Kendall, William G., Newark, N. J. Vanity case. 1,616,374; Feb. 1.
- Kendall, William G., Newark, N. J. Vanity case. 1,616,375; Feb. 1.
- Kendall, William G., Newark, N. J. Compact ejector for vanity cases. 1,616,376; Feb. 1.
- Kendall, William G., Newark, N. J. Vanity case. 1,617,448; Feb. 15.
- Kendall, William G., Newark, N. J. Vanity-case ejector. 1,618,092; Feb. 15.
- Kendall, William G., Newark, N. J. Vanity-case-compact holder and catch. 1,626,413; Apr. 26.
- Kendall, William G., Newark, N. J. Compact holder. 1,626,613; May 3.
- Kendall, William G., Newark, N. J. Compact ejector for vanity cases. 1,635,891; July 12.
- Kendall, William G., Newark, N. J. Vanity-case hinge. 1,635,941; July 12.
- Kendall, William G., Newark, N. J. Powder press. 1,640,000; Aug. 23.
- Kendall, William G., Newark, N. J. Compact holder and ejector for vanity cases. 1,642,611; Sept. 13.
- Kendall, William G., Newark, N. J. Vanity case and ejector therefor. 1,647,046; Oct. 25.
- Kendall, William G., Newark, N. J. Cosmetic-pad holder. 1,647,916; Nov. 1.
- Kendall, William G., Newark, N. J. Compact ejector for vanity cases. 1,647,917; Nov. 1.
- Kendall, William G., Newark, N. J. Case or container. 1,653,293; Dec. 20.
- Kendall, William G., Newark, N. J., assignor to Parfumerie Rigaud, Inc., New York, N. Y. Compact holder. 1,626,842; May 3.
- Kendall, William G., Newark, N. Y., assignor to Parfumerie Rigaud, Inc., New York, N. Y. Vanity case. 1,613,798; Jan. 11.
- Kener, Edward, jr., Buffalo, N. Y. Inclinator. 1,653,674; Dec. 20.
- Kener, Edward, jr., assignor to Buffalo Co-operative Store Co., Buffalo, N. Y. Inclinator. 1,634,998; July 5.
- Kener, Edward, jr., assignor to Buffalo Co-operative Store Co., Buffalo, N. Y. Inclinator. 1,645,863; Oct. 18.
- Kenerson, Joseph E., Sausus, assignor to Trimont Manufacturing Company, Roxbury, Mass. Wrench. 1,613,229; Jan. 4.
- Kenerson, Joseph E., Sausus, assignor to Trimont Manufacturing Company, Roxbury, Mass. Pipe vise. 1,624,252; Apr. 12.
- Kenerson, Joseph E., Sausus, assignor to Trimont Manufacturing Company Roxbury, Mass. Apparatus for securing vises to posts, poles, or the like. 1,625,319; Apr. 19.
- Kenilworth Mfg. Co. (See Kosofsky, Morris, assignor.)
- Kenimer, Henry. (See Kollman, Amos C., assignor.)
- Keniston, George J., Long Beach, and C. E. Priestley, Torrance, assignors to C. Bell, Los Angeles, Calif., and C. B. Wrightsman, Tulsa, Okla. Core-extracting device. 1,650,017; Nov. 22.
- Kenly, Henry C., East Orange, N. J. Figure toy. 1,648,404; Nov. 8.
- Kennedy, Albert H., Rockport, Ind. Inking roller for typewriter ribbons. 1,638,340; Aug. 9.
- Kennedy, Alexander. (See Wilkes, W. B., and Kennedy.)
- Kennedy, Allen E., assignor to Ken-Wel Sporting Goods Company, Inc., Gloversville, N. Y. Football helmet. 1,648,850; Nov. 8.
- Kennedy, Angus B., Charlottesville, Va. Leaching method and apparatus. 1,628,787; May 17.
- Kennedy, Arthur L. (See Meehan, G. F., and Kennedy.)
- Kennedy, Arthur T., Duluth, Minn. Shoveling machine. 1,615,284; Jan. 25.
- Kennedy, Bert. (See Kennedy, Philip and B.)
- Kennedy, Carlton L., Braintree, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Short-circuiting device for electric motors. 1,652,482; Dec. 13.
- Kennedy, Daniel J., Yonkers, N. Y. Boxing glove. 1,622,322; Mar. 29.
- Kennedy, David, East Ham, London, and A. C. Anderson, Forest Gate, London, England. Apparatus for cleaning boiler tubes, condenser tubes, and other surfaces. 1,618,093; Feb. 15.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing machine. 1,648,051; Nov. 8.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 1,648,133; Nov. 8.
- Kennedy, Earl J., assignor of one-half to California Stucco Products Company, Los Angeles, Calif. Stucco jointer. 1,646,150; Oct. 18.
- Kennedy, Edward C., Newark, Del., assignor to the Torrington Company, Torrington, Conn. Latch needle. 1,629,275; May 17.
- Kennedy, Ernest N., London, England. Safety razor. 1,643,583; Sept. 27.
- Kennedy, Eugene P. (See Kennan, C. J., Kennedy, and Kirsch.)
- Kennedy, Frank M., Clarendon, Ark. Running gear for wagons. 1,647,047; Oct. 25.
- Kennedy, Frank W., assignor to De Laval Steam Turbine Company, Canton, N. J. Rotary gear pump. 1,620,261; Mar. 8.
- Kennedy, Gurney W., Quincy, Fla. Machine for stringing tobacco leaves. 1,650,990; Nov. 29.
- Kennedy, Homer, assignor, by mesne assignments, to Lincoln Scale Corporation, Pittsburgh, Pa. Scale. 1,646,151; Oct. 18.
- Kennedy, Howard L., assignor to Kennedy Manufacturing Company, Van Wert, Ohio. Traveling bag. 1,636,060; July 19.
- Kennedy, Howard L., assignor to Kennedy Manufacturing Company, Van Wert, Ohio. Carpenter's tote case. 1,647,735; Nov. 1.
- Kennedy, James S., Yonkers, N. Y., assignor to The Bartlett Hayward Company. System for automatic valve control. 1,632,905; June 21.
- Kennedy, James S., Yonkers, N. Y., assignor to The Bartlett Hayward Company. Sequence interlock for automatic valves. 1,648,052; Nov. 8.
- Kennedy, James S., Felham Manor, N. Y., assignor to The Bartlett Hayward Company. Automatic sequence control for valves. 1,634,327; July 5.
- Kennedy, James W., Canton, Ohio. Electrical apparatus for treating nerves, muscles, and blood. 1,636,568; July 19.
- Kennedy, John A., Seattle, Wash., assignor to Pacific Rim Tool Company, Cleveland, Ohio. Rim contracting and expanding tool. 1,643,122; Sept. 20.
- Kennedy, John E. and M. A., Los Angeles, Calif. Visual deflation signal for tires. 1,644,193; Oct. 4.
- Kennedy, John J., and T. W. Stene, Los Angeles, Calif. Blast catching and cashier-protective apparatus. 1,640,572; Aug. 30.
- Kennedy, John J., New York, N. Y. Constructing underground tunnels. 1,644,476; Oct. 4.
- Kennedy, Joseph P., Chicago, Ill. Eraser holder. 1,617,449; Feb. 15.
- Kennedy, Julian, Pittsburgh, Pa. Blast furnace. 1,629,508; Mar. 24.
- Kennedy, Julian, Pittsburgh, Pa. Elevator tower for blast-furnace structures. 1,630,088; May 24.
- Kennedy Manufacturing Company. (See Kennedy, Howard L., assignor.)
- Kennedy, Michael A. (See Kennedy, John E. and M. A.)
- Kennedy, Philip and B., Gloversville, N. Y. Baseball glove. 1,631,735; June 7.
- Kennedy, Ralph A., et al. (See Jones, James M., assignor.)
- Kennedy, Ralph M., Philadelphia, Pa. Power saw. 1,622,237; Mar. 22.
- Kennedy, Richard D., Altoona, Pa. Dial. 1,646,408; Oct. 25.
- Kennedy, Stephen S. S., Pontiac, Mich. Grate. 1,639,343; Aug. 16.
- Kennedy, Thomas D., Owen Sound, Ontario, Canada. Stake pocket for vehicles. 1,645,196; Oct. 11.
- Kennedy, Thomas H., Alta Loma, Tex. Heater. 1,624,415; Jan. 5.
- Kennedy-Tombs, Inc. (See Kennedy, Walter, assignor.)
- Kennedy, Walter, Cliffside, N. J. Gas-heater grill. Des. 72,713; May 24.

- Kennedy, Walter, Cliff Side, N. J., assignor to Radiant Heat Corporation of America, New York, N. Y. Heater. 1,646,026; Oct. 18.
- Kennedy, Walter, New York, N. Y., assignor, by mesne assignments, to Kennedy-Toombs, Inc. Gas heater. 1,642,111; Sept. 13.
- Kennedy, Walter, New York, N. Y., assignor, by mesne assignments, to Kennedy-Toombs, Inc. Gas burner. 1,647,137; Nov. 1.
- Kennedy, William, assignor to Alrubber Corporation, Chicago, Ill. Swimming wing. 1,624,102; Apr. 12.
- Kennedy, William P., New York, N. Y. Motor vehicle. 1,619,941; Mar. 8.
- Kenner, Minor, New Orleans, La. Mop-assembling apparatus. 1,630,187; May 24.
- Kenney, Chester A., Alameda, Calif. Toy. 1,636,371; July 19.
- Kenney, Edward F., Bethlehem, Pa. Heat treatment of steel. 1,619,025; Mar. 1.
- Kenney, Edward H. and E., Philadelphia, Pa. Sled and wagon. 1,622,789; Mar. 29.
- Kenney, Elizabeth. (See Kenney, Edward H. and E.)
- Kenney, Myron E., Everett, Wash. Condensed-milk-can perforator. 1,651,923; Dec. 6.
- Kennel, Nicholas C., assignor to Chase Companies, Inc., Waterbury, Conn. Implement for smoothing bent tubing. 1,647,526; Nov. 1.
- Konney, William J., Chicago, Ill., assignor to Zeolite Engineering Co. Method of and apparatus for reconditioning zeolite water softeners. 1,617,288; Feb. 8.
- Kennington, William O., London, England, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,638,265; Aug. 9.
- Kennon, Louis H. and L. J. Langdon, Houston, Tex. Valve. 1,625,367; Apr. 19.
- Kent, Arthur A. (See Appleby, Thomas, assignor.)
- Kent, Arthur A., Ardmore, Pa. Radiocabinet. Des. 74,149; Dec. 27.
- Kent, Arthur A., Ardmore, Pa. Vacuum-tube unit. 1,650,754; Nov. 29.
- Kent Company, The. (See Kent, G. E., and Yutzler, assignors.)
- Kent, Dolores W., San Francisco, and M. C. Gale, Oakland, Calif. Manicure set. 1,621,789; Mar. 22.
- Kent, Frank J., Verona, N. J., assignor, by mesne assignments, to Untrol Condenser Corporation, New York, N. Y. Electric condenser. 1,652,863; Dec. 13.
- Kent, George, North Chatham, Mass. Clock-dial game. 1,634,197; June 28.
- Kent, George C. (See Jackson, R. P., Kent, and Casselman.)
- Kent, Gordon E., and F. W. Yutzler, assignors to The Kent Company, Inc., Rome, N. Y. Vacuum cleaning tool. 1,651,894; Dec. 6.
- Kent, Martha A., Verona, N. J. Necktie holder. 1,650,755; Nov. 29.
- Kent, Philip J., Royal Oak, assignor to Chrysler Corporation, Detroit, Mich. Automobile instrument panel. Des. 73,087; July 19.
- Kent, Philip J., Royal Oak, assignor to Chrysler Corporation, Detroit, Mich. Automobile instrument panel. Des. 73,277; Sept. 27.
- Kent, Philip J., Royal Oak, assignor to Chrysler Corporation, Detroit, Mich. Automobile head lamp. Des. 74,013; Dec. 6.
- Kent, Walter G., London, England. Liquid meter. 1,633,532; June 21.
- Kent, William J., Brooklyn, N. Y., assignor to The Mechanical Rubber Company, Chicago, Ill. Cleaning device. 1,636,002; July 19.
- Kent, William J., Brooklyn, N. Y., and E. Martin and F. Kochan, assignors to The Mechanical Rubber Company, Chicago, Ill. Machine for trimming flash from rubber articles. 1,654,173; Dec. 27.
- Kent-Jones, Douglas W. and C. W. Chitty, assignors to Woodlands Limited, Charlton Green, Dover, England. Treatment of cereal substances. 1,636,569; July 19.
- Kent-Moore Organization. (See Benedict, George W., assignor.)
- Kenton Baking Powder Company, The. (See Becht, Robert F., assignor.)
- Kent-Owens Machine Company, The. (See Shepherd, Harold F., assignor.)
- Kentrup, Clemens To, Chicago, Ill., assignor to The Graulock Company, Cincinnati, Ohio. Vehicle lock. Re16,801; Nov. 29.
- Kent, Leo N., Lakewood, Ohio. Automobile headlight. 1,624,491; Apr. 12.
- Ken-Wel Sporting Goods Company. (See Kennedy, Allen E., assignor.)
- Kenworthy, Charles F., Incorporated. (See Kenworthy, Charles F., assignor.)
- Kenworthy, Charles F., Woodbury, Conn., assignor to Charles F. Kenworthy, Incorporated, Waterbury, Conn. Furnace. 1,617,056; Feb. 8.
- Kenworthy, James A., Los Angeles, Calif. Oil burner. 1,625,320; Apr. 19.
- Kenyon, Frank C., Jr., Philadelphia, and F. R. Goodell, Stratford, Pa., assignors to Concoleum-Nairn, Inc., New York, N. Y. Sales rack. 1,636,608; July 19.
- Kenyon, Oliver C., Geneva, Ill. Lawn rake. 1,631,375; June 7.
- Kenyon, Silas F., Indian Orchard, assignor to The Fibroid Corporation, Indian Orchard, Mass. Hinge structure. 1,645,429; Oct. 11.
- Kenyon, William H., assignor to Entwistle & Kenyon Limited, Accrington, England. Carpet sweeper. 1,620,553; Mar. 8.
- Kenyon, William H., assignor to Entwistle & Kenyon Limited, Accrington, England. Carpet sweeper. 1,645,759; Oct. 18.
- Keough, W. E., Company. (See Eklund, K., and Loock, assignors.)
- Keppath, Calvin I., Portland, Ore. Ribbon guide for typewriters and the like. 1,621,167; Mar. 15.
- Kepler, Ciel S., assignor of one-half to R. D. Kimm, Blairstown, Iowa. Portable blowtorch attachment. 1,638,341; Aug. 9.
- Kepler, George W., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Scale. 1,640,836; Aug. 30.
- Keplinger, Livingston B. and M. Q., assignors to The Peters Cartridge Company, Cincinnati, Ohio. Oil cup. 1,646,409; Oct. 25.
- Keplinger, Martha Q. (See Keplinger, Livingston B. and M. Q.)
- Kepper, Robert C. (See Johnson, W. V., and Kepper.)
- Keppeler, Johann, Birkesdorf, Germany. Loom for weaving with pile wires. 1,642,112; Sept. 13.
- Kepper, Albert E., Philadelphia, Pa., assignor to Brown & B. Company, Carten, 1,653,914; Dec. 27.
- Keppner, Ernst, assignor to the Firm Blechspielwaren-fabrik Johann Distler, Nuremberg, Bavaria. Mechanically-moved toy. 1,636,864; July 26.
- Kercher, Arthur J., Berkeley, Calif. Refrigerating apparatus. 1,614,678; Jan. 18.
- Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric heater. 1,617,916; Feb. 15.
- Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electrical heating device. 1,644,255; Oct. 4.
- Kerkhof, Daniel C., and R. Copp, assignors to Pevely Dairy Company, St. Louis, Mo. Pasteurizing apparatus. 1,653,629; Dec. 27.
- Keremes, Paul, et al. (See Coughlin, Joseph D., assignor.)
- Kergan, Robert H., Frostburg, Md. Reamer drill. 1,614,368; Jan. 11.
- Kerkhof, Cornelius. (See Sommer, W. R., Ree, and Kerkhof.)
- Kerlin, John F., and H. J. Rosenhoffer, Bradford, Pa., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Pigtail connection for brushes. 1,629,875; May 24.
- Kern, Albert L., Aurora, Ill. Brad driving and extracting tool. 1,633,533; June 21.
- Kern, Albert L., Aurora, Ill. Automobile bumper. 1,643,776; Sept. 27.
- Kern, Albert L., Aurora, Ill. Automobile bumper. 1,652,785; Dec. 13.
- Kern, Andrew J., Paris, Ky. Cultivator. 1,623,120; Apr. 5.
- Kern, Elmer L. (See O'Neill, E. F. and Kern.)
- Kern, Eugene E., assignor to W. P. Fuller & Co., San Francisco, Calif. Color chart. 1,618,664; Feb. 22.
- Kern, Fred M., Detroit, Mich., assignor by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Sizing and finishing articles of fiber. 1,637,487; Aug. 2.
- Kern, George A., Berkeley, Calif. Ornamental fountain. 1,651,714; Dec. 6.
- Kern, George H., Los Angeles, Calif., assignor to The Producers Pictures Corporation, St. Louis, Mo. Motion-picture machine. 1,624,667; Apr. 12.
- Kern, Joseph M., Oswego, N. Y. Door-controlled electric-lighting switch. 1,619,384; Mar. 1.
- Kern, Joseph M., Oswego, N. Y. Door-controlled electric-lighting switch. 1,652,364; Dec. 13.
- Kern, Ludwig, Baltimore, Md. Making cement. 1,623,876; Apr. 5.
- Kern, Mason H., Toledo, Ohio. Automobile light deflector. 1,628,152; May 10.
- Kern, Mason H., Toledo, Ohio. Automobile headlight. 1,628,153; May 10.
- Kern, Maximilian H., Ridgewood, N. Y., assignor to Roberts Numbering Machine Company. Numbering machine. 1,648,276; Nov. 8.
- Kern, Noah D., New Albany, Ohio. Cultivator. 1,632,706; June 14.
- Kernan, Thomas, St. Cloud, Minn. Snubber-acting auxiliary leaf for leaf springs. 1,615,710; Jan. 25.
- Kernats, Gustav, assignor of one-half to F. Wissinger, Chicago, Ill. Cutter. 1,642,372; Sept. 13.
- Kernes, George E., Omaha, Nebr. Ditch maintainer. 1,636,136; July 19.
- Kernes, James, assignor to Kernes Manufacturing Company, Chicago, Ill. Clock case. Des. 72,797; June 7.
- Kernes Manufacturing Company. (See Kernes, James, assignor.)
- Kerna, John R., Covington, Ky. Illuminated license-tag holder for automobiles. 1,619,520; Mar. 1.
- Kerns, Lewis H., Greenville, Ohio. Key-ring holder. 1,618,831; Feb. 22.
- Kern, Jacob, Saxon, Wis. Bark cutter and peeler. 1,617,953; Feb. 15.
- Kerost Manufacturing Company. (See Forbes, John S., assignor.)

- Kerr, Harold H. (See O'Connell, J. and Kerr.)
- Kerr, Harry E., assignor to The Cleveland Gas Burner Appliance Company, Cleveland, Ohio. Gas burner. 1,613,611; Jan. 11.
- Kerr, Herbert W., Augusta, Kans. Wire-line belt guide. 1,619,793; Mar. 1.
- Kerr, Howard J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Air-cooled walls. 1,634,291; July 5.
- Kerr, John B., and J. R. Young, Albuquerque, N. Mex. Pneumatic cushion wheel. 1,633,748; June 28.
- Kerr, Robert M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Dental case. 1,623,793; Apr. 5.
- Kerr, William J., Smethport, Pa. Spinning toy. 1,622,199; Mar. 22.
- Kerrigan, Edward L., Arlington, and W. J. Murphy, West Roxbury, Mass. Elevator-gate-operating mechanism. 1,621,987; Mar. 22.
- Kerris, Harry L., Daytona Beach, Fla. Sanitary brush holder for shaving brushes. 1,616,580; Feb. 8.
- Kerrison, Mrs. A. G. (See Smith, Frank, assignor.)
- Kersey, William E., Lebanon, Ohio. Wire splicer. 1,651,210; Apr. 22.
- Kershaw, Frederick, assignor to Procter & Schwartz, Incorporated, Philadelphia, Pa. Veneer drier. 1,637,945; Aug. 2.
- Kershaw, Frederick, and A. O. Hurxthal, assignors to Procter & Schwartz, Incorporated, Philadelphia, Pa. Air baffle driers. 1,642,446; Sept. 13.
- Kershaw, Harry, assignor by mesne assignments, to Visible Pump Company, Newark, N. J. Liquid-delivering system. 1,648,457; Nov. 8.
- Kerstein, Ernest A., Brooklyn, assignor to American Meter Company, Incorporated, New York, N. Y. Resetting device for gas meters. 1,627,183; May 3.
- Kersten, Carl C. E., Columbus, Ga. Preserving apparatus. 1,636,061; July 19.
- Kersten, Jacob, Kalamazoo, Mich. Radio loud speaker. Des. 73,184; Aug. 2.
- Kersten, Jacob, Allan, Mich. Sound-amplifying construction. 1,639,656; Aug. 23.
- Kersten, Samuel, Chicago, Ill. Mixing-valve support for laundry trays. 1,626,345; Apr. 26.
- Kerwin, Thomas J., assignor, by mesne assignments, to Chicago Electric Manufacturing Company, Chicago, Ill. Angle plug. 1,636,959; July 26.
- Kerwin, William C., Joplin, Mo. Manifold. 1,629,796; May 24.
- Kesel, Fred, and G. Nichols, Honeoye Falls, N. Y. Mouse-trap. 1,630,123; May 24.
- Keser, Fritz, Schomberg, near Wildbad, Germany. Flushing and disinfecting apparatus for spittoons. 1,614,069; Jan. 11.
- Kesler, Earle H., Bolse City, Okla. Harrow. 1,616,261; Feb. 1.
- Kesling, Elmer G., Bloomfield, Mo. Speed-changing mechanism. 1,635,483; July 12.
- Kesling, Elmer G., Bloomfield, Mo. Speed-changing mechanism for motor vehicles. 1,635,484; July 12.
- Kessel, Johannes B., Chicago, Ill. Carburetor. 1,636,187; July 19.
- Kessel, William H., Louisville, Ky. Coat collar and forming same. 1,618,438; Feb. 22.
- Kesselman, Louis P., Whittier, Calif. Oil pump. 1,625,031; Apr. 19.
- Kesseling, Frank. (See Schnur, J. M., Kesseling, Schnur, and Jonisick.)
- Kesseling, Fritz, Furth, Germany. Dynamo-electric machine. 1,626,199; Apr. 26.
- Kesses, Charles, New York, N. Y. Torpedo. 1,636,307; July 19.
- Kesses, Charles, New York, N. Y. Flying torpedo. 1,648,904; Nov. 15.
- Kesses, Charles H., New York, N. Y. Electric signal transmitter. 1,637,080; July 26.
- Kessler, Archibald K., Huntington, W. Va. Emergency kit. 1,625,647; Apr. 19.
- Kessler, Arvin G., assignor to Farrel Foundry and Machine Co., Inc., Buffalo, N. Y. Fluid-circulating plate. 1,621,742; Mar. 22.
- Kessler, Charles A. (See Hutchens, H. O., and Kessler.)
- Kessler, Charles H., Richmond Hill, N. Y., assignor to Soss Manufacturing Company, Brooklyn, N. Y. Hinge. 1,650,018; Nov. 22.
- Kessler, Charles L., San Diego, Calif. Furniture-joint-securing means. 1,649,903; Nov. 22.
- Kessler, Harry H., Bethlehem, Pa. Clutch mechanism. 1,628,629; May 10.
- Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Resin-containing coating composition. 1,642,155; Sept. 13.
- Kessler, John J., St. Louis, Mo. Indurating porous objects and material for use in same. 1,613,894; Jan. 11.
- Kessler, John J., St. Louis, Mo. Drying and polymerizing oil and mixing same. 1,616,321; Feb. 1.
- Kessler, John J., St. Louis, Mo. Indurating porous objects. 1,638,342; Aug. 9.
- Kessler, Morris S. (See Bell, C. L., and Kessler.)
- Kessler, Robert, Scranton, Pa. Vending machine. 1,634,581; July 5.
- Kestenman Bros. Mfg. Co. (See Kestenman, Charles H., assignor.)
- Kestenman, Charles H., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Fastening device for wrist-watch straps and bracelets. 1,633,381; June 21.
- Ketcham, Garry M. (See Ricken, Charles B., assignor.)
- Ketcham, Garry M., Jr. (See Ricken, Charles B., assignor.)
- Kettering, Charles F., assignor, by mesne assignments, to Dayton-Wright Company, Dayton, Ohio. Control apparatus. 1,623,121; Apr. 5.
- Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Fuel-supply device. 1,624,139; Apr. 12.
- Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Internal-combustion engine. 1,644,732; Oct. 11.
- Kettering, Charles F., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,650,524; Nov. 22.
- Kettering, Charles F., and W. A. Chryst, assignors, by mesne assignments, to Delco-Light Company, Dayton, Ohio. System of electrical distribution and control. 1,642,034; Sept. 13.
- Kettering, Charles F., and J. C. Federle, assignors to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,650,523; Nov. 22.
- Kettering, Charles F., and J. H. Hunt, assignors to General Motors Research Corporation, Dayton, Ohio. Electrical system for motor vehicles. 1,622,153; Mar. 22.
- Kettering, Charles F., and J. H. Hunt, assignors to General Motors Research Corporation, Dayton, Ohio. Electrical system for automotive vehicles. 1,622,154; Mar. 22.
- Kettering, Charles F., and T. Midgley, Jr., Dayton, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich. Using low-compression fuels. 1,635,216; July 13.
- Kettering, Charles F., and C. R. Short, assignors to General Motors Research Corporation, Dayton, Ohio. Vehicle. 1,618,439; Feb. 22.
- Kettering, Charles F., and C. R. Short, assignors to General Motors Research Corporation, Dayton, Ohio. Internal-combustion engine. 1,644,731; Oct. 11.
- Kettler, Henry, Detroit, Mich. Recentering device. 1,625,032; Apr. 19.
- Keville, John J., Locominster, Mass. Ornament for personal wear. 1,635,485; July 12.
- Kevlin, Matthew F., and W. E. Costello, Springfield, Vt. Attachment for carding machines. 1,648,050; Nov. 8.
- Kewish, William H., Painesville, Ohio. Wrench. 1,641,634; Sept. 6.
- Kex Company. (See Fisher, Albert H., assignor.)
- Key, James M., Dallas, Tex. Cotton-gathering machine. 1,615,390; Jan. 25.
- Key, James F., Sierra Madre, Calif., assignor to First Trust and Savings Bank of Pasadena, trustee. Valve. 1,620,108; Mar. 8.
- Key, James F., Sierra Madre, assignor to First Trust and Savings Bank of Pasadena, trustee, Pasadena, Calif. Device for directing the flow of gas from a gas supply to a gas receiver. 1,652,675; Dec. 13.
- Keyes Fibre Company. (See Williamson, Bert R., assignor.)
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Apparatus for producing refrigeration. 1,622,519; Mar. 29.
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Refrigerating machine. 1,622,520; Mar. 29.
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Refrigeration. 1,622,521; Mar. 29.
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Refrigeration. 1,622,522; Mar. 29.
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Gas and liquid storing device. 1,622,523; Mar. 29.
- Keyl, Hans, Berlin, Germany. High-frequency signaling apparatus. 1,649,956; Oct. 18.
- Keyroid Cement Block Co. (See McPherson, D., and Schultz, assignors.)
- Keys, John H., assignor to The Dayton Irrigation Company, Dayton, Ohio. Hose reel. 1,653,103; Dec. 20.
- Keyser, Frederick, Pasadena, Calif. Trap nest. 1,616,661; Feb. 8.
- Keyser, Johann J., Aarau, Switzerland. Actuating device for the cops of spinning, twisting, and the like machines. 1,646,542; Oct. 25.
- Keystone Mfg. Co. (See Marks, Isidore, assignor.)
- Keystone Renner & Tool Co. (See Seiler, Michael I., assignor.)
- Keystone Roofing Manufacturing Company. (See Taylor, Thomas M., assignor.)
- Keystone Watch Case Co., The. (See Levy, Bernard, assignor.)
- Keyward, John R., Bothan, Ala. Circuit maker and breaker. 1,652,123; Dec. 6.
- Keywood, William, Easton, Wash. Water motor. 1,625,896; Apr. 26.
- Khalifah, Abd-El-Rahman Z. A., Philadelphia, Pa. Apparatus for radiotransmission. 1,650,944; Nov. 29.
- Khanzadani, Avedis S., Fishamton, N. Y. Rug-cleaning machine. 1,635,366; July 12.

- Kethath Corporation. (See Sartakoff, Jack D., assignor.)
- Kiam, Edward, assignor of one-half to M. G. Collins, New York, N. Y. Alloy. 1,653,690; Dec. 27.
- Kiander, Anna M., executrix. (See Kiander, Lawrence A.)
- Kiander, Lawrence A., deceased, New York, N. Y.; A. M. Kiander, executrix. Bridge work. 1,632,744; June 14.
- Kibebe, Eugene, San Antonio, Tex. Well swab. 1,626,614; Sept. 19.
- Kibitz, Frank X. See La Hodny, W., and Kibitz.)
- Kidd, Albert E., jr., Chicago, Ill. Food product. 1,620,898; Mar. 15.
- Kidd, Thomas J., Birmingham, Ala. Process and apparatus for delinting cottonseed hulls. 1,639,568; Aug. 16.
- Kidd, Thomas J., Birmingham, Ala. Apparatus for defibrating cottonseed hulls. 1,654,263; Dec. 27.
- Kidd, William J., Walnutport, Pa. Low-speed pedal actuating and holding means. 1,620,467; Mar. 8.
- Kidder, Arthur B., Canton, Ohio, assignor to The Kidder Furnace Company. Furnace. 1,615,087; Jan. 18.
- Kidder Furnace Company, The. (See Kidder, Arthur B., assignor.)
- Kidder, Imogene, Portland, Oreg. Candy box. Des. 73,381; Aug. 30.
- Kidder, Imogene, Portland, Oreg. Candy box. Des. 73,382; Aug. 30.
- Kidder, William V. (See Zeratsky, A. W., and Kidder.)
- Kidwell, Cleo H. (See Bacon, R. F., and Kidwell.)
- Kidwell Boiler Company. (See Kidwell, Edgar, assignor.)
- Kidwell, Edgar, assignor to Kidwell Boiler Company, Milwaukee, Wis. Steam boiler. 1,629,954; May 24.
- Kidwell, Edgar, assignor to Kidwell Boiler Company, Milwaukee, Wis. Steam boiler. 1,629,955; May 24.
- Kidwell, Edgar, Milwaukee, Wis., assignor to Kidwell Boiler Company, Milwaukee, Wis. Steam boiler. 1,647,638; Nov. 1.
- Kieckhefer, Edwin F., Milwaukee, Wis. Cable equalizer. 1,622,083; June 14.
- Kiefer, Karl, Cincinnati, Ohio. Ellipsograph. 1,623,348; Apr. 5.
- Kiefer, Karl, Cincinnati, Ohio. Collapsible tube. 1,624,140; Apr. 12.
- Kiefer, Karl, Cincinnati, Ohio. Filling machine. 1,635,754; July 12.
- Kiefer, Karl, Cincinnati, Ohio. Filling containers with pastes and the like. 1,647,232; Nov. 1.
- Kiefer, Kenneth H., Baltimore, Md. Extinguishing fires. 1,632,339; June 14.
- Kiefer, Kenneth H., assignor of one-fourth to S. C. Vincent and one-fourth to F. C. Volkman, Baltimore, Md. Liquid-level gauge for gasoline tanks. 1,618,442; Feb. 22.
- Kiefer, William G., Brookline, Mass. Column and guard. 1,617,762; Feb. 15.
- Kieffer, Martin, Olean, N. Y. Attachment for silk doubling and twisting machines. 1,623,685; Apr. 5.
- Kieffer, Russell J. (See Perrenot, Frederick A., assignor.)
- Kiehl, Levi, Waynesboro, Pa. Tool-removing device. 1,651,279; Nov. 29.
- Kiehle, Clarence A. (See Atwood, E. H., Wanner, Kiehle, and Wright.)
- Kiehler, Frederick. (See Marshall, W., and Kiehler.)
- Kielar, Stanislaw, Milwaukee, Wis. Buckle. 1,615,331; Jan. 25.
- Kielar, Stanislaw, Milwaukee, Wis. Toy top. 1,631,272; June 7.
- Kielberg, Henry, Martins Ferry, Ohio. Burner for radiant gas heaters. 1,643,607; Sept. 27.
- Kiely, James F., Syracuse, N. Y. Recording machine. 1,629,078; May 17.
- Kien, Stanislaus, Rochester, N. Y. Securing means for rails. 1,632,605; June 14.
- Kienast, Ernst A., Los Angeles, Calif. Automatic hydraulic irrigation system. 1,624,744; Apr. 12.
- Kientz, Otto L., Leavenworth, Kans. Socket wrench. 1,643,134; Nov. 8.
- Kieze, Albert E., Cairo, Egypt. Working sugar cane. 1,633,895; June 28.
- Kienzle, Herbert, Schwennengen-on-the-Neckar, Germany. Method and apparatus for making lantern wheels for clocks and other purposes. 1,634,906; July 5.
- Kier, Walter C., Madison, N. J., and C. B. Fowler, Queens, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,642,500; Sept. 13.
- Kiesel, William F., jr., Altoona, Pa. Car and tender truck. 1,649,352; Nov. 15.
- Kiesel, William F., jr., Altoona, Pa. Locomotive tender. 1,651,280; Nov. 29.
- Kieze, Adolf P., Cleveland Heights, Ohio. Curling iron. 1,639,136; Aug. 16.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Tool for inserting or removing screws. 1,631,489; June 7.
- Kier, Luther J., Nashville, Tenn. Identification seal for automobile license tags. 1,636,778; July 26.
- Kilborn, Karl B., and W. S. Wolfe, assignors to Seiberling Rubber Company, Akron, Ohio. Tire-vulcanizing device. 1,633,587; June 28.
- Kilbourne, Kenneth A., Monrovia, Calif., assignor to American Cyanamid Company, New York, N. Y. Apparatus for spraying liquid hydrocyanic acid. 1,642,779; Sept. 20.
- Kilby, Angus M., Bangor, Me. Clasp. 1,624,253; Apr. 12.
- Kilby, Herbert N., Cleveland, Ohio. Carbonating apparatus. 1,615,175; Jan. 18.
- Kilby, Herbert N., Cleveland, Ohio. Carbonating apparatus and method. 1,627,459; May 3.
- Kilcare, Gilbert M., assignor to Interstate Equipment Corporation, New York, N. Y. Aerial tramway. 1,643,214; Sept. 19.
- Kilgore Mfg. Company, The. (See Peake, Edward S., assignor.)
- Kilham, Oliver W., assignor to American Steel Pipe and Tank Co., Los Angeles, Calif. Joint for casing sections and making the joint. 1,637,750; Aug. 2.
- Killam, Gaston B., Edmonton, Alberta, Canada. Gas burner. 1,616,807; Feb. 8.
- Killebrew, Charlie A., Eastport, Fla., assignor to W. S. Sherman, Minneapolis, Minn. Board kicker for end-matching machines. 1,638,310; Aug. 9.
- Killefer Manufacturing Company, The. (See Killefer, Robert, assignor.)
- Killefer Manufacturing Company. (See Watters, Daniel M., assignor.)
- Killefer, Robert, assignor to The Killefer Manufacturing Company, Los Angeles, Calif. Disk cultivator. 1,618,208; Mar. 15.
- Killer, George B., Chicago, Ill. Invalid's toilet chair. 1,638,400; Aug. 9.
- Kilgore, Robert J. (See Marshall, W. H., Kilgore, and Bedortha.)
- Killinger, Paul, Shippensburg, Pa. Wheel attachment for sleds. 1,637,999; Aug. 2.
- Killion, James B., Washington, Ind. Storage plant to preserve by nature. 1,629,392; May 17.
- Killion, John H., Chicago, Ill. Machine for making grooved strips. 1,615,984; Feb. 1.
- Killion, Joseph L., Minneapolis, Minn. Fly-paper holder. 1,622,591; Mar. 29.
- Kinball, Samuel. (See Eagles, Joseph, assignor.)
- Kinler, Edgar, Manchester, England. Loom for weaving. 1,639,776; Aug. 23.
- Kim, Julius, assignor, by mesne assignments, to T. Lenchner, Pittsburgh, Pa. Sanitary cover. Re16,705; Aug. 16.
- Kimball, A. A., Company. (See Lancher, Frederick W., assignor.)
- Kimball, A. Company. (See Moran, John G., assignor.)
- Kimball, A. Company. (See Wallin, Gustaf A., assignor.)
- Kimball, Frank I., assignor to Sargent & Company, New Haven, Conn. Takedown square. 1,615,013; Jan. 18.
- Kimball, James L., Salem, Mass. Regulator. 1,634,875; July 5.
- Kimball, James L., assignor to Tuggles-Klingeman Manufacturing Co., Salem, Mass. Damper regulator. 1,649,707; Nov. 15.
- Kimball, Ritchie, New Canaan, Conn. Cigarette container. 1,613,173; Jan. 4.
- Kimball, Wallace D., and A. E. Rideout, assignors to Standard Sealing Equipment Corporation, New York, N. Y. Filled-carton closing and sealing machine. 1,618,440; Feb. 22.
- Kimball, Wallace D., A. E. Rideout, and M. McFaul, assignors to Standard Sealing Equipment Corporation, New York, N. Y. Filled-carton closing and sealing machine. 1,615,631; Jan. 25.
- Kimber, Henry. (See Coale, Robert J., assignor.)
- Kimber, Henry A., New Rochelle, N. Y. Pulverizer. 1,646,752; Oct. 25.
- Kimber, Herbert G. (See Parsons, C. A., Cook, and Kimber.)
- Kimber, Walter E., Hitchgate, London, assignor to Ajax Trucks Limited, Manchester, England. Lifting truck or trolley. 1,630,619; May 31.
- Kimberlin, William H., Bismarck, N. Dak. Bow-facing car. 1,624,743; Apr. 12.
- Kimberly, Alfred, assignor to The Multi-Print System Co., Inc., Neenah, Wis. Roller tension device. 1,646,824; Oct. 25.
- Kimberly-Clark Company. (See Mahler, E., and Rothchild, assignors.)
- Kimble Glass Company. (See Halversen, Hans N., assignor.)
- Kimble, Raymond T., assignor to The Cambridge Glass Company, Cambridge, Mass. Machine for finishing pressed-glass articles. 1,629,827; May 24.
- Kime, Charles G., assignor to The Burch Plow Works Co., Crestline, Ohio. Cottonseed cleaner. 1,627,782; May 10.
- Kimm, Rudolph D. (See Kepler, Clell S., assignor.)
- Kimm, Abraham, Newark, N. J. Bow tie. 1,646,295; Oct. 18.
- Kimmel, Charles P., Gary, Ind. Rail-holding device. 1,629,344; May 17.
- Kimmerling, Michel, Birmingham, Ala. Tire-stripping machine. 1,658,104; Dec. 20.
- Kimmb, Elmer G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Belt joint. 1,635,185; July 12.
- Kimura, Elgiro, San Pedro, Calif. Vehicle traffic signal. 1,631,273; June 7.
- Kimura, Hisalok, Los Angeles, Calif. Variable condenser. 1,637,646; Aug. 2.
- Kimura, Y., and Lawrence Y., Richmond, Calif. Pivoted-type compass. 1,625,540; Apr. 26.

- Kincade, Forrest J., New York, N. Y., assignor, by mesne assignment, to C. J. Link, Denver, Colo. Film-feeding apparatus. 1,631,137; June 7.
- Kincade, Charles W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Variable-speed induction-motor set. 1,640,347; Aug. 30.
- Kincade, Frank J. (See Small, J. E. and Kincade.)
- Kind, Ewald J., Jr. (See Lochr, L. K. and Kind.)
- Kindervater, Julius, Richmond, Va. Locomotive main rod. 1,634,784; July 5.
- Kindervater, Julius, Brooklyn, N. Y. Method and apparatus for making gaskets. 1,641,171; Sept. 6.
- Kindl, Carl H., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition system. 1,638,260; Aug. 9.
- Kindle, John A., Monroe, Wash. Check protector. 1,621,416; Mar. 15.
- Kindler, Joseph C., Jersey City, and J. J. Kankas, Bayonne, N. J. Shielding taps for use upon clotheslines. 1,653,858; Dec. 27.
- Kindrat, Metro J., and H. Zatzerkowny, Detroit, Mich. Newspaper-dispensing machine. 1,622,262; Mar. 22.
- Kindrat, Metro J., and H. Zatzerkowny, Detroit, Mich. Coin chute. 1,647,180; Nov. 1.
- Kindrat, Metro J., and H. Zatzerkowny, Detroit, Mich. Coin-controlled means. 1,649,831; Nov. 22.
- Kindsavater, Frederick J., Aurora, Ill. Automobile radiator emblem. Des. 73,847; Nov. 15.
- Kindt, Herman, Baltimore, Md. Swimming apparatus. 1,622,914; Mar. 22.
- Kinesthetic Process Co. Inc. (See Ullrich, Emil H. W., assignor.)
- King, Bert W., assignor to Barnes Scale Company, Detroit, Mich. Scale. 1,617,851; Feb. 15.
- King, Chandler, Chattanooga, Tenn. Bottle. 72,831; June 14.
- King, Charles D., Rutherford, N. J. Apparatus for drilling and the like. 1,623,250; Apr. 5.
- King, Clarence R., assignor to Norton Company, Worcester, Mass. Cutting-off abrasive wheel. 1,616,531; Feb. 8.
- King, Clifford F., New Orleans, La. Double-acting pump. 1,623,841; Apr. 5.
- King, Clifford G., Providence, R. I. Pin. 1,645,649; Oct. 18.
- King, David H., assignor to Pacific Radiator Shield Company, Seattle, Wash. Radiator shield. 1,630,705; May 31.
- King, Emory A., Corydon, Iowa. Trailer. 1,618,094; Feb. 15.
- King, Ernest V., Topeka, Kans. Photographer's light-distributing means. 1,632,006; June 14.
- King, Frank E., Huntington, W. Va. Rail joint. 1,645,864; Oct. 18.
- King, George A., F. E. Warner, and E. H. Tompkins, assignors to Scovill Manufacturing Company, Waterbury, Conn. Mechanism for setting carpet fasteners. 1,620,498; Mar. 8.
- King, George D. (See Brookby, H. E. and King.)
- King, Grover N., Kerrville, Tex. Fishing tool. 1,626,843; May 8.
- King & Hamilton Company. (See Gilman, Albert E., assignor.)
- King, Horace W., assignor to King-Seely Corporation, Ann Arbor, Mich. Depth-indicating device. 1,634,427; July 5.
- King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Repressing bricks. 1,630,436; May 31.
- King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet-feeding machine. 1,652,172; Dec. 13.
- King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet feeding. 1,653,806; Dec. 27.
- King, James G., Cleveland, Ohio. Abdominal truss. 1,628,155; May 10.
- King, Jefferson D., Griffin, Ga. Bed brace. 1,643,502; Sept. 27.
- King, Jesse G., assignor to Delco-Light Company, Dayton, Ohio. Refrigerating apparatus. 1,654,504; Dec. 27.
- King, John C., Dalby, Australia. Overhead railway system. 1,621,790; Mar. 22.
- King, John C., Lumber Company, The. (See Fulton, James O., assignor.)
- King, John L., Baltimore, Md. Safety razor. 1,653,105; Dec. 20.
- King, John R. (See Miles, William B., assignor.)
- King, Joseph F., Brooklyn, assignor to H. A. Metz, New York, N. Y. Chemical composition. 1,633,213; June 21.
- King, Joseph M., Detroit, Mich. Carburetor. 1,636,308; July 19.
- King, Joseph R., Oklahoma City, Okla. Gas heater. Des. 72,770; May 31.
- KingKeys Advertising Company, The. (See Overen, Henry, assignor.)
- King, Landreth H., Orange, N. J. assignor to King Mechanism and Engineering Company, New York, N. Y. Dumping truck. 1,620,092; Aug. 16.
- King, Louise C., Cleveland, Ohio. Spectacles. 1,625,614; Apr. 19.
- King, Malvern D., Gatesville, Tex. Dental flask. 1,647,048; Oct. 25.
- King, Mark Jr., New Rochelle, N. Y., assignor to American Telephone and Telegraph Company. Linear measuring device. 1,616,499; Feb. 8.
- King Mechanism and Engineering Company. (See King, Landreth H., assignor.)
- King, Milford A., Los Angeles, Calif. Apparatus for sinking and cleaning oil and water wells. 1,638,852; Aug. 23.
- King, Nathaniel, and R. A. Ashton, assignors to Seneca Film Machine Company, Fitchburg, Mass. Back squaring attachment for lathes. 1,644,733; Oct. 11.
- King, Oral A., South Norfolk, Va. Antiglare attachment for headlights. 1,652,015; Dec. 6.
- King, Otis C. P., assignor to Carbic Limited, London, England. Calculating apparatus. 1,645,009; Oct. 11.
- King, Percival B., Seymour, Conn. Wicketless torch for soldering irons. 1,615,764; Jan. 25.
- King, Percival F., Miami, Fla. Plier wrench. 1,653,182; Dec. 20.
- King Pneumatic Tool Company. (See Guyer, William J., assignor.)
- King Pneumatic Tool Company. (See Hendricks, Albert E., assignor.)
- King, Ralph E., East Orange, and W. M. Beaumont, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,624,847; Apr. 5.
- King, Robert, Pendleton, Oreg. Safety connecting hook for derricks. 1,617,763; Feb. 15.
- King, Robert P., Greensboro, N. C. Portable wall cabinet. 1,645,058; Oct. 11.
- King, Robert W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,613,612; Jan. 11.
- King, Robert W., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionic device and evacuating the same. 1,628,987; May 17.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Bracelet. 1,617,289; Feb. 8.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Bracelet. 1,617,290; Feb. 8.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Watch-bracelet latch. 1,651,134; Nov. 29.
- King, Samuel, Carlingford, New South Wales, Australia. Jib-crane excavator. 1,640,124; Aug. 23.
- King Sanitary Pipe Cleaner Company. (See Griscom, Alvin C., assignor.)
- King-Seely Corporation. (See King, Horace W., assignor.)
- King, Terry T., Fort Wayne, Ind., assignor to General Electric Company. Automatic pressure regulator. 1,623,842; Apr. 5.
- King Ventilating Company. (See Fedder, Louis J., assignor.)
- King, William, Cedar Rapids, Iowa. Label holder. 1,615,332; Jan. 25.
- King, William B., Leaksville, N. C. Combination bench and wardrobe. Des. 73,704; Oct. 25.
- King, William H., Clinton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lock for loom web detectors. 1,653,183; Dec. 20.
- King, William J., assignor to The E. T. Burrows Company, Portland, Me. Folding table. 1,635,279; July 12.
- King, William P., Syracuse, N. Y. Locking mechanism. 1,645,059; Oct. 11.
- King, William S., Leaksville, N. C. Combination table and smoker's stand. Des. 73,746; Nov. 1.
- King, William S., Hartford, Conn. Gravity propeller release. 1,646,204; Oct. 19.
- King, Willis R., assignor to The Hanson & Van Winkle Company, Newark, N. J. File. 1,631,212; June 7.
- Kingdon, Kenneth H., and I. Langmuir, Schenectady, N. Y., assignors to General Electric Company. Method and apparatus for conducting current. 1,648,183; Nov. 8.
- Kingdon, Kenneth H., and I. Langmuir, Schenectady, N. Y., assignors to General Electric Company. Electron-discharge device. 1,648,312; Nov. 8.
- Kingdon, Ralph H., assignor to Sears, Roebuck and Co., Chicago, Ill. Air separator. 1,652,309; Dec. 13.
- Kingman, Russell B., Orange, assignor to Metal Textile Corporation, West Orange, N. J. Stapling tags to articles. 1,628,848; May 17.
- Kings, Thomas W., Harvey, Ill., assignor to Ira E. Burtis, Beaver Dam, Wis. Carburetor. 1,624,604; Apr. 12.
- Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)
- Kingsbury, Edward J., Keene, N. H. Automatic drilling machine. 1,652,247; Dec. 13.
- Kingsbury, Edward J., and H. T. Keene, N. H. Automatic feeding device. 1,624,872; Apr. 12.
- Kingsbury, Harry T. (See Kingsbury, Edward J. and H. T.)
- Kingsbury, Harry T. and E. J. Keene, N. H. Automatic hopper-feeding device. 1,650,278; Nov. 22.
- Kingsbury Machine Works, Inc. (See Howarth, Harry A. S., assignor.)
- Kingsford, Russell T., Wyncote, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Grille front for radio loud speakers. Des. 73,261; Aug. 16.
- Kingsley, Charles B., Clairton, Pa., assignor to Mississippi Glass Company, Batch feeding to glass tanks. 1,623,057; Apr. 5.

- Kingsley, Francis, Pelham Manor, N. Y. Change-making device. 1,627,562; May 10.
- Kingsley, Francis, Pelham Manor, N. Y. Polishing shoes 1,638,097; Aug. 9.
- Kingsley-Miller Company, The. (See Dewire, John A., assignor.)
- Kingston, Charles T. (See Wallis, H. E., and Kingston.)
- Kingston, George, Kokomo, Ind. Carburetor. 1,617,599; Feb. 15.
- Kinkade, Willard D. and C. J. Baugh, Barnsdall, Okla. Treating acid sludge to provide a fuel. 1,621,071; Mar. 16.
- Kinkaid, Charles R. and E. T. Shreve, Rotan, Tex. Valve-actuating mechanism. 1,634,198; June 28.
- Kinkaid, Charles B., Huntington, W. Va. Device for use with telephones. 1,626,287; Apr. 26.
- Kinkaid, Charles B., Huntington, W. Va. Device for use with telephones. 1,633,816; June 28.
- Kinkaid, Fowler M., Boston, Mass. Headlight. 1,628,545; May 10.
- Kinker, Clarence C., assignor to The O'Neill Machine Company, Toledo, Ohio. Glass-jar wire-tying mechanism. 1,652,864; Dec. 13.
- Kinley, Myron M., Tulsa, Okla. Apparatus for plugging casing from wells. 1,645,010; Oct. 11.
- Kinley, Myron M., Tulsa, Okla. Device for recovering casing from wells. 1,645,010; Oct. 11.
- Kinnard, Edward H., assignor to Universal Postal Frankers Limited, London, England. Postal franking machine. 1,637,647; Aug. 2.
- Kinnard, James A., Detroit, Mich., assignor to The Fulton Company, Knoxville, Tenn. Temperature regulator for internal-combustion engines. 1,639,299; Aug. 16.
- Klune, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Transitional car-coupler mechanism. 1,615,946; Feb. 13.
- Klune, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupler mechanism. 1,639,300; Aug. 16.
- Klune, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupler mechanism. 1,639,301; Aug. 16.
- Kinneer, John K., Geneva, Ohio. Handle. 1,641,226; Sept. 6.
- Kinneer Manufacturing Company, The. (See Gregor, Ralph H., assignor.)
- Kinneer Manufacturing Company, The. (See Rush, A., and Gregor, assignors.)
- Kinneer, Willis B., Youngsville, Pa. Storm-window screen. 1,615,632; Jan. 25.
- Kinnebrew, Marcus. (See Jones, W. H., and Kinnebrew.)
- Kinney, Aldon M., Norwood, Ohio, assignor to The Electric Cable Company, Bridgeport, Conn. Electric switch. 1,645,387; Oct. 11.
- Kinney, Briggs R., Miami, Ariz. Replaceable liner for reverberatory furnaces. 1,645,011; Oct. 11.
- Kinney, Herbert A., Tampa, Fla. Fishing lure. Des. 73,503; Sept. 20.
- Kinney, James A., Lebanon, assignor to Bethlehem Steel Company, Bethlehem, Pa. Work-handling mechanism for bolt machine. 1,619,077; Mar. 1.
- Kinney, James A., Lebanon, assignor to Bethlehem Steel Company, Bethlehem, Pa. Die opening and closing mechanism. 1,643,662; Sept. 27.
- Kinney, Justus R., Jamaica Plain, assignor to Kinney Manufacturing Co., Boston, Mass. Vacuum pump. 1,623,315; Apr. 5.
- Kinney, Justus R., Jamaica Plain, Mass. Relief valve for rotary pumps. 1,623,316; Apr. 5.
- Kinney Manufacturing Co. (See Kinney, Justus R., assignor.)
- Kinney, Norton W., assignor to Slipper City Wood Heel Company, Haverhill, Mass. Wood-heel marker. 1,640,359; Aug. 30.
- Kinney Rome Company. (See Hanauer, Darwin, as assignor.)
- Kinney-Rome Company. (See Hanauer, Darwin, assignor.)
- Kinsey, Edmond E., San Angelo, Tex. Pump jack. 1,632,296; June 14.
- Kinsey, Owen D., Wauwatosa, Wis. Internal grinder. 1,636,437; July 19.
- Kinsler, George B., Hartford, assignors of one-third to A. J. Brodner, West Hartford, Conn. Universal joint. 1,638,400; Aug. 9.
- Kinsley, Lewis, Philadelphia, Pa., and J. W. S. Moss, New York, N. Y., assignors to Hope Machine Company, Philadelphia, Pa. Piston ring. 1,645,146; Oct. 11.
- Kintner, Alcuin E., Painesville, Ohio. Locking device. 1,621,934; Mar. 22.
- Kintner, Alcuin E., Painesville, Ohio. Guard mechanism. 1,650,134; Nov. 22.
- Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Frame for a hand mirror or similar article. Des. 73,747; Nov. 1.
- Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Mirror frame or similar article. Des. 73,748; Nov. 1.
- Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Hand mirror frame or similar article. Des. 73,749; Nov. 1.
- Kintz, Earl E., Bucyrus, Ohio. Eyeshield and face protector. 1,635,328; July 12.
- Kintz, Robert K., assignor to International Silver Co., Meriden, Conn. Dish or similar article. Des. 72,893; June 21.
- Kintz, Robert R., assignor to International Silver Co., Meriden, Conn. Tray or similar article. Des. 72,899; June 21.
- Kintz, Robert R., assignor to International Silver Co., Meriden, Conn. Bowl or similar article. Des. 72,900; June 21.
- Kintz, Robert R., assignor to International Silver Co., Meriden, Conn. Cup or similar article. Des. 72,901; June 21.
- Kintzele, Julius H., St. Louis, Mo., assignor to Dryden Rubber Company, Chicago, Ill. Machine for placing washers upon the pins of rubber-heel molds. 1,626,039; Apr. 26.
- Kinyon, Alonzo G., Allentown, assignor to J. W. Fuller, Calacaqua, Pa. Conveying apparatus. 1,652,281; Dec. 13.
- Kinzbach, Frank, Houston, Tex. Whipstock. 1,634,582; July 5.
- Kinzel, Arch H., Akron, Ohio. Gasket. 1,643,561; Sept. 27.
- Kinzel, Arch H., assignor to The Akron Metallic Gasket Company, Akron, Ohio. Gasket. 1,616,088; Feb. 1.
- Kinzer, Sam C., Estill, Ky. Trap. 1,623,925; Apr. 5.
- Kinzie, Charles J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Zirconium compound and making same. 1,618,286; Feb. 22.
- Kinzie, Charles J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Zirconium compound and making same. 1,618,287; Feb. 22.
- Kinzie, Charles J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Zirconium oxide silica composite and making same. 1,618,288; Feb. 22.
- Kinzie, Elmer G., Lopansport, Ind. Flying machine. 1,635,892; July 12.
- Kiper, Stefan, Anderson, Ind. Wheeled toy. 1,623,033; Mar. 28.
- Kipp, Orin L., St. Paul, Minn. Concrete-pavement finishing machine. 1,629,276; May 17.
- Kipp, Roy H., Chicago, Ill., assignor to International Harvester Company, Harrow attachment for cultivators. 1,652,440; Dec. 13.
- Kippe, Otto, Osnabruck, Germany. Conglomerating fine ores, fine dust, the residue of roasting pyrites, small coke and the like. 1,614,369; Jan. 11.
- Kipper, Allen F., Knobs, Ind. Rite Hardware Company, Los Angeles, Calif. Muskegon. Des. 72,772; May 31.
- Kipper, Herman B., Muskegon, Mich. Composition for use in making sulphate or kraft pulp and making same. 1,629,393; May 17.
- Kipper, Herman B., Muskegon, Mich. Apparatus for speeding reactions. 1,632,340; June 14.
- Kirby, Charles H., Detroit, Mich. Mold for casting pistons. 1,619,135; Mar. 1.
- Kirby, Gustavus T., New York, and H. I. Day, Forest Hill, N. Y., assignors, by mesne assignments, to Kirby, Incorporated. Illuminating means. 1,626,615; May 8.
- Kirby, Incorporated. (See Champeau, Lawrence X., assignor.)
- Kirby, Incorporated. (See Kirby, G. T., and Day, assignors.)
- Kirby, James B., West Richfield, Ohio. Rebound retainer. 1,641,334; Sept. 18.
- Kirby, James W., Harlan, Iowa. Stock waterer. 1,616,532; Feb. 8.
- Kirby, Theodore, New York, N. Y. Powder container. 1,647,527; Nov. 1.
- Kirby, Walter B., Chappaqua, assignor to Clarence Whitman & Sons, Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 74,015; Dec. 6.
- Kirby, Warren J., Miami, Ariz. Rock-drill bit. 1,627,909; May 10.
- Kirch, Charles, Pasadena, Calif. Safety device and bumper. 1,621,635; Mar. 22.
- Kirchstein, Theodor, Dessau in Anhalt, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Fast dyeing on the fiber. 1,646,296; Oct. 18.
- Kirchen, Otto J., Lansing, Mich. Liquid-fuel burner. 1,640,240; Aug. 23.
- Kirchen, Otto J., Lansing, Mich. Oil heater. 1,640,241; Aug. 23.
- Kirchensteiner, Johann, Wetzikon, Switzerland. Motor brake. 1,637,117; July 26.
- Kirchensteiner, Johann, Wetzikon, Switzerland. Motor brake for autos. 1,637,118; July 26.
- Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Cover indexing device and fastener for cooking utensils. 1,639,063; Aug. 16.
- Kircher, Ralph N., West Bend, Wis., assignor to West Bend Aluminum Company. Detachable cover for cooking vessels. 1,641,681; Sept. 6.
- Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Supporting kettle balls. 1,644,063; Oct. 4.
- Kirchoff, Ernest, Great Kills, assignor to Elias Reiss and Company, New York, N. Y. Textile fabric. Des. 71,916; Jan. 25.
- Kirchoff, Ernest, Great Kills, assignor to Elias Reiss and Company, New York, N. Y. Textile fabric. Des. 72,676; May 17.
- Kirchoff, Hermann. (See Kaltwasser, O., and Kirchoff.)

- Kirschhoff, William G., assignor to The J. H. Day Company, Cincinnati, Ohio. Dough molder. 1,620,559; Mar. 8.
- Kirschman, Ferdinand H., assignor to E. C. Foster, Washington, D. C. Welding manganese steel to carbon steel. 1,635,217; July 12.
- Kirchner, Henry W., St. Louis, Mo. Transportation unit. 1,617,502; Feb. 15.
- Kirchner, Henry W., St. Louis, Mo. Transportation unit. 1,649,598; Nov. 15.
- Kirchner, William, Sparta, Wis. Power hammer. 1,642,859; Sept. 20.
- Kirchner, William C. (See Hoover, E. A., and Kirchner.)
- Kirfman, John S., Des Moines, Iowa. Structure for trelises and the like. 1,628,249; May 10.
- Kirgan, John F. (See Bancel, P. A., and Kirgan.)
- Kirgan, John F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,642,113; Sept. 13.
- Kirk, Charles J. (See Buflington, Joseph, assignor.)
- Kirk, Charles J., New Castle, Pa. Flush-valve-operating means. 1,638,161; Aug. 9.
- Kirk, Henry C., assignor to Samuel Kirk and Son, Incorporated, Baltimore, Md. Spoon or similar article. Des. 72,999; July 3.
- Kirk, John T., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Filling-end controller. 1,651,091; Nov. 29.
- Kirk, Lawrence M., Newton, Mass. Compass attachment for writing implements. 1,649,353; Nov. 15.
- Kirk, Leotis W. (See Hamilton, E. H., and Kirk.)
- Kirk, Percy and S. M., London, England. Plunce-neck and spectacles. 1,622,724; Mar. 29.
- Kirk, Robert W., Adrian, Mich., assignor to American Cham Company, Inc. Automobile bumper. 1,629,509; May 24.
- Kirk, Samuel and Son, Incorporated. (See Kirk, Henry C., assignor.)
- Kirk-Schneider, Hugo H., New York, N. Y. Mirror. 1,632,236; June 14.
- Kirk, Sidney M. (See Kirk, Percy and S. M.)
- Kirk, William A. (See Kator, Jeremiah H., assignor.)
- Kirkaldy, Alexander, New York, N. Y. Electrode. 1,639,457; Aug. 16.
- Kirke, Wallace B., Bronxville, N. Y. Reactor. 1,644,135; Oct. 4.
- Kirkegaard, Georg, Brooklyn, N. Y. Dispensing device. 1,622,831; Mar. 29.
- Kirkegaard, Georg, Brooklyn, assignor to National Surety Company, New York, N. Y. Apparatus for making indelible imprints on sheet material. 1,624,552; Apr. 12.
- Kirkham, Charles C., Oakland, Calif. Baseball game. 1,615,985; Feb. 1.
- Kirkhoff, Samuel R., Stowe, Pa. Clamp. 1,620,469; Mar. 8.
- Kirkland, Harry B., assignor to Concrete Mixing and Conveying Company, Chicago, Ill. Closure for pneumatic concrete conveyers. 1,653,631; Dec. 27.
- Kirkman, Karl F., Chicago, Ill. Paper-roll carrier. 1,618,342; Feb. 22.
- Kirkman, Thomas W., New York, N. Y. Electric plug. 1,645,650; Oct. 18.
- Kirkpatrick, George W., Pittsburgh, Pa. Fluid separator. 1,630,748; May 31.
- Kirkpatrick, Richard J., Dodge City, Kans. Valve-spring compressor. 1,619,870; Mar. 8.
- Kirkpatrick, Robert S., Des Moines, Iowa, assignor to J. E. Ladd, Des Moines, Iowa. Caster centering and retaining device. 1,625,213; Apr. 19.
- Kirkpatrick, Roy A., executor. (See Clark, Philippe L.)
- Kirkpatrick, William C., Alhambra, assignor to National Refining Process Corporation, Los Angeles, Calif. Oil-cracking process and apparatus. 1,646,543; Oct. 25.
- Kirkwood, Matilda A. (See Gannett, D. K., and Kirkwood.)
- Kirkwood, Matilda A., Pittsfield, Mass. Window-cleaning device. 1,647,138; Nov. 1.
- Kirn, Max, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electrical transmission system. 1,654,084; Dec. 27.
- Kirn, William, Solomon, Kans. Door latch. 1,617,641; Feb. 15.
- Kirnbauer, Michael, Forest Park, Ill. Check for garage-door-closing means. 1,620,109; Mar. 8.
- Kirner, Anton, Neustadt, Germany. Motion-recording apparatus. 1,642,114; Sept. 13.
- Kirner, Josef, Stuttgart, Germany. Bearing for spinning spindles. 1,631,736; June 7.
- Kirner, Josef, Stuttgart, Germany. Driving spindles. 1,642,815; Sept. 20.
- Kirsch, George H. (See Keenan, C. J., Kennedy, and Kirsch.)
- Kirsch, Jack, and A. Gieberman, Brooklyn, N. Y. Hand bag. Des. 73,614; Oct. 11.
- Kirsch, Michael J., Seattle, Wash. Combined cartridge, knife, and ax belt. 1,617,600; Feb. 15.
- Kirschbaum, Albert, Newark, N. J. Door. 1,619,578; Mar. 1.
- Kirschberg, Sigmund, San Francisco, Calif. Bedspring fabric. 1,643,623; Sept. 27.
- Kirschbraun, Lester. (See Rahr, C. E., and Kirschbraun.)
- Kirschbraun, Lester, Chicago, Ill., and R. T. Pollock, Boston, Mass., assignors to Universal Oil Products Company, Chicago, Ill. Valve. 1,638,162; Aug. 9.
- Kirschbraun, Lester, Chicago, Ill. Hydrocarbon fuel and making same. 1,614,559; Jan. 18.
- Kirschbraun, Lester, Chicago, Ill. Combustible fuel and making same. 1,614,560; Jan. 18.
- Kirschbraun, Lester, Chicago, Ill. Motor fuel and making same. 1,614,735; Jan. 18.
- Kirschbraun, Lester, Chicago, Ill. Making bituminous emulsions. 1,615,303; Jan. 25.
- Kirschbraun, Lester, Chicago, Ill. Making multiply waterproof sheets. 1,616,901; Feb. 8.
- Kirschbraun, Lester, Chicago, Ill. Making multiply waterproof sheets. 1,616,902; Feb. 8.
- Kirschbraun, Lester, Chicago, Ill. Process and apparatus for making paper. 1,616,903; Feb. 8.
- Kirschbraun, Lester, Chicago, Ill. Emulsion and producing same. 1,616,904; Feb. 8.
- Kirschbraun, Lester, Chicago, Ill. Bituminous composition and making same. 1,620,599; Mar. 15.
- Kirschbraun, Lester, Chicago, Ill. Bituminous composition. 1,620,900; Mar. 15.
- Kirschbraun, Lester, Chicago, Ill. Making waterproof composition and product produced thereby. 1,621,791; Mar. 22.
- Kirschbraun, Lester, Chicago, Ill. Making paper. 1,621,888; Mar. 22.
- Kirschbraun, Lester, Chicago, Ill., and W. H. Cady, Boston, Mass. Waterproof product. 1,623,189; Apr. 5.
- Kirschbraun, Lester, Chicago, Ill., and C. E. Rahr, assignors to The Flintkote Company, Boston, Mass. Apparatus for treating materials. 1,631,826; June 7.
- Kirschbraun, Lester, Chicago, Ill. Waterproof covering and making same. 1,644,652; Oct. 4.
- Kirschbraun, Louis. (See Colvin, W. J., and Kirschbraun.)
- Kirschenbaum, Hayman, New York, N. Y. Reinforced rocks. 1,643,662; Sept. 20.
- Kirschenbaum, Isaac, New Brunswick, N. J. Steaming brush. 1,641,037; Aug. 30.
- Kirsebom, Gustaf N., Salt Lake City, Utah, assignor to United States Smelting, Refining & Mining Company, Portland, Me. Controlling evolutions of elemental sulphur. 1,640,837; Aug. 30.
- Kirsner, Isaac, Bronx, N. Y. Keyboard cleaner. 1,635,127; July 5.
- Kirtane, Man M., Indore, Central India. Optical system for viewing tubes. 1,653,575; Dec. 20.
- Kirser, Samuel, Malden, Mass. Ash tray. 1,647,006; Oct. 25.
- Kischel, Erwin L., and W. M. Seitzinger, Chicago, Ill., assignors to Union Bag & Paper Corporation, New York, N. Y. Bag expander. 1,615,014; Jan. 18.
- Kisco Works, Inc. (See Larson, I. C., and Cooper, assignors.)
- Kislinger, Joseph B., assignor to M. B. Kislinger, New York, N. Y. Watch. Des. 73,323; Aug. 23.
- Kislinger, Joseph B., assignor to M. B. Kislinger, New York, N. Y. Watch crystal. Des. 73,360; Aug. 23.
- Kislinger, Joseph B., assignor to M. B. Kislinger, New York, N. Y. Watch case. Des. 73,361; Aug. 23.
- Kislinger, Joseph B., assignor to M. B. Kislinger, New York, N. Y. Locket. Des. 73,362; Aug. 23.
- Kislinger, Marie B. (See Kislinger, Joseph B., assignor.)
- Kispert, Joseph J., Branford, assignor to I. Newman & Sons, Inc., New Haven, Conn. Combined cordant and brazier. 1,625,664; Apr. 19.
- Kisselburg, John W., Purcell, assignor of one-half to L. A. Reeves, Pauls Valley, Okla. Boll-weevil exterminator. 1,630,016; May 24.
- Kissinger, George B., assignor of one-half to William B. Salt, Aspinwall, Pa. Automobile lock. 1,634,583; July 5.
- Kistler, Anna, Roseland, Nebr. Brooder. 1,621,544; Mar. 22.
- Kistner, Herman H., Elizabeth, N. J. Work holder. 1,654,174; Dec. 27.
- Kitch, John C., Ely, Nev. Heat retaining for engines. 1,629,394; May 14.
- Kitchel, Robert R., Ridley Park, J. L. Lippard, and J. E. Mullan, Philadelphia, assignors to Bayuk Cigars Incorporated, Philadelphia, Pa. Cigar bunch machine. 1,641,816; Oct. 6.
- Kitchel, Robert R., Ridley Park, and J. E. Mullan, assignors to Bayuk Cigars Incorporated, Philadelphia, Pa. Cigar-bunch machine. 1,645,012; Oct. 11.
- Kitchell, Horace G., Greenwood, Miss. Hoist. 1,613,895; Jan. 11.
- Kitchin, Frank G., Anne Arundel County, Md. Window operator. 1,631,490; June 7.
- Kitchin, John C., Gridley, Calif. Antirodent preparation. 1,653,710; Dec. 27.
- Kitley, Clyde, Berkeley, Calif. Dental-floss holder. 1,640,697; Aug. 30.
- Kitred, Virgil H., University Place, Nebr. Clutch. 1,629,036; May 17.
- Kitson Machine Shop. (See Curley, Robert S., assignor.)
- Kitson Machine Shop. (See Nolet, Maurice D., assignor.)
- Kitson Machine Shop. (See Whittier, J. K., Langevin, and Curley, assignors.)
- Kitson Machine Shop. (See Woodward, John W., assignor.)
- Kittelson, Halmer C., deceased; J. O. Estrem, administrator, assignor to Standard Chain Company, Inc., Minneapolis, Minn. Chain fastener. 1,613,278; Jan. 4.
- Kittinger, A. A., Pearl City, Hawaii. Rotating sprinkler. 1,618,537; Feb. 22.

- Kittinger, Otis A., San Anselmo, Calif. Rotating sprinkler. 1,018,538; Feb. 22.
- Kitt, Theodore, (See Kempt, P., and Kittl.)
- Kittredge, Ernest E., J. A. Forster, and R. D. Johansen, Alameda, Calif. Electric water heater. 1,614,620; Jan. 18.
- Kittredge, Ernest E., J. A. Forster, and R. D. Johansen, Alameda, Calif. Induction heater. 1,653,014; Dec. 20.
- Kitzman, George G., Los Angeles, Calif. Water heater. 1,617,691; Feb. 15.
- Kitzman, George G., Chicago, Ill. Water heater. 1,654,175; Dec. 27.
- Kitzinger, Edward, et al. (See Hertel, Carl L., assignor.)
- Kitzmiller, Elaine, Oakland, Calif. Mechanical game device. 1,650,135; Nov. 22.
- Kitzul, William, Hamtramck, Mich. Razor. 1,620,901; Mar. 15.
- Kivlan, John L., Boston, Mass. Closure for fruit jars. 1,649,599; Nov. 15.
- Klab, Walter, assignor to C. E. Landell, Philadelphia, Pa. Machine for forming and attaching wire coils. 1,649,600; Nov. 15.
- Kjelberg, Carl P. G., Stockholm, Sweden. Explosion engine. 1,614,736; Jan. 18.
- Klein, John H., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Face-powder container. 1,630,437; May 31.
- Kjelsberg, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible shaft. 1,649,119; Nov. 15.
- Kiener, Ragnar L., Crestwood, N. Y. Radiator. 1,630,749; May 31.
- Kjetsaa, Chester E., Philadelphia, Pa. Toilet box. 1,623,877; Apr. 5.
- Klassen, Benjamin J., Detroit, Mich. Wall construction. 1,619,300; Mar. 1.
- Klaboe, Ralph, Chicago, Ill. Combination tool. 1,620,262; Mar. 8.
- Klarke, Albert, Munich, Germany. Lock for nuts and screw heads. 1,643,384; Sept. 27.
- Klaften, Berthold, Berlin-Grunewald, Germany. Thermostat. 1,624,760; Apr. 12.
- Klases, August, Magdeburg-Sudost, Germany. Production of nuclear substituted aromatic cyanogen mercury compounds. 1,618,095; Feb. 15.
- Klages, Frank E. P., assignor to The Powers Regulator Company, Chicago, Ill. Method of and apparatus for controlling the moisture content of paper. 1,633,817; June 25.
- Klahn, Emil, New Vernon, N. J. Sustaining bodies in space. 1,629,577; May 24.
- Klaiber, Albert, Ridgewood, N. Y. Medical apparatus for the treatment of the intestines. 1,628,849; May 17.
- Klain, Joshua J., deceased, Wynnefield, Philadelphia, Pa.; L. M. Klain, executrix. Storage-battery fluid. 1,632,945; Dec. 13.
- Klain, Lillian M., executrix. (See Klain, Joshua J.)
- Klamroth, Wilfried, New York, N. Y. Running-board luggage carrier for vehicles. 1,623,794; Apr. 5.
- Klanicky, Henry, Sargent, Nebr. Governor. 1,621,545; Mar. 22.
- Klann, August A., Waynesboro, Va. Electromagnetic relay. 1,636,609; July 19.
- Klann, Rudolph, Chicago, Ill. Flush valve. 1,637,825; Aug. 2.
- Klapp, Jerome J., Chicago, Ill. Aeronautical advertising device. 1,615,947; Feb. 1.
- Klappal, Emiel L. (See Kollman, M. L., and Klappal.)
- Klappenberger, Joseph C., Baltimore, Md. Adjustable shade bracket. 1,622,450; Mar. 29.
- Klapper, Theodore B., Garden City, N. Y. Windshield cleaner. 1,641,336; Sept. 8.
- Klasing, Augustus F. (See Sherwood, Glenn L., assignor.)
- Klasing, Augustus F., Chicago, Ill., assignor to The Kiasing Car Brake Company. Brake-operating apparatus. 1,621,842; Mar. 22.
- Klasing, Augustus F., Chicago, Ill., assignor to The Kiasing Car Brake Company. Brake mechanism. 1,621,843; Mar. 22.
- Klasing, Augustus F., Chicago, Ill., assignor to The Kiasing Car Brake Company. Car brake. 1,621,844; Mar. 22.
- Klasing Car Brake Company, The. (See Klasing, Augustus F., assignor.)
- Klasnich, John, Cleveland, Ohio. Indicator. 1,635,128; July 5.
- Klasstorfer, Samuel. (See Faith, S., and Klasstorfer.)
- Klatte, Fritz, and J. Söll, Schwabenheim-on-the-Main, assignors to I. G. Farbenindustrie, Aktiengesellschaft, Frankfurt, Germany. Production of methane. 1,643,663; Sept. 27.
- Klauber Manufacturing Co. (See Flagg, Philipp F., assignor.)
- Klaus, Daniel, Golden Valley, N. Dak. Bolt. 1,644,477; Oct. 4.
- Klaus, Fred R., assignor to The American Welding and Manufacturing Company, Warren, Ohio. Cushion tire structure and method of applying to wheels. 1,638,810; Aug. 9.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Belt shifter. 1,620,214; Mar. 8.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Arm mount with accessible gear unit. 1,622,725; Mar. 29.
- Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Brake mechanism for drill spindles. 1,634,149; June 28.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Spring-suspended sleeve. 1,650,756; Nov. 29.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Lubricating system for drill heads. 1,633,576; Dec. 20.
- Klawitter, August G. (See Schmidt, O. C., and Klawitter.)
- Klawitter, Carl E. (See Pagel, F. F., and Klawitter.)
- Klebanoff, David, et al. (See Grossman, Samuel, assignor.)
- Klebanoff and Grossman. (See Grossman, Samuel.)
- Klebanoff, Kel, and Grossman. (See Grossman, Samuel, assignor.)
- Kleber, Jackson O., Pittsburgh, Pa. Radio-circuit-testing instrument. 1,646,152; Oct. 18.
- Kleckner, Arthur C., assignor to Webster Electric Company, Racine, Wis. Actuating means for magnets. 1,634,584; July 5.
- Klee, Joseph, Munich, Germany. Disk wheel. 1,631,715; Dec. 6.
- Kleen Kap Corporation. (See Laidlaw, Walter G., assignor.)
- Klein, Products Company, Inc. (See Bothe, Andreas, assignor.)
- Kleffman, John, Hibbing, Minn. Snare. 1,615,586; Jan. 25.
- Klehr, William, Forest Hills, assignor to E. F. Caldwell & Co., Inc., New York, N. Y. Globe for lighting fixtures. Des. 71,802; Jan. 4.
- Klein, Alfred M., Wellington, Ohio, assignor, by mesne assignments, to The Percy Company, Dover, Del. Apparatus for treating food-containing materials. 1,628,850; May 17.
- Klein, August C., Jamaica Plain, Mass., assignor to Stone & Webster, Inc., Boston, Mass. Making carbureted water gas. 1,630,300; May 31.
- Klein, August C., Jamaica Plain, assignor to Stone & Webster, Inc., Boston, Mass. Making carbureted water gas. 1,630,301; May 31.
- Klein, Benjamin F. (See Maerz, Frederick K., assignor.)
- Klein, Charles H., Jersey City, N. J., assignor to American Telephone and Telegraph Company. Cable clamp and bridle ring. 1,625,897; Apr. 26.
- Klein, Charles H., Jersey City, N. J., assignor to American Telephone and Telegraph Company. Nail-expansion anchor. 1,637,419; Aug. 2.
- Klein, Clarence J., Bellevue, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Material-handling apparatus. 1,637,420; Aug. 2.
- Klein, Conrad, Franklin Square, assignor to Englander Spring Bed Company, Brooklyn, N. Y. Glide hammock. 1,618,593; Feb. 22.
- Klein, Emil, Hudson, N. Y., assignor, by mesne assignments, to Russell Chemical Company, Cleveland, Ohio. Preparation of substituted guanidines. 1,648,184; Nov. 8.
- Klein, Frankfeldt and Arnoff, Inc. (See Klein, Robert, assignor.)
- Klein, Fred E., Cincinnati, Ohio. Check-room appliance. 1,621,792; Mar. 22.
- Klein, Frederick, College Point, and M. E. Penso, East Elmhurst, assignors to The Watson-Stillman Co., New York, N. Y. Braiding machine. 1,615,587; Jan. 25.
- Klein, Friedrich W. (See von Hütscher, Gustav, assignor.)
- Klein, George S., Granger, Wash. Knife-grinding attachment for meat-grinding machines. 1,631,491; June 7.
- Klein, Georges, Paris, France. Counterbalancing means for movable devices. 1,639,094; Aug. 16.
- Klein, Herbert F., Deerfield, Wis. Linoleum-display rack. 1,627,783; May 10.
- Klein, Josef, Dresden-Loschwitz, Germany. Advertising apparatus. 1,650,830; Nov. 29.
- Klein, Karl, St. Louis, Mo. Motor vehicle. 1,619,823; Mar. 8.
- Klein, Mathias & Sons, Inc. (See Rose, William, assignor.)
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Chandelier. Des. 72,832; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting fixtures. 72,833; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Canopy for lighting fixtures. 72,834; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. 72,835; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket back for lighting fixtures. 72,836; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. 72,837; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket back for lighting fixtures. 72,838; June 14.

- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting fixture. 72,839; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. 72,840; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket back for lighting fixtures. 72,841; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket back for lighting fixtures. Des. 72,842; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting fixture. Des. 72,843; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting fixtures. Des. 72,844; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Plate for lighting fixtures. Des. 72,845; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. Des. 72,846; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket back for lighting fixtures. Des. 72,847; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. Des. 72,848; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket back for lighting fixtures. Des. 72,849; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. Des. 72,850; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. Des. 72,851; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Ceiling light. Des. 72,852; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Ceiling light. Des. 72,853; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting fixture. Des. 72,854; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting fixture. Des. 72,855; June 14.
- Klein, Max, Brooklyn, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall bracket. Des. 73,000; July 5.
- Klein, Michael A., Chicago, Ill. Bottle. 1,625,728; Apr. 19.
- Klein, Paul M., Cedarhurst, N. Y. Oil burner. 1,647,409; Nov. 1.
- Klein, Richard M., assignor to F. A. D. Andrea, Inc., New York, N. Y. Adjustable condenser. 1,641,635; Sept. 6.
- Klein, Robert, assignor to Klein, Frankfeldt and Arnoff, Inc., Brooklyn, N. Y. Convertible cap. 1,648,551; Nov. 8.
- Klein, Siegfried. (See Kafka, H., and Klein.)
- Klein, Stanley, assignor to The Mandel-Drucker Company, Cincinnati, Ohio. Trunk-lock structure. 1,623,190; Apr. 5.
- Klein, William C., Allentown, Pa. Roller-bearing free wheel. 1,637,906; Aug. 2.
- Kline, William F., St. Louis, Mo. Window-casement control. 1,622,365; Mar. 29.
- Kleinert, I. B., Rubber Company. (See Guinzburg, Ralph K., assignor.)
- Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
- Kleinert, I. B., Rubber Company. (See Henry, Beulah L., assignor.)
- Kleinhamer, Bertha, Kankakee, Ill. Curtain or drapery holder. 1,654,002; Dec. 27.
- Kleinhaus, Arthur B., Easton, Pa. Building construction. 1,653,446; June 21.
- Kleinhaus, H., Company. (See Mann, Seward W., assignor.)
- Kleinman, Jack, Bronx, assignor to Henry Hyman & Co., Inc., New York, N. Y. Telephone receiver. 1,620,263; Mar. 8.
- Kleinman, Jacob L., New York, N. Y. Top. 1,616,224; Feb. 1.
- Kleinschmidt, Edward E. (See Faller, E. A., and Kleinschmidt.)
- Kleinschmidt, Edward E., Brooklyn, N. Y., assignor, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Synchronizing system. 1,616,808; Feb. 8.
- Kleinschmidt, Edward E., Long Island City, N. Y., assignor to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Motor-control system. 1,620,359; Mar. 8.
- Kleinschmidt, Edward E., Brooklyn, N. Y., assignor, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Printing telegraphy. 1,620,664; Mar. 15.
- Kleinschmidt, Edward E., Brooklyn, N. Y., assignor, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Printing telegraphy. 1,632,297; June 14.
- Kleinschmidt, Edward E., Brooklyn, N. Y., assignor, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Signaling transmitter. 1,632,298; June 14.
- Kleinschmidt, Emil, Frankfort-on-the-Main, Germany. Production of electrodes. 1,659,188; Aug. 16.
- Kleinschrick, Frederick, Indianapolis, Ind. Cushion adjuster. 1,643,715; Sept. 27.
- Kleinwort, Heinrich, Obendach, near Gluckstadt, Germany. Machine for cutting and dredging ditches. 1,614,070; Jan. 11.
- Klien, Edwin C., Saginaw, Mich. Study chair. Des. 73,089; July 12.
- Klemm, Hanns, Sindelfingen, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Flying machine. 1,651,716; Dec. 6.
- Klemme, Maurice G., Belleville, Stove. 1,645,244; Oct. 11.
- Klemoff, Paul, assignor to General American Tank Car Corporation, Chicago, Ill. Hopper car. 1,628,166; May 10.
- Klemoff, Paul, assignor to General American Tank Car Corporation, Chicago, Ill. Car underframe. 1,631,685; June 7.
- Klemoff, Paul, assignor to General American Tank Car Corporation, Chicago, Ill. Tank car. 1,635,717; July 12.
- Klemperer, Wolfgang B., assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Flanged fin. 1,623,938; Apr. 5.
- Klemte, August, Bremen, assignor to G. Kueper, Wilhelmshaven, Germany. Football. 1,618,950; Feb. 22.
- Klemte, August, Bremen, assignor to G. Kueper, Wilhelmshaven, Germany. Football. 1,618,951; Feb. 22.
- Klenck, Louis G., Jr., St. Paul, Minn. Radiator protector. 1,629,216; May 17.
- Klenk, George, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Manufacturing turbines. 1,620,974; Mar. 15.
- Klett, Manufacturing Company. (See Klett, Robert E., assignor.)
- Klett, Robert E., Ridgefield Park, N. J., assignor to Klett Manufacturing Company, Inc., New York, N. Y. Syringe. 1,648,135; Nov. 8.
- Kleuver, Anne J. (See Cook, Frank J., assignor.)
- Klievins, Maurice. (See Boyer, H., and Klievins.)
- Klieber-Dawson Machine Company, The. (See Klieber, Paul, assignor.)
- Klieber, Paul, assignor to The Klieber-Dawson Machine Company, Indianapolis, Ind. Wood-shaping machine. 1,615,088; Jan. 18.
- Kliegl, Anton T., et al. (See Linnebach, Adolph, assignor.)
- Kliegl, John H., et al. (See Linnebach, Adolph, assignor.)
- Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
- Kliwer, Edward A., Olden, Tex. Fire extinguisher for oil and gas wells. 1,640,898; Aug. 30.
- Kliwer, Edward A., Tulsa, Okla., assignor of 24 per cent to F. G. Lippitt, one thirty-second to J. W. Castleman, and one-sixteenth to W. David Brockenridge, Tex. Fire extinguisher for oil wells. 1,640,889; Aug. 30.
- Klismann, Mike. (See Hanscom, William E., assignor.)
- Klinek, Gustav A., East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y. Hydraulic-power transmitter. 1,640,608; Aug. 30.
- Klimoski, Joseph J. (See Gizewski, John, assignor.)
- Klin, John R., assignor to The Rike Folding Box Company, Dayton, Ohio. Garment box. 1,649,237; Nov. 15.
- Klinch Lath Corporation. (See Strand, Joseph, assignor.)
- Klinck, Harry W., Logansport, Ind. Puddle plug. 1,623,843; Apr. 5.
- Kline, Ambrose E., Brookville, Pa. Revolving sign. 1,648,343; Dec. 22.
- Kline, Arthur H., Chicago, Ill. Separable attachment plug. 1,648,351; Nov. 8.
- Kline, Clarence F., Akron, Ohio. Door fastener. 1,654,221; Dec. 27.
- Kline, Fred J. (See Elias, Justin A., assignor.)
- Kline, Fred J., New York, N. Y. Paper fastener. 1,645,430; Oct. 11.
- Kline, Fred J., New York, N. Y. Paper-perforating device. 1,650,019; Nov. 22.
- Kline, Fred J. (See Alver, Victor, assignor.)
- Kline, Fred J., New York, N. Y. Paper-filling device. 1,652,205; Dec. 13.
- Kline, Edmon, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,651,281; Nov. 29.
- Kline, Richard E. (See Grace, George G., assignor.)
- Kline, Richard E. (See Keim, L. H., and Kline.)
- Kline, Victor H., Lakewood, assignor to The American Multigraph Company, Cleveland, Ohio. Printing device having changeable form. 1,627,242; May 3.
- Klinenberg, Edward, Chicago, Ill. Ice-cream cabinet. 1,633,588; June 28.
- Kling, Fred E., Youngstown, Ohio. Hot blast stove. 1,647,570; Nov. 1.
- Klingman, Lloyd L., Kelso, Wash. Actuating attachment for rims. 1,620,470; Mar. 8.
- Kling, John, Dubuque, Iowa. Rotary pump. 1,628,883; May 17.

- Klinghöffer, Reinhard, Warden-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recoiling device for condensing locomotives. 1,617,057; Feb. 8.
- Klingensmith, Stuart L., Alhambra, and F. J. Koepke, Los Angeles, Calif. Collapsible baby carriage. 1,633,864; June 28.
- Klinke, August E., Tonawanda, and F. C. Burkhardt, Buffalo, assignors to Buffalo Steel Company, Tonawanda, and The Crosby Company, Buffalo, N. Y. Chair for concrete-reinforcing rods. 1,613,351; Jan. 4.
- Klingler, Albert. (See Zinke, A., and Klingler.)
- Klingstein, William, et al. (See Nathan, Samuel, as assignor.)
- Klink, Heber C., Toledo, Ohio. Instruction device for musical instruments. 1,640,125; Aug. 23.
- Klinke, Oscar, assignor to Smith & Crosby, Attleboro, Mass. Bracelet chain. Des. 7,1839; Jan. 11.
- Klinke, Oscar, assignor to Smith & Crosby, a copartnership composed of A. D. and G. H. Crosby, Attleboro, Mass. Bracelet. Des. 7,2369; Apr. 5.
- Klinker, Herman H. D., New York, N. Y. Landing gear for airships. 1,618,441; Feb. 22.
- Klinzing, August F., Milwaukee, Wis. Valve for animal drinking fountains. 1,640,194; Aug. 23.
- Klipce, Joseph, Cleveland, Ohio. Guard for fishhooks. 1,629,510; May 24.
- Klitnick, Mark. (See Turtle, D., and Klitnick.)
- Kloeb, Gustav H., Philadelphia, Pa. Cipherless device for pipe organs. 1,632,657; June 14.
- Klohn, John W. (See Davis, F. H., and Klohn.)
- Klohn, Karl, Scheideidmühl, Germany. Hinge for doors and windows. 1,614,071; Jan. 11.
- Klohs, Sam F., Larkins, Fla., assignor to Camel Company, Chicago, Ill. Starting and closing means for doors. 1,651,064; Nov. 28.
- Klonck, August J., New York, N. Y. Multiplex signaling. 1,623,479; Apr. 5.
- Kloo, Hugo J. V., Helas, Sweden. Thinning machine. 1,616,252; Feb. 1.
- Kloos, Carl, et al. (See Donald, William H., assignor.)
- Klooging, Paul E., assignor to Central Scientific Company, Chicago, Ill. Advertising device. 1,630,490; May 31.
- Klopsteg, Paul E., assignor to Central Scientific Company, Chicago, Ill. Educational apparatus. 1,636,234; July 19.
- Klopsteg, Paul E., and H. P. Sachse, assignors to Central Scientific Company, Chicago, Ill. Mercurial barometer. 1,632,084; June 14.
- Klopsteg, Paul E., and W. H. Stannard, Homewood, assignors to Central Scientific Company, Chicago, Ill. Thermosensitive circuit controller. 1,629,710; May 24.
- Klopsteg, Paul E., and W. H. Stannard, Homewood, assignors to Central Scientific Company, Chicago, Ill. Circuit breaker. 1,629,711; May 24.
- Kloss, Alex., Aachen-Rothe Erde, Germany. Mud guard for vehicles. 1,631,420; June 7.
- Kloss, Charles F., New Haven, Conn. Safe. 1,637,381; Aug. 2.
- Kloss, Vitalis M., assignor of one-half to E. W. Tersh, Minneapolis, Minn. Bottle stopper. 1,638,207; Aug. 9.
- Klosterman, Joseph J., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,622,790; Mar. 28.
- Klotz, Carl W. (See Joslin, C. T., and Klotz.)
- Klotz, Ulus S., Toledo, Ohio. Wind guard for automobile levers. 1,635,329; July 12.
- Klotzli, Theodor, Thoune, Switzerland. Electrical connector with automatic circuit breaker. 1,614,306; Jan. 11.
- Klouman, Henning, Michigan City, Ind., assignor to Chrobalitic Tool Company. Making metal castings. 1,643,777; Sept. 27.
- Klucas, Spencer E., Barry, Minn. End gate. 1,626,414; Apr. 26.
- Kluge, Abel and E., assignors to Bradtjen and Kluge, St. Paul, Minn. Sheet-delivery mechanism. 1,621,546; Mar. 22.
- Kluge, Abel and E., assignors to Bradtjen and Kluge, Inc., St. Paul, Minn. Sheet-delivering device. 1,621,547; Mar. 22.
- Kluge, Eneval. (See Kluge, Abel and E.)
- Kluge, Hans. (See Bauer, G., and Kluge.)
- Kluge, Hans. (See Bauer, G., and Kluge.)
- Klumb, Arthur H. (See Quade, A., and Klumb.)
- Klump, Carl S., Brooklyn, N. Y. Door-control system. 1,636,746; July 26.
- Klüber, Theodore, Cuxhaven, Germany. Towing device with safety device against capsizing for tugs. 1,621,168; Mar. 15.
- Kmentt, Waldemar D. (See Matthias, G. L., and Kmentt.)
- Kmentt, Waldemar D., Akron, Ohio, assignor to The B. I. Goodrich Company, New York, N. Y. Washer-feeding apparatus. 1,619,075; Mar. 1.
- Knaak, George A., Milwaukee, Wis. Snap-action mechanism. 1,618,963; Feb. 22.
- Knaab Corporation, The. (See Wilson, Sidney C., assignor.)
- Knable, Raymond, Chicago, Ill. Automatic coat-hanger for hanging coats. 1,616,452; Feb. 8.
- Knable, Raymond, Chicago, Ill. Wire-feeding device. 1,616,453; Feb. 8.
- Knausch, Edward M., Monroe, and E. Shoemaker, Carleton, Mich. Saw guide. 1,639,039; Aug. 16.
- Knaggs, Christopher J., Detroit, Mich. Furnace attachment. 1,648,950; Nov. 15.
- Knaggs, Roy S. (See Bedington, Sydney J., assignor.)
- Knapp, Charles N. E., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Link-drive mechanism. 1,640,548; Aug. 30.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Dome-light bezel. Des. 73,383; Aug. 30.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Window regulator handle. Des. 73,787; Nov. 8.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Instrument-board panel. Des. 74,057; Dec. 13.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Hinge for motor vehicles. 1,613,279; Jan. 4.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,639,890; Aug. 23.
- Knapp, Bernard. (See Coburn, J. M., and Knapp.)
- Knapp Brothers Manufacturing Company. (See Thomas, Winifred S., assignor.)
- Knapp, Charles J., Erie, Pa. Collapsing tap. 1,613,036; Jan. 4.
- Knapp, Charles L., Shenandoah, Pa. Music-leaf turner. 1,625,898; Apr. 26.
- Knapp, Charles P., New York, assignor of one-half to W. H. Mack, Johnson City, N. Y. Smoker's stand or the like. Des. 72,902; June 21.
- Knapp, Charles S., National City, Calif. Trouser shield. 1,651,775; Dec. 6.
- Knapp, Edward L., assignor to The National Brass Company, Grand Rapids, Mich. Drawer pull. Des. 72,798; June 7.
- Knapp, John C., Atlanta, Ga. Tripping device for car attachments. 1,628,788; May 17.
- Knapp, Joseph, Kaufman, Tex. Dishwashing machine. 1,615,844; Feb. 1.
- Knapp, Raleigh T., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Draft rigging. 1,641,087; Aug. 30.
- Knapp, Rudolph H., Saginaw, Mich. Auxiliary-fuel device for internal-combustion engines. 1,627,563; May 10.
- Knapp, Sydney H., Greytown, Wellington, assignor to S. J. Moran, Mastertown, New Zealand. Milking machine. 1,644,435; Oct. 4.
- Knapp, William, Chanute, Kans. Chain brush for stills. 1,631,418; May 17.
- Knapp, William, Chanute, Kans. Steam-jacketed still. 1,630,189; Aug. 16.
- Knaster, Leon, Union City, N. J. Secret cabinet. 1,618,933; Feb. 22.
- Kneber, Albert F., Milwaukee, Wis. Rowboat motor. 1,632,444; June 14.
- Knauff, Ulysses G., Minneapolis, Minn. Holder for baking potatoes. 1,630,188; May 24.
- Knauff, Ulysses G., Minneapolis, Minn., assignor to C. J. Knutson, Portland, Ore. Lawn sprinkler. 1,634,281; July 5.
- Knauss, Frank V., et al. (See Knauss, Harry A., assignor.)
- Knauss, Harry A., Brooklyn, assignor of one-third to E. M. Everts, New York, N. Y., and one-third to F. V. Knauss, Portsmouth, Ohio. Recording and resulting products. 1,652,483; Dec. 13.
- Knaust, Frederick, Brooklyn, N. Y. Sanitary food container. 1,618,262; Feb. 1.
- Knaust, Frederick, Brooklyn, N. Y. Constructing cement walls. 1,616,263; Feb. 1.
- Kneass, Strickland L., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Injector. 1,620,712; May 24.
- Knebel, Jacob J. (See Hankinson, W., and Knebel.)
- Knechtel, Alvin V., Los Angeles, Calif., assignor to Pathe Exchange, Inc. Producing composite moving-picture films. 1,627,976; May 10.
- Knechtel, Walter J., Omaha, Neb., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,617,450; Feb. 15.
- Kneher, John G. (See Muller, Otto, assignor.)
- Knell, John, Aurora, Ill., assignor to All-Steel-Equip Company. Latch and lock mechanism. 1,642,501; Sept. 13.
- Knepper, Harry H., Detroit, Mich. Spring structure for cushions or mattresses. 1,648,951; Nov. 15.
- Knerr, Hugh J., Hampton, Va. Mileage meter. 1,664,421; Dec. 27.
- Kness, Austin E., Audubon, Iowa. Pruning saw. 1,646,484; Oct. 25.
- Knekerbocker Case Company. (See Labadie, H. H., and Boers, assignors.)
- Kniebusch, Frank W., Woodstock, Ill. Bowling-games apparatus. 1,647,451; Nov. 1.
- Knieriem, John, Glendale, N. Y., assignor to Metropolitan-Columbia Mfg. Co., Inc. Lighting-fixture part. Des. 71,951; Feb. 8.
- Knieriem, John, Glendale, N. Y., assignor to Metropolitan-Columbia Mfg. Co., Inc. Loop for lighting fixtures. Des. 71,982; Feb. 8.

- Knieriem, John, Glendale, N. Y., assignor to Metropolitan-Columbia Mfg. Co., Inc. Lighting-fixture canopy. Des. 72,018; Feb. 15.
- Knieriem, John, Glendale, N. Y., assignor to Metropolitan-Columbia Mfg. Co., Inc. Lighting-fixture plate. Des. 73,040; July 12.
- Knieriem, John, Glendale, N. Y., assignor to Metropolitan-Columbia Mfg. Co., Inc. Lighting-fixture plate. Des. 73,041; July 12.
- Knieriem, John, Glendale, N. Y., assignor to Metropolitan-Columbia Mfg. Co., Inc. Lighting-fixture plate. Des. 73,042; July 12.
- Knieszner, William T., et al. (See Dieterich, Ludwig M., assignor.)
- Kniffen, Roy S., Superior, Wis. Machine for replacing railway ties. 1,613,037; Jan. 4.
- Knight American Patents Company. (See Knight, Charles Y., assignor.)
- Knight American Patents Company, The. (See Knight, Charles Y., assignor.)
- Knight, Benjamin, Winona, Minn. Golf putter guide. 1,616,377; Feb. 16.
- Knight, Charles Y., Pasadena, Calif., assignor to Knight American Patents Company, Chicago, Ill. Cylinder-head construction. 1,650,939; Nov. 2.
- Knight, Charles Y., Pasadena, Calif., assignor to The Knight American Patents Company, Chicago, Ill. Mechanism for facilitating the starting of internal-combustion engines. Re16,757; Oct. 4.
- Knight, Earle R., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. 1,631,737; June 7.
- Knight, George H., Waterbury, Vt. Door hanger. 1,639,378; Aug. 16.
- Knight, George H., assignor to The Hendey Machine Company, Torrington, Conn. Bull-gear inclosure for crank-shaping machines. 1,624,954; Apr. 19.
- Knight, Henry J., Vancouver, British Columbia, Canada. Gear puller. 1,631,872; June 7.
- Knight, Herbert M., Montclair, N. J. Key and keyway. 1,617,527; Feb. 15.
- Knight, Ira, Midland, Mich. Wheel runner. 1,631,873; June 7.
- Knight, Ira W., Cranston, assignor to General Fire Extinguisher Company, Providence, R. I. Testing device for booster-pump dry-pipe systems. 1,633,107; June 21.
- Knight, Ira W., Cranston, assignor to General Fire Extinguisher Company, Providence, R. I. Valve apparatus. 1,633,108; June 21.
- Knight, Ira W., Cranston, assignor to General Fire Extinguisher Company, Providence, R. I. Valve apparatus. 1,633,109; June 21.
- Knight, Lewis, Plainview, Tex. Aeroplane toy. 1,615,986; Feb. 1.
- Knight, Louis A., McGregor, Iowa. Wheelbarrow attachment. 1,618,443; Feb. 22.
- Knight, Ralph P. (See Shipley, Jack, assignor.)
- Knighaton, Daniel W., et al. (See Bott, Wister P., assignor.)
- Knigoff, Leo, New York, N. Y. Radiodial. 1,646,648; Oct. 25.
- Knipp, Charles T., Urbana, Ill. Demonstrating and visualizing the track of alpha rays. 1,617,397; Feb. 15.
- Knipping, Hugo W., Hamburg, Germany. Process of and apparatus for ascertaining the change of gaseous matter in human bodies. 1,641,817; Sept. 6.
- Knipple, James D., Johnstown, Pa. Metal-cutting tool. 1,629,687; May 24.
- Knipschild, Frederick P., Oakland, Calif. Drier or dehydrating plant. 1,645,760; Oct. 18.
- Knischewski, Emil O., Hamilton, Ontario, Canada. Goal-keeper's guard. 1,647,452; Nov. 1.
- Kniskern, Floyd B., and J. R. Shuster, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Switch mechanism. 1,652,484; Dec. 13.
- Kniskern, Walter H., Syracuse, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Process and apparatus for treatment of gas containing carbon monoxide. 1,614,072; Jan. 11.
- Kniskern, Walter H., Syracuse, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. High-pressure joint. 1,617,451; Feb. 15.
- Kniskern, Walter H., assignor to Atmospheric Nitrogen Corporation, Syracuse, N. Y. Heat exchanger. 1,640,120; Nov. 15.
- Knistrom, Joseph, assignor of one-half to E. L. Johnson and one-half to O. Lundsten, Attleboro, Mass. Belt buckle. 1,620,157; Mar. 8.
- Knittel, Adam, Tyner, Tenn. Gasoline-tank lock. 1,620,902; Mar. 15.
- Knittel, Adam, Tyner, Tenn. Filling-station valve and key. 1,629,797; May 24.
- Knittel, Andrew W., deceased, New Castle, Pa.; M. Knittel, administratrix. Curtain stretcher. 1,645,245; Oct. 11.
- Knittel, Mary, administratrix. (See Knittel, Andrew W.)
- Knitter, William J., North Tonawanda, N. Y. Clothesline fastener. 1,650,364; Nov. 22.
- Knoche, Edward, Wheatland, Iowa. Stand. 1,653,772; Dec. 27.
- Knochl, Leo, Vienna, Austria. Spring hammer. 1,639,459; Aug. 16.
- Knocke, Louis T., Waukesha, Wis. Centrifugal casting machine. 1,615,877; Feb. 1.
- Knocke, Louis T., Waukesha, Wis. Continuous centrifugal casting machine. 1,684,150; June 28.
- Knoerzer, Otto, Hammond, Ind. Tractor-driven potato digger. 1,650,991; Nov. 29.
- Knofe, Karl R., Dresden, Germany, assignor of one-half to T. Mamen and one-half to J. Edwards, Brooklyn, N. Y. Making imitation marble. 1,637,946; Aug. 2.
- Knoll, Anton, New Bedford, Mass. Hair net. 1,653,182; June 21.
- Knoll & Co. (See Schmidt, K. F., and Zutavern, assignors.)
- Knoll, John. (See Nystrom, O. P., and Knoll.)
- Knoll, Lloyd M., Philadelphia, Pa., assignor to Federal Telegraph Company, San Francisco, Calif. Radio system. Re16,834; Dec. 27.
- Knoll, William J., assignor to H. B. Rouse & Company, Chicago, Ill. Strip cutter. 1,647,233; Nov. 1.
- Knollena, Jacqueline, San Francisco, Calif. Decorating fabric. 1,618,832; Feb. 22.
- Knoop, William A., East Northport, assignor to Western Electric Company, Incorporated, New York, N. Y. Sweep circuits for cathode-ray oscillographs. 1,618,954; Jan. 11.
- Knopf, E. (See Larson, C. M., and Knopf.)
- Knopp, John E., Tulsa, Okla. Box closer. 1,625,033; Apr. 19.
- Knopp, Otto A., Oakland, Calif. Heater and drier. 1,637,488; Aug. 2.
- Knopp, Rudolph, New York, N. Y. Combination motion-picture camera and display apparatus. 1,624,103; Apr. 12.
- Knopp, Vernon E., Delta, Pa. Card holder. 1,616,975; Feb. 8.
- Knorpp, Philip J., assignor to N. D. Q. Specialty Corporation, Brooklyn, N. Y. Display holder. 1,622,726; Mar. 25.
- Knorre, William J., assignor of one-half to G. C. Ealy, Spokane, Wash. Motion-picture apparatus. 1,628,250; May 10.
- Knothe, Herman, Richmond Hill, N. Y. Pipe-cutting machine. 1,617,514; Feb. 15.
- Knott, Admiral S., Columbus, Ohio. Automatic advertising projection apparatus. 1,617,642; Feb. 15.
- Knott, Frank W., assignor to Detroit Belt Lacer Co., Detroit, Mich. Belt-hook-closing machine. 1,619,137; Mar. 1.
- Knott, Harry H., Washington, Iowa, assignor, by mesne assignments, to Washington Manufacturing Company, Wilmington, Del. Machine for making pearl-button blanks. 1,653,294; Dec. 20.
- Knott, Warren R., Grand Rapids, Mich. Chuck. 1,636,421; July 19.
- Knott, William, Grand Rapids, Mich. Saw grinder. 1,647,366; Nov. 1.
- Knotts, Charles L., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer-cooling system. 1,624,346; Apr. 12.
- Knott, Glenn R. (See Skelton, Earl W., assignor.)
- Knottwell, Glenn R., assignor of one-half to E. W. Skelton, Wauneta, Nebr. Tractor guide. 1,633,334; June 21.
- Knowles, Alexander S., New York, N. Y., and C. V. McIntire, East Orange, N. J., assignors to Tar & Petroleum Process Company, Chicago, Ill. Rectangular sand-cake oven. 1,635,280; July 12.
- Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Hob-grinding machine. 1,617,159; Feb. 8.
- Knowles, E. B. (See Phelan, John A., assignor.)
- Knowles, Frank W., Seattle, Wash. Compressor. 1,629,798; May 24.
- Knowles, Frederick A. (See Donald, William H., assignor.)
- Knowles, George H., Minneapolis, Minn. Receptacle. 1,624,955; Apr. 19.
- Knowles, Harvey C., assignor to The Procter and Gamble Company, Cincinnati, Ohio. System for conveying and inspecting soap. 1,636,235; July 19.
- Knowles, Roscoe C., assignor to V. B. Fitts, Quinton, Ala. Valve mechanism for internal-combustion engines. 1,642,156; Sept. 13.
- Knowl, William D., Oakland, Calif. Electric-current-dispensing device. 1,649,354; Nov. 15.
- Knowles, William H., Port Chester, N. Y. Bottle closure. 1,619,138; Mar. 1.
- Knowles, William L., Fostoria, Ohio. Jack. 1,638,859; Aug. 16.
- Knowlton, Daniel E., Buffalo, and E. W. Donnigan, Alden, N. Y. Handling and preserving fish and the like. 1,621,257; Mar. 15.
- Knowlton, Eugene W., assignor to John E. Smith's Sons Co., Buffalo, N. Y. Attachment for meat-cutting machines. 1,623,795; Apr. 5.
- Knowlton, Eugene W., assignor to John E. Smith's Sons Company, Buffalo, N. Y. Sausage stuffer. 1,628,726; May 17.
- Knowlton, Harry N., St. Paul, Minn., assignor to General Electric Company. Packing case. 1,640,452; Aug. 30.
- Knowlton, M. D., Company. (See Hawkins, Edgar M., assignor.)
- Knowlton, M. D., Company. (See Seymour, Charles R., assignor.)
- Knox, Charles P., Newark, and I. Simons, Passaic, N. J. Leveling means for railway cars. 1,616,976; Feb. 8.
- Knox, George F., Milwaukee, Wis. Automatic differential expansion valve. 1,616,129; Feb. 1.

- Knox, George F., Milwaukee, Wis. Valve for refrigerating systems. 1,616,130; Feb. 1.
- Knox, George F., assignor to Knox Refrigeration Co., Milwaukee, Wis. Compressor piston. 1,616,128; Feb. 1.
- Knox, Glen, Gunn, Wyo., assignor to Link-Belt Company, Chicago, Ill. Loading boom. 1,617,490; Feb. 15.
- Knox, Harry A., Davenport, Iowa. Trackless vehicle. 1,622,078; May 17.
- Knox, John, Chatham, N. J., assignor to Dwight & Lloyd Sintering Co., Inc., New York, N. Y. Sintering machine. 1,618,205; Feb. 22.
- Knox, Kate A. (See Knox, Luther L., assignor.)
- Knox, Luther L., Bellevue Borough, and W. H. Lewis, Pittsburgh, Pa. Portioning machine. 1,640,126; Aug. 23.
- Knox, Luther L., Bellevue, assignor to Knox Products Company, Pittsburgh, Pa. Compound insulated structure. 1,650,279; Nov. 22.
- Knox, Luther L., Bellevue, assignor to Knox Products Company, Pittsburgh, Pa. Portioning apparatus. 1,653,807; Dec. 27.
- Knox, Luther L., assignor to K. A. Knox, Bellevue, Pa. Open-hearth furnace. 1,621,258; Mar. 15.
- Knox, Orville M., assignor of one-third to L. G. Archer, Kewanee, N. H., and J. Pole. 1,641,227; Sept. 6.
- Knox Products Company. (See Knox, Luther L., assignor.)
- Knox Refrigeration Co. (See Knox, George F., assignor.)
- Knox, Robert P., Oakland, Calif. Gripper block for printing press. 1,642,187; Sept. 18.
- Knox, Walter F., Chicago, Ill. Radiator hanger. 1,625,473; Apr. 19.
- Knudsen, Frank G. (See Bechman, W. O., and Knudsen.)
- Knudsen, Hans, Schleswig, Iowa. Folding farrowing house. 1,636,942; July 12.
- Knudsen, Krestine, Oakland, Calif. Doll. Des. 73,088; July 19.
- Knudsen, Niels, Ogden, Utah. Tile-pipe holder. 1,638,343; Aug. 9.
- Knudsen, Paul A., Milwaukee, Wis. Bumper. 1,615,633; Aug. 25.
- Knudsen, William S., assignor to General Motors Corporation, Detroit, Mich. Making poppet valves. 1,644,021; Oct. 4.
- Knudson, Barney A., Santa Ana, Calif. Rotary valve for combustion engines. 1,649,779; Nov. 15.
- Knudson, Edwin H. (See O'Brien, J., and Knudson.)
- Knudson, Emma R., Jewell, Iowa. Laundry clothes-handling apparatus. 1,630,189; May 24.
- Knudson, Emma R., Jewell, Iowa. Locking hoisting tackle. 1,650,281; Nov. 22.
- Knut, Sergeant P., Washington, D. C. Sound magnifier. 1,610,981; Mar. 8.
- Knutsen, John B. M., Elizabeth Bay, near Sydney, New South Wales, Australia. Electric lift machine and the like. 1,623,349; Apr. 5.
- Knutsen, John B. M., Potts Point, near Sydney, New South Wales, Australia. Apparatus for the control and operation of electric lifts and the like. 1,639,190; Aug. 16.
- Knutsen, C. J. (See Knauff, Ulysses G., assignor.)
- Kny-Scheerer Corporation of America. (See Gallowitz, Gustave A., assignor.)
- Kny-Scheerer Corporation of America, The. (See Hollander, Edward, assignor.)
- Kobau, Carlos, Campana, Argentina. Apparatus for automatically charging containers with predetermined and adjustable amounts of liquids or the like. 1,653,106; Dec. 20.
- Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Sulphur composition. 1,612,869; Jan. 4.
- Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Container. 1,614,737; Jan. 18.
- Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Monolithic structure and making same. 1,647,528; Nov. 1.
- Kobe, Inc. (See Coberly, Clarence J., assignor.)
- Kobe, Incorporated. (See Coverley, Clarence J., assignor.)
- Kobels, Albert, Los Angeles, Calif., assignor, by mesne assignments, to L & W Corporation. Blowing mineral wool. 1,650,136; Nov. 22.
- Koberling, Joseph, Tulsa, Okla. Wall ornamentation. 1,647,181; Nov. 1.
- Kobernik, Julius B., assignor to Newton Process Manufacturing Co., Fullerton, Calif. Apparatus for treating hydrocarbons. 1,613,352; Jan. 4.
- Kobernik, Julius B., assignor to Newton Process Manufacturing Co., Fullerton, Calif. Heat exchanger. 1,648,646; Nov. 8.
- Kobike, Adolf M., Gilderoy, Victoria, Australia. Apparatus for drying and seasoning timber. 1,625,548; Apr. 19.
- Kobiolke, Adolph M., Gilderoy, via Garra Junction, Victoria, Australia. Vacuum-producing apparatus. 1,622,155; Mar. 22.
- Kobler, Harry, New York, N. Y. Pad for ironing boards. 1,636,913; July 26.
- Koca, James F. (See Iokanson, O. A., and Koca.)
- Koca, James F., assignor to Woodstock Typewriter Company, Woodstock, Ill. Case-shift mechanism. 1,640,127; Aug. 28.
- Koch, August W., Hanover-Kleefeld, Germany. Fertilizer-distributing machine. 1,628,546; May 10.
- Koch, Charles N., Kane, Pa. Combustion turbine. 1,653,217; Dec. 20.
- Koch, Felix, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Vestibule guard for articulated cars. 1,637,193; July 26.
- Koch, Felix, Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Anchorage for vestibule members of articulated cars. 1,642,359; Sept. 20.
- Koch, Fred C. (See Winkler, L. E., and Koch.)
- Koch, Frederick, Newark, N. J., assignor to U. S. Tool Company, Inc. Vernier condenser. 1,631,738; June 7.
- Koch, Henry, Jamaica, N. Y., assignor to Dictograph Production Corporation, New York, N. Y. Dictograph receiver. 1,621,845; Mar. 22.
- Koch, Henry, Jamaica, and F. H. N. Wohlers, Hempstead, N. Y., assignors to Dictograph Products Corporation. Telephone receiver. 1,647,182; Nov. 1.
- Koch, John, Eustis, Nebr. Feed grinder. 1,632,341; June 14.
- Koch, Louis J. (See Kress, T., and Koch.)
- Koch, Lydia B., assignor to Reinforced Paper Bottle Corporation, New York, N. Y. Bottle. 1,632,187; June 14.
- Koch, Paul W., Chicago, Ill., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Manhole switch. 1,639,569; Aug. 16.
- Koch, Paul W., & Company. (See Schreiner, John, assignor.)
- Koch, Peter. (See Bastian, C. L., and Koch.)
- Koch, William, et al. (See Schuman, Bror M., assignor.)
- Kocha, Joseph E., Linden, N. J. Veneer drier. 1,642,928; Sept. 20.
- Kochan, Frank. (See Kent, W. J., Martin, and Kochan.)
- Kochenderfer, William B., Camden, N. J. Hydraulic press. 1,633,037; May 31.
- Kochenderfer, Frederic S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for heat treating metals. 1,624,668; Apr. 12.
- Kochenderfer, Frederic S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Fibrous articles and producing such articles. 1,646,825; Oct. 25.
- Kochenderfer, Frederic S., River Forest, and A. E. Schulz, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for heat treating metals. 1,639,215; Dec. 20.
- Kocher, Louis, Omaha, Nebr. Window shutter. 1,638,344; Aug. 9.
- Köchling, Wilhelm, Waldmannslust-Berlin, Germany, assignor to General Electric Company. Single-phase transformer. 1,653,107; Dec. 20.
- Kochner, William B. (See Galvin, J. F., and Kochner.)
- Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Terminal plug and sheath for electric cables. 1,643,462; Sept. 27.
- Kocsis, Julius, Short Hills, N. J., Safety envelope. 1,650,484; Dec. 27.
- Kodak Radio Corporation, The. (See Ogden, Clarence E., assignor.)
- Koeb, Emil. (See Goldsmith, B. J., and Koeb.)
- Koeb, Emil, Tuckahoe, assignor, by mesne assignments, to Perfect Window Regulator Corporation, New York, N. Y. Window regulator. 1,629,277; May 17.
- Koeb, Emil, and B. J. Goldsmith, assignors to Perfect Window Regulator Corporation, New York, N. Y. Mounting construction. 1,633,182; June 21.
- Koebeke, Albert P., Mount Violet, Victoria, Australia. Vehicular leaf spring. 1,622,727; Mar. 28.
- Koegel, John G., assignor of one-half to H. Boelter, Toledo, Ohio. Ladle. 1,624,553; Apr. 12.
- Koegel, John G., assignor of one-half to H. Boelter, Toledo, Ohio. Casting machine. 1,627,098; May 3.
- Koehler, John E. (See Paul Raymond, assignor.)
- Koehler Manufacturing Company. (See Albee, William H., assignor.)
- Koehler, William, Cleveland, Ohio. Production of magnesium from magnesite compounds. 1,650,893; Nov. 29.
- Koehler, William, Cleveland, Ohio. Production of magnesium from dolomite. 1,650,894; Nov. 29.
- Koehn, August W., Oshkosh, Wis., assignor to The Dearborn Company, Chicago, Ill. Card table. 1,630,851; May 31.
- Koehn, Daniel W., assignor of one-third to G. G. Dixon, Galva, and one-third to H. G. Rolf, McPherson, Kans. 1,621,418; Mar. 15.
- Koehn, John H., Atkins, Iowa. Rope cutter. 1,621,672; Mar. 22.
- Koehring Company. (See Koehring, Philip A., assignor.)
- Koehring Company. (See Lichtenberg, Erick H., assignor.)
- Koehring Company. (See Menningen, Adolph C., assignor.)
- Koehring Company. (See Montag, Edward H., assignor.)
- Koehring Company. (See Tranta, Emil L., assignor.)
- Koehring Company. (See Robb, John F., assignor.)
- Koehring Company. (See Russell, Leslie A., assignor.)
- Koehring Company. (See Webb, George E., assignor.)
- Koehring, Philip A., assignor to Koehring Company, Milwaukee, Wis. Twin-mixer concrete-paving machine. 1,623,622; Apr. 5.
- Koelkebeck, Carl W. A., Pittsburgh, Pa. Music rack. 1,618,760; Feb. 22.

- Koelliker, George P. (See Bensing, Le Rue P., assignor.)
 Koelliker, George P., et al. (See Keeler, Lewis J., assignor.)
 Koelling, Edward A., jr., St. Louis, Mo. Loose-leaf binder. 1,646,697; Oct. 25.
 Koelling, William F., Berwyn, Ill. Combined parting bead and weather strip. 1,653,632; Dec. 27.
 Koeln, Christian C., assignor to Davis Boring Tool Company, St. Louis, Mo. Device for stoning cutters. 1,613,174; Jan. 4.
 Koelin, Ferdinand F., Los Angeles, Calif. Bolt. 1,653,015; Dec. 20.
 Koening, Alphonse L., Chicago, Ill. assignor to The Koening Carbonators, (Inc.) Carbonator. 1,632,409; June 14.
 Koening Carbonators, (Inc.), The. (See Koening, Alphonse L., assignor.)
 Koening, Joseph, Manitowoc, Wis. Hot-air engine. 1,613,038; Jan. 4.
 Koening, Joseph, Manitowoc, Wis. Hot-air engine. 1,614,962; Jan. 18.
 Koening, Joseph, Manitowoc, Wis. Hot-air motor. 1,618,594; Feb. 22.
 Koening, Joseph, Manitowoc, Wis. Hot-air motor. 1,644,256; Oct. 4.
 Koening, Joseph B., Two Rivers, Wis. Hot-air motor. 1,614,961; Jan. 18.
 Koening, Lloyd R., St. Louis, Mo. Oscillator. 1,650,280; Nov. 22.
 Koening, Otto A., San Francisco, Calif. Surfacing machine. 1,653,108; Dec. 20.
 Koening, Remus, assignor to Metal Ware Corporation, Two Rivers, Wis. Toy electric range. 1,632,445; June 14.
 Koening, Robert H., Haddon Heights, N. J., assignor to Ruth Glass Company, Conshohocken, Pa. Machine for shaping ends of glass tubes. 1,643,215; Sept. 20.
 Koeningkramer, Frederick, Cincinnati, Ohio. Instrument supporting and adjusting apparatus. 1,653,938; Aug. 16.
 Koeningkramer, Frederick, Cincinnati, Ohio. Instrument-supporting apparatus. 1,638,939; Aug. 16.
 Koeningberg, Kurt, Seattle, Wash. Hollow-arm signal. 1,623,187; Jan. 10.
 Koenitz, Arthur C. (See Wappler, F. H., and Koenitz.)
 Koepke, Frederick J. (See Klingensmith, S. L., and Koepke.)
 Koeppe, Herman, Wallowa, Oreg. Spacing arrangement of bee frames. 1,637,002; July 26.
 Koeppe, Rudolph, & Co. (See Bredig, G., and Elöd, assignors.)
 Koeppe, Rudolph, & Co. (See Elöd, Egon, assignor.)
 Koeppe, Herman F., Detroit, Mich. Tank. 1,620,471; Mar. 8.
 Koerner, Ewald, Dresden, Germany. Cigarette-making machine. 1,614,738; Jan. 18.
 Koerner, Ewald, Dresden, Germany, assignor to United Cigarette Machine Co. Inc., Lynchburg, Va. Tobacco-cutting machine. 1,618,096; Feb. 15.
 Koesser, Earl W., Minneapolis, Minn. Egg carton. 1,653,633; Dec. 20.
 Koester, Henry, Irvington, N. J. Clothesline cleaner. 1,633,382; June 21.
 Kofford, Earl J., assignor to Denver Ice & Cold Storage Company, Denver, Colo. Elevating platform for trucks. 1,633,024; June 21.
 Kofsky, George, New Orleans, La. Nautical instrument. 1,640,328; Aug. 23.
 Kofod, Hans C. (See Moyer, J. M., and Kofod.)
 Koford, James M. (See Van Emon, Burton C., assignor.)
 Koford, James M., trustee. (See Van Emon, Burton C., assignor.)
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,788; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,789; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,790; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,791; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,792; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,793; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,794; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,795; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,796; Nov. 8.
 Kofsky, Henry M., and H. E. Gimbel, Philadelphia, Pa. Plaque. Des. 73,797; Nov. 8.
 Koger, John J., Rogersville, Tenn. Draft connection for plows, etc. 1,613,462; Jan. 4.
 Korge, Arthur H., Jersey City, N. J. Display device. 1,632,607; June 14.
 Kogstrom, Alex W., Upper Darby, assignor of one-half to A. F. H. Scott, Philadelphia, Pa. End connection for vehicle springs. 1,623,844; Apr. 5.
 Kogstrom, Alex W., Upper Darby, assignor of one-half to A. F. H. Scott, Philadelphia, Pa. End connection for vehicle springs. 1,623,845; Apr. 5.
 Kogstrom, Alex W., Upper Darby, assignor of one-half to A. F. H. Scott, Philadelphia, Pa. Filter. 1,633,818; June 28.
 Kohlberg, Alfred, Bronxville, N. Y. Embroidered tablecloth or similar article. Des. 73,917; Nov. 22.
 Kohlberg, Alfred, Bronxville, N. Y. Embroidered tablecloth or similar article. Des. 73,918; Nov. 22.
 Kohlberg, Alfred, Bronxville, N. Y. Embroidered tablecloth or similar article. Des. 73,919; Nov. 22.
 Kohlberger, Frank, Whitestone, assignor to International Motor Company, New York, N. Y. Seat for vehicles. 1,655,210; Dec. 20.
 Kohlman, Anthony M., East Liverpool, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Monolithic structure and making the same. 1,631,322; June 7.
 Köhler, August, assignor to the Firm Carl Zeiss, Jena, Germany. Microscope. 1,649,068; Nov. 15.
 Kohler Company. (See Brotz, Antof, F., assignor.)
 Kohler Company. (See Brotz, Frank G., assignor.)
 Kohler Company. (See Watson, Thomas S., assignor.)
 Kohler, Jack D., Miami, Fla. Holder for confections and napkins. 1,623,926; Apr. 5.
 Kohler, John F., Larchmont Manor, N. Y. Coconut-shelling machine. 1,645,600; Oct. 18.
 Kohler, Ulrich, assignor to Hasler A. G. vormalis Telegraphenwerkstätte von G. Hasler, Bern, Switzerland. Driving device of counting mechanism in machines for franking postal matter and the like. 1,620,665; Mar. 15.
 Kohler, Walter R., assignor to Janesville Products Company, Janesville, Wis. Coaster wagon. 1,637,614; Aug. 2.
 Kohlmeier, Benjamin and E. C., Manitowoc, Wis. Vehicle radiator heater. 1,650,219; Nov. 22.
 Kohlmeier, Earl C. (See Kohlmeier, Benjamin and E. C.)
 Kohlmeier, George, College Point, assignor to American Hard Rubber Company, Hempstead, N. Y. Comb. Des. 73,133; July 26.
 Kohman, Henry A., Pittsburgh, Pa., assignor to The Fleischmann Company, New York, N. Y. Manufacture of bread. 1,651,717; Dec. 6.
 Kohman, Henry A., Pittsburgh, Pa., assignor to The Fleischmann Company, New York, N. Y. Manufacture of bread. 1,651,718; Dec. 6.
 Kohman, Henry A., Pittsburgh, Pa., assignor to The Fleischmann Company, New York, N. Y. Manufacture of bread. 1,652,328; Dec. 13.
 Kohman, Henry A., Roy Irvin, and E. S. Stetler, Pittsburgh, Pa., assignors to G. S. Ward, New York, N. Y. Coagulating or curdling milk. 1,654,176; Dec. 27.
 Kohn, Charles F., South Orange, N. J. Fastening device. 1,626,138; Apr. 26.
 Kohn, Koby, New York, N. Y., assignor to Victory Sparkler & Specialty Co., Elkton, Md. Color changer for sparklers and analogous lights. 1,620,560; Mar. 8.
 Kohn, Koby, New York, N. Y., assignor to Victory Sparkler & Specialty Co., Elkton, Md. Amusement and protective device. 1,620,561; Mar. 8.
 Kohn, Milton M., New York, N. Y. Heating unit. 1,636,372; July 19.
 Kohn, Milton M., New York, N. Y. Automatically controlled vulcanizer. 1,648,586; Nov. 8.
 Kohn & Pollock, Inc. (See Pollock, Julian G., assignor.)
 Kohn, Rudolf V., Cedarhurst, assignor to The De Luxe Clock and Manufacturing Company, Inc., New York, N. Y. Clock casing. 1,619,674; Mar. 1.
 Kohn, Samuel, New York, N. Y., assignor to Mergenthaler Linotype Company. Escapement mechanism for typographical machines. 1,648,136; Nov. 8.
 Kohn, Sigmund F., New York, N. Y. Ironing board. 1,616,905; Feb. 8.
 Kohn, Sigmund F., New York, N. Y. Folding refrigerator. 1,644,677; Oct. 11.
 Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Tag price-marking machine. 1,631,933; June 7.
 Koholyrt Aktiengesellschaft. (See Colditz, W., and Thommel, assignors.)
 Kohout, Addison S., Reading, Pa., assignor to Smith, Drum & Company, Philadelphia, Pa. Paddle wheel for dyeing machines. 1,648,771; Nov. 8.
 Koiyu, Alfred A., New York, N. Y. Concrete building construction. 1,618,999; Feb. 8.
 Koken, L. V., et al. (See Criner, Harry J., assignor.)
 Kolbe, Robert E., Erie, Pa. Freezing method. 1,641,441; Sept. 6.
 Kolbe, Viktor M., Berlin, Germany. Device for rendering advertisements luminous by the opening or closing of doors. 1,640,001; Aug. 23.
 Kolbeck, Ebbe S., San Diego, Calif. Leaf-spring assembling machine. 1,648,405; Nov. 8.
 Kole, Lessing L., and E. Loeffler, Milwaukee, Wis. Vanity case. 1,642,780; Sept. 20.
 Kolinger, Thomas, and L. Habunek, Martins Ferry, Ohio. Automatic counter for miners' cars. 1,621,419; Mar. 15.
 Kolisch, Paul. (See Alendoff, Fritz, assignor.)
 Koll, Henry R., Omaha, Neb. Meat hanger. 1,618,833; Feb. 22.
 Koll, Louis, assignor to Stuber & Kuck Co., Peoria, Ill. Can. Des. 73,923; May 24.
 Koll, John F., assignor to Holland Furnace Company, Holland, Mich. Furnace-water-pan construction. 1,619,261; Mar. 1.
 Kollath, Francis C., Chicago, Ill. Amplifier. 1,647,736; Nov. 1.
 Koller, Henry, Chicago, Ill. Combined rear automobile window and warning signal. 1,646,617; Oct. 25.

- Koller, John, assignor to The American Coal Chute Co., Newark, N. J. Drying oven. 1,618,380; Feb. 22.
- Kollock, Theodore. (See Sauveter, H., and Kollinek.)
- Kollman, Amos C., assignor of one-half to H. Kenimer, San Antonio, Tex. Dirigible headlight. 1,617,160; Feb. 8.
- Kollman, Melvin L., Sioux City, Iowa, and E. L. Klappal, Witton, S. Dak. Seed-cleaning machine. 1,625,558; Apr. 26.
- Kollmorgen, Hans. (See Heymer, Paul, assignor.)
- Kollock, Lemuel E., Boston, Mass. Pipe-joint filling spout. 1,623,058; Apr. 5.
- Kollstedt, Alfred G. (See Ruprecht, L., and Kollstedt.)
- Kollstedt, George, Providence, R. I. Strap for personal wear. 1,619,138; Mar. 1.
- Kollstedt, George, Providence, R. I. Snap fastener. 1,636,914; July 26.
- Kolmar Laboratories. (See Marsek, Frederick A., assignor.)
- Kolmer, Wilhelm, and E. Wirsching, assignors to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Two-revolution fast printing press. 1,650,282; Nov. 22.
- Kolmer, Wilhelm, and E. Wirsching, assignors to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Roller inking apparatus for fast printing presses. 1,650,283; Nov. 22.
- Kolmiz, Louis F., New Kensington, Pa. Geometrical instrument. 1,623,623; Apr. 5.
- Kolodziel, Edward J., Buffalo, N. Y. Shock absorber. 1,651,895; Dec. 6.
- Kolsmith, George, assignor to Reynolds Spring Company, Jackson, Mich. Base frame for spring structures. 1,650,284; Nov. 22.
- Kolstad, Ole O., Duluth, Minn. Mail box. 1,640,153; Aug. 23.
- Kolstad, Ole O., Duluth, Minn. Mail box. 1,640,154; Aug. 23.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radio receiving apparatus. 1,636,570; July 19.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Electron-tube apparatus. 1,637,864; Aug. 2.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Multiple variable condenser. 1,641,593; Sept. 6.
- Kolster, Frederick A., Washington, D. C., assignor to Federal Telegraph Company, San Francisco, Calif. Radiocompass. 1,637,615; Aug. 2.
- Kolster, Frederick A., and S. A. Solle, Palo Alto, assignors to Federal Telegraph Company, San Francisco, Calif. Electromagnetic sound reproducer. 1,637,119; July 26.
- Koltboff, Helge G. L., Vanersborg, Sweden. Self-locking nut. 1,623,686; Apr. 5.
- Kolumbus, John, Philadelphia, Pa. Window screen. 1,653,184; Dec. 20.
- Konrad, Gustav, Chicago, Ill., assignor to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Driver. 1,641,337; Sept. 6.
- Konrath, Albert J., assignor to The Excelsior Hardware Company, Stamford, Conn. Trunk lock and drawbolt. 1,625,876; Dec. 13.
- Kondatien, Daniel, Newark, N. J. Bending press. 1,645,868; Oct. 18.
- Kondolf, Henry E., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Tag and making same. 1,640,195; Aug. 23.
- Kondolf, Henry E., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Tag. 1,640,196; Aug. 23.
- Kondolf, Henry E., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Tag. 1,642,781; Sept. 20.
- Kondolf, Henry E., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Method and apparatus for making tags. 1,645,018; Oct. 15.
- Kondolf, Mathias R., Cynwyd, assignor to Boxboard Products Company, Philadelphia, Pa. Packing. 1,626,344; Apr. 26.
- Kinemann, Hermann H., Munster, Germany. Vacuum tube. 1,642,210; Sept. 13.
- Kinerman, Harry H., and A. E. Imbus, assignors to The Globa Refractor Company, Cincinnati, Ohio. Feeding device for roll stationers. 1,620,666; Mar. 15.
- Konheim, Harvey S. (See Albersheim, W. J., and Konheim.)
- Kinkele, Hildegard M. G., assignor to E. K. A. Voigt, Hamburg, Germany. Ornamental foot covering. 1,640,838; Aug. 30.
- Kinkele, Hildegard, assignor to the Firm Carl Zeiss, Jena, Germany. Telescope objective. 1,616,751; Feb. 8.
- Kinzig, Fritz, & Co. Gesellschaft mit beschränkter Haftung. (See Hanel, Franz, assignor.)
- Kinzig, Otto, Bar Reichelshausen, Germany. Respiration belt. 1,647,290; Nov. 1.
- Kinzig, Willem. (See De Jong, H., and Konling.)
- Konig, Willem, Eindhoven, Netherlands, assignor to General Electric Company. Exhausting machine. 1,628,410; May 10.
- Konishi Kotakudo Company. (See Tobita, Toshio, assignor.)
- Konoff, Alexander, assignor to Overland Metal Novelty Co. Inc., New York, N. Y. Eye set. 1,619,824; Mar. 8.
- Konoff, Alexander, assignor to Overland Metal Novelty Co. Inc., New York, N. Y. Doll's eyes with lashes. 1,620,667; Mar. 15.
- Konoff, Alexander, assignor to Overland Metal Novelty Co. Inc., New York, N. Y. Eye set. 1,621,072; Mar. 15.
- Konoff, Alexander, assignor to Overland Metal Novelty Co. Inc., New York, N. Y. Attaching doll eyes. 1,621,073; Mar. 15.
- Konoff, Alexander, New York, N. Y., assignor to Voices Incorporated, Wilmington, Del. Post structure for voice devices. 1,635,350; July 12.
- Konrad, Otto, Oshkosh, Wis. Reinforcing concrete floors. 1,623,252; Apr. 5.
- Konrad, Otto, assignor to Three C Davenport Company, Oshkosh, Wis. Foldable bed couch. 1,623,251; Apr. 5.
- Konta, Alexander. (See Pirquet, Clemens, assignor.)
- Koos, John F., Alexis, Ill. Valve-pin replacer. 1,633,110; June 21.
- Koontz, Charles E., Baltimore, Md. Fire-alarm apparatus. 1,628,547; May 10.
- Koontz, Lionel E., East Palestine, Ohio. Adjustable support for range boilers. 1,645,197; Oct. 11.
- Koop, Joseph C., Newark, N. J. Support for folding doors. 1,635,947; July 26.
- Koop, William, New York, N. Y. Page turner for music notebooks. 1,653,634; Dec. 27.
- Kooperstein, Louis, assignor to West Disinfecting Company, New York, N. Y. Soap valve. 1,626,939; May 3.
- Koos, Lawrence E. (See Kelly, S. L., and Koos.)
- Kootz, Arthur C. (See Schneider, William H., assignor.)
- Kootz, Arthur C., assignor to Gem Hammock & Fly Net Company, Milwaukee, Wis. Wash mop. 1,628,789; May 17.
- Kootz, Arthur C., assignor to The Gem Hammock & Fly Net Company, Milwaukee, Wis. Mop. 1,642,115; Sept. 13.
- Kopenhaver, Anna A., Stockton, Calif. Sanitary egg beater. 1,629,956; May 24.
- Kopp, Joseph L., East Orange, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y. Coffee product and making it. 1,637,648; Aug. 2.
- Kopf, Joseph L., East Orange, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y. Apparatus for treating a mixture such as chaff and cracked coffee. 1,649,781; Nov. 15.
- Kopp, Anton J., San Francisco, Calif. Door latch and lock mechanism. 1,618,344; Feb. 22.
- Kopp Glass, Incorporated. (See Kopp, Nicholas, assignor.)
- Kopp, John A., J. G. Guenther, F. J. Wellkamp, and C. J. Meyer, Louisville, Ky. Switch. 1,650,137; Nov. 22.
- Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass Incorporated, Swissvale, Pa. Illuminating glass bowl or globe. Des. 73,437; Sept. 13.
- Kopp, Otmar H., Brooklyn, assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,613,613; Jan. 11.
- Koppe, Alexander T., Chicago, Ill., assignor, by mesne assignments, to Directoplate Corporation, Machine for making offset press plates. Re16,567; Mar. 8.
- Koppe, Alexander T., assignor to Directoplate Corporation, Chicago, Ill. Machine for making press plates. 1,639,738; Aug. 23.
- Koppel Industrial Car and Equipment Company. (See Burner, W. L., and Kantenwein, assignors.)
- Koppel Industrial Car and Equipment Company. (See Graser, George W., assignor.)
- Koppel Industrial Car and Equipment Company. (See Schmohl, Alfred C., assignor.)
- Köppen, Wilhelm, Beckum, and C. Pfeiffer, Neubeckum, Germany. Rail or tube mill. 1,636,138; July 19.
- Koppers Company, The. (See Becker, Joseph, assignor.)
- Koppers Company, The. (See Hall, Ralph E., assignor.)
- Koppers Company, The. (See Sperr, F. W., Jr., and Jacobson, assignors.)
- Koppers Company. (See Cavett, John J., assignor.)
- Koppers Company. (See Glund, Wilhelm, assignor.)
- Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
- Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Apparatus and process for burning ceramics and the like. 1,631,536; June 7.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Fictional distillation process and apparatus. 1,646,698; Oct. 25.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Waste-heat boiler system. 1,653,635; Dec. 27.
- Koppin, Alfred O., assignor to Hudson Motor Car Company, Detroit, Mich. Rod clamp and clevis. 1,641,038; Aug. 30.
- Kopnitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. High-tension construction work. 1,614,889; Jan. 18.

- Koppleman, Morris, Brooklyn, N. Y. Manufacture of nonplaniform fibrous articles. 1,618,289; Feb. 22.
- Kops Bros., Inc. (See Kops, Waldemar, assignor.)
- Kops, Waldemar, New York, N. Y. assignor to Kops Bros., Inc. Apparel garment. 1,615,634; Jan. 25.
- Kops, Waldemar, New York, N. Y. assignor to Kops Bros., Inc. Apparel garment. 1,616,264; Feb. 1.
- Kops, Waldemar, New York, N. Y. assignor to Kops Bros., Inc. Apparel garment. 1,622,873; Mar. 29.
- Kops, Waldemar, assignor to Kops Bros., Inc. New York, N. Y. Apparel garment. 1,636,616; July 19.
- Kops, Waldemar, assignor to Kops Bros., Inc. New York, N. Y. Apparel garment. 1,637,826; Aug. 2.
- Kops, Waldemar, New York, N. Y. assignor to Kops Bros., Inc. Apparel garment. 1,653,636; Dec. 27.
- Kops, Waldemar, New York, N. Y. assignor to Kops Bros., Inc. Apparel garment. 1,654,264; Dec. 27.
- Kopygraph, Incorporated. (See Taylor, George L., assignor.)
- Korb, William, Cheviot, Ohio. Sectional bin. 1,648,277; Nov. 8.
- Koref, Fritz. (See Mayer, M., Finckh, and Koref.)
- Koref, Fritz, Berlin, Germany, assignor to General Electric Company. Device for transforming the crystal-line structure of wires. 1,629,345; May 17.
- Koref, Fritz, Charlottenberg, and H. Alterthum, Halensee, near Berlin, Germany, assignors to General Electric Company. Preparing metals with high-temperature fusing points such as tungsten and of preparing wire therefrom. 1,650,631; Nov. 29.
- Koref, Fritz, and H. Hoffmann, Berlin, Germany, assignors to General Electric Company. Preparing metals. 1,617,161; Feb. 8.
- Koref, Fritz, and K. Moers, Berlin-Charlottenburg, Germany, assignors to General Electric Company. Working refractory materials. 1,635,793; July 12.
- Koretzky, Harry M., Hoboken, N. J. Self-centering core for dry batteries. 1,654,177; Dec. 27.
- Korff, Max, New York, N. Y. assignor to J. P. Bemberg Aktien-Gesellschaft, Barmen-Rittershausen, Germany. Filter press. 1,650,138; Nov. 22.
- Korkames, Joe, Temple, Tex. Food container. 1,634,029; June 28.
- Korkames, Joe, Temple, Tex. Fishing line. 1,634,030; June 28.
- Korkames, Joe, Temple, Tex. Combined chocolate dipping table and cooler. 1,638,041; Aug. 9.
- Korn, Arthur, Berlin-Charlottenburg, Germany. Teleautographic transmission. 1,615,015; Jan. 18.
- Korn, Arthur, Charlottenburg, near Berlin, Germany. Phototelegraph. 1,618,964; Feb. 22.
- Korn, Francesca, assignor of one-half to C. Sells, San Francisco, Calif. Cake box. 1,619,429; Mar. 1.
- Korn, Louis, Houston, Tex. Collapsible container. 1,646,544; Oct. 25.
- Kornahrens, John N., Summerville, S. C. Game. 1,622,156; Mar. 22.
- Korner, John H. and F. G. Stanford, Los Angeles, Calif.; said Stanford assignor, by mesne assignments, to The Hyland Stanford Company, Inc. Toledo, Ohio. Fruit-peeling machine. 1,615,304; Jan. 25.
- Korngiebel, Gustav, Kassel, Germany. Regulator for the movements of air or smoke in flues. 1,615,588; Jan. 25.
- Kornicker, Arnold and G. Engel, New York, N. Y. Display stand. 1,627,652; May 10.
- Kornitz, Ewald E., et al. (See Jones, Ira M., assignor.)
- Kornitz, Ewald E., assignor of one-half to Carl A. Bechstein, Milwaukee, Wis. Apparatus for stretching and drying skins, leather, and other materials. 1,620,821; Mar. 15.
- Koro Electric Corporation. (See Kotchi, Charles J., assignor.)
- Koroknay, Paul, Houston, Tex. Signal lantern. 1,625,474; Apr. 19.
- Korsetz, Emil, Milwaukee, Wis. Receptacle. 1,629,728; Mar. 29.
- Korsmo, Torbjorn C., assignor to Madison-Kipp Corporation, Madison, Wis. Die-casting machine. 1,627,784; May 10.
- Korsmo, Torbjorn C., assignor to Madison-Kipp Corporation, Madison, Wis. Die-casting machine. 1,631,686; June 7.
- Korsunsky, Michael G., Jackson Heights, N. Y., now, by judicial change of name, M. G. Corson, assignor to Electro Metallurgical Company, Silver-silicon alloy and making the same. 1,643,304; Sept. 27.
- Kortenheoven, Peter, assignor to Equipment Devices Company, Chicago, Ill. Cot for poultry cars. 1,614,963; Jan. 18.
- Kortz, Conrad J., Cleveland, Ohio. Bill hook. 1,639,137; Aug. 10.
- Korvalis, John N., Los Angeles, Calif. Automobile signal. Des. 73,705; Oct. 25.
- Korvin-Kroukovsky, Boris V. (See Zimmermann, P. G., and Korvin-Kroukovsky.)
- Korwan, Harry B., Brooklyn, assignor to American Can Company, New York, N. Y. Holding device for lunch kits. 1,653,818; Mar. 29.
- Kosiancie, Valentine J., Crescent Valley, British Columbia, Canada. Hand feed for drag-saw machines. 1,637,616; Aug. 2.
- Koske, Mike, Proberta, Calif. Combination brush, comb, and mirror. 1,626,415; Apr. 26.
- Kosken, Wilho A., Boston, Mass., assignor to Steadylite Motion Picture Machine Corporation, New York, N. Y. Expandible pulley or the like. 1,628,240; Apr. 26.
- Kosloski, Franz, Glatz, Germany. Lace joint for shoes and other apparel. 1,629,713; May 24.
- Kosofsky, Morris, assignor to Keillworth Mfg. Co., Inc., New York, N. Y. Fastening means. 1,616,190; Feb. 1.
- Kostenko, Michael. (See Japolsky, N., and Kostenko.)
- Kostenko, Michael, and N. Japolsky, London, England. High-speed dynamo-electric machine for continuous current. 1,624,254; Apr. 12.
- Kostock, Paul P., Chicago, Ill. Automobile tire. 1,625,790; May 17.
- Kotchi, Charles J., assignor to Koro Electric Corporation, Chicago, Ill. Holder for electric-welding electrodes. 1,621,512; Mar. 22.
- Kothe, Bernard E. (See Hughes, C. H., and Kothe.)
- Kothe, Charles A., East Cleveland, assignor, by mesne assignments, to A. Barber, Cleveland Heights, Ohio. Automatic train-pipe connector. 1,629,578; May 24.
- Kotier, Moses G., Boston, Mass. Theft-preventing bolt. 1,640,840; Aug. 30.
- Kotlier, Jacob L. (See Lanoue, Henry S., assignor.)
- Kotlidis, Socrates K., Wilmington, Del. Toy. Des. 71,917; Jan. 18.
- Kottenbrook, Howard G. (See Arns, Harry M., assignor.)
- Kottlowski, Clarence P., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind. Chain drive. 1,624,892; Apr. 12.
- Kottmann, August, Sommerda, assignor to the Firm: Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Key mechanism for calculating and adding machines. 1,633,256; June 21.
- Kottmann, August, Sommerda, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Coupling device for calculating machines. 1,637,827; Aug. 2.
- Kottmann, August, Sommerda, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Total and subtotal mechanism. 1,647,529; Nov. 1.
- Kotzelschlag, Michael H., Tulsa, Okla. Separator. 1,637,947; Aug. 2.
- Kountzman, Joseph M. (See Thener, A. F., and Kountzman.)
- Koupal, Walter G., and J. S. Gregorius, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company. Glass-covering apparatus. 1,631,833; June 7.
- Kourtzman, Per A., Vartan, near Stockholm, Sweden. Speed-indicating apparatus. 1,632,976; June 21.
- Koury, Michael G., Cairo, Ill. Double-acting internal-combustion engine. 1,623,416; Apr. 5.
- Kovacs, Theodore, Berlin, Germany. Reservoir pen. 1,624,554; Apr. 12.
- Kovacs, Theodore, Berlin, Germany. Reservoir pen. 1,633,111; June 21.
- Kovacs, Theodore, Meran, Italy. Fountain pen. 1,633,896; June 28.
- Kovanda, Louis P., Los Angeles, Calif. Expanding plug. 1,640,128; Aug. 23.
- Kovanda, Louis P., and J. H. Hubbell, Los Angeles, Calif.; said Hubbell assignor to said Kovanda. Lining block for sewers and the like. 1,642,417; Sept. 13.
- Kovanda, Louis P., and J. H. Hubbell, Los Angeles, Calif.; said assignor to said Kovanda. Molten-metal-spraying apparatus. 1,642,418; Sept. 13.
- Kovar, John R., Owatonna, Minn. Weed and root extractor. 1,647,832; Nov. 1.
- Kovarik, Karl, assignor to H. Rosenthal, Vienna, Austria. Fastener. 1,615,176; Jan. 18.
- Kovats, John, assignor to Lorraine Metal Manufacturing Company, Bridgeport, Conn. Grapefruit corer. 1,622,874; Mar. 29.
- Kowallik, Siegfried, Pankow, Berlin, Germany, assignor to General Electric Company. Electrode steam boiler. 1,650,632; Nov. 29.
- Kowalski, Charles, Chicago, Ill. Fernery stand. Des. 72,219; Mar. 29.
- Kowalsky, Andrew, Oak Park, assignor to International Harvester Company, Chicago, Ill. Beet toppler. 1,651,030; Nov. 29.
- Kowal, Carl O., Alton, Ill. Pencil sharpener. 1,627,243; May 3.
- Kozak, Frank F., and G. Lutz, Milwaukee, Wis. Window latch. 1,653,295; Dec. 20.
- Kozelka, John, Jr., Stafford Springs, Conn. Boat construction. 1,616,500; Feb. 8.
- Kracaw, Austin B. (See Powers, Emmett, assignor.)
- Kraemer, August P., assignor to Louis Stern Company, Providence, R. I. Bracket hook. 1,621,325; Mar. 15.
- Kraemer, Louis, Yonkers, N. Y. Line-drying attachment for fishing rods. 1,627,514; May 3.
- Kraft, Charles H., Cambridge, Mass. assignor, by mesne assignments, to S. H. Sorefsky, Brooklyn, N. Y. Storage-battery-grid pasting machine. 1,626,200; Apr. 26.
- Kraft, Emil, New York, N. Y. Dishwasher. 1,653,577; Dec. 20.
- Kraft, Max, Hruschak, Czechoslovakia. Purification of burner gases and for obtaining chemically-pure sulphuric acid. 1,627,977; May 10.
- Kraft-Murphy Co. (See Murphy, Frank J., assignor.)
- Kraft, Charles H., Kansas City, Mo. Wardrobe. 1,636,236; July 19.

- Kraft, Heinrich A. E., assignor to Firma Kraft & Steudel Farb-Photographischer Papiere G. m. b. H., Dresden, Germany. Embossing appliance for photographs and the like. 1,634,466; July 5.
- Kraft, Henry P., deceased, Ridgewood, N. J.; E. J. Phillips and E. A. Darr, executors. Tire-inflating coupling and gauge. 1,614,807; Jan. 11.
- Kraft, Henry P., deceased, Ridgewood, N. J.; E. J. Phillips and E. A. Darr, executors. Water-bottle stopper. 1,641,594; Sept. 6.
- Kraft, Henry P., deceased, Ridgewood, N. J.; E. J. Phillips and E. A. Darr, executors. Valve cap. 1,654,178; Dec. 27.
- Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve. 1,615,016; Jan. 18.
- Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Constructing columns. 1,623,939; Apr. 5.
- Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Truss construction. 1,645,060; Oct. 11.
- Krag, Erik L., Chicago, Ill. Binder. 1,648,406; Nov. 8.
- Krag, Franz K. (See Nelson, John V., assignor.)
- Kragen, Thomas R., and T. A. Errett, Los Angeles, Calif. Sterilizer. 1,620,360; Mar. 5.
- Krahn, Georg, assignor to the Firm Metallstanzwerk G. m. b. H., Schwarzenberg, Germany. Device for making pins with headplates. 1,650,525; Nov. 22.
- Kraisinger, Anton J. (See Rinker, J. C., and Kraisinger.)
- Krajewski, John. (See Stos, Frank P., assignor.)
- Krauer, Philip, assignor to Ray Manufacturing Co., Brooklyn, N. Y. Spring cushion structure. 1,649,832; Nov. 22.
- Krakora, John J., Cromwell, Minn. Bread-slicing machine. 1,617,058; Feb. 8.
- Kral, Ludwig, Vienna, Austria. Magnesium burner and lamp. 1,653,963; Dec. 27.
- Kralik, Blanche R., Chicago, Ill. Baking utensil. 1,637,617; Aug. 2.
- Krall, Stanley. (See Shepard, N. A., and Krall.)
- Krall, Stanley, Longmeadow, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizing tires. 1,627,785; May 10.
- Kramer, Andrew A., Kansas City, Mo. Tank. 1,614,561; Jan. 18.
- Kramer, Andrew A., Kansas City, Mo. Liquid level indicator. 1,623,122; Apr. 5.
- Kramer, Andrew A., Kansas City, Mo. Tank for dispensing liquids. 1,633,642; June 28.
- Kramer, Christian, Berlin, Germany, assignor to General Electric Company. Mercury-vapor-arc rectifier. 1,643,216; Sept. 20.
- Krämer, Christian, Pankow, Germany, assignor to General Electric Company. Cooling arrangement. 1,652,898; Dec. 13.
- Krämer, Christian, Pankow, Berlin, Germany, assignor to General Electric Company. Mercury-arc rectifier. 1,652,899; Dec. 13.
- Kramer, Erwin, Berlin, Germany. Device for recording and reproducing sounds. 1,645,911; Oct. 18.
- Kramer, Eugene, Astoria, N. Y. Box. Des. 72,952; June 28.
- Kramer, Gustav A., Concord, assignor, by mesne assignments, to Simplex Refining Company, San Francisco, Calif. Producing lubricating oils. 1,619,348; Mar. 1.
- Kramer, Gustav A., Concord, assignor, by mesne assignments, to Simplex Refining Company, San Francisco, Calif. Method of and apparatus for lifting oils. 1,647,307; Nov. 1.
- Kramer, Henry W., Kingston, assignor to Ralph P. Young, Marlboro, N. Y. Handle for wooden baskets. 1,644,478; Oct. 4.
- Kramer, John G., assignor to Carnahan-Byrne Machinery Company, Inc., Detroit, Mich. Vertically-slidable inwardly-joining windows. 1,628,727; May 17.
- Kramer, Joseph, and A. El Israel, New York, N. Y. Machine for manufacturing corrugated board. 1,629,511; May 24.
- Kramer, Paul. (See Heinrich, R., and Kramer.)
- Krammer, Henry E., New York, N. Y. Sectional flying boat. 1,627,184; May 3.
- Krammer, Henry E., New York, N. Y. Aircraft. 1,627,185; May 3.
- Krammer, Henry E., New York, N. Y. Sounding line for aircraft. 1,651,956; Dec. 6.
- Krammer, Henry E., Hempstead, N. Y. Shock absorber. 1,653,361; Dec. 20.
- Kraney, Karl F., assignor to Carl Heinze Maschinenfabrik A. G., Guben, Germany. Hat-forming machine. 1,652,441; Dec. 13.
- Krank, Alfred J., St. Paul, Minn. Adjustable powder dispenser. 1,638,584; Aug. 9.
- Krank, Alfred J., St. Paul, Minn. Powder dispenser. 1,641,765; Sept. 6.
- Krank, Alfred J., St. Paul, Minn. Adjustable powder dispenser. 1,642,447; Sept. 13.
- Kranich, Walter, Ludwigshafen-on-the-Rhine, H. Kr. Kall, Mannheim, and C. Shuster, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktien Gesellschaft, Frankfurt-on-the-Main, Germany. Production of emulsions. 1,652,016; Dec. 8.
- Krantz, Fritz, Munich, and H. Krantz, Bad-Nauheim, Germany. Plant for fermenting and storing organic manure, foodstuffs, and the like. 1,643,018; Sept. 20.
- Krantz, Heinrich. (See Krantz, Fritz, and H.)
- Krantz, Hermann, Aachen, Germany. Drying textile materials. 1,629,167; May 17.
- Krantz, Hubert, Aachen, Germany. Quick-traverse bobbin for dyeing, washing, and like treatment. 1,652,992; Dec. 13.
- Krantz, Hubert K., Brooklyn, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Switch box. 1,615,817; Jan. 25.
- Krantz, Hubert K., Brooklyn, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Switch box. 1,628,889; May 17.
- Krantz, Hubert K., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch housing. 1,638,940; Aug. 16.
- Krantz, Philip M., Brooklyn, N. Y. Automotive equipment. 1,642,960; Sept. 20.
- Krantz, Philip M., Brooklyn, N. Y. Toothbrush. 1,647,453; Nov. 1.
- Kranz, Frederick W., Geneva, Ill. System of secret wireless telephony. 1,628,411; May 10.
- Kranz, Michael, assignor of one-fourth to W. H. Nelles, Chicago, Ill. Swivel plug. 1,633,025; June 21.
- Kränzlein, Georg, and A. Voss, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparation of magnesium chromates. 1,632,200; Dec. 14.
- Krupp, Jacob H., Chicago, Ill. Carton-blank separator. 1,637,560; Aug. 2.
- Krasa, Albert. (See Bates, A. M., and Krasa.)
- Krasa, Albert, assignor to Bates Valve Bag Company, Chicago, Ill. Hemming machine and forming bag tubing. 1,636,517; July 19.
- Krasberg, Rudolf, Chicago, Ill. Freight-handler's truck. 1,642,502; Sept. 13.
- Krasno, Philip, Milwaukee, Wis. Internal-combustion-engine valve. 1,630,750; May 31.
- Krasselt, Robert O., Leipzig, Germany. Washing basin. 1,616,865; July 26.
- Kratzl, Michael, Kansas City, Mo. Curtain fixture. 1,633,026; June 21.
- Kratz, Arthur B., Detroit, Mich. Rubbing machine. 1,622,592; Mar. 29.
- Kritz, Edward L., Chicago, Ill., assignor to Marsene Products Company. Feed device for film-forming machines. 1,649,960; Nov. 22.
- Kratz, Edouard M., assignor to Marsene Products Co., Chicago, Ill. Transparent-paper machine. 1,650,585; Nov. 22.
- Kratz, Howard L., assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Flag. Des. 71,840; Jan. 11.
- Kratz, Howard L., assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Flag. Des. 71,841; Jan. 11.
- Kratz, Howard L., assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Statuette. Des. 72,099; Mar. 1.
- Kraush, Carl, Leverkusen, near Cologne, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuff of the isatine oxythionaphthene group. 1,650,139; Nov. 22.
- Kraus, Charles A., and C. C. Callis, Worcester, Mass., assignors to Standard Development Company. Alloy. 1,620,609; May 10.
- Kraus, Charles A., and C. C. Callis, Worcester, Mass., assignors to Standard Development Company. Making metallo-organic compounds. 1,639,947; Aug. 23.
- Kraus, Charles E., Babylon, N. Y. Cement composition. 1,629,714; May 24.
- Kraus, Harry G., Orange, N. J. Boiler. 1,638,163; Aug. 9.
- Kraus, Joseph A., St. Louis, Mo. Can-puncturing device. 1,640,505; Aug. 30.
- Kraus, Louis, et al., trustees. (See Inghram, Howard T., assignor.)
- Kraus, Martin J., Gary, Ind. Cab for tractors. 1,650,767; Nov. 29.
- Kraus, Morris F., Chicago, Ill., assignor to M. Perclabosco and J. Rosinia. Coin detector. 1,640,453; Aug. 30.
- Kraus, Samuel, New York, N. Y. Preventing freezing of drainpipes. 1,652,784; Dec. 13.
- Krause, Arnold. (See Hutchens, H. O., and Krause.)
- Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Ceiling lighting fixture. Des. 74,058; Dec. 13.
- Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Chandelier. Des. 74,059; Dec. 13.
- Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Chandelier. Des. 74,060; Dec. 13.
- Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Chandelier. Des. 74,061; Dec. 13.
- Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Wall lighting fixture. Des. 74,062; Dec. 13.
- Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Wall lighting fixture. Des. 74,063; Dec. 13.
- Krause, Arthur, Cleveland, Ohio. Speed-reduction mechanism. 1,631,739; June 7.

- Krause, Arthur R., Woodhaven, and F. W. Mathieu, New York, N. Y. Lamp shade or analogous article of manufacture. Des. 72,856; June 14.
- Krause, Arthur R., Woodhaven, and F. W. Mathieu, New York, N. Y. Lamp shade or analogous article of manufacture. Des. 72,857; June 14.
- Krause, Arthur R., Woodhaven, and F. W. Mathieu, New York, N. Y. Lamp shade or analogous article of manufacture. Des. 72,858; June 14.
- Krause, Arthur R., Woodhaven, and F. W. Mathieu, New York, N. Y. Lamp shade or analogous article of manufacture. Des. 72,859; June 14.
- Krause, Conrad B., (See Green, Lee B., assignor.)
- Krause, Conrad B., et al. (See Green, Lee B., assignor.)
- Krause, Edwin M., (See Krause, Hellmuth, assignor.)
- Krause, Erich, and K. Roka, Constance, assignors to the Firm of Holzverkohlungs-Industrie Aktien-Gesellschaft, Constance, Baden, Germany. Making formaldehyde from methylene chloride. 1,616,533; Feb. 8.
- Krause, Hellmuth, assignor of one-half to E. Krause, Scheitbar, near Schöken, Germany. Machine for gathering turnips. 1,640,041; Aug. 28.
- Krause, Joseph W., Brooklyn, N. Y. Stiff bodied shirt. 1,617,398; Feb. 15.
- Krause, Reinhold C., Youngstown, Ohio. Ingot mold. 1,634,939; July 5.
- Krause, Rudolf, Vienna, Austria. Molding device for making concrete blocks. 1,642,247; Sept. 13.
- Krause, Walter J., assignor to The Ohio Electric & Controller Company, Cleveland, Ohio. Short-circuiting device. 1,630,491; May 31.
- Krauser, William H., Allentown, Pa. Automobile signal-control switch. 1,621,872; Mar. 15.
- Krauss, Friedrich B., Schwarzenberg, Saxony, Germany. Portable fire extinguisher. 1,627,039; May 3.
- Krauss, George M., Lingle, Wyo. Calf weaner. 1,626,090; Apr. 26.
- Krauss, Kurt, Berlin-Friedenau, Germany, assignor to Westinghouse Electric & Manufacturing Company. Alternating-current motor. 1,630,390; May 31.
- Krauss, Ralph A., Philadelphia, Pa. Rheostat. 1,652,017; Dec. 6.
- Krausse, Louis M., Houston, Tex. Stamping machine. 1,613,463; Jan. 4.
- Kraxberger, Michael E., Buckingham, Colo. Insulated piston. 1,624,791; Apr. 12.
- Kraysler, Irving, assignor to Farber-Kraysler & Bro., New York, N. Y. Bracelet. 1,626,139; Apr. 26.
- Krager, William A., Denver, Colo. Burners for oil-well cleaners. 1,628,940; May 3.
- Krebs, Adolf, Boston, Mass. Welding apparatus. 1,613,326; Jan. 4.
- Krebs, August S., Wilmington, assignor to The Krebs Pigment & Chemical Company, Newport, Del. Method and apparatus for quenching lithopone. 1,630,267; May 31.
- Krebs, John W., Goodyear, Ariz. Buck rake. 1,650,453; Nov. 22.
- Krebs Pigment & Chemical Company, The. (See Krebs, August S., assignor.)
- Kreß, Victor, Racine, Wis. Fuel-mixing device. 1,614,477; Jan. 18.
- Kreh, Max, New Orleans, La., assignor to Wick Narrow Fabric Company, Philadelphia, Pa. Hatband. 1,646,153; Oct. 18.
- Kreidel, Hans, Wiesbaden, Germany. Lubricating gun. 1,614,134; Jan. 11.
- Kreider, Irvin K., Lancaster, Pa. Elevator for silos. 1,634,585; July 5.
- Kreider, Walter J., near Dayton, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,636,747; July 26.
- Kreidler, Alfred, Stuttgart, Germany. Wire-drawing machine. 1,648,814; Nov. 8.
- Kreisberg, Jacob, New York, N. Y. Hair curler. 1,635,046; July 5.
- Kreisell, Fred, Ava, Mo. Combined primer and gas mixer. 1,616,554; Feb. 8.
- Kreisinger, Henry, Piermont, assignor to Combustion Engineering Corporation, New York, N. Y. Finely-divided-fuel-burning furnace. 1,645,651; Oct. 18.
- Kreisinger, Henry, Piermont, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace-wall protection. 1,649,121; Nov. 15.
- Kreislter, Jacques, New Rochelle, N. Y. Wrist-watch strap. 1,617,954; Feb. 15.
- Kreiss, Charles F., (See Kreiss, Edward J. and C. F.)
- Kreiss, Edward J. and C. F., assignors to Kreiss Sign Co., Inc., Buffalo, N. Y. Illuminated sign. 1,620,472; Mar. 8.
- Kreiss, Edward J. and C. F., assignors to Kreiss Sign Co., Inc., Buffalo, N. Y. Illuminated sign. 1,620,473; Mar. 8.
- Kreiss Sign Co., Inc. (See Kreiss, Edward J. and C. F., assignors.)
- Kreissig, Ernst, Uerdingen, Germany. Spring-supporting means and the like. 1,633,027; June 21.
- Kreiter, Richard F., (See Rhodes, H. P., and Kreiter.)
- Krell, George, (See Davis, Marvin B., assignor.)
- Krell, George, Sapulpa, Okla. Casing elevator. Re16,771; Oct. 11.
- Krell, Joseph, Berlin-Pankow, assignor to the Firm Adrema Maschinenbauges m. b. H. Berlin, Germany. Printing plate and the like. 1,616,089; Feb. 1.
- Kremenek, John, Nampa, Idaho. Revolving table top. 1,653,296; Dec. 20.
- Krengel, Charles H., Twin Falls, Idaho. Agricultural implement. 1,628,158; May 10.
- Krengel, George F., Frankfort, Ind. Chicken-roost hanger. 1,653,773; Dec. 27.
- Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
- Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Assembling lasts. 1,621,208; Mar. 15.
- Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. 1,621,988; Mar. 22.
- Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. 1,621,989; Mar. 22.
- Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Hinge. 1,651,824; Dec. 6.
- Krenzke, John G., assignor to Advance-Rumely Company, La Crosse, Ind. Lubricating system for train of gears. 1,637,557; June 7.
- Krenzler, Emil, Barmen, Germany. Braiding machine. 1,632,608; June 14.
- Kreps, John C., Jr., Camden, G. M. Marsh, Gloucester, and W. C. Lutz, Rummende, N. J. Humidifier. 1,617,124; Feb. 8.
- Kresch, Jesse E., Petaluma, Calif. Gaseous-fuel burner. 1,616,051; Feb. 1.
- Kress, Fritz, Dresden, Germany. Gasifier for liquid fuel. 1,638,772; Aug. 9.
- Kress, Geo. C., The. (See Buehrer, Emil, assignor.)
- Kress, Henry H., Philadelphia, Pa. Oil-burning pressure torch. 1,617,399; Feb. 15.
- Kress, Otto, Appleton, Wis., assignor to American Lakes Paper Company, Chicago, Ill. Oil and grease proof paper and container made therefrom. 1,633,787; June 28.
- Kress, Otto, Appleton, Wis., assignor to American Lakes Paper Company, Chicago, Ill. Bleaching paper pulp. 1,645,061; Oct. 11.
- Kress, Otto, Appleton, Wis., assignor to American Lakes Paper Company, Chicago, Ill. Bleaching paper pulp. 1,651,530; Dec. 6.
- Kress, Theodore, and L. J. Koch, Fort Wayne, Ind., assignor of one-half to said Kress and one-half to said Koch. Heater attachment for automobiles. 1,643,279; Sept. 20.
- Kresser, Otto, Chicago, Ill. Weather strip. 1,652,628; Dec. 13.
- Kretschmer, Henry A., La Grange, assignor to W. Goodrow Oak Park, Ill. Window cornice and the like. 1,652,365; Dec. 13.
- Krettinger, Emanuel, Los Angeles, Calif. Internal-combustion engine. 1,648,647; Nov. 8.
- Kreuchauff, Edward J., (See Nicolai, Albert R., assignor.)
- Kreuder, Norman W., Chicago, Ill. Spraying device. 1,647,918; Nov. 1.
- Krichbaum, Ora, Delaware, Ohio. Making a rubber article. 1,625,810; Apr. 26.
- Krichbaum, William F., Irvington, N. J. Pressure regulator. 1,615,285; Jan. 25.
- Krick, Arthur E., Danville, assignor to The Humidity Control Company, Indianapolis, Ind. Humidity regulator. 1,629,197; May 17.
- Krick, George W., Los Angeles, Calif. Extension top for tables. 1,641,495; Sept. 6.
- Krick, Homer, assignor of one-half to E. N. Harber, Fort Wayne, Ind. Gang mail box. 1,620,474; Mar. 8.
- Krick, Leonard B., assignor to Citrus Products Company, Chicago, Ill. Bottle. Des. 71,918; Jan. 25.
- Krieg, Walter L., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,620,030; Mar. 8.
- Krieg, Walter L., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,635,087; July 5.
- Krieg, Walter L., assignor, et al., trustees. (See McArthur, Robert C., assignor.)
- Krieger, Adolf J., (See Draher, J., and Krieger.)
- Krieger, Frederick A., Livingston, Mont. Agricultural machinery. 1,644,596; Oct. 4.
- Krieger, Wilhelm. (See Schmidt, M. P., and Krieger.)
- Kriehl, John F., Milwaukee, Wis. Angle float. 1,646,649; Oct. 25.
- Kriegsheim, Heinrich, New York, and W. Vaughan, Brooklyn, assignors, to The Permutit Company, New York, N. Y. Manufacture of precipitated zeolites. 1,642,880; Sept. 20.
- Krieser, Ralph M., et al. (See Ditzler, Guy B., assignor.)
- Kriess, William H., Des Moines, Iowa. Pop-corn kettle. 1,617,843; Feb. 15.
- Krietemeyer, Herbert G., Quincy, Ill. Microphone mounting. 1,653,109; Dec. 20.
- Krippendorff-Dittman Company. (See Jonas, Jacob F., assignor.)
- Krisch, Frank, Los Angeles, Calif. Hydraulic brake mechanism. 1,635,331; July 12.
- Krischke's Manufacturing Company. (See Freysinger, John B., assignor.)
- Krist, Ethel M., Sacramento, Calif. Curtain rod. 1,617,162; Feb. 8.
- Krive, James, St. Louis, Mo. Telephone latch. 1,644,194; Oct. 4.

- Krivoshin, Gregory G., Prague, Czechoslovakia, assignor of one-half to J. B. Freeman, Providence, R. I. Combined suspension and arch bridge. 1,626,241; Apr. 26.
- Kriz, Frank H. (See Appleton, J. H., and Kriz.)
- Kriz, William, et al. (See Frink, Melvin L., assignor.)
- Kroczeck, Anton M., Chicago, Ill. Birdcage. 1,620,361; Mar. 8.
- Kroczeck, Anton M., Chicago, Ill. Bird cage. 1,653,637; Dec. 27.
- Kroder, Daniel D., et al. (See Oliver, R. M., and Penn, assignors.)
- Kroder, John, and Henry Reubel Company. (See Crawford, James O., assignor.)
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Focusing mechanism for photographic cameras. 1,613,353; Jan. 4.
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Holder for photographic materials such as cut films. 1,616,906; Feb. 8.
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. 1,651,460; Dec. 6.
- Kroedel, Robert, and C. F. Speidel, assignor to Eastman Kodak Company, Rochester, N. Y. Focusing mechanism for cameras. 1,621,935; Mar. 22.
- Kroeger, Frederick C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,634,751; July 5.
- Kroeger, Frederick C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition apparatus. 1,641,442; Sept. 6.
- Kroeger, Frederick C., and H. E. Norviel, Anderson, Ind., assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Condenser-winding machine. 1,641,389; Sept. 6.
- Kroeger, Martin. (See Behning, Robert V., assignor.)
- Kroeger, Martin, et al. (See Pradas, Henry, assignor.)
- Kroehler Mfg. Co. (See Beech, Alexander C., assignor.)
- Kroehling, Karl, New York, N. Y. Door stop. 1,616,265; Feb. 1.
- Krohn, Eugene O., Paso Robles, Calif. Sleeve puller for automobiles. 1,632,482; June 14.
- Kroff, Leonard D., Sterling, Ill. Mechanical toy. 1,626,040; Apr. 26.
- Kroff, Leonard D., Sterling, assignor to Patent Novelty Company, Fulton, Ill. Mechanical toy. 1,648,352; Nov. 8.
- Kroll, Philip J., Joplin, Mo. Container. 1,627,851; May 10.
- Kroll, Philip J., Joplin, Mo. Container. 1,627,852; May 10.
- Kroll, Philip J., Joplin, Mo. Closure member. 1,646,154; Oct. 18.
- Kroll, Walter, Detroit, Mich. Resilient vehicle wheel. 1,644,925; Oct. 11.
- Kronauer, Frank C., Glen Rock, N. J. Rail joint. 1,637,449; Aug. 2.
- Kron, Frederick W., San Francisco, Calif. Tire construction. 1,636,779; July 26.
- Kronenberg, Frederick W., Philadelphia, Pa. Steam boilers. 1,625,549; Apr. 19.
- Kroulund, Perry E., assignor of forty-nine one-hundredths to A. Ohlson, Tacoma, Wash. Fluffing machine. 1,626,706; May 10.
- Kroemiller, Carl G., assignor to Bates Valve Bag Company, Chicago, Ill. Tape cutter. 1,649,238; Nov. 15.
- Kronmiller, Carl G., and J. E. Cornell, assignors to Bates Valve Bag Company, Chicago, Ill. Bag-valving apparatus. 1,650,895; Nov. 29.
- Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Syracuse, N. Y. Can-testing machine. 1,640,242; Aug. 23.
- Krook, Carl G., Kingman, assignor of one-half to H. L. McCarr, Chandler, Ariz. Planing tool. 1,628,791; May 17.
- Kropp, Walter, Elberfeld, near Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Vulcanization of rubber and the product thereof. 1,616,378; Feb. 1.
- Kropp, Walter, Elberfeld, near Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of condensation products of crotonaldehyde. 1,640,899; Aug. 30.
- Kroschel, Louis A., Los Angeles, Calif. Side stop hinge. 1,622,451; Mar. 29.
- Krotee, Walter E. (See Rutherford, H. K., and Krotee.)
- Krotz, Alvaro S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Agricultural implement. 1,616,581; Feb. 8.
- Kroupa, Louis L., Chicago, Ill. Electric switch. 1,647,300; Nov. 1.
- Krouse, Conrad B., et al. (See Green, Lee B., assignor.)
- Krouse, David, et al. (See Pratt, Glenn, assignor.)
- Krückels, Joseph, assignor to the Firm Maschinenfabrik Zell J. Krückels, Zell-im-Wiesenthal, Germany. Creel stand. 1,647,972; Nov. 1.
- Kruckenberger, Franz, Heidelberg, Germany. Overcoming great differences of height with high-speed passenger traffic. 1,633,214; June 21.
- Kruckenberger, Franz, and F. Gentzke, Heidelberg, Germany, said Gentzke, assignor to said Kruckenberger, et al. for high-speed suspension railways. 1,628,595; May 10.
- Kruckenberger, Franz, and F. Gentzke, Heidelberg, Germany, said Gentzke, assignor to said Kruckenberger, et al. Arrangement for changing the machinery of high-speed suspension. 1,637,776; Aug. 2.
- Kruckenberger, Franz, and C. Stedefeld, Heidelberg, Germany, said Stedefeld assignor to said Kruckenberger, et al. Braking arrangement for high-speed suspension railway. 1,614,841; Jan. 13.
- Kruckenberger, Franz, and C. Stedefeld, Heidelberg, Germany, said Stedefeld assignor to said Kruckenberger, et al. Emergency braking arrangement for high-speed suspension railway. 1,614,842; Jan. 13.
- Kruckenberger, Franz, and C. Stedefeld, Heidelberg, Germany, said Stedefeld assignor to said Kruckenberger, et al. Braking arrangement for high-speed suspension railways. 1,624,141; Apr. 12.
- Krueger, Albert G., and F. W. Thorpe, Green Bay, Wis. Paper-napkin dispenser. 1,650,945; Nov. 29.
- Krueger, Herman W., assignor to Northern Corrugating Co., Green Bay, Wis. Dispensing cabinet. 1,632,446; June 14.
- Krueger, Hermann O., Niles Township, Floyd County, Iowa. Automatic tractor hitch. 1,646,253; Oct. 18.
- Krueger, Theodore H., New York, N. Y. Envelope and the like and carrier therefor. 1,616,555; Feb. 8.
- Krueger, Theodore H., New York, N. Y. Tape-serving device. 1,638,815; Aug. 9.
- Krueger, Theodore H., New York, N. Y. Tape-serving device with inclined guide. 1,638,816; Aug. 9.
- Krueger, Theodore H., New York, N. Y. Envelope. 1,642,116; Sept. 13.
- Kruger, Harry B. (See Stranders, Julien, assignor.)
- Kruger, Paul W., Attala County, Miss. Composition of matter for capping pulps in teeth and improvements in dental filling materials. 1,621,793; Mar. 22.
- Krum, Richard, Nienburg-on-the-Saale, Germany. Extension table. 1,639,510; Aug. 18.
- Krum, Charles L. and H. L., assignors, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Telegraph transmitter. 1,635,129; July 5.
- Krum, Charles L. and H. L., assignors, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Printing or selecting telegraph. 1,635,486; July 12.
- Krum, Howard L. (See Krum, Charles L. and H. L.)
- Krum, Howard L., assignor, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Telegraph system. 1,635,130; July 5.
- Krum, Howard L., assignor, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Selective telegraph system. 1,635,131; July 5.
- Krum, John H., assignor of one-half to C. E. McGlocklin and J. C. Weaver, Bonners Ferry, Idaho. Travers. 1,625,729; Apr. 19.
- Krummel, Louis C., Brooklyn, N. Y. Precast plastic composition structural parts and means for uniting the same. 1,619,737; Mar. 1.
- Krummenacher, Edward. (See Fritzsche, H., Krummenacher, Gustav, and Kaiser.)
- Krump, Herbert. (See Kelleher, T. J., and Krump.)
- Krupp, Leo A., assignor to The Star Drilling Machine Company, Akron, Ohio. Drilling machine or drilling rig. 1,649,239; Nov. 15.
- Kruse, Henry E., Kingsley, Iowa. Corn harvester. 1,641,682; Sept. 6.
- Kruse, Henry B., et al. (See Brooks, Roscoe A., assignor.)
- Kruse, Max, Creswell, Oreg. Saw oiler. 1,621,420; Mar. 15.
- Krutschmitt, John, San Francisco, Calif. Balanced plug valve. 1,614,890; Jan. 18.
- Krystofak, Josef, New York, N. Y., assignor, by mesne assignments, to E. and B. Willbrandt, copartners trading as Art Asentible Furniture Company, St. Louis, Mo. Mechanical movement. 1,639,191; Aug. 16.
- Krzikalla, Hans. (See Kranich, W., Krzikalla, and Schuster.)
- Kubat, Emil J., et al. (See Barry, Richard P., assignor.)
- Kubelka, Jerry, Ridgewood, N. Y. Concealed fastening for push and pull handles. 1,652,018; Dec. 6.
- Kubiac, Lester S., Youngstown, Ohio. Electric arc lamp. 1,648,019; Nov. 8.
- Kubiac, Lester S., assignor to The Photogenic Machine Company, Youngstown, Ohio. Clutch. 1,618,127; Feb. 15.
- Kubicek, John, Yonkers, N. Y. Clutch for power transmission. 1,614,370; Jan. 11.
- Kubierschky, Konrad, Eisenach, and W. Schultze, Halle-on-the-Saale, Germany. Fire-extinguishing liquid. 1,623,583; June 21.
- Kubista, Charlie L., Sleepy Eye, Minn. Clothesline holder. 1,635,850; July 12.
- Kubista, Joseph, Owatonna, Minn. Spinal-adjustment device. 1,642,158; Sept. 13.
- Kubler, Johannes, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Device for preventing oxidation of oil in transformers. 1,635,332; July 12.
- Kubo, Masakichi, Tokyo, Japan. Manufacturing malleable cast iron. 1,634,586; July 5.
- Kucera, Frank. (See Rubel, C. F., and Kucera.)
- Kucera, Peter, assignor to Capstan Glass Company, Conneville, N. J. Method and apparatus for regulating glass machines. 1,640,944; Aug. 30.

- Kucharski, Stanislaus, Berlin, Germany. Keyboard musical instrument. 1,645,562; Sept. 27.
- Kuchen, Nicolas, Aachen, Germany. Brake for vehicles. 1,625,777; Apr. 19.
- Kuchenmeister, Fritz, assignor to Gebrüder Steinel, Hennef, Germany. Dairy machine. 1,643,503; Sept. 27.
- Kichenmeister, Heinrich J., Berlin, Germany. Sound-reproducing machine. 1,649,477; Nov. 15.
- Kucher, Andrew A., Chester, Pa. Working fluid for refrigeration. 1,645,198; Oct. 11.
- Kucher, Charles W., Seattle, Wash. Anchor. 1,617,528; Feb. 15.
- Kucipak, George, Seneca Falls, N. Y. Automobile signal. 1,630,192; Aug. 16.
- Kuck, Henry C., assignor to Stuber & Kuck Co., Peoria, Ill. Display cover for containers. 1,644,734; Oct. 11.
- Kuehn, Paul M., assignor to The Bartlett Hayward Company, Baltimore, Md. Centrifugal contact apparatus. 1,634,199; June 28.
- Kuehn, Franz, assignor of one-half to H. Huenert, Detroit, Mich. Speed control. 1,628,600; May 10.
- Kuehner, Arthur T., Elkhridge, Md. Manually-controlled steam-operated cylinder cock and drift valve. 1,629,037; May 17.
- Kuehner, Arthur T., St. Augustine, Fla. Journal box. 1,632,859; June 14.
- Kuehner, Wilhelm, Providence, R. I. Chain. 1,626,416; Apr. 26.
- Kuepker, Georg. (See Klement, August, assignor.)
- Kuester, Otto, Detroit, Mich. Pin-wheel toy. 1,630,852; May 31.
- Kuever, Rudolph A., Iowa City, Iowa, assignor to Pepsi-sodent Company, Chicago, Ill. Cleansing and polishing agent. 1,619,076; Mar. 1.
- Kufahl, Anton J., Wausau, Wis. Ironing board. 1,616,907; Feb. 8.
- Kugel, Max L., Leverkusen, near Cologne, Germany, assignor to Grüssel Dyestuff Corporation, New York, N. Y. Vat dyestuffs of the anthraquinone series. 1,651,461; Dec. 6.
- Kugler, Benjamin, Chicago, Ill. Safety harness and coupling for window cleaners. 1,649,240; Nov. 15.
- Kugler, Otto, sr. (See Goebert, C., and Kugler.)
- Kuhar, George, Chicago, Ill. Plumb trowel. 1,617,125; Feb. 8.
- Kuhl, Alphons M., Omaha, Nebr. Flower box and fish bowl. 1,641,496; Sept. 6.
- Kuhl, John, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Breather valve. 1,637,489; Aug. 2.
- Kuhl, Robert J., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Refrigerator-car construction. 1,616,582; Feb. 8.
- Kuhlhoff, Henry O., Euclid, assignor to The Continental Products Company, Cleveland, Ohio. Painting machine. 1,640,776; Aug. 30.
- Kuhlhoff, Henry O., assignor to The Continental Products Company, Euclid, Ohio. Road marker. 1,640,777; Aug. 30.
- Kuhle Machine Company, The. (See Kuhlke, Otto J., assignor.)
- Kuhlke, Otto J., assignor to The Kuhle Machine Company, Akron, Ohio. Apparatus for vulcanizing inner tubes. 1,644,678; Oct. 11.
- Kuhlke, Otto J., assignor to The Kuhle Machine Company, Akron, Ohio. Tube vulcanizer. 1,652,366; Dec. 19.
- Kuhlman Edward H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Engraving machine. 1,620,975; Mar. 15.
- Kuhlmann, Frederick J. P. (See Girtin, T. C., and Kuhlmann.)
- Kuhlmann, Frederick J. P., San Francisco, Calif. Orchard ladder. 1,613,836; Jan. 11.
- Kuhn, Clinton J., Vanderburgh, assignor to Graham Brothers, Evansville, Ind. Finger guard for foldable bus doors. 1,626,844; May 8.
- Kuhn, Ernst K., Delhi, Ill. Attachment for handlebars. 1,640,455; Aug. 30.
- Kuhn, Frank. (See Dennert, Edward C., assignor.)
- Kuhn, Frank. (See Thomas, L. H., and Kuhn.)
- Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Water Company, Detroit. Handle for heated tools. 1,618,844; Feb. 22.
- Kuhn, Frederick X., Waltham, Mass. Method of and apparatus for charging containers with ice cream or other materials. 1,627,853; May 10.
- Kuhn, Frederick X., Waltham, Mass. Ice-cream package and method of and apparatus for making the same. 1,627,854; May 10.
- Kuhn, H. L., et al. (See Moore, S., and Sheets, assignors.)
- Kuhn, Harry S., Waynesboro, Pa. Tool cabinet. 1,625,945; Apr. 26.
- Kuhn, John J., Elizabeth, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Transmission system. 1,623,480; Apr. 5.
- Kuhn, John J., Elizabeth, N. J., and W. L. Betts, Brooklyn, assignors to Western Electric Company, Incorporated. New York, N. Y. Switching device. 1,645,147; Oct. 11.
- Kuhn, John W., Akron, Ohio. Tire-building machine. 1,637,195; July 26.
- Kuhn, Leah, Spokane, Wash. Portable toilet for infants. 1,650,365; Nov. 22.
- Kuhn, Louis V., and F. H. Vogel, assignors to The Columbus Vending Company, Columbus, Ohio. Vending machine. 1,651,006; Dec. 6.
- Kuhn, Louis V. and F. H. Vogel, assignors to The Columbus Vending Company, Columbus, Ohio. Vending machine. 1,651,006; Dec. 6.
- Kühn, Ludwig, Charlottenburg, near Berlin, assignor to Vestinghouse Electric & Manufacturing Company. Modulation system. 1,630,381; May 31.
- Kühn, Ludwig, Charlottenburg, near Berlin, assignor to the firm: Dr. Erich F. Huth G. m. b. H., Berlin, Germany. Apparatus for influencing alternating currents. 1,653,859; Dec. 27.
- Kuhn, Max O., assignor to The Firestone Steel Products Company, Akron, Ohio. Riveting press. 1,622,248; Mar. 22.
- Kuhn, McClellan A., Porterville, and G. D. Gebhart, Red-ley, Calif. Railway-crossing signal. 1,616,809; Feb. 8.
- Kuhn, Otto, et al. (See Alchele, Ernest, assignor.)
- Kühn, Paul, Niederschelden-on-the-Sieg, Germany. Smelting and refining of iron, steel, and other metals in open-hearth furnaces. 1,618,934; Feb. 22.
- Kuhn, Wilfred H., assignor to Wright-Austin Company, Detroit, Mich. Water-column alarm. 1,620,729; Mar. 15.
- Kuhn, Frederick W., New York, N. Y. Combined cover and strainer. 1,614,745; Apr. 12.
- Kühne, Bent, Levistown, Mont. Bottle cap or closure. 1,612,927; Jan. 4.
- Kühne, Beat, Lewistown, Mont. Tooth-cleaning device. 1,624,064; Apr. 12.
- Kühne, Beat, Lewistown, Mont. Milk-bottle cap. 1,638,489; Aug. 9.
- Kühne, Beat, Lewistown, Mont. Milk-bottle cap. 1,638,490; Aug. 9.
- Kühne, Joseph, Iserlohn, Germany. Connecting rod bearing. 1,612,224; Jan. 4.
- Kühn, Joseph, Iserlohn, Germany. Single-stroke-heading machine. 1,618,445; Feb. 22.
- Kühne, Joseph, Iserlohn, Germany. Making cold screw blanks, rivets, and similar headed articles. 1,618,446; Feb. 22.
- Kühnel, Paul, San Francisco, Calif. Velocipede. 1,625,214; Apr. 19.
- Kühner, Oscar, Columbus, Ohio. Temporary end closure for locomotive-valve chambers. 1,615,906; Feb. 1.
- Kuhnert, Walter A., Los Angeles, Calif. Recovery of sodium sesquicarbonate from brines. 1,618,834; June 21.
- Kuhnert, Walter A., Los Angeles, Calif. Recovery of carbonate compounds of sodium and borax from brines. 1,618,835; Feb. 22.
- Kühni, Hans, Rumläng, Switzerland, assignor, by mesne assignments, to Air Reduction Company, Incorporated. Air-sealing device. 1,650,440; May 31.
- Kuhns, Howard F., Allentown, Pa. Washing machine. 1,621,548; Mar. 22.
- Kuhrt, Otto C., Mount Vernon, N. Y., assignor to Hartford Empire Company, Hartford, Conn. Apparatus for annealing glassware. 1,638,401; Aug. 9.
- Kühz, Friedrich, Cannstatt, Germany. Baking oven. 1,637,618; Aug. 2.
- Kühz, Friedrich, Cannstatt, Germany. Baking oven. 1,653,774; Dec. 27.
- Kulk, Mary E., Racine, Wis. Mothproof bag. 1,622,323; Mar. 29.
- Kulik, Joseph, Monongah, W. Va. Dough-rolling machine. 1,650,758; Nov. 29.
- Kulage, Dominick, St. Louis, Mo. Weather-strip unit. 1,646,155; Oct. 18.
- Kulbeck, Niels, Oslo, Norway. Scaffold. 1,633,112; June 21.
- Kuldell, R. C., administrator. (See Hughes, Howard R.)
- Kulhaway, Ferdinand, Guttenberg, N. J. Radio apparatus multiple dial. Des. 73,043; July 12.
- Kulick, Edward L. (See Farrell, Archie W., assignor.)
- Kulick, Edward L., Chicago, Ill. Brake mechanism for automobiles. 1,613,339; Jan. 4.
- Kulick, Edward L., Chicago, Ill., assignor of one-half to S. Shuger. Brake mechanism for automobiles. 1,613,559; Jan. 4.
- Kull, Walter A. (See Denyes, H. M., and Kull.)
- Kulnig, Carl E., and B. G. Lind, Stockholm, Sweden. Producing pure sugar liquors. 1,616,181; Feb. 1.
- Kulp, Harry W., Lancaster, Pa. Golf-tee-molding device. 1,616,908; Feb. 8.
- Kumagai, Buntaro, Los Angeles, Calif. Perculator-top protector. 1,648,407; Nov. 8.
- Kumagai, Buntaro, Los Angeles, Calif. Paper fastener and hanger. 1,648,408; Nov. 8.
- Kumli, Charles F., assignor to Spiegel, May, Stern Company, Chicago, Ill. Stencil sheet. 1,642,159; Sept. 13.
- Kummerer, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Hallsches, Berlin, Germany. Transformer. 1,655,707; Jan. 12.
- Kummeth, Frank J., Hieron Lake, Minn. Poultry perch. 1,628,366; May 10.
- Kumpmann, Karl, Ludenscheid, Germany. Automatic machine for making the heads of slotted wooden or iron screws. 1,624,746; Apr. 12.
- Kund, Wendell J., Bedford, Pa. Toe-in gauge. 1,623,878; Apr. 5.
- Kundee, Albert H., assignor to Premier Warm Air Heater Company, Dowagiac, Mich. Automatic humidifier for warm-air furnaces. 1,641,172; Sept. 6.

- Kündig, Fritz, Wallisellen, near Zurich, Switzerland. Production of coffee free from caffeine. 1,629,512; May 24.
- Kundrat, Michael, Hanley, Pa. Sleigh. 1,617,529; Feb. 15.
- Kuney, Clarence F., Brookfield, assignor to Federal Steel Sash Company, Waukesha, Wis. Sash-welding apparatus. 1,648,409; Nov. 8.
- Kunin, Paul, and N. A. Olsen, Minneapolis, Minn.; said Kunin, assignor to said Kunin. Hair-curling apparatus. 1,643,341; Sept. 27.
- Kunish, Emil. (See Lorenz, C., Kunish, and Seitz.)
- Kunkel, Frederick L., Milwaukee, Wis. Fabric. 1,636,640; July 19.
- Kunkel Stamping & Manufacturing Company. (See Broome, William J., assignor.)
- Kuno, Schieghoro, Ogden, Utah. Heating steering wheel. 1,616,365; Aug. 25.
- Kuntz, Frank A. (See Shann, O. A., and Kuntz.)
- Künzer, Marcel, La Chaux-De-Fonds, assignor to Société Anonyme pour l'Exploitation des Brevets Künzer, Basel, Switzerland. Apparatus for lighting the landing place from aerial craft. 1,621,421; Mar. 15.
- Kupa, Stanley, Chicago, Ill. Inductance. 1,637,649; Aug. 2.
- Kupec, William J. (See Chapin, P. P., and Kupec.)
- Kupetz, Adolph G., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,619,349; Mar. 1.
- Kupfer Bros. Co. (See Lewin, Arthur, assignor.)
- Kupfmüller, Karl. (See Lichten, F., and Kupfmüller.)
- Kupfmüller, Karl, Berlin-Friedenau, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Distortion compensator. 1,638,536; Aug. 9.
- Kupka, Johann, London, England. Cylinder casting for steam engines. 1,638,736; Aug. 9.
- Kupke, William, Chicago, Ill. Rail lock. 1,627,743; May 10.
- Küppers, Kurt, assignor to Kall-Industrie A. G., Cassel, Germany. Hoisting system for mines. 1,642,585; Sept. 13.
- Kurda, Karl. (See Rüdenburg, R., and Kurda.)
- Kurhoff, Samuel, assignor to Lehman Brothers Silverware Corporation, New York, N. Y. Beverage urn or similar article. Des. 72,156; Mar. 8.
- Kurkowski, Joseph, Pittsburgh, Pa. Apparatus for joining or connecting pipes. 1,627,288; May 3.
- Kurman, Nathan A., assignor to The Herald Electric Company, New York, N. Y. Loud speaker. Des. 72,799; June 7.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,614,003; Jan. 11.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,610,860; Feb. 8.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,621,074; Mar. 15.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,621,581; Mar. 22.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,623,482; Apr. 5.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,623,481; Apr. 5.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,623,482; Apr. 5.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,624,747; Apr. 12.
- Kurowski, Alfred G. F., Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,625,321; Apr. 19.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,636,695; July 26.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,636,696; July 26.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,639,302; Aug. 16.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,640,841; Aug. 30.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,641,929; Sept. 6.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,642,248; Sept. 13.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,643,664; Sept. 27.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,643,887; Oct. 4.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,646,966; Oct. 25.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,653,362; Dec. 20.
- Kurscheidt, Peter J., Woodhaven, and H. E. Norwood, Brooklyn, N. Y. Clutch for window regulators. 1,628,672; May 17.
- Kurscheidt, Peter J., Woodhaven, and H. E. Norwood, Brooklyn, assignors, by mesne assignments, to Perfect Window Regulator Corporation, Long Island City, N. Y. Window regulator. 1,632,763; June 14.
- Kurscheidt, Peter J., and H. E. Norwood, New York, assignors, by mesne assignments, to Perfect Window Regulator Corporation, Long Island City, N. Y. Window regulator. 1,642,035; Sept. 13.
- Kurten, Peter J., Alhambra, assignor of one-half to R. L. Ford, Pasadena, and one-half to G. E. Lee, Pasadena, Calif. Advertising device and the like. 1,617,126; Feb. 8.
- Kurth, Paul. (See Barthel, H., and Kurth.)
- Kurth, William H., assignor to The Hoyer Duplicator Co. Inc., Chicago, Ill. Stencil sheet. 1,643,019; Sept. 20.
- Kürtössy, László, Budapest, Hungary. Automatic coupling for railway vehicles. 1,618,836; Feb. 22.
- Kurtl, Nathan, Chicago, Ill. Coupler. 1,650,366; Nov. 22.
- Kurtz, Benjamin F., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Coupling-pin retainer. 1,640,413; Aug. 30.
- Kurtz, Charles C., Los Angeles, Calif. Tag-making machine. 1,627,978; May 10.
- Kurtz, Charles F., Rock Island, Ill. Vending-machine case. Des. 73,528; Sept. 27.
- Kurtz, Cyrus B., Lakewood, Ohio. Transmission mechanism. 1,619,477; Mar. 1.
- Kurtz-Hähne, Carl, and H. Kurtz, Reutlingen, Germany. Wire netting for paper-making machine and making the same. 1,624,049; Apr. 12.
- Kurtz, Hans. (See Kurtz-Hähne, C., and Kurtz.)
- Kurtz, Henry, assignor to The Lea Company, Elgin, Ill. Horse collar. 1,617,602; Feb. 15.
- Kurtz, Howard H., Bellflower, Ill. Material-handling device. 1,651,607; Dec. 6.
- Kurtzon, George, Chicago, Ill. Electric-light fixture. 1,644,926; Oct. 11.
- Kurz, Gustave A., Zanesville, Ohio. Hand covering. 1,625,368; Apr. 19.
- Kurz-Kasch Company, The. (See Kasch, Henry J., assignor.)
- Kurz, Robert F., New Haven, Conn., assignor of two-thirds to F. E. Damon and one-third to F. Starita, New Haven, Conn. Box-nailing machine. 1,632,085; June 14.
- Kurzer, Solomon, New York, N. Y. Hose supporter. 1,637,948; Aug. 2.
- Kus, Thomas E., Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Coke oven. 1,635,679; July 12.
- Kuschel, Clemens J., Brown Valley, Minn. Babbitting frame. 1,624,605; Apr. 12.
- Kusel, Isidor J., Chicago, Ill. Coin bank. 1,639,344; Aug. 16.
- Kushlan, Max, and H. E. Young, Chicago, Ill. Gate mechanism. 1,637,575; Aug. 2.
- Kushner, William M., Brooklyn, N. Y. Adapter for vacuum bottles. 1,623,544; Apr. 5.
- Kushnier, John, Powhatan Point, Ohio. Vegetable cutter. 1,618,935; Feb. 22.
- Kusse, Frederick C., jr. (See Kusse, Frederick C., sr., and F. C., jr.)
- Kusse, Frederick C., sr., and F. C., jr., Chicago, Ill. Aircraft. 1,653,185; Dec. 20.
- Kusserow, Reinhold, Oakland, Calif. Cleaning molasses for manufacturing compressed yeast. 1,642,929; Sept. 20.
- Kussmaul, Walter. (See Stoll, A., and Kussmaul.)
- Kusterer, Carl C., Grand Rapids, Mich. Morris-chair frame. Des. 73,231; Aug. 9.
- Kusterer, Carl C., Grand Rapids, Mich. Morris-chair frame. Des. 73,232; Aug. 9.
- Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Connection for tubes. 1,638,447; Feb. 22.
- Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Connection for tubes. 1,630,492; May 31.
- Kutchka, Karl G., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Furnace for heating glass blanks. 1,617,955; Feb. 15.
- Kutchka, Karl G., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Glass melting tank. 1,638,737; Aug. 9.
- Kütter, Herman L., Hamilton, Ohio. Bearing. 1,623,624; Apr. 5.
- Kuttes, Anthony, Alameda, Calif. Pillers. 1,625,615; Apr. 19.
- Kuttruf, Wilhelm. (See Walter, A., and Kuttruf.)
- Kutz, Jacob H., Bethlehem, Pa. Figure toy. 1,651,282; Nov. 29.
- Kutzor, Adolf, Leipzig-Stunz, Germany. Benzine and oil separator. 1,636,866; July 26.
- Kutzin, Philip, New York, N. Y. Removable stocking supporter for ladies' garments. 1,634,071; June 28.
- Kux, Albert S. (See Blitz, A., and Kux.)
- Kuxmann & Co. Komm.-Akt.-Ges. (See Schnäth, Heinrich, assignor.)
- Kuyken, Pieter, Zaandam, Netherlands. Double-acting two-stroke internal-combustion engine. 1,618,345; Feb. 22.

- Kvalvik, Kornelius P., Edberg, Alberta, Canada. Animal trap. 1,652,444; Dec. 13.
- Krasnicka, Václav, Prague, Czechoslovakia. Drafting device. 1,622,524; Mar. 29.
- Kuerten, Bernard, Philadelphia, Pa. Holder for telephone receivers. 1,647,833; Nov. 1.
- Kwik-Mix Company. (See Gilson, Michael, assignor.)
- Kwik-Mix Concrete Mixer Co. (See Gilson, John P., assignor.)
- Kyles, Rudolph, Locust Ridge, La. Gate. 1,640,329; Aug. 23.
- Kyles, Vinko, St. Joseph, La. Farrier's knife. 1,619,619; Mar. 1.
- Kyhl, Emil, Britt, Iowa. Starting switch for electric starting motors. 1,624,255; Apr. 12.
- Kyle, Colin, San Jose, Calif. Acoustic device. 1,644,387; Oct. 4.
- Kyle, George L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Testing batteries for leaks. 1,648,949; Oct. 4.
- Kyle, Gordon E., Belleville, N. J., and B. A. Mitchell, West New Brighton, N. Y. Belt conveyer. 1,626,041; Apr. 26.
- Kyle, Joseph, Greene, Iowa. Vermin-destroying henroost. 1,629,393; May 17.
- Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Reinforced insulator. 1,613,464; Jan. 4.
- Kyle, William T., Bridgeport, Conn., assignor to Page Steel and Wire Company. Traffic protective structure. 1,643,123; Sept. 20.
- Kyler, Albert H., Westminster, Md. Machine for boxing or casing cans. 1,621,743; Mar. 22.
- Kyler, Albert H., Westminster, Md. Machine for boxing or casing cans. 1,634,031; June 28.
- Kylin, Oskar, assignor to Foster-Johnson Reamer Company, Elkhart, Ind. Connecting-rod-reboring machine. 1,616,052; Feb. 1.
- Kylin, Oskar, assignor to Foster-Johnson Reamer Company, Elkhart, Ind. Precision tool or fixture. 1,616,053; Feb. 1.
- Kyrides, Lucas E. (See Livingston, J. W., and Kyrides.)
- Kysor, Walter A., Allegan, Mich. Combined muffler and heater. 1,627,855; May 10.
- L. G. S. Devices Corporation. (See Drexler, Charles, assignor.)
- L. G. S. Devices Corporation. (See Starkey, William C., assignor.)
- L & W Corporation. (See Koberle, Albert, assignor.)
- Laubs, Max A., assignor to American Optical Company, Southbridge, Mass. Producing monocentric fused bifocal lenses. 1,616,830; Dec. 27.
- Laubs, Max A., assignor to American Optical Company, Southbridge, Mass. Producing monocentric fused bifocal lenses. 1,630,706; May 31.
- Laubs, William, Milwaukee, Wis., assignor to The Allbright-Nell Company, Chicago, Ill. Cooker. 1,630,124; May 24.
- Labadie, Harry H., and B. Beers; said Beers assignor to Knickerbocker Case Company, Chicago, Ill. Sample case. 1,633,711; Dec. 27.
- La Barr, Joel S. (See Bradford, R. H., La Barr, and Thompson.)
- Labbe, Roland A., Onaga, Kans. Device for supplying moistened air to internal-combustion engines. 1,619,871; Mar. 8.
- La Beaud, Hallie, New York, N. Y. Shower shawl. 1,641,039; Aug. 30.
- Labelle, Edouard, Montreal, Quebec, Canada. Hydrocarbon burner. 1,653,297; Dec. 20.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Flat-feed mechanism. 1,634,072; June 28.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Feeder for warped articles. 1,651,135; Nov. 29.
- Labombarde, Elle W., Nashua, N. H. Appliance for making set-up boxes. 1,631,492; June 7.
- Labombarde, Elle W., Nashua, N. H. Reinforced and leak-tight paper box. 1,634,073; June 28.
- Labombarde, Harold S., Nashua, N. H. Feeder for sheet material. 1,634,074; June 28.
- Labor Saving Appliance Corp. (See Schulman, Solomon, assignor.)
- Labram, Alfred, Osterley Park, England, assignor to Whiting-Patterson Co., Inc. Cover paper or the like. 1,620,019; Feb. 15.
- Labram, Alfred, Osterley Park, England, assignor to Whiting-Patterson Co., Inc. Cover paper or the like. 1,620,020; Feb. 15.
- Labram, Alfred, Osterley Park, England, assignor to Whiting-Patterson Co., Inc. Cover paper or the like. 1,620,021; Feb. 15.
- Labram, Alfred, Osterley Park, England, assignor to Whiting-Patterson Co., Inc. Cover paper or the like. 1,620,022; Feb. 15.
- Labram, Alfred, Isleworth, England, assignor to W. H. S. Lloyd Co., New York, N. Y. Wall decoration. 1,648,020; Nov. 8.
- Labram, Alfred, Isleworth, England, assignor to W. H. S. Lloyd Co., New York, N. Y. Wall decoration. 1,648,021; Nov. 8.
- La Brie, Ludger E. (See Bendix, V., and La Brie.)
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,616,583; Feb. 8.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,621,794; Mar. 22.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,630,061; May 24.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Operating device. 1,632,794; June 21.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,634,367; July 6.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,634,368; July 6.
- La Brie, Ludger E., South Bend, Ind., assignor to Motor Industries, Inc., Chicago, Ill. Wheel with brake disk. 1,635,068; July 7.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,636,003; July 19.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,636,004; July 19.
- La Brie, Ludger E., South Bend, Ind., assignor to Motor Industries, Inc., Chicago, Ill. Wheel. 1,637,527; Aug. 2.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-applying means. 1,637,528; Aug. 2.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,641,443; Sept. 6.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Vehicle having brakes. 1,641,444; Oct. 25.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake anchor. 1,648,185; Nov. 8.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,648,552; Nov. 8.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,651,608; Dec. 6.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,652,456; Dec. 13.
- Lacerda, Harry A., Watervliet, N. Y. Oil burner. 1,619,738; Mar. 1.
- Lacerda, Harry A., Watervliet, N. Y. Boiler tool. 1,637,949; Aug. 2.
- Lacey, John A., Columbus, Ohio. Temporary binder. 1,628,159; May 10.
- Lacey, Paul H., Chicago, Ill. In-corner retainer strip. 1,652,282; Dec. 13.
- Lacey, Robert M. (See Miller, F. E., and Lacey.)
- Lacey, William H., West Palm Beach, Fla. Railway tie. 1,646,266; Feb. 1.
- Lachaine, Joseph A., Lowell, Mass. Sheet-metal seam. 1,634,947; July 5.
- La Chapelle, Adela J., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Let-back mechanism for looms. 1,647,234; Nov. 1.
- La Chapelle, Euclid I., Brockton, Mass. Making boxes. 1,619,350; Mar. 1.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,634,503; July 5.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-handling machine. 1,639,261; Aug. 16.
- Lacher, Samuel, New York, N. Y. Traveling bag. 1,650,367; Nov. 22.
- Lachman, Laurence S. (See Lachman, Maurice and L. S.)
- Lachman, Laurence S., New York, N. Y., assignor to Universal Electric Welding Company. Girder. 1,638,634; Aug. 9.
- Lachman, Laurence S., New York, N. Y., assignor to Universal Electric Welding Company. Girder. 1,638,635; Aug. 9.
- Lachman, Laurence S., New York, N. Y., assignor to Universal Electric Welding Company. Electrically-welded girder. 1,638,636; Aug. 9.
- Lachman, Laurence S., New York, N. Y., assignor to Universal Electric Welding Company. Girder. 1,638,637; Aug. 9.
- Lachman, Maurice and L. S., New York, N. Y., assignors to Universal Electric Welding Company. Girder. 1,620,362; Mar. 8.
- La Choy Food Products, Inc. (See Peters, Lewis C., assignor.)
- Lack, William A., Chicago, Ill. Spacing table. 1,625,215; Apr. 19.
- Lacide-Christy Clay Products Company. (See Crawford, James L., assignor.)
- Laconi, Thomas, and A. Ferretti, San Francisco, Calif. Vehicle direction indicator. 1,654,129; Dec. 27.
- La Cou, Arthur C., Midwest, Wyo. Pumping mechanism. 1,617,335; Feb. 15.
- La Croix, Louis E., Baltimore, Md. Vending machine. 1,633,215; June 21.

- Ladane, Alexander. (See Szabo, J., and Ladane.)
 Ladanyi, Alexander. (See Sekely, A., and Ladanyi.)
 Ladd, Frank C., Dalton, and F. G. Neal, Springfield, assignor to Eastern Manufacturing Company, Boston, Mass. Belt for paper-finishing machines. 1,641,173; Dec. 6.
 Ladd, George F., Forbes, N. Dak. Device for use in sorting and delivering mail. 1,640,083; Aug. 23.
 Ladd, J. B. (See Kirkpatrick, Robert S., assignor.)
 Ladd, James B. (See Schultz, Edward, assignor.)
 Ladd, John W., Co. (See Williams, Henry E., assignor.)
 Ladd, Lester L., Lockport, Ill. Grain-sorting device. 1,622,386; Mar. 29.
 Laid, Lester L., Lockport, assignor to Photometric Products Corporation, Chicago, Ill. Selecting device. 1,649,168; Nov. 16.
 Laddison, Isaac M., Dayton, Ohio. Shock-absorbing wheel. 1,619,073; Mar. 1.
 Laddison, Isaac M., W. A. Ring, and F. W. Herman, Dayton, Ohio, assignors to Bendix Brake Company, Chicago, Ill. Reinforced wheel. 1,640,573; Aug. 30.
 Lader, Jack, Brooklyn, N. Y., assignor to C. R. Whiting Co., Newark, N. J. Lining paper or similar article. Dec. 72,519; Apr. 26.
 Lader, Jack, Brooklyn, assignor to Censon Mills, Ch. Perman & Sons, Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 73,089; July 19.
 Lader, Jack, assignor to Censor Mills, Ch. Perman & Sons, Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 73,615; Oct. 11.
 Ladewich, Edward G., Mansfield, Ohio. Monument. Des. 72,623; May 10.
 Ladewich, Edward G., Mansfield, Ohio. Monument. Des. 72,624; May 10.
 Ladewich, Archie E., Waukegan, Wis., assignor, by mesne assignments, to The Creamery Packing Mfg. Company, Chicago, Ill. Bottle-washing machine. 1,653,638; Dec. 27.
 Ladewig, Emil, Vienna, Austria, assignor to Böhmische Maschinenfabrik und Export Gesellschaft Klatscher und Lorenz, Prague, Czechoslovakia. Sets of toy interfitting building blocks. 1,642,249; Sept. 13.
 Laencher, Frederick W., Brooklyn, assignor to A. Kimball Company, New York, N. Y. Machine for operating upon ticket strips. 1,650,076; Nov. 22.
 Lafram, Ferdinand, Paris, France. Rotary tubular crystallizer cooker. 1,649,601; Nov. 15.
 Lafuente, Ferdinand, Paris, France. Crystallizer. 1,653,712; Dec. 27.
 Lafever, George, Ridgfield, assignor to American Lock Nut Company, Longview, Wash. Lock nut. 1,639,511; Aug. 16.
 Lafrin, Fred, Chicago, Ill. Combination spool and pin-suction holder. 1,642,860; Sept. 20.
 Lafitte, Theodore, Genville, France. Aeroplane bomb with safety device. 1,643,385; Sept. 27.
 Laflin, Lloyd A., Lake Forest, assignor to Elgin National Watch Company, Chicago, Ill. Movement-converting device for meters. 1,634,785; July 5.
 La Fountain, William H., Glendale, Calif. Rotary dusting machine. 1,616,132; Feb. 1.
 La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Delivering charges of molten glass. 1,618,290; Feb. 22.
 La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Forming charges of molten glass. 1,626,737; May 3.
 La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Conveying apparatus. 1,626,738; May 3.
 La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Cooling molds. 1,633,023; June 21.
 La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Machine for forming glass articles. 1,636,675; July 19.
 La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Machine for forming glass articles. 1,641,497; Sept. 6.
 La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,650,368; Nov. 22.
 Lagaard, Alexander S. T. (See Thom, W. W., Lagaard, and Walzer.)
 La Gasa, Arthur J. U. S. Navy. Rotary internal-combustion engine. 1,618,448; Feb. 22.
 Lage, Ernst A., Hainburg, Germany. Producing colored photographs (positive prints on paper or the like). 1,623,127; Apr. 5.
 Lage, Frederick, Gladbrook, Iowa. Ont huller. 1,636,309; July 19.
 Lagerbach, Edward A. (See Blecker, William M., assignor.)
 Lagerman, Walter C. (See Leach, E. J., and Lagerman.)
 Lageron, Isaac V., Philadelphia, Pa. Construction for suspending fabrics. 1,654,422; Dec. 27.
 La Grange, William, Brooklyn, N. Y. Apparatus for raising sunken ships. 1,643,247; Sept. 20.
 Laher, Frank J., Oakland, Calif. Automobile bumper. 1,613,837; June 11.
 Laher, Frank J., Oakland, Calif. Automobile bumper. 1,615,333; Jan. 25.
 Laher, Frank J., Oakland, Calif. Automobile bumper. 1,617,716; Feb. 15.
 Laher, Frank J., Portland, Oreg. Vehicle bumper. 1,625,550; Apr. 19.
 Laher, Frank J., Portland, Oreg. Vehicle spring. 1,640,778; Aug. 30.
 Laher, Frank J., Portland, Oreg. Luggage carrier for automobiles. 1,640,779; Aug. 30.
 Laher, Frank J., Portland, Oreg. Shock absorber. 1,640,780; Aug. 30.
 Laher, Frank J., Oakland, Calif. Automobile luggage carrier. 1,637,751; Aug. 2.
 Laher, Frank J., Oakland, Calif. Combined automobile luggage carrier and bumper. 1,637,752; Aug. 2.
 Lahey, Frank T., Akron, Ohio. Storage battery. 1,633,257; June 21.
 Lahey, John A., Sewaren, N. J. Fire-flame-coloring means. 1,625,475; Apr. 19.
 Lahman, Harry A., Kansas City, Kans. Flower holder. Des. 73,403; Sept. 6.
 La Hodny, William, assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Glass plate for a mirror or the like. Des. 73,660; Oct. 13.
 La Hodny, William, assignor to Standard Mirror Company, Buffalo, N. Y. Mirror bracket. 1,623,483; Apr. 5.
 La Hodny, William, assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Mirror bracket. 1,651,896; Dec. 6.
 La Hodny, William, and F. X. Kibitz, assignors to Standard Mirror Company, Inc., Buffalo, N. Y. Glass-plate fastener. 1,631,033; May 31.
 La Hodny, William, and F. X. Kibitz, assignors to Standard Mirror Company, Inc., Buffalo, N. Y. Mirror bracket. 1,647,803; Nov. 1.
 Lahouze, Joseph E. G., Ternay, assignor to Société pour l'Etude de la Sole Rhodaseta, Paris, France. Manufacture of hollow artificial textile fibers. 1,652,206; Dec. 13.
 Laidlaw, Alexander B. S. (See Drew, E. S., and Laidlaw.)
 Laidlaw, Walter G., assignor to Kleen Kap Corporation, Syracuse, N. Y. Bottle closure. 1,636,422; July 19.
 Laier, Emil, Kansas City, Mo., Buckle. 1,646,545; Oct. 25.
 Lain, David E. (See Burpee, J. H., and Lain.)
 Laing, William V., Eastwood, near Sydney, New South Wales, assignor to F. H. Miller, Roseville, near Sydney, Australia. Smoker's outfit. 1,613,661; Jan. 11.
 Lair, John P. (See Crain, Harry G., assignor.)
 Laird, Carl L., Galveston, Tex. Reeling iron. 1,627,515; May 3.
 Laird, John H., Louisville, Ky. Headlamp. 1,625,946; Apr. 26.
 Laird, Myrtle B., Greeley, Colo. Shoulder strap for ladies' garments. 1,616,267; Feb. 1.
 Laird, Wilbur G., New York, N. Y. Storage apparatus. 1,628,635; May 10.
 Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Door-closing device. 1,615,878; Feb. 1.
 Laird, Willis R., et al. (See Corlew, C. M., and Blohm, assignors.)
 Laire, Ica C., Logansport, Ind. Hand protector. 1,654,331; Dec. 27.
 Laise, Clemens A., Haworth, N. J. Apparatus and method of wire drawing and alloy wires used for radiators and other purposes. 1,614,662; Jan. 18.
 Laise, Clemens A., Haworth, N. J. Refractory metal alloy of high density and high melting point and making the same. 1,633,258; June 21.
 Laise, Clemens A., assignor to The Electron Relay Company, Toledo, Ohio. Refractory metal product and making same. 1,631,493; June 7.
 Laist, Frederick, and F. F. Frick, Anaconda, Mont. Concentration of minerals from ores by the use of sulphones as flotation reagents. 1,629,080; May 17.
 La Joie, Hubert J., assignor to Auto Pneumatic Action Company, New York, N. Y. Pneumatic pump construction. 1,631,274; June 7.
 La Joie, Hubert J., East Orange, N. J., and U. Urquhart, New York, N. Y., assignors to Auto Pneumatic Action Company. Pneumatic action for musical instruments. 1,638,345; Aug. 9.
 Lake, Alexander H., Marshfield, Wis. Webbed hand for swimmers. 1,625,730; Apr. 19.
 Lake, Allan F., Oakland, assignor to Lake Mfg. Co., San Francisco, Calif. Bell. 1,628,367; May 10.
 Lake, Arthur E., Bishops Stortford, England. Lifting jack. 1,647,049; Oct. 25.
 Lake, Clyde A., Detroit, Mich. Liquid-level indicator. 1,633,113; June 21.
 Lake Erie Trust Company, The. (See Goss, Harold J., assignor.)
 Lake, Fred L., Dallas, Tex. Flexible hand stamp. 1,640,414; Aug. 30.
 Lake, William, New York, N. Y. Device for fastening covers. 1,634,619; July 5.
 Lake Mfg. Co. (See Lake, Allan F., assignor.)
 Lake, Simon, Milford, Conn. Concrete-molding apparatus. 1,623,625; Apr. 5.
 Lake, Simon, Milford, Conn. Apparatus for the treatment of waste refuse. 1,629,108; May 17.
 Lakeman, William R., Rochester, N. Y. Machine for cleaning electrotypes plates. 1,633,216; June 21.
 Lakewood Engineering Company, The. (See Mosel, Joseph H., assignor.)

- Lakovsky, Georges, Paris, France. Diaphragm for telephonic apparatus. 1,640,330; Aug. 28.
- Lalli, Vincenzo, St. Albans, N. Y. Hod. 1,643,163; Sept. 20.
- Lally, John, Boston, Mass. Fireproof building construction. 1,625,899; Apr. 26.
- Lally, John, Great Neck, N. Y. Reinforced-concrete-floor construction. 1,625,900; Apr. 26.
- La Londe, Moses, assignor to W. B. Russell, Springfield, Mass. Brake-adjusting device. 1,639,379; Aug. 16.
- Lalor Fuel Oil System Company, The. (See Lalor, James D., assignor.)
- Lalor Fuel Oil System Company, Inc., The. (See Lalor, James D., assignor.)
- Lalor, James D., assignor to The Lalor Fuel Oil System Company, Inc., Baltimore, Md. Fluid-straining apparatus. 1,627,186; May 3.
- Lalor, James D., assignor to The Lalor Fuel Oil System Company, Inc., Baltimore, Md. Valve. 1,643,305; Sept. 27.
- Lalor, James D., assignor to The Lalor Fuel Oil System Company, Inc., Baltimore, Md. Filtering apparatus. 1,652,173; Dec. 13.
- La Marca, Stefano, Brooklyn, N. Y. Adjustable shoe. 1,633,413; June 21.
- Lamarque, Gaudencio, and C. Recuero, Buenos Aires, Argentina. Apparatus for serving out beer. 1,646,916; Oct. 25.
- Lamascus, Jesse. (See Beck, L. C., and Lamascus.)
- Lamatsch, Frederick, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Folding-blade adjustment mechanism. 1,639,948; Aug. 23.
- Lamb, Arthur. (See Baird, G. W., and Lamb.)
- Lamb, Charles, and D. R. Radford, Los Angeles, Calif. Valve structure for slush pumps. 1,650,077; Nov. 22.
- Lamb, Charles P., West Haven, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for forming auger bits. 1,653,808; Dec. 27.
- Lamb, Charles B. (See Wood, George E., assignor.)
- Lamb, Charles B., New York, N. Y. Mural decoration. 1,640,781; Aug. 30.
- Lamb, Harry. (See Fee, T. A., jr. and Lamb.)
- Lamb, John, Whitley Bay, England. High-pressure-pump-discharge meter. 1,618,206; Feb. 22.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Electric radiator. 1,614,308; Jan. 11.
- Lamb Knitting Machine Company. (See Wright, Charles L., assignor.)
- Lamb, Morris C., Bernmoundsey, London, England. Preparation of dyeing of leather. 1,628,160; May 10.
- Lamb, Morris C., Bernmoundsey, London, England, assignor to Rohm & Haas Company, Inc., Philadelphia, Pa. Treating of leather. 1,640,706; Aug. 30.
- Lamb, Walter T. (See Eaton, W. D., and Lamb.)
- Lamb, Ward D., Le Mars, Iowa. Can opener. 1,639,193; Aug. 16.
- Lamb, William G., assignor to National Safety Devices Company, Waterloo, Iowa. Signaling apparatus. 1,640,129; Aug. 23.
- Lamb, William G., assignor to National Safety Devices Company, Waterloo, Iowa. Signaling apparatus. 1,640,130; Aug. 23.
- Lambert, Albert L., Narberth, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Vehicle door construction. 1,620,614; Mar. 8.
- Lambert, Albert L., Narberth, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Vehicle door construction. 1,620,615; Mar. 8.
- Lambert, Albert L., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Making axle housings. 1,620,616; Mar. 8.
- Lambert, Albert L., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Post connection for vehicle bodies. 1,629,278; May 17.
- Lambert, Cecil E., Company, The. (See Moon, Charles L., assignor.)
- Lambert, Cecil R., Company, The. (See Preble, Norman H., assignor.)
- Lambert, Charles G. (See Humason, G. A., and Lambert.)
- Lambert, Clara B., Pasadena, Calif. Mixer. 1,645,062; Oct. 11.
- Lambert, Edward G., Ottumwa, Iowa, assignor of one-half to L. Lambert, Wichita, Kans. Cream remover. 1,622,832; Mar. 29.
- Lambert, Ernest E., Indian Orchard, Mass. Smash preventer. 1,647,870; Nov. 1.
- Lambert, Flenes T. (See Perrett, I. G., and Lambert.)
- Lambert, Joseph A. (See Hebert, H., and Lambert.)
- Lambert, Leon. (See Lambert, Edward G., assignor.)
- Lambert, Leon, Biddford, Me. Automobile tire. 1,651,211; Nov. 29.
- Lambert, Oswald, Tamise, Belgium. Cop-winding frame. 1,623,191; Apr. 5.
- Lambert, Oswald, Tamise, Belgium, assignor to James F. Low & Company Limited, Monifieth, Scotland. Self-doffing mechanism for spinning, twisting, and like frames. 1,652,721; Dec. 13.
- Lambert, Oswald, Tamise, Belgium, assignor to James F. Low & Company Limited, Monifieth, Scotland. Overhead gear-driven spindle mechanism for spinning and like machines. 1,654,376; Dec. 27.
- Lambert, Samuel B., St. Louis, Mo. Attachment for clutches. 1,634,948; July 5.
- Lambert, Theron B., and J. McCombs, Murray, Ky. Apparatus for pressing trousers while on wearer. 1,642,819; Sept. 20.
- Lambert Tire & Rubber Co. (See Gillam, Wallace R., assignor.)
- Lambert, Vernon H., Xenia, Ohio. Automatic traction hitch. 1,618,714; Feb. 22.
- Lambert, Victor, Brooklyn, assignor to A. M. Sloss, New York, N. Y. Cofee-pot. 1,632,342; June 14.
- Lamberton, Jack H., Santa Monica, Calif. Shirt. Des. 72,157; Mar. 8.
- Lamberton, John R., Coatbridge, Scotland. Installation for handling and shearing metal plates from plate-rolling mills. 1,630,620; May 31.
- Lambeth, Thomas M., Seattle, Wash. Automatic oil burner. 1,637,376; Aug. 2.
- Lambie, James M., and D. W. Ross, Washington, Pa. Method of and apparatus for forming articles of plastic material. 1,614,526; Jan. 18.
- Lambie, M., and D. W. Ross, Washington, Pa. Mold for casting clay blocks and the like and method of molding. 1,625,947; Apr. 26.
- Lamblin, Alexandre, Paris, France. Radiator. 1,620,769; Mar. 15.
- Lamblin, Alexandre, Paris, France. Cooling radiator for other vehicles and other vehicles and its manufacture. 1,625,665; Apr. 19.
- Lamboy, Lee W., assignor to Sefton Manufacturing Corporation, Chicago, Ill. Chick box. 1,617,059; Feb. 8.
- Lambright, Emanuel, Mansfield, Ohio. Window ventilator. 1,650,946; Nov. 29.
- Lammers, Harry. (See Eitl, Henry G., assignor.)
- Laminated Shim Company. (See Karmazin, John, assignor.)
- Lamm, Anthony, assignor to A. C. Goddard, New York, N. Y. Metallic building construction. 1,654,293; Dec. 27.
- Lamm, Norbert L., et al. (See Ernst, Emil, assignor.)
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gyroscopic stabilizer system. 1,640,549; Aug. 30.
- Lammers, Alfred F. R. (See Lammers, George J. C. and A. F. R.)
- Lammers, Bert C. (See Nelson, P. D., and Lammers.)
- Lammers, George J. C., and A. F. R., Akron, Iowa. Multiple-socket wrench. 1,618,715; Feb. 22.
- Lammine, Theodor, Cologne, Köln-Mulheim, Germany. Manufacturing seamless wrought-iron annealing boxes. 1,623,059; Apr. 5.
- Lammock, W. E., Company, The. (See Holub, Charles J., assignor.)
- Lamont, Dallas R., Brooklyn, N. Y. Electrical measuring instrument. 1,648,989; Nov. 15.
- Lamont, Dallas R., Brooklyn, N. Y. Soap product and process of manufacture. 1,652,900; Dec. 13.
- Lamont, Jesse L., Geneseo, Ill. Signal. 1,641,855; Sept. 6.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Articulated car construction. 1,626,845; May 3.
- Lamont, John W. F., and Herbert Dickinson, London, England, said Dickinson assignor to said Lamont. Sighting indicator for firearms. 1,624,347; Apr. 12.
- Lamont, Lewis H., Chicago, Ill. Thermostatically-controlled heating element. 1,633,589; June 28.
- Lamore Tire Machine Company. (See Adams, Ash, assignor.)
- Lamoureux, William F., Isabella, Tenn. Making sulphuric acid. 1,617,212; Feb. 8.
- Lamoureux, George. (See Frossard, J. A., and Lamoureux.)
- Lampe, Frederick, executor. (See Van Derbeck, S. G., and Bortolin.)
- Lampert, Benjamin H., Oshkosh, Wis. Track construction. 1,634,835; July 5.
- Lampert, Benjamin H., Oshkosh, Wis. Sectional-track construction. 1,634,836; July 5.
- Lampert, Henry H., Chicago, Ill. Adjustable shore. 1,645,038; Mar. 22.
- Lampert, Henry H., Chicago, Ill. Bar support. 1,648,952; Nov. 15.
- Lampert, Henry H., Chicago, Ill. Bar support. 1,648,953; Nov. 15.
- Lampert, Henry H., Chicago, Ill. Anchor for floor sweepers. 1,652,174; Dec. 13.
- Lampole, Lellie F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for vulcanizing rubber. 1,633,590; June 28.
- Lampplough, Leslie F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for vulcanizing material. 1,633,591; June 28.
- Lampros, Peter, Iron Mountain, Mich. Glove. 1,626,846; May 3.
- Lamson Company, The. (See Bengel, Edward C., assignor.)
- Lamson Company, The. (See Cowley, James T., assignor.)
- Lamson Company, The. (See Cunningham, Thomas H., assignor.)
- Lamson Company, The. (See Heppeler, William J., assignor.)
- Lamson Company, The. (See MacLaren, James G., assignor.)

- Lamson Company, The. (See Merrill, William F., assignor.)
- Lamson, Duds M. (See Maus, H. P., and Lamson.)
- Lamy, Edward J., deceased, Elizabeth, N. J.; J. T. Lague executor. Conveyer. 1,644,649; Oct. 4.
- Lanahan, James J. (See Carlson, W. J., and Lanahan.)
- Lanark, William H., Minneapolis, Minn. Sadiron. 1,626,616; May 3.
- Lanaux, Fern, St. Louis, Mo. Clamp. 1,615,948; Feb. 1.
- Lancaster, George W., Richmond, Va. Sheet-metal window and balancing sheet-metal sashes. 1,627,653; May 10.
- Lancaster, George W., Richmond, Va. Connector for sash and sash cord. 1,627,790; May 10.
- Lancaster, Harry V., Louisville, Ky. assignor to Chattanooga Implement & Mfg. Co., Chattanooga, Tenn. Fire-place grate. Des. 72,370; Apr. 5.
- Lancaster, Harry V., Louisville, Ky., assignor to Chattanooga Implement & Mfg. Co., Chattanooga, Tenn. Fire-place grate. Des. 72,371; Apr. 5.
- Lancaster, Harry V., Louisville, Ky., assignor to Chattanooga Implement & Mfg. Co., Chattanooga, Tenn. Fire-place grate. Des. 72,372; Apr. 5.
- Lancaster, Harry V., Louisville, Ky., assignor to Chattanooga Implement & Mfg. Co., Chattanooga, Tenn. Fire-place grate. Des. 72,373; Apr. 5.
- Lancaster Iron Works, Inc. (See Dupuy, Arthur O., assignor.)
- Lancaster, John T., Cambridge, assignor to American Optical Company, Southbridge, Mass. Coating machinery. 1,654,130; Dec. 27.
- Lance, Deuth G., Fulton, Calif. Steel-wool holder. 1,620,903; Mar. 15.
- Lance, Ora L., Fulton, Calif. Garment presser. 1,621,116; Mar. 15.
- Lanchester, Frederick W., Moseley, Birmingham, England. Steering mechanism of road vehicles. 1,621,169; Mar. 15.
- Lanchester, Frederick W., Birmingham, assignor to Lanchester's Laboratories, Limited, Coventry, England. Automobile vehicle. 1,636,673; July 19.
- Lanchester's Laboratories, Limited. (See Lanchester, Frederick W., assignor.)
- Lane, Charles L., Detroit, Mich. Tractor trailer. 1,621,592; Mar. 22.
- Lane, Charles H., Detroit, Mich. Tractor trailer. 1,627,910; May 10.
- Landa, William C., Lancaster, Pa. Fishway. 1,621,170; Mar. 15.
- Landaw, Oak, Nappanee, Ind. Table top. 1,629,799; May 24.
- Landen, Arvid G., Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-energy-translation system. 1,647,998; Nov. 8.
- Landell, Charles E. (See Kiwi, Walter, assignor.)
- Lander, Erik, Oakland, Calif. Steaming appliance to be attached to bathtubs. 1,650,798; Nov. 29.
- Lander, James G., Milwaukee, Wis. Box. 1,644,782; Oct. 11.
- Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
- Landers, Frary & Clark. (See Smart, Joseph F., assignor.)
- Landers, Frary & Clark. (See Smith, C. F., and Edwards, assignors.)
- Landers, Frary & Clark. (See Warner, Alonzo A., assignor.)
- Landgren, Charles A., and J. A. Landgren, Silverton, Oreg. Attachment for frying pans. 1,627,090; May 3.
- Landgren, Julia A. (See Landgren, Charles A. and Julia.)
- Landis, Chester L., Reading, Pa. Hosiery-machine yarn-tension device. 1,648,815; Nov. 8.
- Landis, Frank F., Waynesboro, Pa. Shock absorber. 1,631,099; May 31.
- Landis & Gyr A.-G. (See Mettler, Josef, assignor.)
- Landis & Gyr A.-G. (See Pudelko, Riccard, assignor.)
- Landis, Jeremiah, Brookville, Ohio. Automatic drive gate. 1,624,256; Apr. 12.
- Landis, Jesse A., Eaton, Ohio. Sound reflector. 1,624,873; Apr. 12.
- Landis Machine Company. (See Duchesne, Ernest, assignor.)
- Landis Machine Company. (See Schildknecht, Leo, assignor.)
- Landis Machine Company. (See Shearer, Harry T., assignor.)
- Landis Tool Company. (See Steiner, Amos P., assignor.)
- Landis, Walter S., Whitestone Landing, N. Y., and G. H. Buchanan, Westfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Fumigating. 1,613,590; Jan. 4.
- Landman, Herman, Kansas City, Mo. Ice-cream-dipper hold. 1,620,110; Mar. 8.
- Landon, Benjamin D., Canton, Pa. Tractor-wheel attachment. 1,630,950; May 31.
- Landon, Elvie, Waterloo, Iowa. Vehicle wheel. 1,622,593; Mar. 29.
- Landon, Elvie, Waterloo, Iowa. Air-storing shock absorber. 1,630,915; July 28.
- Landon, Elvie, Waterloo, Iowa. Propelling device for aeroplanes. 1,642,752; Sept. 20.
- Landon, Vernon D., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio cabinet. Des. 72,625; May 10.
- Landon, Vernon D., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control for pancake-type variometers. 1,621,015; Mar. 15.
- Landraud, Marc, Rejane, France. Apparatus for guiding flexible bands or belts in motion. 1,644,927; Oct. 11.
- Landrum, Mark L., Plymouth, Calif. Automatically-adjusting gear puller. 1,644,839; Oct. 11.
- Landrum, Reginald F., assignor of one-half to C. W. Campbell, Norfolk, Va. Lock for electrical connectors. 1,651,283; Nov. 29.
- Landry, Aidel, assignor to Hemphill Company, Central Falls, R. I. Yarn-feeding mechanism for knitting machines. 1,643,341; Sept. 27.
- Landsberger, Ernest P., Hastings, Minn. Heater. 1,613,761; Feb. 22.
- Landsiedel, Harry, Norwood, Ohio, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding machine. 1,624,104; Apr. 12.
- Landsiedel, Harry, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Nonpat. mechanism for adding machines. 1,633,788; June 28.
- Landsiedel, Walter W., Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Calculating and recording machine. 1,624,105; Apr. 12.
- Landsiedel, Walter W., Norwood, Ohio, assignor, by these assignments, to Remington Rand Inc., Yonkers, N. Y. Calculating machine. 1,643,478; Nov. 15.
- Lane, Alexis T., New York, N. Y. Combined cape and hat protector. 1,626,258; Apr. 26.
- Lane, Annie M., Los Angeles, Calif. Tire structure. 1,637,735; Aug. 2.
- Lane, Arthur J., Waco, Tex. Vegetable spray. 1,653,809; Dec. 22.
- Lane, Charles, Jefferson, Wis. Disappearing headrest. 1,632,737; June 14.
- Lane, Edward L., Mooresville, N. C., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Protector for looms. 1,643,412; Sept. 27.
- Lane, Edwin, assignor to Carolyn Laundry, New York, N. Y. Laundry check. 1,620,158; Mar. 8.
- Lane, Edwin, assignor to Carolyn Laundry, New York, N. Y. Laundry checking device. 1,621,259; Mar. 15.
- Lane, Edwin, assignor to Carolyn Laundry, New York, N. Y. Laundry-handling device. 1,624,551; Apr. 19.
- Lane, Franklin E., Nacozari, Mexico. Coffeepot. 1,624,606; Apr. 12.
- Lane, Franklin L., assignor to Yates-American Machine Company, Beloit, Wis. Sectional hold-down bar for endless bed sanders. 1,618,207; Feb. 22.
- Lane, Edw. T., Spokane, Wash. Valve. 1,641,892; Sept. 6.
- Lane, George L., and W. E. Sykes, Marietta, Ohio. Well-drilling machine. 1,621,636; Mar. 22.
- Lane, Henry W., Ione, Calif. Foot accelerator. 1,629,919; May 24.
- Lane, Jeremiah J. (See Quinn, John J., assignor.)
- Lane, Joseph E., Cambridge, Mass. Carton-end-closing device for packaging machines. 1,624,257; Apr. 12.
- Lane, Joseph E. (See Agricola, Herman A., Jr., assignor.)
- Lane, Leavitt J., Hamden, assignor to Winchester Repeating Arms Co., New Haven, Conn. Manufacture of split-bamboo fishing rods. 1,645,812; Oct. 18.
- Lane, Louis, Habana, Cuba. Crystal detector. 1,617,956; Feb. 15.
- Lane, Moses R., Ardmore, Pa. Apparatus for supporting lawn-tennis nets and the like. 1,632,553; June 14.
- Lane, Munson H. (See Carson, Clark, assignor.)
- Lane, Victor E., Detroit, Mich. Nonoxidizing annealing furnace. 1,622,558; Apr. 2.
- Lane, Walter, assignor to Bush & Lane Piano Company, Holland, Mich. Upright piano. 1,635,755; July 12.
- Lane, Wilfred C., et al. (See Wagoner, John E., assignor.)
- Lane, William E., St. Louis, Mo., assignor to Underwood Typewriter Company, New York, N. Y. Scale plate for typewriting machines. 1,631,494; June 7.
- Lane, John J., Minneapolis, Minn. Faucet connection for drain flushers. 1,617,804; Nov. 1.
- Lanfranchi, Jean T., Paris, France, assignor to N. J. and B. J. Garfunkel, New York, N. Y. Shock-protector capable of acting as lifting-jacks. 1,653,218; Dec. 20.
- Lang, Abdon S., Jamaica Plain, Mass. Saxophone cord. 1,637,009; July 26.
- Lang, Arthur A. D., London, England. Vehicle wheel. 1,639,570; Aug. 16.
- Lang, Edward M., Jr., 3rd, Portland, Me. Food-preserving can. 1,616,629; May 24.
- Lang, Elmer L., and G. H. Boston, Mass. Marking machine. 1,615,017; Jan. 18.
- Lang, Franz, Munch-Lichtenburg, Germany, assignor to Aéro Aktiengesellschaft, Kussnacht-on-the-Rigi, Switzerland. Two cycle internal combustion engine. 1,645,199; Oct. 11.
- Lanz, Frederic H., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Piano remover. 1,615,080; Jan. 18.
- Lanz, Frederick W., et al. (See Hawhurst, John J., assignor.)
- Lanz, George E., assignor to Oxford Varnish Corporation, Detroit, Mich. Producing wood grain surfaces. 1,651,136; Nov. 29.
- Lang, George H. (See Lang, Elmer L. and G. H.)

- Lang, George H., Philadelphia, Pa. Inlet box for drains. 1,622,652; Mar. 29.
- Lang, George H., assignor to Stover-Lang Company, Boston, Mass. Speed indicator. 1,640,197; Aug. 23.
- Lang, George R. (See Smith, Norman C., assignor.)
- Lang, George W., Litchfield, Neb. Can spout. 1,641,003; Aug. 30.
- Lang, Henry T., assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Dynamo-electric machine. 1,623,846; Apr. 5.
- Lang, Henry T., assignor to Electric Vacuum Cleaner Co., Inc., Cleveland, Ohio. Dynamo-electric machine. 1,635,047; July 5.
- Lang, Josef K., Kitzingen-on-the-Main, Germany. Seat for water-closets. 1,648,485; Nov. 8.
- Lang, Niels, Vancouver, British Columbia, assignor to Lang's Daylight Lamp, Vancouver, Canada. Lamp reflector. 1,625,948; Apr. 26.
- Lang, Philip, assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Electromechanical bar interlock for elevator doors. 1,615,090; Jan. 18.
- Lang, Philip, assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Door bolt. 1,622,791; Mar. 29.
- Langdon, William B., Hawley, Pa., assignor of one-third to R. Nagel and one-third to M. Marks, New York, N. Y. License-plate holder. 1,650,454; Nov. 22.
- Langbein, Harold W., Los Angeles, Calif. Brake-testing machine. 1,612,928; Jan. 4.
- Langbein, Werner. (See Wagner, H., Langbein, Beck, and Thies.)
- Langdon-Davies, Walter, deceased, and A. Soames, London, England; C. F. Wright, executor of estate of W. Langdon-Davies, assignor to said Soames. Automatic electric-current regulator. 1,615,018; Jan. 18.
- Langdon, Frank E., Vancouver, Wash. Winding shaft. 1,631,538; June 7.
- Langdon, Jesse D., Los Angeles, Calif., assignor to Petroleum Machinery Development Corporation, Reno, Nev. Deep-well pump. 1,642,211; Sept. 13.
- Langdon, Jesse D., Los Angeles, Calif., assignor to Petroleum Machinery Development Corporation, Reno, Nev. Deep-well pump. 1,642,250; Sept. 13.
- Langdon, Jesse D., Los Angeles, Calif., assignor to G. Norris Guthrie, Okla. Device for putting permanent waves in hair. 1,642,251; Sept. 13.
- Langdon, John J., Hartford, Conn. Flush valve. 1,626,289; Apr. 26.
- Langdon, Lowell J. (See Kennon, L. H., and Langdon.)
- Langbe, Berthold A., St. Louis, Mo. Egg crate. 1,618,381; Feb. 22.
- Langbe, Edward H., Baltimore, Md. Stabilizing amplifiers. 1,640,927; Oct. 18.
- Langbe, Edward H., New York, N. Y. Stabilizing amplifiers. 1,628,890; May 17.
- Langbe, George H. (See Linden, C. E., and Lange.)
- Lange, Henry, Quincy, Ill. Combination stove. Des. 72,520; Apr. 26.
- Lange, Henry, Quincy, Ill. Coal range. Des. 73,661; Oct. 18.
- Lange, Henry, Quincy, Ill. Combination range. 1,637,950; Aug. 2.
- Lange, Louisa G., Passaic, N. J. Apparatus for inserting insulating disks in metal caps. 1,629,513; May 24.
- Lange, Paul H. (See Brenzinger, J., and Lange.)
- Lange, Paul H., assignor to The Max Ams Machine Company, Bridgeport, Conn. Edging machine. 1,615,711; Jan. 25.
- Lange, Paul H., assignor to The Max Ams Machine Company, Bridgeport, Conn. System of handling can bodies. 1,639,512; Aug. 16.
- Lange, Paul H., assignor to The Max Ams Machine Company, Bridgeport, Conn. Body-forming mechanism. 1,639,513; Aug. 16.
- Lange, Paul H., assignor to The Max Ams Machine Company, Bridgeport, Conn. Horn-supporting means. 1,639,514; Aug. 16.
- Lange, Paul H., assignor to The Max Ams Machine Company, Bridgeport, Conn. Seaming mechanism. 1,639,515; Aug. 16.
- Lange, William L., New York, N. Y. Tone-modifying device for banjos. 1,615,460; Jan. 25.
- Lange, William L., New York, N. Y. Banjo. 1,623,735; Apr. 5.
- Lange, William L., New York, N. Y. Banjo. 1,625,811; Apr. 26.
- Langen, George H. (See Linden, C. E., and Langen.)
- Langen, Peter N. F., Valparaiso, Chile. Steam boiler. 1,644,064; Oct. 4.
- Langenbach, Albert, Chicago, Ill. Planetary gear controlled propeller. 1,638,423; July 19.
- Langenbeck, Bernhard, Lichterfelde-West, near Berlin, and A. Merten, Pankow, near Berlin, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Holding or attaching means for ear telephones, listening tubes, and similar devices for improving the hearing. 1,614,987; Jan. 18.
- Langenberg, Frederick C. (See Solberg, John C., assignor.)
- Langenfeld, Adolph L., New Holstein, Wis. Propulsion link for endless traction belts. 1,633,259; June 21.
- Langer, Hans, Berlin-Charlottenburg, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Producing tuberculosis protective and curative material. 1,617,060; Feb. 8.
- Langer, Harry, Milwaukee, Wis. Knitting machine. 1,614,073; Jan. 11.
- Langer, Henry, New York, N. Y., assignor to The Baltimore Enamel & Novelty Company, Baltimore, Md. Wall covering. 1,651,332; Nov. 29.
- Langer, Julius, Hamburg, Germany. Fire bridge. 1,620,215; Mar. 8.
- Langer, Rudolph J., assignor, by mesne assignments, to Franklin Equipment Company, Monticello, Iowa. Stanchion. 1,621,209; Mar. 15.
- Langer, Rudolph J., assignor, by mesne assignments, to Franklin Equipment Company, Monticello, Iowa. Stop bar. 1,621,210; Mar. 15.
- Langerak, Meyer. (See Langerak, Wigert, assignor.)
- Langerak, Wigert, assignor of one-half to M. Langerak, Pella, Iowa. Grain weigher. 1,631,376; June 7.
- Langevin, Felix D. (See Whitlier, J. K., Langevin, and Curley.)
- Langevin, Felix D., Lowell, assignor to Saco-Lowell Shops, Boston, Mass. Lap-winding machine. 1,618,716; Feb. 22.
- Langitt, Pearley E. (See Thomas, E. R., and Langitt.)
- Langford, George W., assignor to Economy Baler Company, Ann Arbor, Mich. Baling press. 1,650,992; Nov. 29.
- Langham, Ernest J., Johnstown, Pa. Shoring device. 1,639,516; Aug. 16.
- Langill, Ross E., and W. B. Grueter, assignors to The Frankford Company, Menominee, Mich. Sawmill dog. 1,637,907; Aug. 2.
- Langkammerer, Karl, assignor to Robel & Co., Munich, Germany. Double-acting ratchet wrench. 1,652,367; Dec. 13.
- Langkop, Theodore F. (See McCarty, E. E., Dicus, and Langkop.)
- Langlais, Simou, Montreal, Quebec, Canada. Tool-grinding machine. 1,624,259; Apr. 12.
- Langley, Herman O., St. Albans Gardens, N. Y. Camera-supporting means. 1,623,579; May 24.
- Langley, Philip G. (See Christensen, C., and Langley.)
- Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Dial. 1,631,687; June 7.
- Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Variable condenser. 1,652,901; Dec. 13.
- Langmuir, Frank H., Woodbury, N. J., assignor to Belber Trunk & Bag Company, Philadelphia, Pa. Trunk. 1,628,985; May 17.
- Langmuir, Frank H., assignor to Hartmann Trunk Company, Racine, Wis. Trunk lock. 1,654,179; Dec. 27.
- Langmuir, Irving. (See Kingdon, K. H., and Langmuir.)
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Signaling system. 1,615,636; Jan. 25.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Sound-locating apparatus. 1,622,594; Mar. 29.
- Lang's Daylight Limited. (See Lang, Niels, assignor.)
- Langsdorf, Walter M., New York, N. Y. Back of a mirror or similar article. Des. 72,100; Mar. 1.
- Langsner, Adolph, assignor to Eugene Dietzgen Co., Chicago, Ill. Surveying instrument. 1,633,749; June 28.
- Langsner, Adolph, assignor to Eugene Dietzgen Co., Chicago, Ill. Measuring instrument. 1,646,826; Oct. 25.
- Langston, Robert L., assignor to Wayne Company, Fort Wayne, Ind. Apparatus for purifying used mineral lubricating oil. 1,640,415; Aug. 30.
- Langston, Samuel M., Company. (See Sieg, Karl, assignor.)
- Langston, Samuel M., Wenonah, N. J. Machine for making corrugated paper. 1,642,732; Sept. 20.
- Langstroth, Clifford B., and G. G. Wunder, assignors to A. O. Smith Corporation, Milwaukee, Wis. Weld rod for arc welding. 1,643,274; Sept. 20.
- Languepin, Jacques E. J., Paris, France. Machine for electric welding, soldering, or the like. 1,622,792; Mar. 29.
- Langwell, Herbert, Epsom, England. Fermentation of cellulose. 1,639,571; Aug. 16.
- Langham, Frank V., Dallas, Tex. Pavement. 1,623,417; Apr. 5.
- Lanning, James K. (See Branco, Jacquin M. C., assignor.)
- Lanning, James K. (See Webster, Charles B., assignor.)
- Lanning, James K., Fall River, Mass. Half lap for combing textile fibers. 1,620,031; Mar. 8.
- Lanning, John G., assignor to Detroit Lubricator Company, Detroit, Mich. Carburetor. 1,630,493; May 31.
- Lanning, William H., assignor to W. W. Blakey, Detroit, Mich. Vehicle anchorage device. 1,617,400; Feb. 15.
- Lannom Manufacturing Company. (See Lannom, Sharp, Jr., assignor.)
- Lannom, Sharp, Jr., assignor to Lannom Manufacturing Company, Grinnell, Iowa. Baseball center. 1,636,518; July 19.
- Lannon, John D., and R. R. Todd, Pontiac, assignors to General Motors Corporation, Detroit, Mich. Piston. 1,634,151; June 28.
- Lanoue, Henry S., Woonsocket, R. I., assignor of one-half to J. L. Koller, Worcester, Mass. Butter-cutting device. 1,647,098; Oct. 25.
- Lanphere, Clive W., New York, N. Y. Universal Jimmy-proof automatic lock. 1,621,549; Mar. 22.

- Janquetin, Léon, assignor to Société Etablissements Dineclier, Paris, France. Electric apparatus serving as a dynamo or motor and as an engine starter. 1,644,005; Oct. 4.
- Lansing, Raymond P., et al. (See Church, Harold D., assignor.)
- Lansing, Raymond P., et al. (See Marcus, Charles, assignor.)
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Ignition apparatus. 1,637,704; June 28.
- Lanson, Paul J., San Francisco, Calif. Liquid-level gauge. 1,617,315; Feb. 8.
- Lansrud, Emile A., Des Moines, Iowa. Automatic sand valve. 1,646,753; Oct. 25.
- Lantagne, Joseph, Canteledra, R. I. Meat jack. 1,631,827; June 7.
- Lantz, Alpha D., assignor to L. Heltman, Sidney, Ohio. Poultry waterer. 1,642,304; Sept. 13.
- Lanz, Arthur, Oerlikon, Switzerland. Flexible coupling. 1,652,534; Dec. 13.
- Lanz, Heinrich, Aktiengesellschaft. (See Huber, Fritz, assignor.)
- Lanza, Benjamin, Philadelphia, Pa. Ball conveyor. 1,630,345; May 31.
- Lanza, Frank, Philadelphia, Pa. Ductile wire trough for billiard tables. 1,620,242; Apr. 26.
- Lanza, Luigi, Placenza, Italy. Construction of buildings. 1,646,113; Oct. 18.
- Lanzi, Elmo G., assignor to Bonus Candy Corporation, Chicago, Ill. Chocolate-dipping machine. 1,637,577; Aug. 2.
- Lanzetta, Rudolph, Lynch, Ky. Spring sash balance. 1,654,423; Dec. 27.
- Lanka, Gustav A., et al., administrators. (See Luyties, Otto G.)
- La Pauch, Louis T., Oakland, Calif. Handle-securing means for bottles. 1,617,213; Feb. 8.
- La Roche, William B., and W. H. Salt Lake City, Utah. Telephone receiver. 1,622,950; Mar. 29.
- La Pearle, William H. (See La Pearle, William E. and W. H.)
- Lapenta, Vincent A., and S. Reiser, Indianapolis, Ind. Medical preparation of coloidal bismuth. 1,615,226; Jan. 25.
- Lapham, Anna M., St. Paul, Minn. Parcel carrier for shoppers. 1,635,423; July 12.
- La Pierre, Alexander J., New York, N. Y. Pneumatic protective means. 1,616,268; Feb. 1.
- La Pierre, Alexander J., New York, N. Y. Bath's safety appliance. 1,617,003; Feb. 8.
- La Pierre, Julian B., Chicago, Ill. Steering wheel. 1,646,410; Oct. 25.
- La Pierre, Julian B., Chicago, Ill. Steering wheel. 1,646,411; Oct. 25.
- Lapin, Helen J. (See Lapin, William J., assignor.)
- Lapin, William J., assignor to H. J. Lapin, Gary, Ind. Window ventilator. 1,648,851; Nov. 8.
- Lapkin, Boruch, Toronto, Ontario, Canada, assignor to B. E. Lloyd, Woodcliff, N. J. Eye mounting. 1,644,735; Oct. 11.
- La Roche, B., Limited, et al. (See Weber, Isaac E., assignor.)
- Lapp, Claude J., Iowa City, Iowa, assignor to H. G. Dorsey, Washington, D. C. Means and apparatus for recording sound waves. 1,633,335; June 21.
- Lapp Insulator Company. (See Lapp, John S., assignor.)
- Lapp, John S., assignor to Lapp Insulator Company, Le Roy, N. Y. Strain insulator. 1,654,047; Dec. 27.
- Lapp, Wilhelm. (See Graf, R., and Lapp.)
- Lapp, William H., Chicago, Ill., assignor to The Concentrate Products Company. Supplementary poultry food material. 1,645,703; Oct. 18.
- Laragas, Nikitas, Peabody, Mass. Lock. 1,621,422; Mar. 15.
- La Prain, John. (See O'Neal, H. D., and La Prain.)
- Larbaester, Ernest, assignor to Fort William Paper Co., Limited, Fort William, Ontario, Canada. Core-tip-re moving machine. 1,633,593; June 28.
- Larc, Frank W., Panuco, Mexico. Boiler-tube-cutting device. 1,631,495; June 7.
- Larc, Frank W., Monclova, Mexico. Boiler-tube-cutting device. 1,653,186; Dec. 20.
- Larcho, Marvin S., Bowie, Tex. Barbecue oven. 1,641,818; Sept. 8.
- Large, Edward N., Rydewood, Wash. Saw clamp. 1,625,666; Apr. 19.
- Large, Elmer R., and C. M. Freeman, Tampa, Fla. Road signal. 1,649,708; Nov. 15.
- Larsen, Fred C., Creighton, Neb. Variable-speed pulley. 1,643,124; Sept. 20.
- Largent, William W., and C. A. Stiles, Tyrone, Pa. Socket member. 1,629,217; May 17.
- Larimer Company, The. (See Otto, Miller W., assignor.)
- Larison, Eldon L., Anaconda, Mont. Manufacture of sulfuric acid. 1,631,130; June 7.
- Larison, Eldon L., Anaconda, Mont. Device for distributing liquids. 1,638,042; Aug. 9.
- Larison, Eldon L., F. F. Erick, and R. J. Caro, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Making monoammonium phosphate. 1,628,792; May 17.
- Larison, Eldon L., assignor to Anaconda Copper Mining Company, Anaconda, Mont. Concentration by evaporation of phosphoric acid. 1,648,137; Nov. 8.
- Larkie, Loyd P., et al. (See Smith, Lawrence F., assignor.)
- Larkin, Arthur J., Council Bluffs, Iowa, assignor of one-third to J. J. Dadds, Omaha, Neb. Power wheel. 1,620,363; Mar. 8.
- Larkin Automotive Parts Company, The. (See De Loache, George W., assignor.)
- Larkin, Elwood T. (See Crigui, C. A., and Larkin.)
- Larkin, Elwood T., assignor to C. A. Crigui, Buffalo, N. Y. Internal-combustion engine with rotary valve. 1,642,734; Sept. 20.
- Larkin, Elwood T., assignor to C. A. Crigui, Buffalo, N. Y. Internal-combustion engine. 1,642,735; Sept. 20.
- Larkin, Howard E., Raton, N. Mex. Vaporizing carburetor. 1,618,449; Feb. 22.
- Larkin, James F., Los Angeles, Calif. Ball and seat. 1,617,603; Feb. 15.
- Larkin, James F., Los Angeles, Calif. Ball and seat valve. 1,621,889; Mar. 22.
- Larkin, Kern W., Detroit, Mich. Automatic air moistener for hot-air furnaces. 1,614,478; Jan. 18.
- Larkin, Walter, Norristown, assignor to Fidelity Machine Company, Philadelphia, Pa. Dogless knitting machine. 1,614,465; Jan. 4.
- Larkin, Walter, Norristown, assignor to Fidelity Machine Company, Philadelphia, Pa. Stripping attachment for knitting machines. 1,624,792; Apr. 12.
- Larkin, William H., Pittsburgh, Pa. Automatic dumping car. 1,621,075; Mar. 15.
- Larned, William A., Summit, N. J., assignor to The Dayton Steel Raquet Company, Dayton, Ohio. Controlling the tension of a tennis racket stringing. 1,635,943; July 12.
- Larner, Chester W., Philadelphia, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Plunger valve. 1,629,957; May 24.
- Larner, Chester W., Philadelphia, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Double-plunger valve. 1,636,661; July 19.
- Larner, Chester W., Philadelphia, Pa., assignor to I. P. Morris Corporation. Valve. 1,636,662; July 19.
- Laro, Joseph, Fenton, Mich. Fabric material and obtaining same from cement bags. 1,626,201; Apr. 26.
- La Rocco, Michael, Chicago, Ill. Shading lens. 1,640,661; Aug. 30.
- La Roche, Olivier, assignor of one-third to W. H. Magill, Hamilton, Ontario, Canada, and one-third to F. X. Monette, Lowell, Mass. Stop mechanism for circular-knitting machines. 1,633,015; Dec. 27.
- Larocque, Eleonor T., Bernardsville, N. J. Furniture cabinet. 1,613,662; Jan. 11.
- La Rosa, John P., Port Chester, N. Y. Swimming device. 1,626,541; Apr. 26.
- La Rosa, William F., Rochester, N. Y. Automatic fuel-oil vapor burner. 1,618,717; Feb. 22.
- Larrair, George M., Indianapolis, Ind. Whirligig. 1,631,539; June 7.
- Larrey, Teodoro, assignor to himself and L. Godard, Mexico, Mexico. Steam-superheating unit. 1,634,670; July 5.
- Larrove Construction Company. (See Tressler, Donald K., assignor.)
- Larrows Milling Company. (See Wertenbruch, Antony, assignor.)
- Larry, Edwin C., assignor to General Railway Signal Company, Rochester, N. Y. Railway-signaling system. 1,627,440; May 3.
- Larsen, Elmer, Princeton, N. J. Automobile safety net. 1,640,961; Nov. 22.
- Larsen, Georg, Brooklyn, N. Y. Adjustable molding strip. 1,653,713; Dec. 27.
- Larsen, Hjalmar R., Newark, N. J. Cooking utensil. 1,627,187; May 3.
- Larsen, John, and Larsen, O. Locking mechanism of hammerless shotguns and rifles. 1,616,501; Feb. 8.
- Larsen, Johannes C., Sturtevant, Wis. Onion harvester. 1,627,289; May 3.
- Larsen, Louis J., Astoria, N. Y. Shackle. 1,646,546; Oct. 25.
- Larsen, Louis J., Long Island City, N. Y. Mounting for looms and sails. 1,650,759; Nov. 29.
- Larsen, Ludwig B., Portland, Oreg. Cutter. 1,653,578; Dec. 20.
- Larsen, Mads M., Colton, Calif. Collapsible camp bed. 1,625,476; Apr. 19.
- Larsen, Niel C., assignor to The American Coach & Body Company, Cleveland, Ohio. Vehicle. 1,637,911; May 10.
- Larsen, Niles L., Oakland, Calif. Motor-operated window. 1,636,519; July 19.
- Larsen, Olaf. (See Valerius, T. L., and Larsen.)
- Larsen, Olaf, Port Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve. 1,634,076; June 28.
- Larsen, Olaf, Port Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve. 1,648,486; Nov. 8.
- Larsen, Ole A., Salt Lake City, Utah. Louver covering for automobile hoods. 1,616,810; Feb. 8.
- Larsen, Volmer E., Chicago, Ill. Bell and buzzer alteration. 1,638,454; Feb. 15.
- Larsh, Everett P., Dayton, Ohio. Short circuit-r. 1,640,900; Aug. 30.
- Larsch, James E. (See De Roo, W. C., and Larsh.)

- Larsh, John M., assignor of one-fourth to W. M. Taylor and one-fourth to G. Smith, Indianapolis, Ind. Road-vehicle steering mechanism. 1,628,851; May 17.
- Larson, Adolph S., North Lake, Wis. Lifting jack. 1,624,106; Apr. 12.
- Larson, Albert. (See Cooper, E. R., and Larson.)
- Larson, Albert G., Piedmont, and E. R. Cooper, San Leandro, Calif.; and Cooper assignor to J. W. Cooper, San Leandro, Calif. Washing-machine mechanism. 1,629,218; May 17.
- Larson, Anna J., Naugatuck, Conn. Holder for flatirons. 1,637,120; July 26.
- Larson, Carl U., National, assignor to S. M. Larson, King County, Wash. Food preservative. 1,654,003; Dec. 27.
- Larson, Charles L., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Rail bond. 1,646,917; Oct. 25.
- Larson, Clifford M., Chicago, Ill. Viscosometer. 1,635,281; July 12.
- Larson, Clifford M., and C. L. Knopf, Chicago, Ill. Diluometer. 1,635,553; July 12.
- Larson, David C. (See Lindquist, D. L., Dunn, and Larson.)
- Larson, Edward, assignor of one-half to D. B. Hoffman, Los Angeles, Calif. Lighting-fixture support. Des. 73,262; Aug. 16.
- Larson, Elmer L., and C. A. Braunger, Oconomowoc, Wis. Container. 1,615,545; Jan. 25.
- Larson, Elvin L., Aberdeen, Wash. Hydraulic brake. 1,626,542; Apr. 26.
- Larson, Eric H., Chicago, Ill., assignor to The Logo-Dial Corporation. Logging device for radio tuning instruments. 1,630,921; May 11.
- Larson, Erick, Paulina, Iowa. Automatic currier and roller. 1,627,516; May 3.
- Larson, Frank A., Lynn, Mass. Feed Mechanism for sewing machines. 1,615,546; Jan. 25.
- Larson, Ivan C., East Providence, and G. S. Cooper, assignor to Kisco Works, Inc., Providence, R. I. Clip-door catch. 1,636,697; July 26.
- Larson, Johannes S., Dee, Ore. Regulator for the pressure of a common source of fluid utilized in operating independent devices. 1,643,624; Sept. 27.
- Larson, John, Littlefork, Minn. Clothespin. 1,630,017; May 24.
- Larson, John M., assignor to National Regulator Company, Chicago, Ill. Regulator for heating systems. 1,650,993; Nov. 29.
- Larson, Jonas E., assignor to Champion Auto Equipment Company, Hammond, Ind. Automobile body. Des. 72,374; Apr. 5.
- Larson, Leonard M. (See Von Boecklin, A. E. L., and Larson.)
- Larson, Louis, New York, N. Y. Multiple-wind lamp shade. 1,614,004; Jan. 11.
- Larson, Lydia F. (See Cooper, E. R., and Larson, assignors.)
- Larson, Martin, La Grange, Ill. Cast or temporary shoe last and making same. 1,647,639; Nov. 1.
- Larson, Oscar H. (See Peterson, William J., assignor.)
- Larson, Samuel E., New York, N. Y., Neb. Gasket for fruit jars. 1,629,346; May 17.
- Larson, Shure, Norway, Iowa. Lock. 1,641,338; Sept. 6.
- Larson, Susie M. (See Larson, Carl U., assignor.)
- Larson, Swan, assignor to Geo. D. Roper Corporation, Rockford, Ill. Pump. 1,639,929; June 14.
- Larson, Winford P., Minneapolis, Minn. Modified pneumococci antigen, antipneumococci serum, and producing the same. 1,621,117; Mar. 15.
- Larson, Winford P., Minneapolis, Minn. Modified bacterin and toxins, immunizing serums, and producing them. 1,621,118; Mar. 15.
- Larson, Winford P., Minneapolis, Minn. Scarlet-fever antigen. 1,621,119; Mar. 15.
- Larson, Winford P., Minneapolis, Minn. Dentifrice. 1,633,336; June 21.
- Larson, Edwin, Rockholm, Sweden. Chain coupling for logs. 1,619,673; Mar. 1.
- Larson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley base. 1,614,201; Jan. 11.
- Larson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Car. air, and electric coupling system. 1,633,139; July 19.
- Larsson, Petrik W., and O. E. Forsberg, assignors to Aktiebolaget Priceps, Gottenborg, Sweden. Press feeding. 1,636,188; July 19.
- Larter & Sons. (See Larter, Warren R., assignor.)
- Larter, Warren R., assignor to Larter & Sons, Newark, N. J. Cord-attaching device. 1,637,698; Aug. 2.
- Larter, Warren R., assignor to Larter & Sons, Newark, N. J. Collar button. 1,638,491; Aug. 9.
- Larter, Warren R., assignor to Larter & Sons, Newark, N. J. Cigar or cigarette holder. 1,653,049; Dec. 20.
- Lartz, William H., assignor to P. H. Magill Foundry and Furnace Works, Bloomington, Ill. Furnace. 1,618,346; Feb. 22.
- Larver Corporation, The. (See Minaeff, Michael G., assignor.)
- La Rue, Harry C. (See Keller, Charles B., assignor.)
- La Rue, Harry F., and W. Zierlein, Fairfield, Iowa. Smoker's stand. Des. 72,101; Mar. 1.
- La Rue, Joseph A., Palestine, Tex. Liquid-dispensing apparatus. 1,654,377; Dec. 27.
- La Rue, William D., Philadelphia, Pa., assignor to Victor Talking Machine Company. Dispensing device. 1,613,614; Jan. 11.
- Larver Corporation, The. (See Minaeff, M. G., and Sachs, assignors.)
- Larver Corporation, The. (See Stirriss, Jacob, assignor.)
- Larczels, Charles F., and C. H. Neumeyer, Flint, Mich. Vaporizing fuel. 1,623,253; Apr. 5.
- Lasar, Frank J. (See Swett, Caswell D., assignor.)
- Lasater, John E., Los Angeles, Calif. Barber's-chair headrest. 1,639,194; Aug. 16.
- Lasater, John P., Paris, Tenn. Bottle. Des. 73,233; Aug. 9.
- Lasavitz, Frank. (See Waitch, John, assignor.)
- Lasche, Fritz, administrator. (See Lasche, O., and Post.)
- Lasche, Oskar, deceased, Westend; P. Lasche, Dresden, administrator; and O. T. Post, Charlottenburg, Germany, assignors to General Electric Company. Purification of water. 1,614,135; Jan. 11.
- Lasco, Stephen, Dunkhannon, Pa. Guide device for musical instruments. 1,639,345; Aug. 16.
- Lash, Frank S., assignor to Jackson & Church Co., Saginaw, Mich. Jointer. 1,653,916; Dec. 27.
- Lashar, Thomas B., Fairfield, Conn., and T. H. Lashar, Chicago, Ill., assignors to Associated Silver Company, Chicago, Ill. Silver-reinforced tableware and making the same. 1,619,872; Mar. 8.
- Lashar, Thomas H. (See Lashar, Thomas B., and T. H.)
- La Shelle, Claude P., and W. A. Behrens, New York, N. Y. Chain guide. 1,635,552; July 12.
- Lashed, A. S., and C. S. Plank, Port Huron, Mich. Nozzle holder. 1,631,874; June 7.
- Lasher, Henry M., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Still. 1,622,452; Mar. 29.
- Lasher, Henry M., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Treating hydrocarbon oil. 1,622,453; Mar. 29.
- Lasier, Emery L., et al. (See Reed, Albert C., assignor.)
- Lasker, Edward, Chicago, Ill. Breast pump. 1,644,257; Oct. 4.
- Lasker, George, Chicago, Ill. Water-tube boiler. 1,616,330; Oct. 11.
- Lasker, William W., Brooklyn, N. Y., assignor to Powers Accounting Machine Corporation, New York, N. Y. Print-bar mechanism. 1,624,956; Apr. 19.
- Lasker, William W., Brooklyn, assignor, by mesne assignments, to Powers Accounting Machine Corporation, New York, N. Y. Counting sorter for perforated cards. 1,643,386; Sept. 27.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Corporation, New York, N. Y. Automatic circuit breaker for electric key punches. 1,643,776; Sept. 27.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Corporation, New York, N. Y. Carriage return for punching machines. 1,643,779; Sept. 27.
- Lasker, William W., Brooklyn, N. Y., and J. Mueller, North Bergen, N. J., assignor to Powers Accounting Machine Corporation, New York, N. Y. Variable feed mechanism for tabulating machines. 1,627,394; May 3.
- Laskey, William B., Marblehead, Mass. Making candy. 1,628,251; May 10.
- Laskey, William G., assignor to Western Electric Company, New York, N. Y. Telephone-switch-board lamp. 1,647,999; Nov. 8.
- Laskey, Mervyn C., Hollywood, Calif. Dental bridge. 1,649,905; Nov. 22.
- La Société Anonyme des Chaux et Ciments de Lafarge et du Tell. (See Maguet, Martial, assignor.)
- La Société d'Etudes, Constructions et Applications Mécaniques. (See Lievens, Léon L., assignor.)
- La Société dite l'Eclairage des Véhicules sur Rail. (See Bénéit, Henri, assignor.)
- La Société pour la Fabrication de la Sole Rhodiaseta. Siege Social. (See Chavassien, Henri L. J., assignor.)
- Lasso, Fred J., assignor of one-half to F. M. Connelly, Galveston, Ill. Mechanical movement. 1,641,498; Sept. 6.
- Lassen, Peter, Roonoke, Tex. Bag-filling device. 1,639,517; Aug. 16.
- Lasswell, Jesse D., Chicago, Ill. Cutter. 1,641,630; Sept. 6.
- Last, Erwin, Vienna, Austria. Electrode to be applied to the human body and making the same. 1,626,617; May 3.
- Lasure, Earl E., assignor to W. C. Lasure, Dayton, Ohio. Fluid-operated brake. 1,645,105; Oct. 11.
- Lasure, Warren C. (See Lasure, Earl E., assignor.)
- Laszlo, Franz, assignor to Thyssen & Co., Aktiengesellschaft, Mulheim-Ruhr, Germany. Rotor for dynamo-electric machines. 1,629,081; May 17.
- Latagallita, Fortunato, Buenos Aires, Argentina. Animal marker. 1,619,424; Mar. 1.
- La Tessa, Tully, Chicago, Ill. Lamp arm. Des. 73,920; Nov. 22.
- La Tessa, Tully, Chicago, Ill. Lamp arm. Des. 73,921; Nov. 22.
- La Tessa, Tully, Chicago, Ill. Lamp arm. Des. 73,922; Nov. 22.
- La Tessa, Tully, Chicago, Ill. Lamp arm. Des. 73,923; Nov. 22.
- La Tessa, Tully, Chicago, Ill. Lamp arm. Des. 73,924; Nov. 22.

- La Tessa, Tully, Chicago, Ill. Lamp arm. Des. 73,925; Nov. 22.
- Latham Litho & Printing Co. (See Habersfeld, Eugen, assignor.)
- Latham Machinery Company. (See Leschhorn, Ernest, assignor.)
- Lathrop, Alfred L., Waukesha, Wis. Mixing device. 1,638,585; Aug. 9.
- Lathrop, Elbert C., Philadelphia, Pa., and T. B. Munroe, Forest Glen, Md., assignors to Dahlberg & Company, Inc., Chicago, Ill. Retted bagasse fiber and producing same. 1,635,594; June 28.
- Lathrop, Harry D. (See McEwan, Charles F., assignor.)
- Lathrop, Harry D. (See Paulson, Walter H., assignor.)
- Lathrop, Harry D., Chicago, Ill. Rotary can washer. 1,653,219; Dec. 20.
- Lathrop, Harry D., and W. H. Paulson, Chicago, Ill.; said Paulson assignor to said Lathrop. Conveyor for washing machines. 1,649,069; Nov. 15.
- Lathrop, Sherman R. (See Johnson, F. H., and Lathrop.)
- Lattimer, Joseph B. (See Michon, Joseph H. M., assignor.)
- Latina, Harry B., East St. Louis, Ill., assignor to Rawlins Manufacturing Company, St. Louis, Mo. Shoulder pad. 1,640,042; Aug. 23.
- Latour Corporation. (See Latour, Marius, assignor.)
- Latour Corporation. (See Latour, Marius C. A., assignor.)
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Vacuum-tube circuit. 1,615,898; Jan. 25.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Electrical conductor. 1,625,125; Apr. 19.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Radio signaling system. 1,627,707; May 10.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Amplifier for electrically-disturbed telephone lines. 1,630,346; May 31.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Electrical system. 1,631,213; June 7.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Electrical apparatus. 1,637,628; Aug. 2.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Speed regulator for high-frequency generating sets. 1,640,002; Aug. 23.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Radio signaling apparatus. 1,643,075; Sept. 20.
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Dynamo-electric machine. 1,650,947; Nov. 29.
- Latour, Marius C. A., Paris, France, assignor to Latour Corporation, Jersey City, N. J. Thermionic amplifying apparatus. 1,614,136; Mar. 11.
- Lataurel, Charles H., Heppner, Oreg. Gun sight. 1,620,304; Mar. 8.
- La Tourrette, Willett J., Denver, Colo. Light-ray-filtering screen. 1,635,367; July 12.
- Latrobe Electric Steel Company. (See Giles, David J., assignor.)
- Latta, Emmitt G., deceased, Syracuse, N. Y.; First Trust and Deposit Company, administrator, assignor to Underwood Typewriter Company. Typewriting machine. 1,629,514; May 24.
- Latta, John L., Hickory, N. C. Pneumatic pump. 1,615,514; Jan. 25.
- Lattimer, James. (See Leon, A., and Lattimer.)
- Lattin, Edward J., Canton, Ohio. Spare-tire carrier. 1,628,728; May 17.
- Laub, Adolf, Basel, assignor to the Firm Progression S. A., La Chaux-de-Fonds, Switzerland. Change-speed gearing. 1,623,418; Apr. 5.
- Laub, George M., assignor to Excella Pattern Company, New York, N. Y. Garment or dress patterns. 1,642,682; Sept. 20.
- Laube, Henry M., Kankakee, Ill. Collar. 1,645,431; Ill.
- Lauchlin, George Y., Green Bay, Wis. Motor vehicle lamp. 1,623,687; Apr. 5.
- Lauck, Robert E., Taylor, Tex. Automatic control for the ignition circuits of motor-propelled vehicles. 1,613,112; Jan. 4.
- Laucks, I. F., Inc. (See Davidson, G., Rippey, Cone, Laucks, and Banks, assignors.)
- Laucks, I. F., Inc. (See Rippey, Hugh F., assignor.)
- Laucks, Irving F. (See Davidson, G., Rippey, Cone, Laucks, and Banks.)
- Laucks, S. Forry. (See Katz, John A., assignor.)
- Laucks, Samuel P., and W. R. Wilkinson, York, Pa., assignors to said Laucks. Constructing safes. 1,619,139; Mar. 1.
- Launenstein, Otto, Wernigerode Harz, Germany. Wrapping device for irregularly-shaped delicate objects. 1,626,543; Apr. 26.
- Lauer, Anna A., administratrix. (See Adams, Julius F.)
- Lauer, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Precision indicator. 1,648,138; Nov. 8.
- Lauer, William E. (See Rumble, Alex C., assignor.)
- Laur, Henry C., New York, N. Y. Massage and shampooing apparatus. 1,623,124; Apr. 5.
- Lauffer, Jean, Logelbach, France. Device for distinguishing different sorts of cotton during spinning operations. 1,645,432; Oct. 11.
- Laughey, E. A., (Mrs.). (See Schultz, Edward, assignor.)
- Laughland, James V., Richmond, Ontario, Canada. Wheel attachment. 1,621,513; Mar. 22.
- Laughlin, Alexander, Jr., Edgeworth, deceased; M. M. Laughlin and The Union Trust Co. of Pittsburgh, executors, assignors to Central Tube Company, Pittsburgh, Pa. Method and apparatus for manufacturing tubing. 1,616,861; Feb. 8.
- Laughlin, Elmyr A., Oregon, Ill. Spring. 1,643,073; Sept. 20.
- Laughlin Filter Corporation. (See Laughlin, William C., assignor.)
- Laughlin, Homer, Colorado Springs, Colo. Metal furniture. 1,647,919; Nov. 1.
- Laughlin, James B., Bradford, Pa. Heat retaining and distributing element. 1,639,739; Aug. 23.
- Laughlin, Margaret M., et al., executor. (See Laughlin, Alexander, Jr.)
- Laughlin, Samuel L., assignor to The Cleveland Universal Parts Company, Cleveland, Ohio. Universal joint. 1,630,898; May 31.
- Laughlin, William C., Glendale, Calif., assignor to Laughlin Filter Corporation, New York, N. Y. Machine for separating solids from liquids or liquids from liquids. 1,640,707; Aug. 30.
- Laughlin, Guillaume C., Middlesex, England. Parallelization of textile fibers in machines for preparing same for spinning. 1,647,454; Nov. 1.
- Laurens Glass Works. (See Dietrick, Frank, assignor.)
- Laurent, Antoine A. (See Brown, Walter F., assignor.)
- Laurent, Antoine A., Minneapolis, Minn. Hypodermic syringe. 1,617,976; Sept. 19.
- Laurent, Jules, Marcinelle, Charleroi, Belgium. Vault for baking ovens or kilns. 1,616,322; Feb. 1.
- Laurentide Company Limited. (See Keay, Herbert O., assignor.)
- Laurentius, Walter, Berlin, Germany, assignor to General Electric Company. Multiple receiving device. 1,617,957; Feb. 15.
- Laurie, William A., New Orleans, La. Binder for securing medical electrodes. 1,637,829; Aug. 2.
- Laurine, William J., Seattle, Wash. Brake equalizer. 1,634,671; July 5.
- Lauritsen, Charles C., assignor by mesne assignments to The Dyal Company, St. Louis, Mo. Vibration damping means for vacuum tubes. 1,631,100; May 31.
- Laursen, Laurits A., Eau Claire, Wis. Tire mold. 1,649,169; Nov. 15.
- Laursen, Laurits A., Akron, Ohio. Vulcanizing apparatus. 1,650,078; Nov. 22.
- Laursen, Laurits A., Akron, Ohio. Vulcanizing apparatus. 1,652,019; Dec. 6.
- Laursen, Laurits A., Akron, Ohio. Tire mold. 1,652,020; Dec. 6.
- Larry, Napoleon A., Rockville Center, N. Y. Production of anhydrous sodium bisulphite. 1,638,492; Aug. 9.
- Larry, Napoleon A., Rockville Center, N. Y. Producing zinc carbonate. 1,649,708; Aug. 30.
- Lautenschlager, Thurman H., Dayton, Ohio. Valve-stem cap or the like. 1,639,303; Aug. 16.
- Lautenschlager, William F., Cincinnati, Ohio. Light detector for automobiles and the like. 1,648,278; Nov. 8.
- Lautenschlager, William F., Cincinnati, Ohio. Machine for stitching. 1,623,946; Dec. 31.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to Lorenz Muther, Newton, Mass. Pressing device for folding machines. 1,631,040; May 31.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to The Peerless Machinery Company, Boston, Mass. Gauge for perforating machines. 1,631,041; May 31.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to The Peerless Machinery Company, Boston, Mass. Combination die for use in perforating machines. 1,634,752; July 5.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to The Peerless Machinery Company, Boston, Mass. Gauge for perforating machines. 1,639,949; Aug. 23.
- Lauter, Felix, Philadelphia, Pa., assignor to Rohm & Haas Company. Resinous reaction product of urea and formaldehyde. 1,633,337; June 21.
- Lauter, Ignatz. (See Denew, John, assignor.)
- Lauter, Philip, New York, N. Y., assignor to Polymet Manufacturing Corporation. Extension connector. 1,645,957; Oct. 18.
- Lauterbach, Samuel, New York, N. Y. Jewelry clasp. 1,637,690; Aug. 2.
- Lauterbur, Edward J. (See Lauterbur, Frank X. and E. J.)
- Lauterbur, Frank X., Sidney, Ohio. Flour sifter. 1,612,376; Jan. 4.
- Lauterbur, Frank X. and E. J., Sidney, Ohio. Dough mixing and conditioning machine. 1,651,092; Nov. 29.

- Lauver, George A., Ponca City, Okla., assignor, by mesne assignments, to W. A. Morgan, Buffalo, N. Y. Draining means for splash troughs of internal-combustion engines. 1,623,254; Apr. 5.
- Lavagnino, Edoardo, Ancona, Italy. Blind for shop fronts, doors, windows, and the like. 1,643,074; Sept. 20.
- Lavagnino, Joseph L., Angels Camp, Calif. Fruit-picking apparatus. 1,632,977; June 21.
- Lavallee, William, Central Falls, R. I. Device for sanitary handling of milk. 1,636,474; July 19.
- Lavarrack, Frederick C., Montclair, N. J., and W. M. Page, Pittsburgh, Pa. Rail bond. 1,643,806; Sept. 27.
- Laven, Louis, assignor to Hampden Auto Top & Metal Company, Springfield, Mass. Vehicle top construction. 1,645,433; Oct. 11.
- Laventure, William, Ste. Madeline, Quebec, Canada. Variable headlight dimmer. 1,630,621; May 31.
- Lavezzi, Samuel J., assignor to Herz Bed Company, Chicago, Ill. Day bed and the like. 1,627,609; Mar. 10.
- Lavigne, Henry W., Worcester, Mass. assignor to American Automotive Corporation. Superadjustable generator. 1,642,448; Sept. 13.
- Lavigne, Joseph E., Fall River, Mass. Truck and similar conveyance. 1,646,547; Oct. 25.
- Lavitt, Max, Ellington, Conn. Tobacco lath. 1,617,062; Feb. 8.
- Lavoie, George, Fall River, Mass. Shade and curtain holder. 1,643,020; Sept. 20.
- Law, Edward F., Reno, Nev., assignor to United States Engineering Company. Roller mill. 1,619,739; Mar. 1.
- Law, Henry Y., Marced, Calif. Tractor chain. 1,637,777; Aug. 2.
- Law, James C., Scranton, Pa. Apparatus for discharging air in fire boxes. 1,639,642; Aug. 16.
- Law, Robert, Woodsdale, and E. J. Sweda, Glendale, N. Y. Multiple switch. 1,643,894; Sept. 27.
- Law, Sanford S., Coronaolis, Pa. Overhead signal mirror. 1,622,157; Mar. 22.
- Lawton, John W., Maryville, Tenn. Burglar alarm. 1,649,534; Nov. 15.
- Lawler, Chester R., See Sannar, J. T., and Lawler.)
- Lawler, Frank P., San Francisco, Calif., assignor to General Electric Company. High-tension switch. 1,640,455; Aug. 30.
- Lawler, Frank P., San Francisco, Calif., assignor to General Electric Company. High-tension switch. 1,640,456; Aug. 30.
- Lawler, Frank P., San Francisco, Calif., assignor to General Electric Company. High-tension switch. 1,640,457; Aug. 30.
- Lawler, James E., London, England. Ball cleaner. 1,639,749; Aug. 23.
- Lawler, James J., Mount Vernon, N. Y. Thermostatic supply valve for steam radiators. 1,640,243; Aug. 23.
- Lawler, John, San Francisco, Calif. Shipping of food, especially eggs. 1,645,813; Oct. 18.
- Lawley, Thomas J., Sipsey, Ala. Can closure. 1,616,584; Feb. 8.
- Laylor Fuel Oil System Company, The. (See Laylor, James D., assignor.)
- Laylor, Joseph P., and J. I. Seay, Memphis, Tenn. Installing well strainers. 1,619,621; Mar. 1.
- Laylor, Joseph P., and J. I. Seay, Memphis, Tenn. Machine for making concrete blocks. 1,644,066; Oct. 4.
- Lawner, Nicholas, Brooklyn, N. Y., assignor to American Sundries Co., Inc. Vaporizer. 1,625,034; Apr. 19.
- Lawrence, Charles L., New York, N. Y. Tool kit. 1,633,030; June 21.
- Lawrence, Charles L., New York, N. Y. Tool kit. 1,639,227; Aug. 16.
- Lawrence, Charles L., New York, N. Y., assignor to Wright Aeronautical Corporation. Internal-combustion engine. 1,621,326; Mar. 15.
- Lawrence, Edward G. (See Adams, T. C., Noyes, and Lawrence.)
- Lawrence, Edward G., Minneapolis, Minn., assignor to O. B. McClintock Co. Alarm system for vaults. 1,629,347; May 17.
- Lawrence, Edwin F., et al. (See Enright, Thomas F., assignor.)
- Lawrence, Floyd L., Mobile, Ala. Wheel. 1,643,248; Sept. 20.
- Lawrence, George L., Jr., Melrose, Mass. Game-ball bladder. 1,631,740; June 7.
- Lawrence, George L., Jr., Melrose, Mass. Overshoe and making same. 1,642,305; Sept. 13.
- Lawrence, John H., et al. (See Enright, Thomas F., assignor.)
- Lawrence, John H. (See Murray, T. E. and Lawrence.)
- Lawrence, Joseph A., Olden, Tex. Sand trap. 1,623,015; Mar. 29.
- Lawrence, Leland E., Newcastle, Ind. Rotary valve. 1,613,466; Jan. 4.
- Lawrence, Paul A., Grand Island, Nebr. Constant-pressure internal-combustion engine. 1,621,936; Mar. 22.
- Lawrence, Ruben B., Bellevue, assignor to Federal Laboratories, Incorporated, Pittsburgh, Pa. Use of incapsulating gas. 1,614,739; Jan. 18.
- Lawrence, Ruben B., Bellevue, assignor to Federal Laboratories, Inc., Pittsburgh, Pa. Hand grenade. 1,620,475; Mar. 8.
- Lawrence Sperry Aircraft Company, The. (See Simon, Robert, assignor.)
- Lawrence, Thomas H., Corning, Iowa. Brush and broom attachment. 1,617,764; Feb. 15.
- Lawrence, William E. (See Neidrehe, G., and Lawrence.)
- Lawrence, William H., Boston, Mass. Wire or cord hanger. 1,647,008; Oct. 25.
- Lawrie, James W., assignor to E. I. du Pont de Nemours & Co., Wilmington, Del. Recovering glycerine from fermented molasses mash and apparatus therefor. 1,627,040; May 3.
- Lawrie, Leslie G. (See Baddiley, J., Shepherdson, Swann, Hill, and Lawrie.)
- Laws, Andrew T., St. Helens, Oreg. Cream-removing device. 1,615,765; Jan. 25.
- Lawson, Albert R., Hamilton, assignor to Toronto Type Foundry Company, Limited, Toronto, Ontario, Canada. Manufacture of manifold books. 1,639,040; Aug. 16.
- Lawson, F. H., Company, The. (See Sharwood, Sydney E., assignor.)
- Lawson, George D., Fort Dodge, Iowa. Carbon scraper. 1,620,822; Mar. 15.
- Lawson, George D., Pocahontas, Iowa. Cam-operated timer. 1,641,930; Sept. 6.
- Lawson, John E., Brooklyn, N. Y. Method and apparatus for welding. 1,643,307; Sept. 27.
- Lawson, Lindley S., Pittsburgh, Pa. Radiant heater. Des. 72,860; June 14.
- Lawson, Lindley S., Pittsburgh, Pa. Radiant heater. Des. 73,135; July 26.
- Lawson, Lindley S., Pittsburgh, Pa. Radiant heater. Des. 73,135; July 26.
- Lawson, Lindley S., Pittsburgh, Pa. Radiant heater. Des. 73,136; July 26.
- Lawson, Lindley S., Pittsburgh, Pa. Radiant heater. Des. 73,137; July 26.
- Lawson, Neal, Santa Barbara, Calif. Automobile signal. 1,613,175; Jan. 4.
- Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Reverse plating by action of casting oil mechanism. 1,616,584; Apr. 5.
- Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Reverse plating mechanism and process. 1,627,290; May 3.
- Lawson, William L., Oak Park, Ill., and M. E. Canfield, Rushing, assignors to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,617,336; Feb. 15.
- Lawton, Charles L., Hancock, Mich. Headlight. 1,642,160; Sept. 13.
- Lawton, James A., Middletown, Conn. Medicament carrier. 1,637,153; July 26.
- Lawton, Mortimer P., assignor to Atlantic Steel Company, Atlanta, Ga. Band-bending and buckle-attaching machine. 1,619,873; Mar. 8.
- Lawton Oscar S., New Bedford, assignor of one-third to A. L. O'Leary, Fairhaven, and one-third to H. W. O'Leary, New Bedford, Mass. Method and apparatus for making tapered warp. 1,648,905; Nov. 15.
- Lawton, Stanley W., New York, N. Y. Collapsible-tube holder. 1,617,917; Feb. 15.
- Lawton, Stanley W., New York, N. Y. Photoplay orchestral director. 1,648,410; Nov. 8.
- Lawton, Thomas W., Taunton, Mass. Top-roll saddle. 1,623,688; Apr. 5.
- Lawyer, William S., Woodland, Wash. Wrench. 1,627,441; May 3.
- Laxer, Louis, et al. (See Baron, John, assignor.)
- Laxton, Lacey and C. L. Trosper, Black Joe, Ky. Steering-wheel lock. 1,622,454; Mar. 29.
- Lay, Charles, San Antonio, Tex. Nut guard. 1,625,901; Apr. 26.
- Lay, Frank R., Indianapolis, Ind. Treating broom corn. 1,641,174; Sept. 6.
- Laycock, Thomas B., Indianapolis, Ind. Window screen. 1,624,371; July 5.
- Layer, Hugo. (See Sproul, W. R., and Layer.)
- Layland, William E., and J. H. Whitehead assignors to Taylor Wordsworth and Company, Limited, Leeds, England. Wool, cotton, rag, and the like drying machines. 1,650,433; Nov. 31.
- Layman, Frank E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Molded handle and the like. 1,625,322; Apr. 19.
- Layman, Milton R., Johnstown, Pa. Safety pocket. 1,619,140; Mar. 1.
- Layman, Stephen D., East Orange, assignor of one-half to J. H. Gorman, Rutherford, N. J. Last-block fastener. 1,649,709; Nov. 15.
- Layne & Bowler Corporation. (See Layne, Mahlon E., assignor.)
- Layne & Bowler Corporation. (See Parker, William A., assignor.)
- Layne & Bowler Corporation. (See Whann, Jesse P., assignor.)
- Layne, Mahlon E., South Pasadena, assignor to Layne & Bowler Corporation, Los Angeles, Calif. Guarded opening screen. 1,635,368; July 12.
- Layne, Mahlon E., Houston, Tex., assignor to Layne & Bowler Corporation, Los Angeles, Calif. Coupling for suspended shaft casings. 1,652,368; Dec. 13.
- Layne, Olynn A., Los Angeles, Calif. Tongs. 1,639,228; Feb. 8.
- Layne, William R. (See Frickey, R. E., and Layne.)

- Layton, William M., Mansfield, Ohio. Turntable. 1,617,063; Feb. 8.
- Lázaga, Ignacio, Salem, Va. Machine for packaging articles. 1,616,379; Feb. 1.
- Lázaga, Ignacio, Habana, Cuba. Feeding mechanism for cigarette-packaging machines. 1,628,500; May 10.
- Lazar, David, Brooklyn, N. Y. Vending machine. 1,618,450; Feb. 22.
- Lazar, David, Brooklyn, N. Y. Coin-controlled vending machine. 1,652,021; Dec. 6.
- Lazar, David, Long Island City, N. Y., and H. A. Drew, West New York, N. J.; said Drew assignor to said Lazar. Coin-controlled vending machine. 1,630,439; May 31.
- Lazarus, Solomon A., London, England. Toothbrush. 1,643,217; Sept. 20.
- Lazovsky, Lillian, Chicago, Ill. Hair-waving device. 1,623,736; Apr. 5.
- Lazotte, Inc. (See Claude, Georges, assignor.)
- Lazzari, Leone, and D. Sandino, New York, N. Y. Heel for shoes. 1,631,741; June 7.
- Lazzaro, John, Sprague, Wash. Turntable. 1,614,891; Jan. 18.
- Lea, Charles. (See Hathaway, E. E. and Lea.)
- Lea, Charles, assignor to The Automatic Merchandizer, Inc., Boston, Mass. Coin-controlled apparatus. 1,628,852; May 17.
- Lea, Charles, Boston, assignor, by mesne assignments, to F. C. Blanchard, Dorchester, Mass. Lubricator. 1,631,742; June 7.
- Lea, Charles, Boston, Mass., assignor, by mesne assignments to F. C. Blanchard, Dorchester, Mass. Lubricating apparatus. 1,637,908; Aug. 2.
- Lea, Charles, Boston, assignor, by mesne assignments, to F. C. Blanchard, Dorchester, Mass. Lubricator. 1,638,941; Aug. 16.
- Lea, Charles, Milton, assignor to Shawmut Engineering Company, Boston, Mass. Tube frame. 1,631,101; May 31.
- Lea Company, The. (See Kurtz, Henry, assignor.)
- Lea, Henry I., et al. (See Humphrey, C. W., and McKittrick, assignors.)
- Leahy, E. Santa Monica, Calif., and C. W. Humphrey, Red Bank, N. J. Aluminum-chloride process. 1,646,732; Oct. 25.
- Lea, Henry I., Santa Monica, Calif., and C. W. Humphrey, Red Bank, N. J. Aluminum-chloride process. 1,646,733; Oct. 25.
- Lea, James B., Manchester, England. Apparatus for the volumetric measurement of granular materials. 1,647,704; Nov. 1.
- Lea, John M., Detroit, Mich. Storage-battery manufacture. 1,616,585; Feb. 8.
- Lea, John M., Detroit, Mich. Manufacture of metallic bellows. 1,630,622; May 31.
- Lea, John M., Detroit, Mich., assignor to The Micrometer Company, Chicago, Ill. Speedometer construction. 1,645,331; Oct. 11.
- Lea, Peter A., New Orleans, La. Resilient tire. 1,647,871; Nov. 1.
- Leach, Richard, Alameda, Calif. Fish-beheading machine. 1,643,504; Sept. 27.
- Leach, Alice F., Brookline, Mass. Tent. 1,635,756; July 12.
- Leach Company. (See Appleton, J. H., and Kriz, assignors.)
- Leach Company. (See Leach, Elbert C., assignor.)
- Leach Company. (See Rauter, Fred W., assignor.)
- Leach Company. (See Runge, Richard W., assignor.)
- Leach, Edgar J., and W. C. Lagerman, Janesville, Wis. Making bellows. 1,614,563; Jan. 18.
- Leach, Elbert C., assignor to Leach Company, Oshkosh, Wis. Concrete mixer. 1,647,410; Nov. 1.
- Leach, Harry, Providence, R. I. Direction indicator for motor vehicles. 1,648,853; Nov. 1.
- Leach, Lester L. (See Howells, F. E., and Leach.)
- Leach, Robert H., Bridgeport, Conn., assignor to Handy & Harman. Silver alloy. 1,628,673; May 17.
- Leach, Sagito J., assignor to The Ashabula Bow Socket Company, Ashabula, Ohio. Top for vehicles and the like. 1,642,117; Sept. 13.
- Leach, William J., Burlington, Wis. Electrical-tube-conductor twisting device. 1,629,800; May 24.
- Leach, William W., assignor to W. H. Davey, A. I. Davey, S. Davey, J. Davey, E. A. Davey, and J. G. Davey, Mansfield, Ohio, and H. Davey, Detroit, Mich. Feeder for sheet metal or the like. 1,625,055; Apr. 19.
- Leader Iron Works. (See Summers, Louis D., assignor.)
- Leaf, Edwin A., Los Angeles, Calif. Serving tray. 1,618,756; Jan. 11.
- Leaf, Carl L. (See Jeppson, G. N., and Leaf.)
- Leaf, Edward W., Albany, N. Y. Motor vehicle heater. 1,623,879; Apr. 5.
- Leahy, Maurice R., assignor of one-half to M. J. Phalen, Kansas City, Kans. Sign. 1,652,207; Dec. 13.
- Leahy, Michael J., Tucson, Ariz. Pump, compressor, or the like. 1,646,754; Oct. 25.
- Leahy, Patrick F. (See Crosby, John J., assignor.)
- Leahy, Richard A., Bonne Terre, Mo. Method of and apparatus for screening granular materials. Re16,701; Aug. 9.
- Leahy, Richard A., Bonne Terre, Mo. Screening apparatus. 1,650,896; Nov. 29.
- Leahy, William P., Canton, Ohio, assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Electric-cord anchorage. 1,625,477; Apr. 19.
- Leake, Arthur G., Bridgeport, Conn. Collapsible-tube holder. 1,631,275; June 7.
- Leake, Richard C., assignor to General Railway Signal Company, Rochester, N. Y. Starting switch for single-phase motors. 1,631,102; May 31.
- Leake, Richard C., assignor to General Railway Signal Company, Rochester, N. Y. Unit circuit controller. 1,634,620; July 5.
- Leake, Richard M. (See Price, J. W., and Leake.)
- Leake, Thomas C., assignor to New York Tractor Corporation of America, New York, N. Y. Track chain for tractors. 1,630,089; May 24.
- Leaming, Beryl, administrator. (See Leaming, Thomas H.)
- Leaming, Thomas H., deceased; B. Leaming, administrator, Buffalo, assignor to National Aniline & Chemical Co., New York, N. Y. Copper azodyestuffs. 1,618,762; Feb. 22.
- Leard, Earl B., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,627,744; May 10.
- Leary, Frank M., Cleveland, Ohio. Muffler. 1,618,451; Feb. 22.
- Leary, James W. (See Bronnander, W. B., and Leary.)
- Leary, John, Philadelphia, Pa. Trick toy. 1,613,176; Jan. 4.
- Leary, John J., Brooklyn, N. Y. Printing machine. 1,627,317; May 3.
- Leary, Richard J., Burlington, N. J. Charging apparatus for molding machines. 1,619,301; Mar. 1.
- Lease, Thomas J., Wayne Township, Marion County, Ind. Water skis. 1,623,368; May 10.
- Leather, William F., Chicago, Ill. Transformer for electric signal systems. 1,645,953; Oct. 18.
- Leathers, Ward. (See O'Neill, J. H., and Leathers.)
- Leathers, Ward, Haworth, N. J. Trackless street car. 1,634,587; July 5.
- Leaver, Charles, Imperial, Nova Scotia, Canada, assignor to Imperial Oil, Limited. Refining oils. 1,635,718; Dec. 12.
- Leavitt, James Q., Ogden, Utah. Peeler. 1,647,872; Nov. 1.
- Leavy, Abraham H. (See Leavy, Nathan and A. H.)
- Leavy, Nathan and A. H., New York, N. Y. Combination toilet and candy box. Des. 73,848; Nov. 15.
- Lebanon Steel Foundry. (See Gerhard, Paul E., assignor.)
- Le Bas, Edward. (See Hiley, Alfred, assignor.)
- Lebby, States L., Corning, N. Y. Photographic printing apparatus. 1,635,554; July 12.
- Lebby, States L., Corning, N. Y. Projector. 1,645,063; Oct. 11.
- Lebby, States L., Corning, N. Y. Decentered mirror. 1,651,719; Dec. 6.
- Lebel, Joseph H., Detroit, Mich. Funnel. 1,638,446; Aug. 9.
- Lebherz, Harry J., and R. W., assignors to The Everedy Company, Frederick, Md. Bottle-capping tool. 1,643,076; Sept. 20.
- Lebherz, Harry J. and R. W., assignors to The Everedy Company, Frederick, Md. Bottle-capping tool. 1,651,720; Dec. 6.
- Lebherz, Robert W. (See Lebherz, Harry J., and R. W.)
- Leblanc, Charles L. A. M., assignor to Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers, Paris, France. Electric spark gap. 1,613,709; Jan. 11.
- Le Blanc, John A., White Castle, La. Cable guide. 1,635,944; July 12.
- Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
- Le Blond, R. K., Machine Tool Company, The. (See Leach, Henry C., assignor.)
- Le Boer, Arthur W., Brooklyn, N. Y., assignor, by mesne assignments, to Northboro Brush Company, Northboro, Mass. Brush machine. 1,627,787; May 10.
- Le Boeuf, Oscar J., Gary, Ind. Arch supporter. 1,628,161; May 10.
- Lechner, Paul J. (See Brousseau, Fernand L., assignor.)
- Le Chaffaux Electricque Ideal Limited. (See Lévesque, L. J., and Lessard, assignors.)
- Leclerc, Albert A., Montreal, Quebec, Canada, assignor to J. Robinson, Morrisstown, N. J. Automatic train-pipe connector. 1,647,571; Nov. 1.
- Lechleder, Felix J., Brooklyn, N. Y. Smoking-pipe attachment. 1,617,267; Feb. 8.
- Lechler, Paul. (See Metzger, Robert, assignor.)
- Lechthaler, Robert, Berlin-Charlottenburg, assignor to Baumgärtner, Dr. Katz & Co., G. m. b. H., Spandau-Eiswerder, Germany. Apparatus for the manufacture of hollow bodies from fibrous pulp. 1,626,847; Aug. 3.
- Leclaky, Josef, assignor to J. Sec, New York, N. Y. Coloring surfaces. 1,650,079; Nov. 22.
- Leck, D'Arcy J. M., Minneapolis, Minn. Building clamp. 1,641,819; Sept. 6.
- Leck, Walter W., assignor to Scullin Steel Company, St. Louis, Mo. Rolled-steel chills. 1,618,016; Feb. 15.
- Leckner, L., assignor of one-half to C. H. Tilden, Bakersfield, Calif. Utility rack. 1,640,279; Aug. 23.
- L'Eclairage des Vehicules Sur Rail. (See Bénéit, Henri, assignor.)

- Le Compte, Oliver P., Baltimore County, and S. A. Cahn, assignors to Miller Safe Company, Baltimore, Md. Safe. 1,623,255; Apr. 5.
- Le Compte, Onesime H., Oklahoma City, Okla. Lock-pin lifting and holding device for automatic car couplers. 1,634,588; July 5.
- Le Comte, Firmin M., Oconto, Wis. Brake-beam safety guide for railway cars or coaches. 1,612,929; Jan. 4.
- Leerenier, Célestin, Tampa, Fla. Motor. 1,627,100; May 3.
- Ledbetter, Elmer E. (See Shuell, F. W., Ledbetter and Tobey.)
- Ledbetter, James C. (See Stocker, E. D., and Ledbetter.)
- Ledbetter, James C., New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Ironing-press bridle. 1,619,966; Mar. 1.
- Ledbetter, James C., New York, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Power press. 1,642,252; Sept. 13.
- Ledbetter, James C., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,301; Oct. 4.
- Ledbetter, James C., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,302; Oct. 4.
- Ledbetter, James C., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,306; Oct. 4.
- Ledbetter, James C., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,307; Oct. 4.
- Ledbetter, James C., New York, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Ironing press burn guard. 1,644,930; Oct. 11.
- Ledbetter, James C., New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,647,640; Nov. 1.
- Ledbetter, James C., New York, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,647,641; Nov. 1.
- Ledbetter, James C., New York, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,647,642; Nov. 1.
- Ledbetter, James C., Brooklyn, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc. Conveyor plait press. 1,630,392; May 31.
- Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Press. 1,633,260; June 21.
- Ledbetter, James C., Brooklyn, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc. Power press. 1,640,609; Aug. 30.
- Ledbetter, James C., Brooklyn, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,294; Oct. 4.
- Ledbetter, James C., Brooklyn, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,298; Oct. 4.
- Ledbetter, James C., Brooklyn, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,300; Oct. 4.
- Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Conveyor press. 1,644,928; Oct. 11.
- Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Electric garment press. 1,644,929; Oct. 11.
- Ledbetter, James C., Brooklyn, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,653,869; Dec. 27.
- Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Electric garment press. 1,654,332; Dec. 27.
- Ledden, Thomas H., Ridgway, Pa. Incinerator. 1,630,393; May 31.
- Leddick, George S., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,626,469; Apr. 26.
- Lederer, David A., New Haven, Conn. Hose supporter. 1,613,799; Jan. 11.
- Lederor, Frederick J., Buffalo, N. Y. Spool holder. 1,652,310; Dec. 13.
- Lederor, Henry & Bro. Inc. (See Butler, William J., assignor.)
- Lederer, Irving R., Providence, R. I. Buckle. Des. 73,409; Sept. 6.
- Lederer, Irving R., Providence, R. I. Fastener for wrist-watch straps. 1,614,246; Jan. 11.
- Lederer, Irving R., Providence, R. I. Removable cross-bar for buckles. 1,628,501; May 10.
- Lederor, Karl M., Newark, N. J. Transmission of sound. 1,634,292; July 5.
- Lederor, Morris W., Detroit, Mich. Toothbrush. Des. 73,662; Oct. 18.
- Lederer, S. & B. Co. (See Davis, Willard A., assignor.)
- Lederer, Sigmond L., assignor to Providence Stock Company, Providence, R. I. End hook. 1,617,291; Feb. 8.
- Ledig, Kurt K., assignor to American Platinum Works, Newark, N. J. Alloy for pen points. 1,647,301; Nov. 1.
- Ledig, Willy, and H. Asmusen, Berlin, Germany, assignors to General Electric Company. Apparatus for unflitting tubing. 1,640,458; Aug. 30.
- Ledin, Charles, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Rim lock. 1,613,393; Jan. 4.
- Ledin, Charles, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. 1,641,767; Sept. 6.
- Ledoux, John W., Swarthmore, Pa., and M. M. Borden, Collingswood, N. J., assignors to Simplex Valve & Meter Company, Philadelphia, Pa. Fluid meter. 1,649,602; Nov. 15.
- Le Duc, John J., Burbank, Calif. Expandable-fluid motor. 1,645,761; Oct. 18.
- Ledwidge, Christopher J., Hot Springs National Park, Ark. Valve handle. 1,620,770; Mar. 15.
- Ledwinka, Hans, Koprivnice, Czechoslovakia. Resilient axle mount for motor vehicles. 1,642,817; Sept. 20.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile fender. Des. 72,266; Mar. 22.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. 1,615,177; Jan. 18.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Motor vehicle. 1,619,478; Mar. 1.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism. 1,628,633; May 10.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Lifting and retaining device for sliding windows. 1,630,494; May 31.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism. 1,635,679; July 12.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Latch mechanism. 1,635,580; July 12.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch construction. 1,635,757; July 12.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body and making same. 1,643,749; Sept. 27.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. 1,643,740; Sept. 27.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. 1,643,741; Sept. 27.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle body. 1,643,742; Sept. 27.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body and making same. 1,643,743; Sept. 27.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Buffer for automobile doors. 1,644,679; Oct. 11.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Door for automobile bodies. 1,644,680; Oct. 11.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Automobile door buffer. 1,644,681; Oct. 11.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Weather strip for automobile doors. 1,644,682; Oct. 11.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch-bolt keeper and mounting the same. 1,645,332; Oct. 11.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Latch mechanism. 1,645,333; Oct. 11.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Apparatus for electrical vulcanizing. 1,645,704; Oct. 18.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electric spot-welding apparatus. 1,645,705; Oct. 18.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. 1,652,865; Dec. 13.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Closed vehicle body structure. 1,652,902; Dec. 13.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Closed body structure for automobiles. 1,652,947; Dec. 13.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Guide for sliding windows. 1,654,333; Dec. 27.
- Ledyard, Harry A. and J. J. Jolley, Ashland, Ohio, said Jolley assignor to said Ledyard. Septic tank. 1,644,532; Oct. 4.
- Lee Alexander F., Boston, Mass. Handle for cooking utensils. 1,625,731; Apr. 19.
- Lee, Aubrey M., assignor to Simplex Ice and Manufacturing Company, Dallas, Tex. Delivery apparatus. 1,647,530; Nov. 1.
- Lee, Charles L., and T. C. Van Degrift, assignors to General Motors Research Corporation, Dayton, Ohio. Malt-casting apparatus. 1,634,152; June 28.
- Lee, Charles M., Shreveport, La. Mirror adjuster. 1,625,260; Apr. 19.

- Lee, Charles M., Shreveport, La. Mirror mounting. 1,627,395; May 3.
- Lee, Charles W., Lock Haven, Pa. Composite reinforced railway tie. 1,630,190; May 24.
- Lee, Charles W., Lock Haven, Pa. Rail-fastening means for railway ties. 1,634,200; June 28.
- Lee, Charles M., Elyria, Ohio, assignor of one-half to G. W. Lee, Wauseon, Ohio. Automatic gas valve. 1,625,323; Apr. 19.
- Lee, Connie W., Paducah, Ky. Rolling and motor propelled jack. 1,641,444; Sept. 6.
- Lee Engineering Research Corporation. (See Lee, Royal, assignor.)
- Lee, Frank M., Chicago, Ill., assignor to Sullivan Machinery Company. Channeler mechanism. 1,643,665; Sept. 27.
- Lee, Frederick W., Owings Mills, Md. Apparatus for and method of reproducing sound. 1,622,039; Mar. 22.
- Lee, Frederick W., Baltimore, Md., and L. O. Grondahl, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,638,043; Aug. 9.
- Lee, George E., et al. (See Kurten, Peter J., assignor.)
- Lee, George E., East Stroudsburg, Pa. Automobile jack. 1,619,942; Mar. 8.
- Lee, George W. (See Lee, Claire M., assignor.)
- Lee, Gilbert, Rockford, Ill. Straightedge instrument. 1,625,949; Apr. 26.
- Lee, Gordon, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,623,419; Apr. 5.
- Lee, Harry E., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Reel or swift. 1,638,586; Aug. 9.
- Lee, Harry S., Plymouth, Mich. Molding machine. 1,622,875; Mar. 29.
- Lee, Harry S., Plymouth, Mich. Molding apparatus. 1,635,360; July 12.
- Lee, Harry S., Plymouth, Mich. Apparatus and method of coating molds with carbon. 1,635,370; July 12.
- Lee, Harry S., Plymouth, Mich. Air cooling of permanent molds. 1,637,890; Sept. 27.
- Lee, Harry S., Plymouth, Mich. Heat control in castings. 1,652,445; Dec. 13.
- Lee, Henry B., New London, Conn. Velocity-reducing valve. 1,645,601; Oct. 18.
- Lee, James H., et al. (See Marsh, H. E., and Duntun, assignors.)
- Lee, James L., Washington, D. C. Game. 1,626,243; Apr. 26.
- Lee, James W., Grand Haven, assignor to Challenge Machinery Company, Grand Rapids, Mich. Safety device. 1,651,609; Dec. 6.
- Lee, John A., Benson, Minn. Storm-sash holder. 1,644,886; Oct. 11.
- Lee, John H., and Frank Honig, Oak Park, assignors to Cyclo Corporation, Chicago, Ill. Drawing and spooling mechanism and method. 1,637,700; Aug. 2.
- Lee, John L., Sherill, assignor to Oneida Community, Limited, Oneida, N. Y. Shipping and display device for silverware, etc. 1,614,740; Jan. 18.
- Lee, John W., assignor to The Inland Manufacturing Company, Dayton, Ohio. Handwheel. 1,638,044; Aug. 9.
- Lee, Joseph. (See Välvig, Martin J., assignor.)
- Lee, Leif, Youngstown, Ohio. Rolling mill. 1,620,476; Mar. 8.
- Lee, Lewis M., Frankfort, Ky. Cultivating apparatus. 1,629,109; May 17.
- Lee, Nixon, Brooklyn, N. Y. Closure. 1,632,086; June 14.
- Lee, Nixon, Brooklyn, N. Y. Window regulator. 1,640,459; Aug. 30.
- Lee, Ottar S., assignor to Nye Tool & Machine Works, Chicago, Ill. Vise stand. 1,634,837; July 5.
- Lee, Ralph L., Dayton, Ohio. Toy ball. 1,642,449; Sept. 13.
- Lee, Ralph L., assignor to Delco-Light Company, Dayton, Ohio. Motor. 1,621,937; Mar. 22.
- Lee, Ralph L., assignor to Delco-Light Company, Dayton, Ohio. Driving mechanism. 1,649,962; Nov. 28.
- Lee, Robert E., Hillside, N. J. Home trainer. 1,621,120; Mar. 15.
- Lee, Royal, Milwaukee, Wis. Speed governor for electric motors. 1,630,394; May 31.
- Lee, Royal, assignor to Lee Engineering Research Corporation, Milwaukee, Wis. Valve-tappet compensator. 1,644,840; Oct. 11.
- Lee, Royal, assignor to Lee Engineering Research Corporation, Milwaukee, Wis. Variable-speed transmission. 1,648,000; Nov. 8.
- Lee Rubber & Tire Corporation. (See Leopold, Frederick, Jr., assignor.)
- Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Electrical instrument. 1,632,609; June 14.
- Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Electric solenoid. 1,650,799; Nov. 29.
- Lee Tire & Rubber Co., The. (See Kearns, John, assignor.)
- Lee, U. G., & Co. Inc. (See Lee, Ulysses G., assignor.)
- Lee, Ulysses G., assignor to U. G. Lee & Co. (Inc.).
- Lee, Ulysses G., assignor to U. G. Lee & Co. (Inc.).
- Lee, Ulysses G., assignor to U. G. Lee & Co. Inc., Chicago, Ill. Marine water-closet. 1,625,950; Apr. 26.
- Lee, Verner B., et al. (See Marsh, H. E., and Duntun, assignors.)
- Lee, Walter D., Grand Junction, Colo. Brushing and polishing machine. 1,625,667; Apr. 19.
- Lee, William F., et al. (See Smith, J. D., and Phillips, assignors.)
- Lee, William S., R. Pfaffner, and D. Nabow, Charlotte, N. C. Hydraulic rack. 1,642,253; Sept. 13.
- Leece, Bennett M., assignor to The Leece-Neville Company, Cleveland, Ohio. Generator regulation. 1,633,671; June 28.
- Leece-Neville Company. (See Leece, Bennett M., assignor.)
- Leech, Isaac, and T. H. Bradley, Oldham, assignor, by mesne assignments, to The Murray Company, Dallas, Tex. Rib rail for cotton gins. 1,630,018; May 24.
- Leech, John, Bridgeport, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 73,384; Aug. 30.
- Leedom, Laurie M., Trenton, N. J. Railway frog. 1,636,373; July 19.
- Leedom, Laurie M., Trenton, N. J. Heating device for railroad rails and switches. 1,653,917; Dec. 27.
- Leedom, Marie D., New York, N. Y. Kitchen cabinet. 1,645,632; Oct. 18.
- Leeds & Northrup Company. (See Martin, Charles A., assignor.)
- Leedy, John S., Monroe, Mich. Christmas-tree holder. 1,617,755; Feb. 15.
- Leedy Manufacturing Company. (See Strupe, Cecil II., assignor.)
- Leedy Manufacturing Company. (See Winterhoff, Herman E., assignor.)
- Leemann, Hans, Bortmingermuehle-Binningen, near Basel, and G. Tagliani, Basel, Switzerland, assignors, by mesne assignments, to Munifert Corporation, Lodi, N. J. Re-secre diving on vegetable fibers. 1,649,710; Nov. 15.
- Leeper, Albert S., Kent, Wash. Engine brace. 1,639,950; Aug. 23.
- Lees, Alfred, New York, N. Y. Musical toy. 1,613,896; Jan. 11.
- Lees, Ernest J., assignor to The Lees-Bradner Company, Cleveland, Ohio. Testing apparatus. 1,634,328; July 5.
- Lees, John, Indianapolis, Ind. Scooter. 1,617,337; Feb. 15.
- Lees, John, assignor of one-half to E. O. Nicholls, Indianapolis, Ind. Advertising displacer. 1,618,718; Feb. 22.
- Lees-Bradner Company, The. (See Lees, Ernest J., assignor.)
- Lees-Bradner Company, The. (See McIntosh, James A., assignor.)
- Lees-Bradner Company, The. (See Schurr, Charles H., assignor.)
- Le Febure Ledger Company. (See Hruska, Frank J., assignor.)
- Lefebvre, Victor, Hampstead, London, England. Manufacture of tile. 1,650,080; Nov. 22.
- Lefère, Benonie G., Flint, assignor to General Motors Corporation, Detroit, Mich. Brake. 1,616,586; Feb. 8.
- Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Popgun. 1,633,031; June 21.
- Le Fever, Talmage H., New Bloomfield, Mo. Cranking device for automobiles. 1,632,300; June 14.
- Le Fevre, Eugene O., et al. (See Fox, Julius, assignor.)
- Lefèvre, Jules, Paris, France. Lens-clamping bracket for use with pince-nez glasses and spectacles. 1,632,900; June 21.
- Lefell, James, and Company, The. (See Biggs, George A., assignor.)
- Leffert, Charles B., assignor to United States Tent & Awning Company, Chicago, Ill. Combination awning and side-wall panel for summer or outing houses or cottages. 1,631,214; June 7.
- Leffert, Charles B., assignor to United States Tent & Awning Company, Chicago, Ill. Tent. 1,631,215; June 7.
- Leffert, Charles B., assignor to United States Tent & Awning Company, Chicago, Ill. Luggage carrier for automobiles. 1,640,360; Aug. 30.
- Leffland, Paul W., Victoria, B. C. Support for parasite growths. 1,654,042; Dec. 27.
- Lefkowitz, Amelia, New York, N. Y. Pyjama pants. 1,628,891; May 17.
- Lefranc & Cie. (See Le Franc, Louis, assignor.)
- Le Franc, Louis, assignor to Lefranc & Cie., Paris, France. Manufacture of butyric acids and other aliphatic acids. 1,625,732; Apr. 19.
- Lefwich, Jesse H., Chicago, Ill. Treating molasses and product resulting therefrom. 1,613,666; Sept. 27.
- Legat, Robert C. (See Prentice, G. E., and Legat.)
- McLe Gaudier, Jacques, assignor of one-half to E. E. McLe Gaudier, Chicago, Ill. Electric coil. 1,614,309; Jan. 11.
- Legendre, Henri, Paris, France. Signal device for motor vehicles. 1,632,978; June 21.
- Legz, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker system. 1,645,286; Oct. 11.
- Legz, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum gauge. 1,652,535; Dec. 13.

- Legg, Oscar, assignor to Abdulla & Company Limited, London, England. Separation of the elements of isolated or laminated masses. 1,614,371; Jan. 11.
- Legg, Victor E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic device. 1,647,737; Nov. 1.
- Legg, Victor E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Insulation of magnetic material. 1,647,738; Nov. 1.
- Leggemann, Albert, Brunswick, Germany. Disintegrating mill. 1,647,183; Nov. 1.
- Leggett, Henry S., Brooklyn, N. Y. Adjustable bracket for clotheslines. 1,645,334; Oct. 11.
- Leggett, Stephen, Amritsar, British India. Strainer for tube wells or the like. 1,618,837; Feb. 22.
- Legrand, Albert L. (See Held, Georges, assignor.)
- Le Grand, John H., El Dorado, Kans. Headache-post control for electric oil-well equipment. 1,652,311; Dec. 13.
- Le Grue, Angus R., Buffalo, N. Y. Pumping apparatus. 1,619,302; Mar. 1.
- Leguillon, Charles W. (See Wilson, G. F., and Leguillon.)
- Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for preparing plastic stock. 1,619,079; Mar. 1.
- Lehigh Coal and Navigation Company, The. (See Wagel, Srinivas R., assignor.)
- Leiky, Ricardo, Buenos Aires, Argentina. Centrifugal machine. 1,628,321; May 10.
- Leiman, Hyman. (See Miller, Nathan, assignor.)
- Lehman, Joseph, assignor to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio. Metallic stirrer. 1,643,342; Sept. 27.
- Lehman, Julius H., Bristol, Conn. Glass wiper. 1,636,916; July 26.
- Lehman, Max R., assignor to Orbon Stove Co., Belleville, Ill. Stove. Des. 72,158; Mar. 8.
- Lehman, Max R., Quincy, assignor to Orbon Stove Co., Belleville, Ill. Heater. Des. 72,773; May 31.
- Lehman, Solomon A., Fort Wayne, Ind. Rack for battery plates. 1,621,327; Mar. 15.
- Lehman, Walter J., assignor to Briggs Manufacturing Company, Detroit, Mich. Fixture for riveting machines. 1,623,796; Apr. 5.
- Lehman, Warner. (See Bager, S. R. W. M., Kaeser, and Lehman.)
- Lehman, Werner. (See Bager, W. M., Lehman, and Ruhloff.)
- Lehman, Werner. (See Wilkinson, F., and Lehman.)
- Lehman Brothers Silverware Corporation. (See Kurloff, Samuel, assignor.)
- Lehmann, Carl, assignor of one-half to E. Chemnitz, Hamburg, Germany. Control valve for sheet-metal wind instruments. 1,642,783; Sept. 20.
- Lehmann, Ernst P., Patentwerk. (See Lehmann, Ernst P., assignor.)
- Lehmann, Ernst P., assignor to the Firm Ernst Paul Lehmann, Patentwerk, Brandenburg-on-the-Havel, Germany. Locking means for the spring drums of clock-work mechanisms. 1,615,227; Jan. 25.
- Lehmann, Otto P. R., Newark, N. J., assignor to V. C. Thorne, New York, N. Y. Projecting machine. 1,627,396; May 3.
- Lehmann, Wesley G. (See Owen, D. T., and Lehmann.)
- Lehmkuhler, John W., Arnold, Nebr. Road grading and scraping machine. 1,646,156; Oct. 18.
- Lehner, Alfred, Chemnitz, Germany. Spinning machine. 1,618,539; Feb. 22.
- Lehner, Louis. (See Follett, J. M., and Lehner.)
- Lehnert, Henry W. A., New York, N. Y. Curtain-bar support or the like. 1,613,800; Jan. 11.
- Lehnert, Henry W. A., New York, N. Y. Plumbing fixture. 1,647,643; Nov. 1.
- Lehnert, John A., Howard, S. Dak. Rotary engine. 1,628,162; May 10.
- Lehon Company, The. (See Moore, Albert E. F., assignor.)
- Lehr, John, assignor to The Miller Rubber Company, Akron, Ohio. Rubber sponge and making same. 1,621,550; Mar. 22.
- Lehr, John F., sr., Baltimore, Md. Jar lifter. 1,631,538; June 7.
- Lehr, Louis, Brighton Heights, assignor to S. Bruner, New York, N. Y. Watchcase construction. 1,618,432; Feb. 22.
- Lehr, Louis, Brighton Heights, assignor to S. Bruner, Far Rockaway, N. Y. Buckle. 1,620,216; Mar. 8.
- Lehr, Louis, Brighton Heights, assignor to S. Bruner, Far Rockaway, N. Y. Finger ring and the like. 1,647,531; Nov. 1.
- Lehr, Norman P., assignor to Eastman Kodak Company, Rochester, N. Y. Camera casing. Des. 73,750; Nov. 1.
- Lehrecke, Hans, Frankfurt, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Evolution of hydrocyanic acid from cyanides. 1,615,637; Jan. 26.
- Lehrecke, Hans, Frankfurt-on-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Evolution of hydrocyanic acid. 1,620,365; Mar. 8.
- Lehweiss, Edouard E., Paris, France. Clockwork mechanism. 1,619,943; Mar. 8.
- Lehweiss, Edouard E., St. Cloud, near Paris, France. Projecting machine. 1,624,669; Apr. 12.
- Leib, August, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Variable condenser. 1,631,599; June 7.
- Leiberman, Morris, Chicago, Ill. Collapsible box. 1,651,284; Nov. 29.
- Leibing, William E., Oakland, assignor to Magnus Fruit Products Co., San Francisco, Calif. Beverage-dispensing container. Des. 73,324; Aug. 23.
- Leibing, William E., Oakland, assignor to Magnus Fruit Products Co., San Francisco, Calif. Dispensing faucet. 1,640,945; Aug. 30.
- Leibing, William E., Oakland, assignor to Magnus Fruit Products Co., San Francisco, Calif. Apparatus for cutting sliced material. 1,640,951; Aug. 30.
- Leibovitz, Isidore, New York, N. Y. Belt for personal wear. Des. 72,432; Apr. 12.
- Leicester, Sheldon, et al. (See Burlin, Adolph L., assignor.)
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Vibratory converter. 1,615,765; Jan. 25.
- Leich Electric Company. (See Leich, Oscar M., assignor.)
- Leicht, Fred. (See Honold, G. F., and Leicht.)
- Leicht, John, jr., Burlington, Iowa. Bag holder. 1,640,084; Aug. 23.
- Leichter, Philip, New York, N. Y. Shirt neckband and making the same. 1,620,477; Mar. 8.
- Leidecker, Foster H., assignor to The Leidecker Tool Company, Oneida, N. Y. Making spiral auger stems, spiral bits, and spiral substitutes. Reib. 768; Oct. 11.
- Leidecker, John F., Alameda, Calif. Paper-towel dispenser. 1,640,043; Aug. 23.
- Leidecker, John F., Alameda, Calif. Paper dispenser. 1,653,293; Dec. 20.
- Leidecker Tool Company, The. (See Leidecker, Foster H., assignor.)
- Leidig, Rudolf. (See Kaechele, Ernest and G., and Leidig.)
- Lelidy, Anthony F., et al. (See Rein, Edward A., assignor.)
- Lelidy, Anthony F. (See Rein, E. A., Irwin, and Lelidy.)
- Leichtfinner, George W., Apollo, Pa. Processes for cleaning and pressing paper money. 1,629,038; May 17.
- Leighton, Alan, Washington, D. C., assignor to the Government and the people of the United States of America. Electrical interrupter. 1,621,673; Mar. 22.
- Leighton, Joseph B., Los Angeles, Calif. Self-lubricating spring. 1,626,740; May 3.
- Leiman, George W., Newark, N. J., assignor to Leiman Bros., New York, N. Y. Pump. 1,624,607; Apr. 12.
- Leiman, George W., assignor to Leiman Bros., Newark, N. J. Liquid-feeding device. 1,630,751; May 31.
- Leiman Bros. (See Leiman, George W., assignor.)
- Leinbach, Edward L., Chicago, Ill. Shock absorber. 1,636,005; July 19.
- Leins, Oscar J., assignor to Milwaukee Gas Specialties Co., Milwaukee, Wis. Flash igniter. 1,613,040; Jan. 4.
- Leins, Oscar J., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Lighting device. 1,642,373; Sept. 13.
- Leins, Oscar J., assignor to Milwaukee Gas Specialty Co., Milwaukee, Wis. Tip for igniting devices and the like. 1,654,265; Dec. 27.
- Leinweber, Adolf, Munich, Germany. Matrix holder. 1,614,479; Jan. 18.
- Leinweber, Curtis H., et al. (See Leinweber, William H., assignor.)
- Leinweber, William H., assignor of one-third to V. H. Leinweber, and one-third to C. H. Leinweber, Chicago, Ill. Propeller. 1,623,420; Apr. 5.
- Leiper, John, assignor to New York Mills Corporation, New York Mills, N. Y. Pile fabric. Des. 72,675; May 17.
- Leiper, John, New York Mills, N. Y., assignor to New York Mills Corporation, New York Mills, N. Y. Pile fabric. Des. 73,663; Oct. 13.
- Leipert, August H. (See Hewitt, E. R., and Leipert.)
- Leipert, August H. (See Masury, A. F., and Leipert.)
- Leipert, August H., College Point, assignor to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,622,729; Mar. 29.
- Leipert, August H., College Point, assignor to International Motor Company, New York, N. Y. Paving block. 1,640,460; Aug. 30.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Nonmetallic centering device for shafting. 1,631,216; June 7.
- Leipert, August, assignor to International Motor Company, New York, N. Y. Cooling system. 1,637,382; Aug. 2.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Seat. 1,644,683; Oct. 11.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Spring suspension for vehicles. 1,646,465; Oct. 25.
- Leiser, Florence, Madison, Wis. Pan. 1,618,097; Feb. 15.
- Leiser, William C., Philadelphia, Pa. Rail-fastening device. 1,624,555; Apr. 12.
- Leishman, Le Roy J., Ogden, Utah. Telegraphophone reproducer. 1,645,491; Oct. 11.
- Leister, Morris, assignor to Weinerth Knitting and Machine Company, Inc., Reading, Pa. Floating-thread cutter. 1,622,653; Mar. 29.

- Leitch, George W. (See Fullips, George A., assignor.)
 Leitch Iron Works. (See Meyer, Frederick H., assignor.)
 Leiter, Wilfried D. (See Foulke, Roy D., assignor.)
 Leitlhauser, Peter J., Defiance, Ohio, Pump. 1,617,853; Feb. 15.
 Leitl, Alvin. (See Bourgord, E., and Leitl.)
 Leitner, Henry, Croydon, England. Manufacture of screw-propellers. 1,637,224; July 26.
 Leitner, Henry, Croydon, England. Screw propeller. 1,638,695; Aug. 9.
 Leitch, Henry, Croydon, England. Manufacture of screw propellers. 1,647,920; Nov. 1.
 Leitz, Ernst, Optische Werke. (See Barnack, Oskar, assignor.)
 Leitz, Ernst, Optische Werke. (See Berek, Max, assignor.)
 Le Jeune, Frank H. (See Jacobi, E. R., and Le Jeune.)
 Leland, Warren S. D. (See Vanghan, R. E., and Leland.)
 Leland-Gifford Company. (See Bishop, Benjamin S. T., assignor.)
 Leland-Gifford Company. (See Bishop, B. S. T., and Dow, assignors.)
 Leland-Gifford Company. (See Gifford, Albert J., assignor.)
 Leland-Gifford Company. (See Gifford, A. J., and Bishop, assignors.)
 Lellen, Otto, Egypt, Pa., assignor to The International Nickel Company, New York, N. Y. Converting nickel-containing mat. 1,623,707; Apr. 5.
 Le Lionneur, René, Boston, Mass. Brake mechanism. 1,612,784; Sept. 20.
 Lemaistre, Marie J. G. A., Paris, France. Hot-water heating installation. 1,650,874; Nov. 29.
 Lemaitre, Paul C., Paris, France. Condensing pump. 1,616,811; Feb. 8.
 Lemian, Tilda B., Rapid City, S. Dak. Sanitary milking harness. 1,613,177; Jan. 4.
 Le Mare, Ernest B., assignor to Pilkington Brothers Limited, St. Helens, Lancaster, England. Process of and apparatus for rolling glass. 1,622,040; Mar. 22.
 Lemerand, Joseph L., Green Bay, Wis. Coupling. 1,637,081; July 26.
 Lemery, Charles H., Sacramento, Calif. Piston ring. 1,651,721; Dec. 6.
 Lemex, John D., Tulsa, Okla. Casing wagon. 1,631,276; June 7.
 Lemieux, Felix J., Chicago, Ill. Toy. 1,641,175; Sept. 6.
 Lemieux, Felix J., Chicago, Ill. Toy. 1,648,411; Nov. 8.
 Lemke, James, Jr., Troy, N. Y. Sign. 1,625,216; Apr. 19.
 Lemke, William, St. Joseph, Mich. Wind motor. 1,652,022; Dec. 6.
 Lemley, William E., Taylor, Wash. Building block. 1,629,279; May 17.
 Lemm, Frederick L., assignor to Centurion Company, La Porte, Ind. Key device for saxophones. 1,632,008; June 14.
 Lemma, Joseph, assignor of one-third to M. Lemma and one-third to B. Garabelli, Detroit, Mich. Automatic door-operating device. 1,654,334; Dec. 27.
 Lemma, Mary, et al. (See Lemma, Joseph, assignor.)
 Lemmer, Orvil G., Seattle, Wash. Wardrobe trunk. 1,641,595; Sept. 6.
 Lemme, Louis, assignor to Société Anonyme d'Applications des Gaz Liquéfiés, Paris, France. Device for closing compressed or liquid gas cylinders. 1,632,447; June 14.
 Lemoiné, René, Paris, France, assignor to David Crystal, Inc., New York, N. Y. Dress. Des. 73,001; July 5.
 Lemon, Frank R., Vicksburg, Mich., assignor of one-third to H. B. and L. L. Crawford. Door-operating mechanism. 1,632,237; June 14.
 Lemon, Frank R., Vicksburg, Mich., assignor of one-third to Henry B. and L. L. Crawford. Door-operating mechanism. 1,635,758; July 12.
 Lemon, Robert L., Indianapolis, Ind. Container. 1,632,525; Mar. 29.
 Lemon, William, St. Louis, Mo. Dirigible airship. 1,625,951; Apr. 26.
 Le Munyon, Ethan C., and H. N. Moore, assignors, by mesne assignments, to Rocky Mountain Steel Products, Inc., Los Angeles, Calif. Brake. 1,631,510; June 7.
 Le Mur Company, The. (See Lewis, Wilbur S., assignor.)
 Le Mur, S., Company, The. (See Lewis, Wilbur S., assignor.)
 Le Mur, S., Company. (See Lewis, W. S., and Murray, assignors.)
 Leuchner, Theodore. (See Kim, Julius, assignor.)
 Lending, David M., Brooklyn, N. Y. Tassel fringe. Des. 72,621; Apr. 26.
 Leuchman, Edward E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Frequency meter. 1,614,202; Jan. 11.
 Leuenberg, Jacob, Baltimore, Md. Dirt and grease cleaning composition. 1,624,055; Apr. 12.
 Leville, Robert J., Tacoma, Wash. Coffee percolator. 1,613,801; Jan. 17.
 L'Euland, Charles, New York, N. Y. Bill fold. 1,651,296; Dec. 6.
 Leusel, Albert L., Bakersfield, Calif. Automatic inking and staining for printing presses. 1,633,398; June 21.
 Lengyel, Elizabeth, Cleveland, Ohio. Portière. Des. 72,677; Mar. 22.
 Lenhardt, Fritz, Mannheim-on-the-Rhine, Germany. Resilient wheel. 1,629,715; May 24.
 Lenhardt, Lawrence, Spencerport, assignor of one-half to F. De Felice, Rochester, N. Y. Milling tool. 1,623,927; Apr. 5.
 Lenher Engineering Company. (See Barrett, George E., assignor.)
 Lenz, Gus F., Dallas, Tex. Furnace-roof construction. 1,629,687; May 24.
 Lenn, James T., Newburgh, Ind. Shock absorber for vehicle springs. 1,630,125; May 24.
 Lennig, Alvar, Brooklyn, assignor to Electroflux Servel Corporation, New York, N. Y. Thermosiphon circulation for absorption refrigeration systems. 1,645,706; Oct. 18.
 Lennox furnace Company. (See Vrba, James, assignor.)
 Lennox, Thomas C., Pittsfield, Mass., assignor to General Electric Company. Continuous-current generator. 1,635,000; July 5.
 Lennox, Thomas C., Pittsfield, Mass., assignor to General Electric Company. Synchronous rectifier. 1,635,001; July 5.
 Lennox, Thomas C., Pittsfield, Mass., assignor to General Electric Company. Continuous-current transformer. 1,635,002; July 5.
 Lenston, Charles S., assignor to Hobbs Manufacturing Company, Worcester, Mass. Scoring cutter. 1,646,918; Oct. 25.
 Lent, John M., Evansville, Ind., assignor to The Owens Bottle Company, Toledo, Ohio. Changing glass-feeder bushings. 1,642,881; Sept. 20.
 Lents, John M., and F. R. Miller, assignors to Graham Glass Company, Evansville, Ind. Method and apparatus for fire-finishing glass articles. 1,626,736; May 3.
 Lentz, Hugo, Berlin, Germany. Automatic closure for collapsible tubes or the like. 1,640,782; Aug. 30.
 Lentz, William H. (See Manuel, C. J., and Lentz.)
 Lenz, Charles S., & G. Jupp, assignors to American Marine Device Corporation, New York, N. Y. Separator. 1,614,074; Jan. 11.
 Leob, Albert, Winfield, Ill. Jelly preparation. 1,629,716; May 24.
 Leo, Albert, Chicago, Ill. Food composition. 1,643,951; Oct. 4.
 Leo, Albert, Chicago, Ill., and H. T. Leo, Corona, Calif. Food composition. 1,643,950; Oct. 4.
 Leo, Herbert T. (See Leo, Albert, and H. T.)
 Leo, Herbert T., Topeka, Kans. Dry powdered jelly base containing pectin and sugar and making same. 1,646,157; Oct. 18.
 Leo, Herbert T., Corona, Calif. Extracting pectin from sugar. 1,646,153; Dec. 27.
 Leo, Hermann, Gera-Reuss, Germany. Air pump. 1,622,876; Mar. 29.
 Leon, Anthony, and J. Lattimer, Worcester, Mass. Ice-cream-cone storing and dispensing device. 1,641,040; Aug. 30.
 Leon, Karl O., Lidköping, Sweden. Roller bearing for radial and axial loads. 1,625,812; Apr. 26.
 Leon, Lewicki J., West Chicago, Ill. Bird cage. Des. 72,482; Apr. 19.
 Leon, Lewicki J., West Chicago, Ill. Wall bracket for bird cages. Des. 72,522; Apr. 26.
 Leon, Lewicki J., West Chicago, Ill. Bird cage. Des. 73,090; July 19.
 Leon, Lewicki J., West Chicago, Ill. Base for bird cages. 1,614,927; Jan. 18.
 Leon, Lewicki J., West Chicago, Ill. Bird cage. 1,629,717; May 24.
 Leonard, Carl H., Pender, Nebr. Wrench. 1,653,861; Dec. 27.
 Leonard, Frank P., Troy, N. Y., assignor of one-half to F. C. Claessens, Troy, N. Y. Nail. 1,619,944; Mar. 8.
 Leonard, Frank P., Troy, N. Y. Shingles and roofing. 1,630,019; May 24.
 Leonard, Fred B. (See McChillis, Joseph E., assignor.)
 Leonard, Frederick C., and C. W. Rietzel, assignors to Leonard-Rooke Co., Providence, R. I. Thermally-controlled signaling device. 1,636,698; July 26.
 Leonard, Harry E., assignor to Draper Corporation, Hopedale, Mass. Builder mechanism for winding machines. 1,652,144; Dec. 6.
 Leonard, Harry C., and W. H. Whittier, Grand Rapids, assignor, by mesne assignments, to Electric Refrigeration Corporation, Detroit, Mich. Refrigerator-flue construction. 1,630,065; May 24.
 Leonard, Joseph, assignor to Fifth Avenue Corset Company, Inc., Allentown, Pa. Corset. 1,637,313; July 26.
 Leonard, Peter G. (See Holt, William, assignor.)
 Leonard, Peter G., Tulsa, Okla., assignor to Rovaland and Seftang Manufacturing Company, Bradford, Pa. Clutch. Re. 1,668; Mar. 8.
 Leonard, Peter J., Worcester, Mass., assignor, by mesne assignments, to The Chase National Bank of the City of New York, trustee, New York, N. Y. Dish drainer. 1,617,064; Feb. 8.
 Leonard, Peter J., and E. J. Connor, Worcester, Mass., assignors, by mesne assignments, to The Chase National Bank of the City of New York, New York, N. Y. Flour sifter. 1,630,853; May 31.
 Leonard-Banks Co. (See Leonard, F. C., and Rietzel, assignors.)
 Leonard, Stuart G. (See Worsley, R. T., and Stuart.)
 Leonard, Stuart G., Lakewood, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,654,505; Dec. 27.

- Leonard, Wilbur A., Milford, Conn., assignor to The Geometric Tool Company, New Haven, Conn. Die head. 1,617,864; Feb. 15.
- Leone, Carmine, Waltham, Mass. Automobile safety fender. 1,630,951; May 31.
- Leonhauser, Henry A. (See Clark, A. T., Leonhauser, and Jester.)
- Leonhauser, Henry A., Baltimore, Md., assignor to The J. G. Brill Company, Philadelphia, Pa. Automatic slack adjuster. 1,631,969; June 14.
- Leoni, Alfonso M. (See Asprooth, A. H., and Leoni.)
- Leoni, Hugo, assignor to Super-Rubber Lining Corporation, New York, N. Y. Necktie and lining therefor. 1,634,032; June 28.
- Leopold, Frederick, jr., Harmonville, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Tire casing and similar article. Des. 72,102; Mar. 1.
- Leopold, Frederick, jr., Harmonville, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Tire casing or similar article. Des. 72,431; Apr. 12.
- Leopold, Frederick B., Pittsburgh, Pa. Mixing apparatus. 1,613,663; Jan. 11.
- Leopold, George O. (See Fegley, T. J., and Leopold.)
- Leopold, Joseph, New York, N. Y. Water turbine. 1,640,793; Aug. 30.
- Le Pere, John G., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Corn popper. 1,638,493; Aug. 9.
- Lepley, Daniel F., deceased; P. V. Lipey, executor, assignor to Connelleville Manufacturing and Mine Supply Co., Connelleville, Pa. Overwind control for hoists. 1,614,372; Jan. 11.
- Lepley, Daniel F., deceased; P. V. Lipey, executor, assignor to Connelleville Manufacturing and Mine Supply Co., Connelleville, Pa. Skip-loading apparatus. 1,614,373; Jan. 11.
- Lepley, Paul V., executor. (See Lepley, Daniel F.)
- Lepper, John G. (See Meyer, J. J., jr., and Lepper.)
- Leppert, Dorrance W., North Bergen, assignor to S. Bickman, Inc., Weehawken, N. J. Cold-towel humidifier. 1,615,879; Feb. 1.
- Leppert, Robert C., Chicago, Ill. Concertina or accordion. 1,634,108; June 28.
- Leppke, Louis A., and J. H. Scharf, Omaha, Nebr. Display device. 1,624,741; Apr. 12.
- Leprestre, Rene. (See Miolati, Arturo, assignor.)
- Le prieux, Yves P. G., assignor to Societe Anonyme La Precision Moderne, Paris, France. Sight for machine guns for antiaircraft firing. 1,651,093; Nov. 29.
- Lerch, Fred J., Louisville, Ky. Pipe. 1,635,487; July 12.
- Lerch, Rudolph, New York, N. Y. Automatic weather strip. 1,640,070; Nov. 15.
- Lerliche, Willis, assignor to Cement Gun Contracting Company, Allentown, Pa. Attaching shooting strips. 1,636,098; July 19.
- Lerner, Friedrich, Vienna, Austria. Paper-cutting machine. 1,632,378; June 14.
- Lerner, Harry, Brooklyn, and A. Ginsburg, New York, N. Y. Casserole cover. Des. 72,430; Apr. 12.
- Lerner, Harry, Brooklyn, and A. Ginsburg, New York, N. Y. Casserole frame. Des. 73,091; July 19.
- Le Roi Company. (See Pendock, Charles W., assignor.)
- Le Rossignol, Robert. (See Bartlett, A. C., and Le Rossignol.)
- Le Rouge, Jean, Boulogne, assignor to Societe l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude), Paris, France. Separating gaseous mixtures. 1,626,345; Apr. 26.
- Le Rouge, Jean, Boulogne, assignor to Societe l'Air Liquide (Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude), Paris, France. Separation of the elements of air or of other gaseous mixtures by liquefaction and rectification. 1,638,005; Aug. 2.
- Le Roy, Walter E., Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill. Waistband for trousers. 1,652,536; Dec. 15.
- Lerro, Angelo R., Philadelphia, Pa. Gunlock. 1,643,952; Oct. 4.
- Lesavoy, Isidore L. (See Lesson, Isidore.)
- Lesavoy, Isidore L., New York, N. Y. Chess. 1,628,412; May 10.
- Lescaerts, Fernand, Brussels, Belgium. Variable-speed gear. 1,618,987; Mar. 1.
- Leschhorn, Ernest, Chicago, Ill., assignor to Latham Machinery Company. Stitching machine. 1,612,870; Jan. 4.
- Leschman, William, assignor, by mesne assignments, to Chicago Electric Manufacturing Company, Chicago, Ill. Spring-retracted electric cigar lighter. 1,630,952; May 31.
- Leschman, William, assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Switching socket. 1,644,479; Oct. 4.
- Leschuk, Philip. (See Breuer, V., and Leschuk.)
- Les Etablissements Poulenc Frères. (See Billon, François, assignor.)
- Lesher, Charles O., Fairfield, Iowa, assignor to The Loudon Machinery Company, filler for the panels of animal pens. 1,620,976; Mar. 15.
- Leslin, Alex R., Seattle, Wash. Shoe and manufacturing the same. 1,623,350; Apr. 5.
- Leskiewicz, Michael, and W. Bartkowiak, Chicago, Ill. Combined picture frame and stand therefor. Des. 72,212; Mar. 15.
- Lesley, Hugh, Philadelphia, Pa. Storage battery. 1,613,955; Jan. 11.
- Leslie, Eugene H., Ann Arbor, Mich., and B. R. Tunison, New York, N. Y. Carrying out chemical reactions with liquids. 1,644,738; Oct. 11.
- Leslie, John N., Colusa, assignor of one-half to O. E. Ried, Arbutuck, Calif. Tire carrier. 1,617,766; Feb. 15.
- Leslie, Maud, Paintsville, Ky. Curtain. 1,619,945; Mar. 8.
- Les Parfums de Rosine, Inc. (See Raynor, Harold H., assignor.)
- Lespassas, Victor D., Chicago, Ill. Caponizing instrument. 1,615,123; Jan. 18.
- Lesquendieu, J., Inc. (See Lesquendieu, Joseph, assignor.)
- Lesquendieu, Joseph, Paris, France, assignor to J. Lesquendieu Inc., New York, N. Y. Box for salve or cream. 1,643,815; Sept. 27.
- Lesquendieu, Joseph, Paris, France, assignor to J. Lesquendieu Inc., New York, N. Y. Box for salve or cream. 1,643,895; Sept. 27.
- Less Carload Lots Company, The. (See Smith, Alfred H., assignor.)
- Lessard, Joseph. (See Lvesque, L. J., and Lessard.)
- Lesser, M. Sol. (See Vallat, André, assignor.)
- Lessler, Lew W., Johnson City, assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Camera-front catch. 1,637,225; July 26.
- Lessner, Lew W., Johnson City and C. A. Bornmann, assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Film-winding mechanism for cameras. 1,642,818; Sept. 20.
- Lesson, Isidore, also known as Isidore L. Lesavoy. Apparatus. 1,649,711; Nov. 15.
- Lesson, Isidore L., Bronxville, N. Y. Mop and duster. 1,634,907; July 5.
- Lester, Sidney J., Princeton, Ky. Backband book. 1,618,838; Feb. 22.
- Lester, William H., assignor to Illinois Watch Case Company, Elgin, Ill. Case holder. 1,642,161; Sept. 13.
- Letourneur, Robert G., Stockton, Calif. Scarifier. 1,623,317; Apr. 5.
- Lettré, Philip H., North Attleboro, Mass. Line-spliffing device. 1,622,324; Mar. 29.
- Letzan, Fred A., Lansing, Mich. Door holder. 1,628,502; May 10.
- Letz Manufacturing Company, The. (See Holland-Letz, John, assignor.)
- Leu, Frederick, Carmel, N. Y. Sand-blasting machine. 1,637,196; July 26.
- Leu, Jacob J., Belmont, Iowa. Fishhook. 1,613,113; July 4.
- Leuch, Friedrich, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Antispasmodic. 1,640,506; Aug. 30.
- Leuchtenberg, Wm. E. (See Raffler, Emil, assignor.)
- Leuchtenberg, William E., New York, N. Y. Removing hydrogen sulphide from coal or water gases. 1,629,399; May 17.
- Leucht, Richard L. (See Rihosek, J., and Leucht.)
- Leui, Foster A. (See Mathouser, C. B. and Leui.)
- Leupold, Volpel & Co. (See Stevens, John C., assignor.)
- Leute, Karl M., Detroit, Mich., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,622,226; Mar. 22.
- Le Valentin, John, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Unloading valve. 1,634,049; July 5.
- Le Valley, John, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-compressor valve. 1,634,049; July 5.
- Le Valley, John, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Free-air unloader for compressors. 1,653,110; Dec. 20.
- Levan, John E., Elkhart, Ind., assignor, by mesne assignments, to The Adams & Westlake Company, Chicago, Ill. Sash construction. 1,637,865; Aug. 14.
- Le Van Horning, Harry, assignor to Waukesha Motor Company, Waukesha, Wis. Condenser structure. 1,651,786; Dec. 6.
- Levay, Eugene, New York, N. Y. Hob of a quilt game. 1,617,127; Feb. 8.
- Levendahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Chisel retainer for riveting hammers. 1,613,399; Jan. 4.
- Levene, Albert H., assignor to Levene Steel Products Corporation, Newark, N. J. Library shelf. 1,617,685; Feb. 15.
- Levene Steel Products Corporation. (See Levene, Albert H., assignor.)
- Levenson, Adolph, New York, N. Y. Coupling member for lubricating devices. 1,635,371; July 12.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,617,338; Feb. 15.
- Levering, James F., Atlantic City, N. Y., assignor of one-half to C. Farnet, Valley Falls, Kans. Compound vacuum cotton gin. 1,646,060; Oct. 18.
- Levering, James H., Los Angeles, Calif. Externally reinforced construction and making the same. 1,643,275; Sept. 20.
- Levernier, Martin W., Winnetka, Ill. Soap dispenser. Des. 73,185; Aug. 2.

- Levesque, Joseph, Nashua, N. H. Shock absorber. 1,628,503; May 10.
- Levesque, Louis J., and J. Lessard, assignors to Le Chaudage Electricque, Ideal Limitee, Bagotville, Quebec, Canada. Heater. 1,619,425; Mar. 1.
- Levett, Thomas, New York, N. Y. Windshield cleaner. 1,613,280; Jan. 4.
- Levi, Albert D., et al. (See Gottlieb, Abraham, assignor.)
- Levi, Harold R., Jr., Lexington, Ky. Arch support. 1,651,285; Nov. 29.
- Levien, Louis, New York, N. Y. Bridge-table tray. Des. 74,016; Dec. 6.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric locomotive. 1,613,710; Jan. 11.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-mining apparatus. 1,617,401; Feb. 15.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-mining apparatus. 1,638,447; Aug. 9.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Dislodging mechanism. 1,639,741; Aug. 23.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Method and machine for loading coal. 1,645,653; Oct. 18.
- Levine, Abraham, Elizabeth, N. J., assignor to Presto Lock Corporation, New York, N. Y. Lock. Des. 72,023; Feb. 15.
- Levine, Hyman, Englewood, Colo. Anatomical restraining appliance. 1,623,125; Apr. 5.
- Levine, Hyman, Denver, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated engine. 1,630,953; May 31.
- Levinson, Aaron. (See Stricker, William, assignor.)
- Levinson, Irwin E., Chicago, Ill., assignor to Hamilton-Ross Factories, Inc. Loop for lighting fixtures or similar articles. Des. 73,926; Nov. 22.
- Levinson, Irwin E., Chicago, Ill., assignor to Hamilton-Ross Factories, Inc. Loop for lighting fixtures or similar articles. Des. 73,927; Nov. 22.
- Levinson, Irwin E., Chicago, Ill., assignor to Hamilton-Ross Factories, Inc. Loop for lighting fixtures or similar articles. Des. 73,928; Nov. 22.
- Levinson, Irwin E., Chicago, Ill., assignor to Hamilton-Ross Factories, Inc. Loop for lighting fixtures or similar articles. Des. 73,929; Nov. 22.
- Levinson, Israel, Cleveland, Ohio. Resilient tire. 1,647,455; Nov. 1.
- Levinson, Joseph H., New York, N. Y. Latch. 1,647,921; Nov. 1.
- Levis, John H., Jr., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,614,440; Jan. 11.
- Levis, John H., Jr., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. 1,641,228; Sept. 6.
- Levis, Robert S. (See Dake, C. W., and Levis.)
- Levitan, Morris, New York, N. Y. Scroll arm for electric-lighting fixtures. Des. 71,804; Jan. 4.
- Levitan, Morris, New York, N. Y. Electric-lighting fixture for ceilings. Des. 71,805; Jan. 4.
- Levitan, Morris, New York, N. Y. Electric-lighting fixture. Des. 71,806; Jan. 4.
- Levitan, Morris, New York, N. Y. Electric-lighting wall fixture. Des. 72,375; Apr. 5.
- Levitt, Samuel, Brooklyn, assignor to United Metal Hose Company, Inc., New York, N. Y. Pipe coupling. 1,637,701; Aug. 2.
- Levkoff, David, assignor to B. J. Levkoff, Augusta, Ga. Garment protector. 1,643,077; Sept. 20.
- Levkoff, Evelyn J. (See Levkoff, David, assignor.)
- Levy, Abraham L., Portland, Oreg. Lock. 1,653,187; Dec. 20.
- Levy, Benjamin F. (See Peterson, Martin T., assignor.)
- Levy, Bernard, Philadelphia, Pa., assignor to The Keystone Watch Case Co., Riverside, N. J. Watchcase. Des. 72,024; Feb. 15.
- Levy, Edward, New York, N. Y. Diving armor. 1,643,667; Sept. 27.
- Levy, Edward J., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Thermostat. 1,644,533; Oct. 4.
- Levy, Gustav J., assignor to Hollywood Chemical Company, Los Angeles, Calif. Recovering metals from solutions. 1,624,172; Apr. 12.
- Levy, Harry, South Portland, assignor to The New England Guild, Portland, Me. Machine for hooking rugs and the like. 1,616,454; Feb. 8.
- Levy, Harry, Chicago, Ill. Bathtub cover. 1,638,346; Dec. 13, 1927.
- Levy, Harry D., et al. (See Husted, Harry F., assignor.)
- Levy, Henry, Brooklyn, N. Y. Small-batch-mixing apparatus. 1,645,912; Oct. 18.
- Levy, Isaac, Brooklyn, N. Y. Chandelier or article of similar nature. Des. 73,571; Oct. 4.
- Levy, Isaac, Brooklyn, N. Y. Lighting fixture back plate or analogous article. Des. 73,572; Oct. 4.
- Levy, Leo M. (See Lewis, B. H., and Levy.)
- Levy, Leonard A., Crickwood, assignor to Apex (British) Artificial Silk Ltd., Stratford, England. Manufacture of cellulose acetate. 1,652,024; Dec. 6.
- Lévy, Marcel. (See Terrisse, H., and Lévy.)
- Lévy, Marcel, assignor to "Prodor" Fabrique de Produits Organiques S. A., Geneva, Switzerland. Bituminous concrete and like composition. Ref. 682; Dec. 20.
- Lévy, Marcel, Geneva, Switzerland, assignor to The International Sugar and Alcohol Company Limited, London, England. Removing coloring matters and other impurities from solutions. 1,615,091; Jan. 18.
- Lévy, Marcel, assignor to "Prodor" Fabrique de Produits Organiques S. A., Canton of Geneva, Switzerland. Molding of pipes and like hollow articles. 1,622,325; Mar. 29.
- Lévy, Robert, Berlin, Germany. Lamp shade. 1,634,545; July 5.
- Lew, Samuel S., Boston, Mass. Window shade, 1,620,159; Mar. 6.
- Lewy, Solomon J., San Francisco, Calif. Automobile trunk rack. Des. 72,025; Feb. 15.
- Lewy & Westwood Machinery Company. (See Westwood, Louis J., assignor.)
- Lew, Albert F., Baker, Oreg. Tire tool. 1,619,426; Mar. 6.
- Lewandowski, Leon P., Loup City, Nebr. Pocket for garments. 1,613,664; Jan. 11.
- Lewellen, Albert R., assignor to General Motors Corporation, Detroit, Mich. Circuit-controlling device. 1,651,397; Dec. 6.
- Lewellen, Darcy E., Columbus, Ind. Belt splicer. 1,634,033; June 28.
- Lewellen, Darcy E., Columbus, Ind. Belt fastener. 1,634,034; June 28.
- Lewellen, Darcy E., and E. F., Columbus, Ind. Controller. 1,643,716; Sept. 27.
- Lewellen, Emmons F. (See Lewellen, Darcy E. and E. F.)
- Lewellen, Lewis J., and O. C. Willis, Cotton Valley, La. Rod grip. 1,623,928; Apr. 5.
- Lewenzon, Arthur, Berlin, assignor to the Firm Scherbius & Ritter, Wannesee, near Berlin, Germany. Instantaneous switch. Ref. 654; June 14.
- Lewers & Cooke, Ltd. (See Morris, Raymond L., assignor.)
- Lewers, George R., Brooklyn, assignor to General Chemical Company, New York, N. Y. Electrode. 1,634,372; July 5.
- Lewetzki, Otto, Detroit, Mich. Boat-propelling device. 1,633,597; June 28.
- Lewin, Arthur, assignor to Kupfer Bros. Co., New York, N. Y. Wrapping paper. Des. 73,385; Aug. 30.
- Lewin, Tannie, assignor to the half of W. Lewin, St. Louis, Mo. Smelting furnace. 1,640,574; Aug. 30.
- Lewin, William. (See Lewin, Tannie, assignor.)
- Lewington, Guy A. R., and G. A. Smith, Los Angeles, Calif. Orchard heater. 1,641,540; Sept. 6.
- Lewianek, Georg, Berlin, Germany, assignor to General Electric Company. Ventilation of dynamo-electric machines. 1,645,064; Oct. 11.
- Lewis, A. (Finsbury) Limited. (See Widmer, Harry A., assignor.)
- Lewis, Albert J., Burr Oak, Mich. Wire-splicing tool or wrench. 1,637,226; July 26.
- Lewis, Alfred E., Camperdown, New South Wales, Australia. Electric water heater of the storage type. 1,622,951; Mar. 29.
- Lewis, Arthur J., Stratford, assignor to The Braid Machine Company, Bridgeport, Conn. Vertical former and stripper. 1,613,281; Jan. 4.
- Lewis, Arthur J., Stratford, assignor to The Bald Machine Company, Bridgeport, Conn. Metal cutting or working device. 1,650,841; Nov. 29.
- Lewis, Ben F., Olga, Fla. Bung-plug lock. 1,636,641; July 19.
- Lewis, Burnet B., Indianapolis, Ind., and L. M. Levy, New York, N. Y., assignors to Lewis Novelty Manufacturing Company, Indianapolis, Ind. Pocket ornament. 1,620,904; Mar. 15.
- Lewis, Charles W., Portsmouth, N. H. Combined whip weight and buffer. 1,625,552; Apr. 19.
- Lewis, Claude A., Houston, Tex., assignor to American Window Company. Combined swinging and sliding window. 1,617,128; Feb. 8.
- Lewis, Claude A., assignor to American Window Company, Houston, Tex. Combined sliding and swinging window. 1,633,789; June 28.
- Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window. 1,641,390; Sept. 6.
- Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window and stile. 1,641,391; Sept. 6.
- Lewis, Claude L., assignor of one-third to G. W. Street and one-third to J. Walker, Omaha, Nebr. Water heater. 1,635,063; July 5.
- Lewis, Earle B., Waterbury, Conn. Variable condenser. 1,631,636; June 7.
- Lewis, Edward, and H. Lewis, Chicago, Ill. Handlight-control switch. 1,629,397; May 17.
- Lewis, Edward D., Elmira, N. Y. Oil-burning apparatus. 1,620,111; Mar. 8.
- Lewis, Edward D., Elmira, N. Y. Incinerator. 1,642,536; Sept. 13.
- Lewis, Ernest F., assignor to V. Lewis, Cambridge, Iowa. Plant protector. 1,615,589; Jan. 25.
- Lewis, Felix, St. Petersburg, Fla. Hair-bobbing device. 1,639,804; Aug. 23.
- Lewis, Forest J., Cleveland, Ohio. Apparatus for drilling wells. 1,641,176; Sept. 6.

- Lewis Foundry & Machine Company. (See Lucas, John, assignor.)
- Lewis Foundry & Machine Company. (See Schraishuhn, Theodore A., assignor.)
- Lewis, Frank D., Denver, Colo. Centrifugal amalgamator and concentrator. 1,623,421; Apr. 5.
- Lewis, Frank M., Chicago, Ill. Differential mechanism. 1,619,141; Mar. 1.
- Lewis, Fred K., and C. R. Allen, assignors to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Top for vehicles and the like. 1,628,892; May 17.
- Lewis, Fred K., and L. L. Roath, assignors to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Bow socket and like article. 1,654,132; Dec. 27.
- Lewis, Fred P., and W. V. Thompson, Hamilton, Ont. Level indicator. 1,652,023; Dec. 6.
- Lewis, Frederick L., Long Beach, Calif. Fern stand. Des. 71,803; Jan. 4.
- Lewis, George T., Mayfield, Ky. Retailer. 1,615,638; Jan. 25.
- Lewis, George W., Oilton, Okla. Vulcanizer. 1,631,042; May 31.
- Lewis, George W., Berlin, assignor to G. H. Blood, Marlboro, Mass. Dining table. 1,638,347; Aug. 9.
- Lewis, Hannah, New York, N. Y. Smock. 1,633,447; June 21.
- Lewis, Harry. (See Lewis, Edward and H.)
- Lewis, Harry A., Norristown, Pa. Method of and apparatus for grinding commutator brushes. 1,614,005; Jan. 11.
- Lewis, Harry F., Hamden, assignor to The Candee & Company, New Haven, Conn. Cementing machine. 1,647,235; Nov. 1.
- Lewis, Harry P., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Manufacture of oxidation products of acenaphthene. 1,649,833; Nov. 22.
- Lewis, Henry J., Johannesburg, Transvaal, South Africa. Combined switch and lightning arrester. 1,630,954; May 31.
- Lewis Invisibly Stitch Machine Co. (See Moulton, Harley C., assignor.)
- Lewis, Jacob D., Youkers, and A. Pinto, New York, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Electric safety apparatus. 1,646,028; Oct. 18.
- Lewis, James C. (See Boyd, R., Nitardy, and Lewis.)
- Lewis, Jay H. (See Lewis, Roy J., assignor.)
- Lewis, John E. (See Gary, Stephen J., assignor.)
- Lewis, John D. (See Guarnieri, Stephen J., assignor.)
- Lewis, John P., Tillamook, Ore. Rodent trap. 1,650,455; Nov. 22.
- Lewis, Joseph W., Jr., assignor to The Atlantic Refining Company, Philadelphia, Pa. Method of and apparatus for treating petroleum. 1,636,550; Aug. 19.
- Lewis, Kenneth B., and F. H. Ellsworth, assignors to Morgan Construction Company, Worcester, Mass. Manufacture of wire drawing dies. 1,635,945; July 12.
- Lewis, Lee P., and W. Morgenthaler, Hallsville, Mo. Marker. 1,635,089; July 5.
- Lewis, Leo L., Plainfield, assignor to Carrier Engineering Corporation, Newark, N. J. Method of and apparatus for cooling and ventilating. Re1,611; May 3.
- Lewis, Leon L., Midwest, Wyo. Transmission gearing. 1,638,348; Aug. 9.
- Lewis, Leonard, New York, N. Y. Built-in fire-extinguisher holder. 1,648,615; Nov. 8.
- Lewis, Leroy M., Merion, Pa. Dry-pipe valve. 1,628,674; May 17.
- Lewis, Leroy M., Ardmore, Pa. Dry-pipe-valve accelerator. 1,646,618; Oct. 25.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 1,626,941; May 3.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Amplifying apparatus. 1,636,699; July 26.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Audible signal for railway braking apparatus. 1,641,768; Sept. 6.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,642,073; Sept. 13.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-train-braking apparatus. 1,647,834; Nov. 1.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,652,866; Dec. 13.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,653,363; Dec. 20.
- Lewis, Matthew M., assignor of one-half to E. C. Stenzer, Shenandoah, Iowa. Foot scraper for autos. 1,652,312; Dec. 13.
- Lewis, Morgan J., Massillon, Ohio. Garage-door opener. 1,653,862; Dec. 27.
- Lewis, Nathan E., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler feed. 1,632,201; June 14.
- Lewis, Nathan E., Plainfield, N. J., and D. W. Williams, New Brighton, Staten Island, N. Y., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Furnace. 1,622,595; Mar. 29.
- Lewis Novelty Manufacturing Company. (See Lewis, B. B., and Levy, assignors.)
- Lewis, Oscar J., Canton, Ill. Cultivator attachment. 1,639,777; Aug. 23.
- Lewis, Owen L., assignor, by mesne assignments, to The Alliance Toy & Specialty Company, Alliance, Ohio. Control wand body. 1,642,961; Sept. 20.
- Lewis, Phillip P., Tijuana, Calif. Tool for flaring holes. 1,645,602; Oct. 18.
- Lewis, Raymond O., Ainsworth, Neb. Vehicle attached and operated tire pump. 1,627,654; May 10.
- Lewis, Richard E., Chicago, Ill. Handle for floor-surfacing machine. 1,630,854; May 31.
- Lewis, Richard H., Riverdale, Md. Selective four-wheel drive and steering and brake mechanism for automobiles. 1,621,211; Mar. 15.
- Lewis, Richard J., Mohawk, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,631,970; June 14.
- Lewis, Robert B., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Hardness-testing machine. 1,622,455; Mar. 29.
- Lewis, Robert B., Philadelphia, and C. E. Williams, Philadelphia, assignors to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Dynamic ductility-testing machine. 1,653,714; Dec. 27.
- Lewis, Roy J., Fort Wayne, Ind., assignor of one-half to J. H. Lewis, Grand Rapids, Mich. Protector for bit points. 1,652,283; Dec. 13.
- Lewis, Samuel C., and F. S. Harris, Abilene, Tex. Casing puller and cutter. 1,638,494; Aug. 9.
- Lewis, Samuel J., Detroit, Mich. Dispensing tube. 1,622,526; Mar. 29.
- Lewis, Samuel R., Chicago, Ill. Heating and ventilating device. 1,640,331; Aug. 23.
- Lewis Shepard Company. (See Lovejoy, Ralph M., assignor.)
- Lewis, Stephen, Martins Ferry, Ohio. Shock absorber for vehicles. 1,620,112; Mar. 8.
- Lewis, Ted A., assignor to Ted Lewis & Co., Denton, Tex. Gas burner. 1,616,862; Feb. 8.
- Lewis, Ted, & Co. (See Lewis, Ted A., assignor.)
- Lewis, Thomas A., New York, N. Y. Display apparatus. 1,645,335; Oct. 11.
- Lewis, Thomas J., New York, N. Y. Hand bag for ladies. 1,617,855; Feb. 15.
- Lewis, Thomas J., New York, N. Y. Spatulating machine. 1,622,533; Mar. 29.
- Lewis, Thomas J., New York, N. Y. Combination display and vanity case. 1,638,638; Aug. 9.
- Lewis, Thomas J., New York, N. Y. Compact press and making compacts. 1,638,696; Aug. 9.
- Lewis, Thomas J., New York, N. Y. Cleansing-cream applicator. 1,652,707; Dec. 13.
- Lewis, Viola. (See Lewis, Ernest F., assignor.)
- Lewis Walter W., San Francisco, Calif. Display rack. 1,637,578; Aug. 2.
- Lewis, Walter W., and J. R. Suman, Houston, Tex. Cement-dumping bucket. 1,652,369; Dec. 13.
- Lewis, Warren C., Newton, Mass., assignor to Standard Development Company. Distillation apparatus. 1,626,346; Apr. 26.
- Lewis, Warren C. (See Loomis, N. E., and Lewis.)
- Lewis, Warren C., Newton, assignor to Samson Cordage Works, Boston, Mass. Manufacture of cordage. 1,639,041; Aug. 16.
- Lewis, Wilbur S., Cleveland, Ohio. Take-up device. 1,627,244; May 3.
- Lewis, Wilbur S., Cleveland, Ohio. Clamping device. 1,647,963; Nov. 1.
- Lewis, Wilbur S., Cleveland, Ohio. Heater-supporting shield. 1,647,964; Nov. 1.
- Lewis, Wilbur S., Cleveland, Ohio. Heater for hair waving. 1,647,965; Nov. 1.
- Lewis, Wilbur S., assignor to The Le Mur Company, Cleveland, Ohio. Tube for permanent waving. 1,637,147; July 26.
- Lewis, Wilbur S., assignor to The S. Le Mur Company, Cleveland, Ohio. Hair-waving curler rod. 1,642,450; Sept. 13.
- Lewis, Wilbur S., Cleveland, and J. C. Murray, Lakewood, assignors to S. Le Mur Company, Cleveland, Ohio. Container for hair in permanent-waving process. 1,619,798; Mar. 1.
- Lewis, Wilfred, Haverford, Pa. Jarring molding machine. 1,614,527; Jan. 18.
- Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding machine. 1,638,665; Aug. 9.
- Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Jar-molding machine. 1,642,074; Sept. 13.
- Lewis, William G., Chicago, Ill. Fountain-pen holder. Des. 72,903; June 21.
- Lewis, William H. (See Knox, L. L., and Lewis.)
- Lewis, William H., New York, N. Y. Tobacco pipe. Des. 72,213; Mar. 15.
- Lewis, William H., New York, N. Y. Tobacco pipe. 1,621,890; Mar. 22.
- Lewis, William J., Syracuse, N. Y. Power press treener. 1,639,410; Aug. 16.
- Lewis, William N., assignor to Sobring Manufacturing Corporation, Sbring, Ohio. Making decorated china-ware. 1,641,820; Sept. 6.

- Lewis, William T., Racine, Wis., and M. M. Eells, Chicago Ill., assignors to Western Coil & Electric Co. Radio-cabinet. Des. 73,186; Aug. 2.
- Lewis, William W., New Milford, Pa., assignor to Dairy-men's League Co-Operative Association, Inc., New York, N. Y. Liquid-sampling device. 1,649,241; Nov. 15.
- Leyland, Percy N., Glen Ridge, N. J. Plate or similar article. Des. 73,092; July 10.
- Leyseffer, Richard, Gladbach, Germany. Commercial inscribing and recording machine. 1,640,003; Aug. 23.
- Leytham, Thomas. (See McDonnell, W. E., and Leytham.)
- L'Holler, Leslie H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber boot. 1,626,417; Aug. 26.
- L'Holler, Leslie H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Form-fitting boot. 1,643,125; Sept. 20.
- Liabo, Sivert, Irene, S. Dak. Speed-regulating device for the feeding attachments for thrashing machines. 1,617,129; Feb. 8.
- Lials, Lucien, Paris, France. Manufacture of agglom. erated fuel. 1,630,662; May 31.
- Libbey, Edwin S. (See Libbey, Harry S., assignor.)
- Libbey Glass Company, The. (See Abert, Ernst, assignor.)
- Libbey Glass Manufacturing Company, The. (See Kadow, August, assignor.)
- Libbey Glass Manufacturing Company, The. (See Parker, Alvah C., assignor.)
- Libbey Glass Manufacturing Company, The. (See Ratner, Richard I., assignor.)
- Libbey, Harry S., assignor to E. S. Libbey, Arlington Mass. Combined glasshead and bracket therefor. Des. 73,187; Aug. 2.
- Libbey-Owens Sheet Glass Company. (See Blackshere, J. D., and Drake, assignors.)
- Libbey-Owens Sheet Glass Company, The. (See Blair, James C., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Brown, Wilbur F., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Drake, John L., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Ferngren, Enoch T., assignor.)
- Libbey-Owens Sheet Glass Company. (See Fowle, Arthur E., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Fraser, Frank, assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Gibson, William A., assignor.)
- Libbey-Owens Sheet Glass Company. (See Henderson, John C., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Mambourg, Nestor, assignor.)
- Libbey-Owens Sheet Glass Company. (See McKinley, Thomas C., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Neenan, Joseph M., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Owens, Michael J., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Reece, Joseph A., assignor.)
- Libbey Owens Sheet Glass Company, The. (See Rhoades, W. A., and McKinley, assignors.)
- Libbey-Owens Sheet Glass Company, The. (See Small, J. B., and Kincaid, assignors.)
- Libby, Frank, Los Angeles, Calif. Making plates for multicolor printing. 1,642,451; Sept. 13.
- Libby, Hollis W. (See Farmer, C. D., and Libby.)
- Libby, McNeill & Libby. (See Neville, John J., assignor.)
- Libby, Sam H., East Orange, N. J., assignor to General Electric Company. Thrust bearing. 1,626,470; Apr. 26.
- Lieberman, Charles, New York, N. Y. Shoe-raising-plate form device. 1,630,191; May 24.
- Lieberman Manufacturing Company. (See Loewy, Aaron G., assignor.)
- Liberty Development Company, The. (See Griesse, Elmer G., assignor.)
- Liberty, Joseph, Hartford, Conn. Geometrical instrument. 1,622,158; Mar. 22.
- Liberty Machine Tool Company, The. (See Johannesmeier, Charles G., assignor.)
- Liberty National Bank, trustee. (See Davis, Ernest, assignor.)
- Liberty Systems Corporation. (See Watters, L. A., Lloyd, and Reller, assignors.)
- Libl, John J., San Francisco, Calif. Electric heater and stove. 1,621,171; Mar. 15.
- Libl, John J., San Francisco, Calif. Safety razor. 1,652,154; Dec. 6.
- Lichfield, Edgar C., and V. Speer, Cedar Falls, Iowa, and C. F. Hermann, Moline, Ill., assignors to H. L. Litchfield, Waterloo, and B. C. Litchfield, Cedar Falls, Iowa. Variable form fertilizer distributors and the like. 1,634,178; Jan. 4.
- Licht, William I., Brooklyn, N. Y. Radio extension conductor and reel. 1,620,562; Mar. 8.
- Lichte, Huzo. (See Habnemann, W., Hecht, Lichte, and Adelman.)
- Lichte, Jingo. (See Habnemann, W., Wilcke, and Lichte.)
- Lichtenberg, Erich H., Milwaukee, Wis. Snow-removing machine. 1,615,461; Jan. 25.
- Lichtenberg, Erich H., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Drive mechanism for tractors. 1,626,680; Mar. 3.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Water-measuring controller for mixers. 1,649,603; Nov. 15.
- Lichtenfels, William, assignor to New Jersey Chain Corporation, Newark, N. J. Bracelet. 1,630,965; May 31.
- Lichtenstein, Edmund, assignor to Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b. H., Berlin, Germany. Duplicating apparatus. 1,620,395; May 31.
- Lichtenstein, Edmund, assignor to Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b. H., Berlin, Germany. Duplicator. 1,636,750; July 26.
- Lichtenstein, Edmund, assignor to the firm: Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b. H., Berlin, Germany. Flexible printing sheet. 1,644,597; Oct. 4.
- Lichtenstein, Edmund, assignor to Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b. H., Berlin, Germany. Duplicating apparatus. 1,651,024; Dec. 6.
- Lichtenstein, Harry R., assignor to M. Lichtenstein & Bro., New York, N. Y. Button and fastener therefor. 1,619,800; Mar. 1.
- Lichtenstein, Henry E., New York, N. Y. Demonstrating device. 1,632,302; June 14.
- Lichtenstein, M., & Bro. (See Lichtenstein, Harry R., assignor.)
- Lichter, Malvin, assignor to himself and L. Jacobs, partners, trading as Stickless Fan Company, New York, N. Y. Worker's apron. 1,618,208; Feb. 22.
- Lichter, Malvin, assignor to himself and L. Jacobs, partners, trading as Stickless Fan Company, New York, N. Y. Delivery chute for use with cutting dies. 1,618,453; Feb. 22.
- Lichterman, Charles, Pittston, Pa. Washing machine. 1,622,227; Mar. 22.
- Lichter, Metal Products Company. (See Lichty, N. A., and Ostrander, assignors.)
- Lichty, Norman A. (See Ostrander, Charles L., assignor.)
- Lichty, Norman A., and C. L. Ostrander, assignors to Lichty Metal Products Company, Waterloo, Iowa. Intake ventilator. 1,618,597; Jan. 11.
- Lichty, Norman A., and C. L. Ostrander, assignors to Lichty Metal Products Company, Waterloo, Iowa. Ventilator intake flue. 1,638,728; Aug. 9.
- Lickert, William J. (See Reedy, J. H., and Lickert.)
- Liddell, Robert P. F., New York, N. Y., assignor to Motor Improvement Inc., New York, N. Y. Lubricating system. 1,613,467; Jan. 4.
- Liddicott, Richard T. (See Abrams, H. J., Liddicott, and Stevens.)
- Lidgerwood Manufacturing Company. (See Dickinson, Merian H., assignor.)
- Lidman Mfg. Corporation. (See Lightbart, Charles H., assignor.)
- Lidsen, Gustave, Chicago, Ill. Pump-feed oil can. 1,621,891; Mar. 22.
- Lidsen, Gustave, Chicago, Ill. Oil can. 1,641,088; Aug. 30.
- Lieber, Harry, Swarthmore, Pa., assignor to Scott Paper Company, Device for making rolls of paper. 1,633,595; June 28.
- Liebenberg, Arthur J., assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio. Motor controller. 1,615,619; Jan. 18.
- Liebenberg, Arthur J., assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio. Elevator leveling control. 1,626,290; Apr. 26.
- Lieberknecht, Gottlieb. (See Mühl, Joseph, assignor.)
- Lieberknecht, Paul, Chemnitz, assignor to Ernst Roessneck Gesellschaft mit beschränkter Haftung, Eisenach, Germany. Knitting machine. 1,643,249; Sept. 20.
- Lieberman, Joseph, Bayonne, N. J. Lamp. Des. 72,214; Mar. 15.
- Liebert, Herman R., and W. Fischer, assignors to Goodyear Zeppelin Corporation, Akron, Ohio. Ballast cover for airships. 1,645,005; Oct. 11.
- Liebert, Richard, and W. Fischer, assignors to Goodyear Zeppelin Corporation, Akron, Ohio. Power plant for airships. 1,642,036; Sept. 13.
- Liebig, Howard C., Cleveland, Ohio, assignor, by mesne assignments, to The Cuno Engineering Corporation, Meriden, Conn. Combined trouble light and cigar lighter. 1,640,507; Aug. 30.
- Liebknecht, Otto, Frankfurt-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Manufacture of hydrocyanic acid. 1,626,848; May 3.
- Liell, Henry J., Buffalo, N. Y. System of transportation. 1,649,535; Nov. 15.
- Liebmam, Alfred J., New York, N. Y., assignor to General Electric Company. Tungsten contact-breaker arm. 1,650,897; Nov. 29.
- Liebmam, August G., San Francisco, Calif. Fluid pressure-operated shoveling machine. 1,622,456; Mar. 29.
- Liebrecht, Arthur, Frankfurt-on-the-Main, Germany, assignor to Chemisch-Pharmazeutische Corporation, Bad Homburg, Manufacture of quinine solutions suitable for subcutaneous injections. 1,648,487; Nov. 8.

- Liebrich, John E., Indianapolis, Ind. Automobile signal accessory. 1,637,528; Aug. 2.
- Lied, Ernst F., Omaha, Nebr. Golf club. 1,648,354; Nov. 8.
- Lieder, Ludwig, Modling, near Vienna, Austria. Apparatus for use in erecting walls of blocks, bricks, or the like. 1,653,863; Dec. 27.
- Lienhard, Leon V. (See Snodgrass, Joseph E., assignor.)
- Lienhard, Richard B., Newington, assignor to The Taplin Manufacturing Company, New Britain, Conn. Egg beater. 1,623,256; Apr. 5.
- Liening, Henry A., Detroit, Mich. Combined drinking fountain and animal trough. 1,632,842; June 21.
- Liepold, Leo, Heron Lake, Minn. Gate. 1,636,571; July 19.
- Lieske, Rudolf, Leverkusen, A. Thaus, Cologne-Deutz, and W. Bonrath, Leverkusen, near Cologne, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Dusting powder adherent to plants. 1,616,323; Feb. 1.
- Lieske, Rudolf, Leverkusen, near Cologne, W. Schulemann, Vohwinkel, near Elberfeld, and W. Bonrath, Leverkusen, near Cologne, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y. Disinfecting agent. 1,640,901; Aug. 30.
- Lieske, Rudolf, and W. Bonrath, Leverkusen, near Cologne, Germany, assignors, by mesne assignments to Winthrop Chemical Company Inc., New York, N. Y. Copper derivatives for combating animal and plant pests. 1,640,586; Nov. 15.
- Lievens, Léon L., Nanterre, assignor to La Société d'Etudes, Constructions et Applications Mécaniques, Paris, France. Adjustable-delivery ink container for rotary duplicators. 1,633,596; June 28.
- Lifshitz, Alex M., Brooklyn, N. Y. Electrical attachment for musical instruments. 1,646,061; Oct. 18.
- Lifton, Samuel H., Brooklyn, N. Y. Brief case. 1,633,991; June 28.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizing machine. 1,621,938; Mar. 22.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizing machine. 1,625,553; Apr. 19.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizing machine. 1,625,554; Apr. 19.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading apparatus. 1,639,346; Apr. 19.
- Light, Aaron, Chicago, Ill. Separable fastener. 1,613,665; Jan. 11.
- Light, Grant H., Lebanon, Pa. Dental impression tray. 1,634,717; July 5.
- Light, Purl G., Exeter, N. Y. Hay-mowing means. 1,619,620; Mar. 1.
- Lightfoot, Caddie B., East Orange, N. J. Drip pan for food choppers. 1,637,866; Aug. 2.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrically-heated device and manufacture thereof. 1,617,459; Feb. 15.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Machine for winding resistance coils. 1,627,188; May 3.
- Lightfoot, Edwin N., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Making electric heaters. 1,640,861; Aug. 30.
- Lightthart, Charles H., Le Roy, assignor to Lidoen Mfg. Corporation, Batavia, N. Y. Ventilator. 1,613,666; Jan. 11.
- Lighttoller Company. (See Dahl, Thure, assignor.)
- Lightship Board Company. (See Scheffey, George B., assignor.)
- Lightship Cloth Board Corporation. (See Smith, Harry B., assignor.)
- Lignell, Peter. (See Nelson, O., and Lignell.)
- Lignonet, Eugène, Paris, France. Coating cement pipes. 1,618,546; Feb. 22.
- Lignort, William J., Timonium, Md., assignor to General Chemical Company, New York, N. Y. Calcium-arsenate products and making the same. 1,626,942; May 3.
- Lile, Clarence, Granite City, Ill. Note holder as new article of manufacture. 1,621,892; Mar. 22.
- Lille, Dexter W., Badin, N. C. Bottle opener. 1,629,219; May 17.
- Liles, Thomas O., Tyler, assignor of three-eighths to D. C. Matthews and four-eighths to B. H. Ashby, Dallas, Tex. Testing device for internal-combustion engines. 1,637,867; Aug. 2.
- Lillenfeld, Julius B., Kew Gardens, Long Island, N. Y. High-vacuum device for heating bodies. 1,616,812; Feb. 8.
- Lillenfeld, Leon, Vienna, Austria. Fluorescent oil and making same. 1,625,415; Apr. 19.
- Lillenfeld, Leon, Vienna, Austria. Plastic and making same. 1,625,416; Apr. 19.
- Lillenfeld, Leon, Vienna, Austria. Cellulose compound and making same. 1,642,587; Sept. 13.
- Lillenfeld, Leon, Vienna, Austria. Manufacture of artificial materials. 1,642,588; Sept. 13.
- Lillenthal, George W., New York, assignor to Wireless Radio Corporation, Brooklyn, N. Y. Combined ash and pipe tray. Des. 74,017; Dec. 6.
- Lilla, Andrew, Belvidere, S. Dak. Jar opener. 1,615,196; Jan. 18.
- Liljebladh, Eric H., Gottenborg, Sweden. Sheet-separating device for paper-feeding machines. 1,635,626; July 12.
- Lillegren, Karl F., Donna, Tex. Water gate. 1,624,748; Apr. 12.
- Lilleford, Hans, Trondhjem, assignor to A/S Norsk Kjelrensingsmiddel Ideal, Kirkegaten, Oslo, Norway. Purifying composition for counteracting the formation of scale in boilers. 1,629,163; May 10.
- Lilleston, Horace J., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Budget box. 1,648,648; Nov. 8.
- Lilley, Clarence E., Kansas City, Mo. Oil refiner for internal-combustion engines. 1,624,957; Apr. 19.
- Lillford, Henry, New York, N. Y. Tooth-paste holder. 1,627,087; June 14.
- Lillibridge, Harry D., Zanesville, Ohio, assignor to American Ecaustic Tiling Company, Ltd., New York, N. Y. Machine for cleaning tiles and analogous objects. 1,649,604; Nov. 15.
- Lillie, David A. (See Stoltz, B., and Lillie.)
- Lilly, Eli, and Company. (See Lilly, Eli, assignor.)
- Lilly, Eli, and Company. (See Seaton, A., and Rader, assignors.)
- Lilly, Eli, and Company. (See Shonie, Horace A., assignor.)
- Lilly, Eli, and Company. (See Van Scoyoc, G., Wehrlein, and Shonie, assignors.)
- Lilly, Eli, assignor to Eli Lilly and Company, Indianapolis, Ind. Hypodermic kit. 1,625,035; Apr. 19.
- Lilly, Thomas F., Memphis, Tenn. Hydraulic power-transmission mechanism. 1,645,246; Oct. 11.
- Lilly, William J., Tacoma, Wash., and H. H. Logan, Chicago, Ill. Hoist control. 1,624,260; Apr. 12.
- Lilly, William J., Tacoma, Wash., and H. H. Logan, Chicago, Ill. Hoisting-engine control. 1,624,261; Apr. 12.
- Limbers, Don R., Nutt Fort, W. Va. Brake for sleds. 1,614,137; Jan. 11.
- Limont, Alexander W., Bridgeport, Conn. Making valve stems. Re16,619; May 10.
- Limont, Alexander W., Bridgeport, Conn. Making valve stems. Re16,620; May 10.
- Limont, Alexander W., Bridgeport, Conn. Making valve stems. Re16,730; Sept. 6.
- Limont, Alexander W., Jr., Bridgeport, assignor to The Norwalk Company, South Norwalk, Conn. Multistage steam compressor. 1,623,798; Apr. 5.
- Limpicher, Richard. (See Grün, A., and Limpicher.)
- Linsker, Frederick W., and T. M. Bruback, Dubois, Pa. Soot cleaner for boilers. 1,616,863; Feb. 8.
- Lincome, Ashbury, Wichita, Kans. Automobile traffic signal. 1,615,949; Feb. 1.
- Lincoln Electric Company, The. (See Lincoln, James F., assignor.)
- Lincoln, Elmer W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,629,280; May 17.
- Lincoln, James F., assignor to The Lincoln Electric Company, Cleveland, Ohio. Band frame ring for motors. 1,629,876; May 24.
- Lincoln, James F., assignor to The Lincoln Electric Company, Cleveland, Ohio. Frame for dynamo-electric machines. 1,629,877; May 24.
- Lincoln, John C., East Cleveland, Ohio. Dynamo-electric machine. 1,618,962; Feb. 22.
- Lincoln Manufacturing Company. (See Airo, Sally, assignor.)
- Lincoln Manufacturing Company. (See Aspinwall, Robert S., assignor.)
- Lincoln Meter Company. (See Paine, Louis A., assignor.)
- Lincoln Meter Company, The. (See Paine, Louis A., assignor.)
- Lincoln Meter Company Limited, The. (See Lines, Stanley L. B., assignor.)
- Lincoln Meter Company Limited, The. (See Paine, Louis A., assignor.)
- Lincoln Motor Company. (See Little, Thomas J., Jr., assignor.)
- Lincoln Pulp and Paper Company. (See MacLachlan, Robert S., assignor.)
- Lincoln Rubber Key Company. (See Easterlin, Douglas L., assignor.)
- Lincoln Scale Corporation. (See Kennedy, Homer, assignor.)
- Lincoln, William A., et al. (See Pratt, Glenn, assignor.)
- Lincroft-Walton Company. (See Abolina, Harry T., assignor.)
- Lind, Edward J., Emporia, Kans. Liquid-dispensing machine. 1,654,004; Dec. 27.
- Lind, Frederick A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire holder. 1,620,478; Mar. 8.
- Lind, Gus W., Newark, N. J. Water-level indicator and recorder. 1,641,229; Sept. 6.
- Lind, Mathilde and W. C., New Orleans, La. Button. 1,623,847; Apr. 5.
- Lind, Sebert A., Alameda, Calif. Tool. 1,623,689; Apr. 5.
- Lind, Sven G. (See Kullgren, C. F., and Lind.)
- Lind, Werner C. (See Lind, Mathilde and W. C.)

- Lindblad, Nils, Stockholm, Sweden, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Thermoelectrical measuring arrangement. 1,643,068; Sept. 27.
- Lindblom, William E., assignor to Simmons Company, Kenosha, Wis. Method of and apparatus for shaping metallic tubing. 1,645,434; Oct. 11.
- Lindblom, William W., Iron Mountain, Mich. Drop-brake-staff mechanism. 1,618,098; Feb. 15.
- Lindburg, Joseph, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,614,310; Jan. 11.
- Lindburg, Joseph, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Copy-holding device for typewriting machines. 1,615,630; Jan. 25.
- Lindburg, Joseph, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,618,454; Feb. 22.
- Lindburg, Joseph, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Fume disposal apparatus for workbenches. 1,624,107; Apr. 12.
- Lindburg, Joseph, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,635,382; July 12.
- Linde Air Products Company, The, et al. (See Bucknam, James H., assignor.)
- Linde Air Products Company, The. (See Bucknam, Worthy C., assignor.)
- Linde Air Products Company, The. (See Carter, Glenn O., assignor.)
- Linde, Andrew H., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Cage for ball bearings. 1,628,537; Aug. 9.
- Linde, Andrew H., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Cage for ball bearings. 1,638,538; Aug. 9.
- Linder, Edward, Philadelphia, Pa. Tray for ophthalmic test lenses. 1,647,922; Nov. 1.
- Linde, John A., Brooklyn, N. Y. Orthodontic band lock. 1,613,114; Jan. 4.
- Lindeken, August T., assignor to American Manufacturing Company, Los Angeles, Calif. Locking hinge. 1,613,838; Jan. 11.
- Lindeman, Jesse G., Yakima, Wash. Ditching machine. 1,632,303; June 14.
- Lindemann, A. J., & Hoverson Company. (See Lindemann, W. C., and Rutenber, assignors.)
- Lindemann, A. J., & Hoverson Company. (See Rutenber, Edwin A., assignor.)
- Lindemann, Frederick W., St. Paul, Minn. Steam joint. 1,614,794; Jan. 18.
- Lindemann, Frederick W., St. Paul, Minn. Garment press. 1,639,666; Mar. 8.
- Lindemann, Joseph S., New York, N. Y. Bottle. Des. 73,138; July 26.
- Lindemann, Marvin C., assignor to Bay View Furniture Company, Holland, Mich. Cabinet for radio receiving sets. 1,625,478; Apr. 19.
- Lindemann, Oscar, Tompkinsville, N. Y. Birdcage. Des. 72,159; Mar. 8.
- Lindemann, Walter C., and E. A. Rutenber, assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Thermostatic device. 1,653,602; Dec. 20.
- Lindemon, William H. (See Cuthbert, W. R., and Lindemon.)
- Lindenuth, William E., assignor to The Todd Company, Kansas City, Mo. Adjustable leg for tubs or the like. 1,621,260; Mar. 15.
- Linden, Carl E., and G. H. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Safety locking device for the shifting mechanism of metal planers. 1,622,159; Mar. 22.
- Linden, Carl E., and G. H. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Traverse mechanism. 1,629,082; May 17.
- Lindenberg, Henry A., Fergus Falls, Minn. Iceless ice-cream packer. 1,643,816; Sept. 27.
- Lindenberg, Theodore, Cincinnati, Ohio. Reproducer for radio receiving apparatus. 1,636,940; July 26.
- Lindequist, Sven, Wilmersdorf, near Berlin, Germany. Explosion engine with four or more working cylinders. 1,634,249; June 28.
- Linder, Oscar B. (See Haglund, Axel, assignor.)
- Linderman, Bert A., New York, N. Y., assignor to Linderman & Co., Wilmington, Del. Fluid-pressure device. 1,651,212; Nov. 29.
- Linderman, Bert A., New York, N. Y., assignor to Muskegon Machine Company. Dovetailing machine. 1,641,897; Dec. 6.
- Linderman & Co. (See Linderman, Bert A., assignor.)
- Linderman, Garrett B., Jr., Bethlehem, Pa., assignor, by mesne assignments, to American Meter Company, New York, N. Y. Specific-gravity-determining apparatus. 1,644,684; Oct. 11.
- Lindgren, Albus C., St. Charles, assignor to International Harvester Company, Chicago, Ill. Subsoiler. 1,651,031; Nov. 29.
- Lindgren, Hans O., Stockholm, Sweden, assignor, by mesne assignments, to The De Laval Separator Company, New York, N. Y. Apparatus for cleaning bowls of centrifugal separators. 1,644,388; Oct. 4.
- Lindgren, Hugo T., Moline, Ill., assignor, by mesne assignments, to Moline Implement Company. Beet puller. 1,623,737; Apr. 5.
- Lindgren, Waldemar L., assignor to A. A. Norton, trustee, Chicago, Ill. Brush mounting for vacuum cleaners, etc. 1,629,801; May 24.
- Lindgren, Waldemar L., assignor to A. A. Norton, trustee, Chicago, Ill. Brush mounting for vacuum cleaners, etc. 1,629,802; May 24.
- Lindh, Carl B., et al. (See Madsen, Gustav N., assignor.)
- Lindhard, Povl T., Brooklyn, assignor to F. L. Smith & Co., New York, N. Y. Liner for tube mills, etc. 1,631,971; June 14.
- Lindhard, Povl T., Brooklyn, assignor to F. L. Smith & Co., New York, N. Y. Liner for tube mills. 1,631,972; June 14.
- Lindhard, Povl T., Brooklyn, assignor to F. L. Smith & Co., New York, N. Y. Rotary kiln and cooler. 1,653,050; Dec. 20.
- Lindholm, Arthur C., Springfield, Mass. Guiding attachment for reamers. 1,626,244; Apr. 26.
- Lindley, Lowell F., Chicago, Ill. Roofing. 1,650,285; Nov. 22.
- Lindley, Stacey B., assignor to Indiana Canning Machinery Company, Indianapolis, Ind. Mixing and straining machine. 1,618,988; Mar. 1.
- Lindley, Stacey B., assignor to Indiana Canning Machinery Company, Indianapolis, Ind. Turnover table for vegetables and fruits. 1,620,217; Mar. 8.
- Lindley, Stacey B., assignor to Indiana Canning Machinery Company, Indianapolis, Ind. Grading table for vegetables and fruits. 1,621,744; Mar. 22.
- Lindner, Arthur C. E. (See Bergstein, S., and Lindner.)
- Lindner, Werner, Beuthen, Germany. Blasting-bore closure. 1,642,118; Sept. 13.
- Lindquist, Birger W. (See Hennes, R. M., and Lindquist.)
- Lindquist, David L., Hartsdale, N. Y., E. L. Dunn, East Orange, N. J., and D. C. Larson, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Electromagnetic switch. 1,646,029; Oct. 18.
- Lindquist, David N. (See Pearson, A., and Lindquist.)
- Lindquist, Edward. (See Di Martino, C., and Lindquist.)
- Lindquist, Ernest W., Helsinki, Finland. Rotary screen for screening pulp and paper stock. 1,627,655; May 10.
- Lindquist, Philip W., Seattle, Wash. Fish-cleaning apparatus. 1,624,173; Apr. 12.
- Lindroth, Alfred L., Attleboro Falls, Mass. Gem setting. 1,654,335; Dec. 27.
- Lindsay, David, Louisville, Ky. Locomotive-whistle amplifier. 1,650,526; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Lantern. Des. 73,930; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Lantern. Des. 73,931; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Bracket back for lighting fixtures. Des. 73,932; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Bracket back for lighting fixtures. Des. 73,933; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Bracket back for lighting fixtures. Des. 73,934; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Bracket for lighting fixtures. Des. 73,935; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Bracket for lighting fixtures. Des. 73,936; Nov. 22.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Bracket for lighting fixtures. Des. 73,937; Nov. 22.
- Lindsay, Frederick K., assignor to Arizona Minerals Corporation, St. Paul, Minn. Preparing a base exchange material from gels. 1,646,297; Oct. 18.
- Lindsay, Griffith W., and H. Nordmann, Butler, assignors to Standard Steel Pipe Company, Pittsburgh, Pa. Bracket for radiators. 1,649,355; Nov. 15.
- Lindsay, Harvey B., Oakland, Calif., assignor to Dry-Zero Corporation, Chicago, Ill. Refrigerator-pipe insulate. 1,618,455; Feb. 22.
- Lindsay, H. C., Oakland, Calif., assignor to Dry-Zero Corporation, Wilmington, Del. Method and apparatus for producing bodies formed of separate fibers. 1,643,505; Sept. 27.
- Lindsay, Leroy J., assignor of one-half to H. T. Long, Seymour, Iowa. Garden cultivator. 1,618,582; Feb. 22.
- Lindsay, Lycurus, Los Angeles, Calif. Device for aerating and fertilizing soil. 1,650,081; Nov. 22.
- Lindsay, Lynn G. (See Houghland, A. C., and Lindsay.)
- Lindsay, Lynn G., Minneapolis, Minn. Control mechanism for water softeners. 1,632,610; June 14.
- Lindsay, Thomas, London, England, assignor to Area Regulatory, Inc., New York, N. Y. Fluid-pressure-operated regulator. 1,619,351; Mar. 1.
- Lindsay, William. (See Gordon, D. D., and Lindsay.)
- Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Cellulose composition and process. 1,646,911; Feb. 8.
- Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Cellulose composition. 1,620,977; Mar. 15.

- Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Cellulose composition. 1,630,752; May 31.
- Linsley, Everett E. (See Atkins, D., jr., Anderson, and Linsley.)
- Lindsey, Frederick C., Milwaukee, Wis. Heavy-oil vaporizer. 1,637,004; July 26.
- Lindsey, George C., Los Angeles, Calif., assignor of seven thirty-seconds to M. Gozzo, one-eighth to D. Eminger, six thirty-seconds to V. P. Hendrick, and nine thirty-seconds to R. Turner. Sounding board for radio receiving sets and phonographs. 1,633,944; June 28.
- Lindsey, Henry. (See Googe, C., and Lindsey.)
- Lindsey, Robert E., Sonoma, Calif. Jardiniere or similar article. Des. 74,064; Dec. 18.
- Lindsey, Benjamin F., Mansfield, Ohio. Swing stand. 1,629,281; May 17.
- Lindstet, Albert, Bronxville, N. Y. Lawn mower. 1,615,126; Jan. 18.
- Lindstrom, Albert F., Nutley, N. J., assignor to Westinghouse Lamp Company. Coating composition. 1,613,757; Jan. 11.
- Lindstrom, Albert F., Nutley, N. J., assignor to Westinghouse Lamp Company. Coating articles. 1,613,758; Jan. 11.
- Lindstrom, Andrew E., San Francisco, Calif. Apparatus for vacuumizing and sealing cans. 1,626,291; Apr. 26.
- Lindström, Carl, Aktiengesellschaft. (See Holtz, Karl, assignor.)
- Lindstrom, Frank L., assignor to The Lindstrom Tool & Toy Company, Bridgeport, Conn. Mechanical toy. 1,654,386; Dec. 27.
- Lindstrom, Robert S., Chicago, Ill. Cement composition. 1,633,790; June 28.
- Lindstrom Tool & Toy Company, The. (See Lindstrom, Frank L., assignor.)
- Line Material Company. (See Hendee, Lem E., assignor.)
- Line Material Company. (See Hood, Samuel E., assignor.)
- Line Material Company. (See Kyle, William D., assignor.)
- Line Material Company. (See Steinmayer, Alwin G., assignor.)
- Line Material Company. (See Withers, Frank P., assignor.)
- Linebarger, Charles E., Chicago, Ill. Oil cup. 1,644,136; Oct. 4.
- Linebarger, Charles E., Chicago, Ill. Oil cup. 1,644,137; Oct. 4.
- Linebarger, Charles E., Chicago, Ill. Oil cup. 1,644,138; Oct. 4.
- Linebarger, Charles E., Chicago, Ill. Hydrometer. 1,648,412; Nov. 8.
- Linebaugh, Edward R., Barborton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Combined printing and bronzing machine. 1,641,177; Sept. 6.
- Linehan, Edwin R., River Falls, Wis. Vehicle signal. 1,625,733; Apr. 19.
- Lineholl, Elsa E., Norwalk, Ohio. Adjustable shell. 1,646,030; Oct. 18.
- Lines, Grant, assignor of one-third to A. B. McKinney, Fort Smith, Ark. Sandwich-toasting apparatus. 1,649,963; Nov. 22.
- Line, Stanley L. B., assignor to The Lincoln Meter Company Limited, Toronto, Ontario, Canada. Measuring the flow of electric current in a three-wire circuit. 1,634,546; July 5.
- Ling, Steve, Spokane, Wash. Carbon-removing implement. 1,645,435; Oct. 11.
- Linhart, Lena E., Dawn, Mo., assignor to The Buckeye Incubator Company, Springfield, Ohio. Insulating smoke pipes. 1,625,734; Apr. 19.
- Link, Arthur. (See Hoz, H., Bernoulli, and Link.)
- Link-Belt Company. (See Caldwell, Frank B., assignor.)
- Link-Belt Company. (See Jaxon, George S., assignor.)
- Link-Belt Company. (See Knox, Glen, assignor.)
- Link-Belt Company. (See Morehead, G. L., and O'Neill, assignors.)
- Link-Belt Company. (See Oldroyd, Gerald J., assignor.)
- Link-Belt Company. (See Pollak, Solomon, assignor.)
- Link-Belt Company. (See Sayers, Albert J., assignor.)
- Link, Charles L. (See Kincaid, Forrest J., assignor.)
- Link, Charles W. (See Vanderveer, David, assignor.)
- Link, Rolls P., London, England. Press for printing, embossing, or the like. 1,635,132; July 5.
- Link, Theodore A., Chicago, Ill. Football game. 1,629,398; May 17.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,619,262; Jan. 1.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,619,579; Mar. 1.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,625,261; Apr. 19.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Spring shackle. 1,638,587; Aug. 9.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,638,588; Aug. 9.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Clutch. 1,652,446; Dec. 13.
- Linke Oscar W. (See Stelert, A. F., and Linke.)
- Linley, Alfred A., Fairfield, Conn. Separable cover for universal balljoint cases. 1,624,262; Apr. 12.
- Linley, Charles M., Highbury, London, assignor to W. & T. Avery Limited, Birmingham, England. Method of and apparatus for testing the dynamic balance of rotary bodies. 1,634,428; July 5.
- Linn, Carl O., Salina, Kans. Extension rule. 1,629,820; May 24.
- Linn, Charles H., Oakland, Calif. Shock absorber and snubber combined. 1,622,200; Mar. 22.
- Linn, Charles C., Lynn, Mass., assignor to General Electric Company. Bolt-type emergency governor. 1,637,009; Aug. 2.
- Linn, Robert, Chicago, Ill., assignor to W. A. Darrach. Amplifier or enunciator. 1,638,942; Aug. 16.
- Linnebach, Adolph, Presden, Germany, assignor to J. H. Kiegl and A. T. Kiegl, copartners, doing business as Universal Electric Stage Lighting Company, New York, N. Y. Method of and apparatus for projecting images. 1,635,795; July 12.
- Linner, Eugen, Budapest, Hungary. Bottle stopper. Des. 74,311; Jan. 11.
- Linograph Company, The. (See Petersen, Hans, assignor.)
- Linoform Manufacturing Company. (See Godfrey, Alfred A., assignor.)
- Linon, Ivan, and J. Dethier, Brussels, Belgium. Pneumatic separator for spinning frames. 1,643,717; Sept. 27.
- Linotype and Machinery Limited. (See Bower, W. M., Burdon, and Stern, assignors.)
- Linotype and Machinery Limited. (See Field, Joseph G. W., assignor.)
- Linotype and Machinery Limited. (See Goulding, Benjamin J. J., assignor.)
- Linotype and Machinery Limited. (See Jakeman, John W., assignor.)
- Linotype and Machinery Limited. (See Parker, T. R. G., and Spencer, assignors.)
- Linotype and Machinery Limited. (See Shuttleworth, John, assignor.)
- Linotype and Machinery Limited. (See Stern, C. L., and Bugler, assignors.)
- Linguist, Richard A., Minneapolis, Minn. Transmission cover for Ford. 1,625,555; Apr. 19.
- Linstadt, Otto, Madison, Neb. Automatic valve for water tanks. 1,630,268; May 31.
- Linstow, Frederick N., assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric time-element device. 1,643,852; Sept. 27.
- Linton, William, Cleveland, Ohio. Vehicle ventilator. 1,623,738; Apr. 5.
- Linton, Walter L., Independence, Kans. Vending machine. 1,624,263; Apr. 12.
- Linwood, Louis, Shelby, Miss. Scale. 1,635,090; July 5.
- Lion, Charles R., Los Angeles, Calif. Automatic sewer flush. 1,642,659; Sept. 13.
- Lion Collars & Shirts, Inc. (See Dormandy, Garry J., assignor.)
- Lion Electric Manufacturing Company. (See Krause, Arthur, assignor.)
- Lion, Henry, Paris, France. Sound-purifying device. 1,620,367; Mar. 8.
- Lion Match Co. (See Bogoslovsky, Boris, assignor.)
- Lion Match Company. (See Greenbaum, L., and Van Hoofstadt, assignors.)
- Lion Match Co. (See Gustavson, Charles, assignor.)
- Lion Match Co. (See Shmyroff, A., Bogoslovsky, and Dill, assignors.)
- Lionel Corporation, The. (See Caruso, Louis, assignor.)
- Lionel Corporation, The. (See Cowen, Joshua L., assignor.)
- Lipcot, Fred L., assignor to The Rubber Shock Insulator Company, Inc., New York, N. Y. Cushion connection for vehicle construction. 1,636,099; July 19.
- Lipetz, Alphonse, Saratoga Springs, N. Y. Motor-driving connection for electric locomotives. 1,653,864; Dec. 20.
- Lipham, Harvey J., Creamery, Pa. Concrete railroad tie. 1,622,259; Mar. 22.
- Lipinski, Zenon A., San Francisco, Calif. Humidifier. 1,624,838; Apr. 12.
- Lipman, Adolph, assignor to Venus Brasserie Co., Chicago, Ill. Corset. 1,619,874; Mar. 8.
- Lipman, Carl E. L., Beloit, Wis. Refrigerating apparatus. 1,646,919; Oct. 25.
- Lipman, Carl E. L., assignor to Lipman Refrigerator Car and Manufacturing Company, Beloit, Wis. Belt tightener. 1,616,191; Feb. 12.
- Lipman Refrigeration Company. (See Ireland, Ward S., assignor.)
- Lipman Refrigerator Car and Manufacturing Company. (See Lipman, Carl E. L., assignor.)
- Lipp, Julius J., Chicago, Ill. Down indicator. 1,635,719; July 12.
- Lipp, Julius J., Chicago, Ill. Football-lineman's apparatus. 1,645,707; Oct. 18.
- Lippard, Herman I., Darby, Pa. Sewing needle. 1,619,142; Mar. 1.
- Linnard, Jesse L. (See Kitchel, R. R., Lippard, and Mullan.)

- Lipper, Clarence, Philadelphia, Pa. Hat. 1,638,349; Aug. 9.
- Lipper, Harry M., assignor to Lipper Manufacturing Co. Inc., Philadelphia, Pa. Textile fabric and making the same. 1,618,763; Feb. 22.
- Lipper Manufacturing Co. Inc. (See Lipper, Harry M., assignor.)
- Lippert, Aloysius C., Kenosha, Wis., assignor, by mesne assignments, to The Norlipp Company, Chicago, Ill. Radiator cap. Des. 73,203; Aug. 16.
- Lippert, Aloysius C., Kenosha, Wis., assignor, by mesne assignments, to The Norlipp Company, Chicago, Ill. Radiator cap. Des. 73,264; Aug. 16.
- Lippert, Aloysius C., Kenosha, Wis., assignor to The Norlipp Company, Chicago, Ill. Locking cap for radiators. 1,630,269; May 31.
- Lippert, Frederick A., Chicago, Ill. Furnace. 1,613,615; Jan. 11.
- Lippert, Leo H., Brookings, S. Dak., and R. Bergeson, Chicago, Ill. Automatic pencil. 1,621,990; Mar. 22.
- Lippert, Samuel, Garfield Heights, assignor to The Outlook Company, Cleveland, Ohio. Motor-driven windshield cleaner. 1,624,264; Apr. 12.
- Lippert, Samuel, Garfield Heights, Ohio, assignor to The Outlook Company, Cleveland, Ohio. Signal light for bicycles. 1,635,372; July 12.
- Lippert, Samuel, Garfield Heights, assignor to The Outlook Manufacturing Company, Cleveland, Ohio. Mechanical movement and windshield-cleaning apparatus involving the same. 1,641,392; Sept. 6.
- Lippert, Walter E., Hlon, N. Y., assignor to Remington Arms Company, Inc. Automatic ribbon-reversing mechanism for cash registers. 1,628,164; May 10.
- Lippli, Charles A., Camden, N. J. Cabinet for a radio loud speaker. Des. 73,188; Aug. 2.
- Lippis, John, Brookside, and M. E. Somerville, Canon City, Colo. Railway safety block. 1,629,669; May 24.
- Lippitt, R. C., et al. (See Kliever, Edward A., assignor.)
- Lippold, Charles J., Washington, D. C. String fastener. 1,635,283; July 12.
- Lipps, Louis P., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Steering mechanism for crawler tractors. 1,620,668; Mar. 15.
- Lippschitz, John J. (See Wolf, John M., assignor.)
- Lipschutz, David. (See Lipschutz, Emanuel J., assignor.)
- Lipschutz, Emanuel J., assignor of one-half to D. Lipschutz, Louisville, Ky. Adjustable-size cap. 1,652,145; Dec. 6.
- Lipschutz, Emanuel W., Brooklyn, N. Y. Pressure indicator. 1,637,421; Aug. 2.
- Lipschutz, George, Philadelphia, Pa. Electric-light fixture. Des. 72,215; Mar. 15.
- Lipschutz, George, Philadelphia, Pa. Electric-light fixture. Des. 72,714; May 24.
- Lipschutz, George, Philadelphia, Pa. Electric-light fixture. Des. 73,386; Aug. 30.
- Lipschutz, George, Philadelphia, Pa. Electric-light fixture. Des. 73,706; Oct. 25.
- Linscomb, William B., Washington, D. C. Steam engine. 1,631,743; June 7.
- Linschay, S. J., New York, N. Y. Sheet feeder. 1,630,707; May 21.
- Lipsky, Norman, New York, N. Y., assignor to Golden Lighting Fixture Co., Inc. Lighting fixture. Des. 73,002; July 5.
- Lipsmeier, Oscar. (See Hempfen, F. J., and Lipsmeier.)
- Liptak Fire-Brick Arch Co. (See Liptak, Michael, assignor.)
- Liptak Fire-Brick Arch Company. (See Strachota, Clarence A., assignor.)
- Liptak, Michael, St. Paul, Minn. Ventilated furnace wall. 1,635,851; July 12.
- Liptak, Michael, St. Paul, Minn. Furnace wall. 1,639,138; Aug. 30.
- Liptak, Michael, St. Paul, Minn. Hollow fire-wall construction. 1,648,280; Sept. 20.
- Liptak, Michael, St. Paul, Minn. Baffle wall form. 1,640,096; Oct. 18.
- Liptak, Michael, St. Paul, Minn. Reinforced glass. 1,638,097; Oct. 18.
- Liptak, Michael, St. Paul, assignor to Liptak Fire Brick Arch Co., Minneapolis, Minn. Baffle wall for furnaces. 1,642,254; Sept. 13.
- Liquid Carbonic Company. (See De Stefani, Tully, assignor.)
- Liquid Dispensing Systems, Inc. (See Hawxburst, John J., assignor.)
- Lisenby Manufacturing Company. (See Low, Charles L., assignor.)
- List, Frank A., Philadelphia, Pa. Combined brush and roller. 1,633,898; June 28.
- List, Earl C., Minneapolis, Minn. Trail chart. 1,618,839; Feb. 22.
- Listauer, Adolph W., and J. Credo, assignors to Louisville Drying Machinery Co. Inc., Louisville, Ky. Rotary cooler. 1,617,815; Feb. 15.
- Listell, Karl G., assignor to Svenska Aktiebolaget Logg, Stockholm, Sweden. Adjusting arrangement for springs used in hydrostatic logs for balancing the pressure. 1,644,782; Oct. 11.
- List, Frank X., assignor to National Card Mounting Company, New York, N. Y. Display box. 1,622,284; Mar. 29.
- Lister, Anson T., Wichita, Kans. Electric bed warmer. 1,622,326; Mar. 29.
- Lister, Herbert, Montreal, Quebec, Canada. Hair comb. 1,632,238; June 14.
- Lister, James F. and H. W. Smallwood, Birmingham, assignors to Veritys Limited, London, England. Automatically oscillating electric fan. 1,617,258; Feb. 8.
- Lister, James R., Clinton, Mass., assignor to Roubaix Mills, Incorporated, New York, N. Y. Weaving. 1,643,817; Sept. 27.
- Listring, Friedrich W. O. (See Boelkow, F. E., and Listring.)
- Listro Pencil Corporation. (See Wehn, Charles E., assignor.)
- Listro, William. (See Mable, Paul S., assignor.)
- Litchfield, Edgar C., et al. (See Litchfield, E. C., Speer, and Hermann, assignors.)
- Litchfield, Henry L., et al. (See Litchfield, E. C., Speer, and Hermann, assignors.)
- Litchfield, Isaac W., Newtonville, Mass. Wrench. 1,637,778; Aug. 2.
- Litchfield, Isaac W., Boston, Mass., assignor to Bemis Bro. Bag Co., New York, N. Y. Method of and machine for closing flexible containers. 1,653,051; Dec. 20.
- Litchfield, Isaac W., Boston, Mass., assignor to Bemis Bro. Bag Company, New York, N. Y. Stapling mechanism. 1,634,922; Dec. 20.
- Litchfield Shuttle Company. (See Cheney, G. M., and Clarke, assignors.)
- Lite-Rays Cooker Corporation, The. (See Smith, John E., assignor.)
- Lithander, Nelson P., Brandon, Manitoba, Canada. Rotary cap. 1,629,580; May 24.
- Litho Etching Corporation. (See Monahan, James B., assignor.)
- Lithoprinx Corporation. (See Darby, J., and Jones, assignors.)
- Lithoprinx Corporation. (See Jones, Harry C., assignor.)
- Little, Thomas J., Jr., Detroit, Mich., assignor, by mesne assignments, to Lincoln Motor Company. Hydrocarbon vaporizing device for starting motors. 1,640,902; Aug. 30.
- Little, Thomas J., Jr., assignor, by mesne assignments, to H. H. Emmons, Detroit, Mich. Oil-purifying device. 1,646,298; Oct. 18.
- Littell, Joseph R. (See Mohley, Lewis K., assignor.)
- Littell, Nelson, Brooklyn, N. Y. Molding machine. 1,623,257; Apr. 5.
- Little, Arthur D., Brookline, and C. E. Carpenter, Melrose, assignors to Arthur D. Little, Inc., Boston, Mass. Paper manufacture. 1,624,492; Apr. 12.
- Little, Arthur D., Inc. (See Little, A. D., and Carpenter, assignors.)
- Little, Arthur D., Inc. (See Stevenson, Earl P., assignor.)
- Little Bear Specialties Company. (See Anderson, Victor T., assignor.)
- Little, Daniel G., Hartley, Iowa. Portable lifter for beehives. 1,622,201; Mar. 22.
- Little, Donald G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless transmission system. 1,622,654; Mar. 20.
- Little, Donald G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Carrier-current signaling system. 1,640,550; Aug. 30.
- Little, Donald G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio sending system. 1,643,731; Sept. 27.
- Little, Donald G., and R. L. Davis, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Rectifier protective system. 1,645,287; Oct. 11.
- Little, Edwin G., Pittsburgh, assignor to The Union Switch & Signal Company, Switzvale, Pa. Railway skate-operating apparatus. 1,641,178; Sept. 6.
- Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermoelectric cell and making the same. 1,638,943; Aug. 16.
- Little, George M., Pittsburgh, and J. G. Ford, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Dry cell. 1,627,334; May 3.
- Little, George P., Cleveland Heights, Ohio. Acoustic wall construction. 1,635,790; July 12.
- Little, Harry C., Larkspur, assignor to J. B. Cheda, San Rafael, Calif. Liquid-fuel burner. 1,633,549; June 21.
- Little, John S., La Grange, Ill., and Little. (See Little, John S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for coating cores. 1,615,390; Jan. 25.
- Little, John S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine for forming sheets of pulpous material. 1,615,391; Jan. 25.
- Little, John S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for making fibrous articles. 1,615,392; Jan. 25.
- Little, John S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Coating cores. 1,615,393; Jan. 25.
- Little, John S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for coating cores. 1,615,394; Jan. 25.

- Little, John S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for coating cores. 1,615,395; Jan. 25, 1926; Lillian A. (See Bowen, Philip A., assignor.)
- Little, Matthew, University Place, Nbr. Lock nut. 1,641,821; Sept. 6.
- Little, Nelson, Mount Vernon, N. Y. Automobile bumper. 1,616,695; Feb. 8.
- Little Red Wagon Mfg. Co., The. (See Thomas, Arthur B., assignor.)
- Little, Robert H., Bitta, Fla. Dispensing device. 1,623,690; Apr. 5.
- Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Holding device. 1,646,967; Oct. 25.
- Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Wind-up for sheet-rubber stock. 1,648,990; Nov. 15.
- Little, William F., assignor to The Upjohn Company, Kalamazoo, Mich. Manufacturing effervescent alkali compounds. 1,616,587; Feb. 8.
- Little, William F., Yonkers, assignor to Electrical Testing Laboratories, New York, N. Y. Reflection gauge. 1,649,964; Nov. 22.
- Little, William M., and J. L. Sherman, Norphlet, Ark. Oil-separating apparatus. 1,623,691; Apr. 5.
- Little, William M., and Jesse L. Sherman, Norphlet, Ark. Separator. 1,626,245; Apr. 26.
- Little, William M., and J. L. Sherman, Norphlet, Ark. Oil separator. 1,635,215; July 12.
- Littlefield, Arthur S., Winnetka, assignor to Littlefield Manufacturing Company, Chicago, Ill. Mechanical toy. 1,641,877; Sept. 13.
- Littlefield, Calvin G., Glencoe, Ill. Game apparatus. 1,642,119; Sept. 13.
- Littlefield, Edgar E., Los Angeles, Calif. Valve. 1,633,217; June 21.
- Littleton, Henry B., Cleveland Heights, Ohio. Apartment with companion beds. 1,647,973; Nov. 1.
- Littlefield Manufacturing Company. (See Littlefield, Arthur S., assignor.)
- Littlefield, Roy, Exira, Iowa. Cart structure. 1,617,644; Feb. 15.
- Littleford, John S., jr., Fort Thomas, Ky. Indoor game. 1,627,047; May 3.
- Littlejohn, Thomas E., Lookout, W. Va. Mine door. 1,620,669; Mar. 15.
- Littleton, Jesse T., assignor to Corning Glass Works, Corning, N. Y. Spark plug. 1,635,186; July 12.
- Littman, William L., Brooklyn, N. Y. Shoe heel. 1,644,784; Oct. 11.
- Littmann, Edwin R., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Synthetic resin and its manufacture. 1,618,209; Feb. 22.
- Litton, Clyde T., Inglewood, Calif. Rotary valve timer. 1,650,082; No. 22.
- Liv. Leather Products, Inc. (See Martin, Horace J., assignor.)
- Liverance, Frank E., Jr., Grand Rapids, Mich. Grease gun. 1,628,624; May 10.
- Livergood, Gerald E. (See Nixon, J. D., and Livergood.)
- Livergood, Gerald R., Houston, Tex. Drill-stem clamp. 1,637,383; Aug. 2.
- Liversidge, Horace P., Bala, assignor to Electrical Development and Machine Company, Philadelphia, Pa. Insulator. 1,653,436; Dec. 20.
- Liversidge, Horace P., Bala, assignor to Electrical Development and Machine Company, Philadelphia, Pa. Insulator manufacture. 1,653,437; Dec. 20.
- Livesay, Robert C., assignor to Deere & Company, Moline, Ill. Harvester packer support. 1,650,369; Nov. 22.
- Livetz Surgical Service, Inc. (See Jenkins, Stanley S., assignor.)
- Livignano, Daniel, Cleveland, Ohio. Arch support. 1,646,920; Oct. 25.
- Livingood, Benjamin S., assignor to Livingood Manufacturing Corporation, Lebanon, Pa. Chair table set. 1,622,827; Mar. 23.
- Livingood, Jesse P., West Finley, Pa. Pulley and ball thrust bearing. 1,649,712; Nov. 15.
- Livingood Manufacturing Corporation. (See Livingood, Benjamin S., assignor.)
- Livingston, Albert E. (See Livingston, Walter, and E.)
- Livingston, Charles M., Monroe, Iowa. Chain guide for corn binders. 1,653,299; Dec. 20.
- Livingston, Charley W., Coon Rapids, assignor of one-half to L. L. Blmer, Glendon, Iowa. Grain shocker. 1,639,632; Aug. 16.
- Livingston, Fremont P., Denver, Colo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Retaining-valve device. 1,626,618; May 3.
- Livingston, Fremont P., Denver, Colo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,650,266; Nov. 22.
- Livingston, George D., Anoka, Minn. Measuring device. 1,623,192; Apr. 5.
- Livingston, John P., Clyde, N. Y. Tractor hitch. 1,622,328; Mar. 29.
- Livingston, John W., Hamburg, and I. P. Krydes, Buffalo, N. Y. Manufacture of nitrobenzene. 1,638,045; Aug. 9.
- Livingston, Ruel C., Glenwood, Ga. Plow. 1,616,324; Feb. 1.
- Livingston, Walter. (See Nowka, A., and Livingston.)
- Livingston, Walter and A. E. Hastings, Nebr. Inner receptacle for hearses. 1,628,893; May 17.
- Ljungberg, Karl J., Stockholm, Sweden. Building reinforced concrete structures. 1,611,541; Sept. 6.
- Ljungkull, Rolf, assignor to Harnischfeger Corporation, Milwaukee, Wis. Excavator crane. 1,625,859; Apr. 26.
- Ljungström, Bertil A. (See Ljungström, Birger and B. A.)
- Ljungström, Birger and B. A., Stockholm, Sweden; said B. A. Ljungström assignor to said B. Ljungström. Air heater and operating same. 1,649,605; Nov. 15.
- Ljungström, Fredrik, Lidings-Brevik, Sweden, assignor to Aktiebolaget Ljungströms Angturbin. Reversing device for toothed gearing. 1,614,203; Jan. 11.
- Ljungström, Fredrik, assignor to Aktiebolaget Ljungströms Angturbin, Lidings-Brevik, Sweden. Reversing device for toothed gearing. 1,614,204; Jan. 11.
- Ljungström, Fredrik, Lidings-Brevik, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Turbine-driven locomotive and similar vehicle. 1,632,707; June 14.
- Ljungström, Fredrik, Lidings-Brevik, and I. Broberg, Skarsars, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Air-cooled condenser. 1,636,521; July 19.
- Ljungström, Fredrik, Lidings-Brevik, and N. F. F. Eriksson, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Regenerative air and gas preheater. 1,638,539; Aug. 9.
- Ljungström, Fredrik, assignor to Aktiebolaget Ljungströms Angturbin, Lidings-Brevik, Sweden. Turbine aggregate. 1,638,944; Aug. 16.
- Ljungström, Fredrik, Lidings-Brevik, and Isidor Broberg, Skarsars, Lidings, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Turbine-driven locomotive provided with mechanical-power transmission. 1,642,987; Sept. 20.
- Ljungström, Fredrik, Lidings-Brevik Ormbunken, E. O. Eriksson, Lidings-Brevik, Lidings, and I. Broberg, Skarsars, Lidings, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Condenser plant for locomotives. 1,646,650; Oct. 25.
- Ljungström, Fredrik, Brevik, Lidings, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Regenerative heat-exchange device. 1,652,025; Dec. 8.
- Ljungström, Fredrik, Lidings-Brevik, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Regenerative air or gas preheater. 1,654,294; Dec. 27.
- Ljungström, Walfrid, Mafors, Sweden. Machine for plastic pressing and drying end caps on paper rolls. 1,642,340; Sept. 13.
- Llédo, Vincent, Marseille, France. Continually-working machine for molding and marking by compression plastic materials. 1,646,412; Oct. 25.
- Lleo, Alberto, and C. Baradat, Barcelona, Spain, said Baradat assignor to said Lleo. Engine-cylinder structure. 1,624,002; Apr. 12.
- Llewellyn, Lester M., and H. G. Pederson, Syracuse, N. Y., said Llewellyn assignor to said Pederson. Counterbalancing device. 1,624,414; Apr. 12.
- Lloyd, Benjamin E., Detroit, Mich. Spot-welder point joint refining. 1,618,383; Feb. 22.
- Lloyd, Burt E., Montclair, N. J. Sounding figure toy. 1,651,137; Nov. 29.
- Lloyd, Burt E., West New York, N. J.; assignor to Voices Incorporated. Sound-producing device. 1,649,242; Nov. 15.
- Lloyd, Burt E., Montclair, N. J., assignor to Voices Incorporated. Voice for toys. 1,649,243; Nov. 15.
- Lloyd, Burt E. (See Lapkin, Boruch, assignor.)
- Lloyd, Dorothy J. (See Pickard, R. H., Lloyd, and Cauce.)
- Lloyd, George F., Brighton, and F. H. Campbell, assignors to Commonwealth White Lead and Paints Proprietary Limited, Melbourne, Australia. Manufacture of white lead. 1,635,759; July 12.
- Lloyd, Glover C., Vancouver, British Columbia, Canada. Agricultural implement. 1,645,994; Oct. 18.
- Lloyd, Harold, Los Angeles, Calif. Lamp post. Des. 71,842; Jan. 11.
- Lloyd, Harold M., Los Angeles, Calif. Lamp post. Des. 72,160; Mar. 8.
- Lloyd, Herman R., and J. W. Ellis, Taft, Calif. Vibration absorber for automobiles. 1,641,855; Sept. 6.
- Lloyd, Jerome, Sharon, Pa. Razor-blade holder. 1,616,813; Feb. 8.
- Lloyd, Marshall B., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Reed-braid-making machine. 1,633,201; June 21.
- Lloyd, Marshall B., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Reed-weaving machine. 1,640,610; Aug. 30.
- Lloyd, Marshall B., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Reed braid. 1,640,946; Aug. 30.
- Lloyd, Marshall B., Menominee, Mich. Producing wooden articles. 1,644,195; Oct. 4.
- Lloyd, Myron B., Detroit, Mich. Mixing device. 1,626,741; May 3.
- Lloyd, Richard H., Hastings, W. Va. Combined frost-protecting and irrigating valve. 1,632,611; June 14.
- Lloyd, Richard L., Minneapolis, Minn. Bowling alloy. 1,630,440; May 31.
- Lloyd, Rodger E. (See McDonna, F. A., and Lloyd.)
- Lloyd, Samuel F. (See Watters, L. A., and Lloyd.)

- Lloyd, Samuel F. (See Watters, L. A., Lloyd, and Reller.)
- Lloyd, Thomas W., Cleveland, Ohio. Method, apparatus, and blank for making piston rings. 1,618,665; Feb. 22.
- Lloyd, W. I. S., Co. (See Labram, Alfred, assignor.)
- Loyd, William (See Hall, C. H., and Lloyd.)
- Loadometer Company, The (See Troll, Frederick J., assignor.)
- Loan, Walter G. (See Norden, F. F., and Loan.)
- Lobby, Fred T., St. Louis, Mo., assignor to Sullivan Machinery Company. Mining mechanism. 1,653,111; Dec. 20.
- Lobdell Car Wheel Company. (See Stuart, Joseph, assignor.)
- Lobdell-Emerly Mfg. Co., The. (See Jones, Adolph G., assignor.)
- Lobdell-Emerly Manufacturing Company. (See Miller, Ivan, assignor.)
- Lobdell, Victor T. (See Hamburg, E., and Lobdell.)
- Lobe, Fritz, Breslau, Germany. Friction coupling. 1,638,773; Aug. 9.
- Lobeck, Ingerinus E., Appam, N. Dak. Clothes basket. 1,640,280; Aug. 23.
- Lober, George H., Toledo, Ohio, assignor to The Beck-Frost Corporation, Detroit, Mich. Radiator. 1,644,685; Oct. 11.
- Lobers, John J., Breckenridge, Minn. Exhibitor for rugs and the like. 1,616,588; Feb. 8.
- Lobit, Jean M., Brooklyn, N. Y. Flue. 1,626,002; Apr. 26.
- Lobit, Jean M., Brooklyn, N. Y. Filter. 1,640,198; Aug. 23.
- Lobit, Jean M., Brooklyn, N. Y. Keyboard. 1,641,543; Sept. 6.
- Lobit, Jean M., Staten Island, N. Y. Space band. 1,626,003; Apr. 26.
- Lobit, Jean M., New York, N. Y. Assembling machine. 1,641,642; Sept. 6.
- Lobl, Frederick, Middleboro, Mass. Stopper or closure for containers. 1,640,508; Aug. 30.
- Lobl, Frederick, Middleboro, Mass. Stopper for containers. 1,650,760; Nov. 29.
- Lobnitz & Company Limited. (See Bedgood, Hubert O., assignor.)
- Lochen, Frank J., Chicago, Ill. Baffle plate for boiler flues. 1,612,930; Jan. 4.
- Lochen, Frank J., Chicago, Ill. Baffle plate for boiler flues. 1,612,931; Jan. 4.
- Lochead, Andrew, Oakland, Calif. Foot rest for oil heaters. 1,649,170; Nov. 15.
- Lockard, David E. (See Lockard, David J. and D. E.)
- Lockard, David J. and D. E., Toledo, Ohio. Scaffold bracket. 1,629,718; May 24.
- Locke, Albert R., Chicago, Ill. Selective circuit system and remote control. 1,638,774; Aug. 9.
- Locke, Arthur, Tacoma, Wash. Drain-pipe cleaner. 1,644,436; Oct. 4.
- Locke, Edward B., assignor, by mesne assignments, to The Watson Experimental Laboratory Company, Dayton, Ohio. Counting scale. 1,625,126; Apr. 19.
- Locke, Ernest P., Boston, Mass. Window wiper. 1,630,778; Aug. 23.
- Locke, Fred M., Victor, N. Y. Glass. 1,626,042; Apr. 26.
- Locke, George A., Glen Cove, assignor to Western Electric Company, Incorporated, New York, N. Y. Signalling system. 1,613,956; Jan. 11.
- Locke, George A., Glen Cove, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,616,589; Feb. 8.
- Locke, George A., Glen Cove, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,618,456; Feb. 22.
- Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
- Locke Insulator Corporation. (See Gouverneur, Minor F. H., assignor.)
- Locke Insulator Corporation. (See Gouverneur, Minor F. H., assignor.)
- Locke Insulator Corporation. (See Hawley, Kent A., assignor.)
- Locke Insulator Corporation. (See Osborne, David H., assignor.)
- Lock-Em-All Mfg. Co., The. (See Thilbert, Napoleon R.)
- Locken, John, Comstock, Minn. Commutator reamer. 1,651,286; Nov. 20.
- Lockenvitz, Edward W., Bloomington, Ill. Self-cleaning spark plug. 1,645,708; Oct. 18.
- Locke, Lando, and O. M. Pruzier, Hoxington, Kans. Soft-drink refrigerator. 1,638,402; Aug. 9.
- Lockett, Ralph G., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for motor-driven apparatus. 1,638,860; Aug. 16.
- Lockett, Ralph G., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for motor-driven devices. 1,638,861; Aug. 16.
- Lockhart, James A., Revere, Mass. Automatic shut-off. 1,640,947; Aug. 30.
- Lockhart, Luther B., Atlanta, Ga. assignor to Standard Oil Company, Whiting, Ind. Lubricant for automotive engines. 1,639,347; Aug. 16.
- Lock, Jack, Lowell, Mass. Balancing bobbins and the like. 1,627,518; May 3.
- Lock, John E., Lowell, Mass. Traffic signal for vehicles. 1,631,140; June 7.
- Lock, Michael, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for coupling high-frequency apparatus to power-transmission lines. 1,645,530; Oct. 18.
- Lockport Cotton Bating Co. (See Rogers, Edward A., assignor.)
- Lock-Stub Check Company. (See Rider, Granville S., assignor.)
- Lockwood, Aleatha H., Hartford, Conn. Maternity corset. 1,620,264; Mar. 8.
- Lockwood, Alvah M., et al. (See Malone, Adolph W., assignor.)
- Lockwood, Cecil C., et al. (See Lockwood, Virgil, assignor.)
- Lockwood, Dudley A., Ragan, Nebr. Check valve. 1,647,873; Nov. 1.
- Lockwood, Edna E., Kansas City, Mo. Floor-polishing machine. 1,626,742; May 3.
- Lockwood, Edward A., Zanesfield, Ohio. Railroad tie. 1,627,788; May 10.
- Lockwood, Edwin, et al. (See Lockwood, Virgil, assignor.)
- Lockwood, Frank L., Washington, D. C. Coin-actuated locking device for telephones. 1,614,877; Jan. 18.
- Lockwood, Harry A., assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio. Baking pan. 1,623,692; Apr. 5.
- Lockwood, James B. C. (See Dally, D., and Lockwood.)
- Lockwood, Joseph P., et al. (See Lockwood, Virgil, assignor.)
- Lockwood & Lockwood. (See Shultz, Charles A., assignor.)
- Lockwood Manufacturing Company, The. (See Lockwood, Harry A., assignor.)
- Lockwood, Virgil, Bluffton, assignor of one-half to E. Lockwood and J. P. Lockwood, Keystone; C. E. Dyson, Petroleum, and C. C. Lockwood, Montpelier, Ind. Clutch-holding device. 1,618,936; Feb. 22.
- Locomotive Feed Water Heater Company. (See Averill, Ed, assignor.)
- Locomotive Firebox Company. (See Hawley, Charles G., assignor.)
- Locomotive Firebox Company. (See Nicholson, John L., assignor.)
- Locomotive Pulverized Fuel Company. (See Caracristi, Virgilus Z., assignor.)
- Locomotive Stoker Company. (See Caps, W. T., and Mastin, assignors.)
- Locomotive Stoker Company. (See Fahnestock, Adam B., assignor.)
- Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
- Locomotive Stoker Company. (See Lower, N. M., and Chalker, assignors.)
- Locomotive Stoker Company. (See Turner, Edwin A., assignor.)
- Locomotive Terminal Improvement Company, The. (See Otis, Spencer, assignor.)
- Locomotive Terminal Improvement Co., The. (See Summers, Bertrand S., assignor.)
- Locomotive Terminal Improvement Company. (See Wichman, Frank S., assignor.)
- Lodge, George A., et al. (See Malone, Gustave A., assignor.)
- Lodge, Harry, Philadelphia, Pa. Combined outside light, mail box, and house number. 1,616,269; Feb. 1.
- Lodge & Shipley Machine Tool Company, The. (See Bird, E. S., and Cockburn, assignors.)
- Lodge & Shipley Machine Tool Company, The. (See Cockburn, Francis B., assignor.)
- Loeb, Rudolf, Jenkintown, Pa. Tread-inserting mechanism. 1,617,530; Feb. 15.
- Loeb, Rudolf, Ventnor, N. J. Ornamental fabric structure. 1,627,543; May 3.
- Loeb, Rudolf, Jenkintown, Pa., assignor to Loeb & Wasch Company, Inc., Camden, N. J. Forming embroidered edgings. 1,616,421; Feb. 1.
- Loeb & Wasch Company. (See Loeb, Rudolf, assignor.)
- Loebe, Walther-Wilfried, and M. Grossmann, Berlin, Germany, assignors to General Electric Company. Sealing-off device. 1,631,377; June 7.
- Loebell, Henry O., Malba, assignor to Combustion Utilities Corporation, New York, N. Y. Gas-fired furnace having tile burners. 1,653,864; Dec. 27.
- Loeber, Herman M., assignor to Dempster Mill Manufacturing Co., Beatrice, Nebr. Windmill construction. 1,632,138; June 14.
- Loeck, Gunther, assignor to Firm of Georg Wolf G. m. b. H., Berlin, Germany. Gastroscope. 1,632,612; June 14.
- Loeck, Günther, assignor to the Firm of Georg Wolf G. m. b. H., Berlin, Germany. Device for examining tubes and cavities in the body. 1,643,718; Sept. 27.
- Loeck, Günther, assignor to the Firm of Georg Wolf G. m. b. H., Berlin, Germany. Device for light-treatment of tubes and cavities in the body. 1,643,719; Sept. 27.
- Loek, Murtie A. (See Eklund, K., and Loek.)
- Loeffler, Eugene. (See Koele, J. L., and Loeffler.)
- Loeffler, William, Sheboygan, Wis. Mortising machine. 1,623,626; Apr. 5.
- Loeffler, William F., Washington, D. C. Combined tool. 1,629,722; Dec. 13.
- Loehnis, John L. (See Christensen, H. E., and Loehnis.)
- Loehr, Leslie K., and E. J. Kind, Jr., assignors to Frank E. Best, Inc., Seattle, Wash. Key-biting machine. 1,615,920; Jan. 18.

- Leening, Grover C., New York, N. Y. Amphibian airplane. 1,617,816; Feb. 15.
- Loepple, Charles M., assignor to Cottonwood Fiber Company, St. Louis, Mo. Oil burner. 1,621,731; Mar. 22.
- Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Fire-protective device. 1,634,838; July 5.
- Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Hygrometer, humidity regulator, and the like. 1,636,374; July 19.
- Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Hanger for wall radiators and the like. 1,642,075; Sept. 13.
- Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Dry-pipe sprinkler system. 1,644,534; Oct. 4.
- Loesch, Hugo G. (See Douglas, R., and Loesch.)
- Loescher, Fred H., et al. (See Fisher, Charles, assignor.)
- Loesel, Nicholas, Richmond Hill, assignor to American Can Company, New York, N. Y. Separating device for can caps or the like. 1,625,262; Apr. 10.
- Loesel, Nicholas, Richmond Hill, assignor to American Can Company, New York, N. Y. Stripper device for perforating punches. 1,631,323; June 7.
- Loetscher, Emil C., Dubuque, Iowa. Disappearing stairway. 1,614,005; Jan. 11.
- Loew, Charles H., Lake, assignor to The Loew Manufacturing Company, Cleveland, Ohio. Cleaning bottles. 1,642,419; Sept. 13.
- Loew Manufacturing Company, The. (See Loew, Charles H., assignor.)
- Loewe, Hermann. (See Bergmann, M., Immedörfer, and Loewe.)
- Loewe, Siegmund, Berlin, Germany, assignor to Radio Corporation of America. Wireless receiving apparatus. 1,642,420; Sept. 13.
- Loewe, Siegmund, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Device for altering the wave length. 1,643,782; Sept. 27.
- Loewe, Siegmund, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Oscillation generator. 1,649,122; Nov. 15.
- Loewe, Siegmund, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube signaling system. 1,652,486; Dec. 13.
- Loewe, Siegmund, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Device for starting intensifiers and oscillators. 1,654,295; Dec. 27.
- Loewe, Siegmund, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Equipment for wireless receiving or transmitting apparatus. 1,654,296; Dec. 27.
- Loewenbach, Erwin B., Milwaukee, Wis. Shoe-display cabinet. 1,623,545; Apr. 5.
- Loewenbach, Oscar, Milwaukee, Wis. Manifold sheet. 1,619,522; Mar. 1.
- Loewenherz, Siegmund, assignor to Patent-Treuhand Gesellschaft für Elektrische Glühlampen m. b. H., Berlin, Germany. Machine for drilling drawing dies or stones. 1,636,475; July 19.
- Loewenherz, Siegmund, and M. Stockmayer, Berlin, assignors to Patent-Treuhand-Gesellschaft für Elektrische Glühlampen m. b. H., Ehrenbergstrasse, Berlin, Germany. Machine for drilling drawing dies. 1,629,220; May 17.
- Loewer, Ernest F., Goodwin, Ark. Cover fastener. 1,615,987; Feb. 1.
- Loewy, Aaron E., Philadelphia, Pa., assignor to Liberman Manufacturing Company. Automatic controlling mechanism. 1,625,989; May 17.
- Löffler, Siegfried, Charlottenburg, near Berlin, Germany. Pumping plant for high-pressure steam generators. 1,652,026; Dec. 6.
- Lofgren, Einar G. C., Minneapolis, Minn., assignor to Electro-Mechanical Development Company. Printing-telegraph machine. 1,647,456; Nov. 1.
- Lofgren, John, assignor to Radio Manufacturing Company, Chicago, Ill. Electric switch. 1,648,022; Nov. 8.
- Lofholm, John, East Braintree, Mass. Plastering machine. 1,635,373; July 12.
- Lofman, Charles, assignor to Roberti Bros., Los Angeles, Calif. Bed or couch spring organization. 1,626,140; Apr. 26.
- Lo Forti, Joe, Fresno, Calif. Brick mold. 1,626,004; Apr. 26.
- Löfquist, Axel F. T., Utbynas Villastad, near Gottenborg, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Device for maintaining the working surface of the grinding disk in grinding machines. 1,649,713; Nov. 15.
- Loflin, Edward H., Washington, D. C. Mail box and lighting fixture. 1,613,759; Jan. 11.
- Lofquist, Bjor M., Fitchburg, Mass. Die sinker's vise. 1,644,437; Oct. 4.
- Loftus, Joseph. (See McLaughlin, B. F., and Loftus.)
- Loftus, Sebastian A., and T. Cureton, Dayton, Ohio; said Loftus assignor to said T. and S. Cureton, Plymouth, Ohio. Sand and gravel washer. 1,645,603; Oct. 18.
- Lofus, Thomas J., Caster, assignor of one-half to H. Bell, Oakland, Calif. Automatic governing device for fluid-displacement meters. 1,630,020; May 24.
- Loftus, Thomas J., Pollock, assignor of one-half to H. Bell, Oakland, Calif. Automatic governing device for fluid-displacement meters. 1,647,705; Nov. 1.
- Loftus, Thomas L., assignor to E. V. Timm, Denver, Colo. Excavating machine. 1,619,875; Mar. 8.
- Logan Co. (See York, Phineas H., assignor.)
- Logan, Benjamin J. (See Orren, John E., assignor.)
- Logan, Charles W. (See Markel, J., and Logan.)
- Logan, Charles W., Kenmore, assignor to Markel Lighting Fittings, Inc., Buffalo, N. Y. Electric-light fixture. Des. 71,983; Feb. 8.
- Logan, Charles W., Kenmore, N. Y., assignor, by mesne assignments, to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light fixture. Des. 72,320; Mar. 29.
- Logan, Charles W., Kenmore, N. Y., assignor, by mesne assignments, to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 72,321; Mar. 29.
- Logan, Charles W., Kenmore, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Arm for electric light fixtures. Des. 72,376; Apr. 5.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Medallion for chandeliers. Des. 73,325; Aug. 28.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 73,520; Sept. 27.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Arm for electric-light fixtures. Des. 73,521; Sept. 27.
- Logan, Harry C., Portland, Oreg. Interchangeable emblem. 1,623,693; Apr. 5.
- Logan, Henry H. (See Lilly, W. J., and Logan.)
- Logan, Henry H., Chicago, Ill. Shock absorber. 1,624,265; Apr. 12.
- Logan, J. A. (See Humason, G. A., and Lambert, as signors.)
- Logan, James W., Newark, N. J., assignor to J. M. Page, New York, N. Y. Liquid-fuel burner. 1,633,560; June 21.
- Logan, John I., assignor to Industrial Appliance Company, Chicago, Ill. Flour-maturing method and apparatus. 1,640,199; Aug. 23.
- Logan, William B., De Quincy, assignor to Acme Products Company, Inc., New Orleans, La. Purified rosin and producing the same. 1,643,276; Sept. 20.
- Logan, Corporation, The. (See Larson, Eric H., assignor.)
- Logstädt, Richard, Berlin-Schöneberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Highspeed circuit interrupter. 1,649,034; Nov. 15.
- Logue, Charles H., Syracuse, assignor to The Gleson Valve, Rochester, N. Y. Bevel-gear-testing machine. 1,624,415; Apr. 12.
- Lohbiller, Harry J., St. Louis, Mo. Support for heat-conveying pipes. 1,645,762; Oct. 13.
- Lohmann, Hugo, Berlin-Johannisthal, Germany. Manufacture of very hard metallic alloys. 1,652,027; Dec. 6.
- Lohmann, William H., Wilmington, Del., assignor to General Chemical Company, New York, N. Y. Carboy package. 1,641,179; Sept. 6.
- Löhner, Wilhelm, Leipzig, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Photographic film. 1,631,421; June 7.
- Lolaco, John. (See Sesto, A., and Lolaco.)
- Loken, Truls, Kenosha, Wis., assignor to Austin Machinery Corporation, Chicago, Ill. Trenching machine. 1,633,115; June 21.
- Loken, Webster, Windom, Minn. Attrition mill. 1,631,422; June 7.
- Lolli, Guido, Chicago, Ill. Extensible fender. 1,632,979; June 21.
- Lolli, Guido, Chicago, Ill. Extensible vehicle fender. 1,632,980; June 21.
- Lollis, Benjamin F., Berwyn, Ill. Armature mounting. 1,617,856; Feb. 15.
- Lomando, Lewis, Hazleton, Pa. Chain conveyer. 1,629,515; May 24.
- Lomar, Louis L., Houston, Tex. Shock absorber. 1,621,261; May 15.
- Lomar, Louis L., Houston, Tex. Shock absorber. 1,635,284; July 12.
- Lomas, John T., New York, N. Y. Geographical educational game apparatus. 1,633,464; Dec. 20.
- Lonson, Harry A., Detroit, Mich. Bolt. 1,627,912; May 10.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,615,305; Jan. 25.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,620,113; Mar. 8.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,632,009; June 14.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,633,116; June 21.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,641,931; Sept. 6.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telegraph switching system. 1,642,037; Sept. 13.
- Lomax, Ernest L. (See Lucas, O. D., and Lomax.)
- Lomax, Frank B., Chicago, Ill. Liquid dispenser. 1,628,853; May 17.

- Lomax, Frank B., Chicago, Ill. Sirup maker. 1,649,834; Nov. 22.
- Lomax, John L., assignor of one-half to H. L. Oswald and C. Patton, Colorado Springs, Colo. Actuating device for wire-pub-release cameras. 1,621,551; Mar. 22.
- Lombard, Homer W., assignor to Art Metal Construction Company, Jamestown, N. Y. Mop mold for library-stack construction. 1,626,043; Apr. 26.
- Lombard, Samuel W., assignor to Lombard Traction Engine Co., Waterville, Me. Clutch. 1,617,717; Feb. 15.
- Lombard, Samuel W., assignor to Lombard Traction Engine Co., Waterville, Me. Snowplow. 1,624,839; Apr. 12.
- Lombard Traction Engine Co. (See Lombard, Samuel W., assignor.)
- Lombard, Victor E., Bluefield, W. Va. Smoke separator. 1,618,099; Feb. 15.
- Lombardi, Vincent, Brooklyn, N. Y. Knitting machine. 1,650,083; Nov. 22.
- Lommel, Wilhelm, Wiesdorf, near Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Manometer. 1,642,615; Sept. 13.
- Lomshakoff, Alexis S., Prague, Czechoslovakia. Fire grate. 1,625,556; Apr. 19.
- Long, J. M., Dearborn, Mich. Window control and silencer. 1,642,162; Sept. 13.
- London, David, Baltimore, Md. Clothes hamper. 1,625,668; Apr. 19.
- London, David, Baltimore, Md. Hanger for wardrobe bags. 1,638,945; Aug. 16.
- London, Jacob M., Brookville, assignor of one-half to G. M. Crawford, Pittsburgh, Pa. Loading machine. 1,615,640; Jan. 25.
- London, Jacob M., Tunnelton, Pa., assignor to Sullivan Machinery Company, Claremont, N. H. Mining machine. 1,635,488; July 12.
- Long, John S., Port Jervis, N. Y. Automatic train control. 1,652,948; Dec. 13.
- London, William J. A., Hartford, Conn., assignor to International Combustion Engineering Corporation. Pulverizing apparatus. 1,641,445; Sept. 6.
- Longman, J. E., Company. (See Burkhardt, Henry J., assignor.)
- Lomet, Thomas, Oakland, Calif. Automobile signal-lamp casing. Des. 72,774; May 31.
- Long, Albert E., assignor to Stromberg Electric Company, Chicago, Ill. Time-controlled mechanism. 1,650,994; Apr. 29.
- Long, Austin M., Marshall, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack-supplying mechanism. 1,624,958; Apr. 19.
- Long-Bell Lumber Company, The. (See Huffman, Charles A., assignor.)
- Long, Bernard, Paris, France, assignor to Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Glass and making the same. 1,633,534; June 21.
- Long, Beryl C. (See Hallar, E., and Long.)
- Long, Claud L., assignor to The Crawford, McGregor and Cady Company, Dayton, Ohio. Machine for hollowing shoe lasts. 1,647,969; Nov. 1.
- Long, Cornelia T. (See Taylor, A. B., Long, and Sohn.)
- Long, Cornelia T., Winston-Salem, N. C., and A. C. Sohn, Pittsburgh, Pa., assignors to Taylor-Long Company, Charlotte, N. C. Bottle. Des. 72,483; Apr. 19.
- Long Electric Sign Company. (See Long, John E., assignor.)
- Long, Elmer C., Quincy, Ill., assignor, by mesne assignments, to Security Trust Company, Detroit, Mich. Piston. 1,631,952; June 15.
- Long, Elmer B., Puenate, Calif. Portable hand puller for automobiles. 1,648,355; Nov. 8.
- Long, Eugene M., New York, N. Y. Amusement apparatus. 1,619,580; Mar. 1.
- Long, Eugene M., Port Washington, N. Y. Scissors sharpener. 1,619,581; Mar. 1.
- Long, Eugene M., Port Washington, N. Y. Key holder. 1,619,582; Mar. 1.
- Long, Frederick R., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Semi-automatic electric stock heater for bolt-heading machines. 1,649,412; Nov. 15.
- Long, George C., Brooklyn, N. Y. Coupling. 1,634,153; June 28.
- Long, George E., Chattanooga, Tenn. Packing cutter. 1,622,655; Mar. 29.
- Long, George F., New York, assignor, by mesne assignments, to Stinner Electric Corporation, Long Island City, N. Y. Dashboard control. 1,631,277; June 7.
- Long, George H., Lankershim, Calif. Jumping device. 1,638,350; Aug. 9.
- Long, Guy E., Ithaca, N. Y. Foot rest. 1,621,423; Mar. 15.
- Long, Henry N., Roanoke, Va., assignor to W. K. Queen, Needham Heights, Mass. Ratchet flange setter. 1,633,819; June 28.
- Long, Henry T. (See Lindsay, Leroy J., assignor.)
- Long, Herbert, Walthamstow, London, England, assignor to Taylor Instrument Companies, Rochester, N. Y. Barometer. Des. 72,323; Mar. 29.
- Long, Herbert, Walthamstow, London, England, assignor to Taylor Instrument Companies, Rochester, N. Y. Barometer. Des. 72,324; Mar. 29.
- Long, Herbert, Walthamstow, London, England, assignor to Taylor Instrument Companies, Rochester, N. Y. Barometer. Des. 72,715; May 24.
- Long, Jackson E., Marshall, Mo. Drain tube. 1,642,819; Sept. 20.
- Long, James A., Reading, Pa. Method of and apparatus for manufacturing chamfered pipe and nipple blanks. 1,618,541; Feb. 22.
- Long, John E., Multnomah, Ore. Electric sign. 1,650,875; Nov. 29.
- Long, John E., assignor to Long Electric Sign Company, Multnomah, Ore. Electric-circuit-controlling apparatus. Re16,809; Dec. 6.
- Long, John R., Tarentum, Pa. Insulating paper for steel and cables. 1,613,179; Jan. 4.
- Long, John R., Tarentum, Pa. Paper-insulated electric conductor. 1,636,748; July 26.
- Long, Lewis R., Peoria, Ill. Sign. 1,637,579; Aug. 2.
- Long, Maurice B., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier transmission system. 1,615,988; Feb. 1.
- Long, Maurice B., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical testing system. 1,647,236; Nov. 1.
- Long Sales Co. (See Long, S. B., and Pimm, assignors.)
- Long, Sherman G., Peoria, Ill. Burner. 1,639,518; Aug. 28.
- Long, Stephen B., and J. C. Pimm, assignors to Long Sales Co., Inc., Syracuse, N. Y. Ice-cream mold. 1,615,641; Jan. 25.
- Long, Thomas J., and J. L. Tuttle, Wellington, Kans. Tent structure. 1,619,740; Mar. 1.
- Long, Thomas J., and J. L. Tuttle, Wellington, Kans. Adjustable trunk-rack camping outfit. 1,633,820; June 28.
- Long, William B., assignor to Union Special Machine Company, Chicago, Ill. Presser foot for sewing machines. 1,625,616; Apr. 19.
- Long, William B., assignor to Peerless Novelty Company, Grand Haven, Mich. Electric heater. 1,615,950; Feb. 1.
- Long, William L. (See Scheffey, George B., assignor.)
- Long, William R., St. Louis, Mo. Glue. 1,633,840; June 28.
- Long, William T., Orting, Wash. Pruning implement. 1,650,948; Nov. 29.
- Longacre, Frederick van D., Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor unloader. 1,614,138; Jan. 11.
- Longacre, Frederick van D., Yonkers, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Clearance unloader. 1,621,913; Mar. 22.
- Longacre, Irving W., et al. (See Ernst, Emil, assignor.)
- Longauecker, Harry R., Centerville, Iowa. Clamp. Re16,888; July 26.
- Longauecker, Harry R., Centerville, Iowa. Clamp. 1,615,092; Jan. 18.
- Longbottom, Charles H. R., Brooklyn, N. Y. Musical instrument. 1,638,495; Aug. 9.
- Longfellow, Dwight W., assignor to Elk River Concrete Products Company, Elk River, Minn. Reinforced concrete pipe. 1,644,196; Oct. 4.
- Longroad, Eugene A., assignor to The Studabaker Corporation, South Bend, Ind. Vehicle lifting device. 1,649,904; Nov. 22.
- Longley, Martin B., Chicago, Ill. Liquid cleanser. 1,621,959; Apr. 19.
- Longstaff, Thomas, Roundup, Mont. Burner cleaner. 1,613,280; Jan. 4.
- Longworth, Ralph N., Somerset, Ky. Adjustable golf-club head. 1,643,250; Sept. 20.
- Longville, Charles B., St. Paul, Minn. Oil burner. 1,626,217; Apr. 19.
- Longworth, Arthur, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radio receiving loop. Des. 72,161; Mar. 8.
- Lonn, Julius M. (See Newsbaum, F. J., and Lonn.)
- Lonsdale, George L., Wangaree, near Sydney, assignor of one-half to A. E. Ackers, Sydney, Australia. Process and apparatus for cooling sugar and like material. 1,654,133; Dec. 27.
- Lonsen, Albert, Ulen, Minn. Brake drum and lining. 1,639,519; Aug. 16.
- Loock, Robert J., Baltimore, Md. Shim for universal joints. 1,645,247; Oct. 11.
- Lookabaugh, Harry C., Jacksonville, Fla. Safety guard for dangerous highways and the like. Re16,649; June 7.
- Lookabaugh, Harry C., Watonga, Okla. Safety guard for dangerous highways and the like. 1,614,765; Jan. 18.
- Loom Lay Patch Company. (See Hudgens, Albert C., assignor.)
- Loomis, Allen, Elkhardt, Ind. Octave-key mechanism. 1,616,662; Feb. 8.
- Loomis, Chauncey C., Yonkers, N. Y., and H. W. Banks, 34, Worcester, Conn., assignors to The Hevea Corporation, New York, N. Y. Footwear. 1,640,948; Aug. 20.
- Loomis, Chauncey C., Yonkers, and H. E. Stump, Brooklyn, N. Y., assignors, by mesne assignments, to The Hevea Corporation. Manufacture of molded articles of rubber. 1,634,293; July 5.
- Loomis, Crawford C., Iilon, N. Y., assignor to Remington Arms Company, Inc. Firearm. 1,628,548; May 10.
- Loomis, Crawford C., Iilon, N. Y., assignor to Remington Arms Company, Inc. Firearms. 1,638,351; Aug. 9.

- Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearm. 1,648,699; Oct. 25.
- Loomis, Evans, G., Newark, N. J. Block press. 1,640,949; Aug. 30.
- Loomis, Frank R., Mapleton, Minn. Tire lock. 1,642,589; Sept. 13.
- Loomis, Harold S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 1,643,669; Sept. 27.
- Loomis, Howard S., Kasson, Minn. Governor. 1,623,193; Apr. 6.
- Loomis, Nathaniel E. (See Howard, F. A., and Loomis.)
- Loomis, Nathaniel E., Elizabeth, N. J., and W. K. Lewis, Newton, Mass., assignors to Standard Development Co. Fractional distillation. 1,646,619; Oct. 25.
- Loomis, Nathaniel E. (See Clark, E. M., Loomis, and Howard.)
- Loomis, Ormond E., Belmont, assignor to Darlo Company, Boston, Mass. Brush attachment for hose. 1,633,643; June 28.
- Loomis, Virgil V., assignor to United States Glass Company, Pittsburgh, Pa. Goblet. Des. 72,162; Mar. 8.
- Loomis, Virgil V., assignor to United States Glass Company, Pittsburgh, Pa. Goblet. Des. 72,216; Mar. 15.
- Loomis, Virgil V., Pittsburgh, Pa., assignor to United States Glass Company, Pittsburgh, Pa. Goblet. Des. 73,761; Nov. 1.
- Loomis, Walter A., Los Angeles, Calif. Volume control. 1,640,842; Aug. 30.
- Loose, Clyde E., Baltimore, Md. Safety check device. 1,633,114; June 21.
- Loose, Kenneth D., Bronxville, N. Y., assignor to Loose Wiles Biscuit Company, Long Island City, N. Y. Food product. 1,649,921; Oct. 25, 1927.
- Loose Seat Valve Company. (See Wilson, Wylie G., assignor.)
- Loose Wiles Biscuit Company. (See Loose, Kenneth D., assignor.)
- Looser, Joseph. (See Marwedel, J. E., and Looser.)
- Loper, Jay L., Lincoln, Neb. Electric heater for crank cases. 1,627,564; May 10.
- Lopez, David C., Chicago, Ill. Engineer's protractor. 1,632,613; June 14.
- Lorance, George T., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage-limiting device. 1,634,085; Dec. 27.
- Loräng, Henry J., assignor of one-half to F. P. Flori, St. Louis, Mo. Trouser support. 1,618,595; Feb. 22.
- Loranger, Hubert R. (See Loranger, Ubaldo R. and H. R.)
- Loranger, Ubaldo R. and H. R., Detroit, Mich. Refrigerating system. 1,631,278; June 7.
- Lorant, James, Shreveport, La. Beverage dispenser. 1,626,544; Apr. 26.
- Lorber, Charles, Louisville, Ky. Flexible key case. 1,613,760; Jan. 11.
- Lorber, Charles, Louisville, Ky. Key case. 1,621,795; Mar. 22.
- Lorber, Charles, Louisville, Ky. Key holder. 1,621,796; Mar. 22.
- Lorber, Charles, Louisville, Ky. Key case. 1,621,797; Mar. 22.
- Lorber, Charles, Louisville, Ky. Key case. 1,623,627; Mar. 5.
- Lorber, Charles, Louisville, Ky. Combination key case. 1,645,709; Oct. 18.
- Lorber, Charles, Louisville, Ky. Pocket-key case. 1,646,485; Oct. 25.
- Lorch, Ernest F., Brooklyn, N. Y. Gear-shift mechanism. 1,639,460; Aug. 16.
- Lord, Chester B., assignor to Endicott Johnson Corporation, Endicott, N. Y. Boot. Des. 73,044; July 12.
- Lord, Francis L., Newark, N. J., assignor to The Lord Laboratories, Inc., New York, N. Y. Mounting means for radio receiving sets. 1,640,200; Aug. 23.
- Lord, Fred W., assignor to The Oakes Manufacturing Company, Tipton, Ind. Poultry feeder. 1,632,738; June 14.
- Lord, Fred W., assignor to The Oakes Manufacturing Company, Tipton, Ind. Incubator. 1,648,735; Nov. 8.
- Lord, Harry G., Philadelphia, Pa. Spring construction. 1,629,899; May 17.
- Lord, Hugh C., Erie, Pa. Resilient wheel. 1,627,789; May 10.
- Lord, Hugh C., Erie, Pa. Joint. 1,652,175; Dec. 13.
- Lord Laboratories, Inc., The. (See Lord, Francis L., assignor.)
- Lord, William D., Hartford, Conn. Cover device. 1,649,714; Nov. 15.
- Lord, William S., Evanston, and O. C. Ashley, Chicago Heights, assignors to Williamson Candy Company, Chicago, Ill. Candy confection and making the same. 1,613,231; Jan. 4.
- Lorentzen, Hans K., New York, N. Y. Dimmer. 1,645,654; Oct. 18.
- Lorenz, Adolph G., Little Rock, Ark. Combined license-plate and identification-card holder. 1,633,414; June 21.
- Lorenz, C., Aktiengesellschaft. (See Gerth, F., and Fischer, assignors.)
- Lorenz, C., Aktiengesellschaft. (See Gerth, Felix, assignor.)
- Lorenz, C., Aktiengesellschaft. (See Hersen, K., and Hirschberg, assignors.)
- Lorenz, C., Aktiengesellschaft. (See Herzog, Robert, assignor.)
- Lorenz, C., Aktiengesellschaft. (See Schmidt, Karl, assignor.)
- Lorenz, C., Aktiengesellschaft. (See Vopel, Johannes, assignor.)
- Lorenz, Charles, E. Kunish, and D. E. Seltz, Manitowoc, Wis. Pin trimmer. 1,616,909; Feb. 8.
- Lorenz, Charles D., El Paso, Tex. Razor case. 1,615,396; Jan. 25.
- Lorenz, Charles F., East Orange, N. J., assignor to Westinghouse Lamp Company. Intermitent glow lamp. 1,617,065; Feb. 8.
- Lorenz, Charles F., East Orange, N. J., assignor to Westinghouse Lamp Company. Luminous electrode discharge lamp. 1,643,126; Sept. 20.
- Lorenz, Charles F., East Orange, N. J., assignor to Westinghouse Lamp Company. Manufacture of incandescent lamps. 1,647,139; Nov. 1.
- Lorenz, Charles F., East Orange, N. J., assignor to Westinghouse Lamp Company. Arc incandescent lamp. 1,651,398; Dec. 6.
- Lorenz, Charles F., East Orange, N. J., assignor to Westinghouse Lamp Company. Incandescent electric lamp. 1,653,365; Dec. 20.
- Lorenz, Chester W., Minneapolis, Minn. Trunk. 1,616,814; Feb. 8.
- Lorenz, Edward H., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Ware-transferring mechanism. 1,642,421; Sept. 18.
- Lorenz, Edward H., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Glass-blowing machine. 1,647,532; Nov. 1.
- Lorenz, Edward H., West Hartford, and J. Davis, East Hartford, assignors to Hartford-Empire Company, Hartford, Conn. Glassware-transferring device. 1,637,490; Aug. 2.
- Lorenz, Frank D. (See Morin, P., and Lorenz.)
- Lorenz, Louis, New York, N. Y. Burning-in machine. 1,625,037; Apr. 19.
- Lorenz, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Surface condenser. 1,631,141; June 7.
- Lorenz, William A., assignor to The Otaka Fabric Company, Hartford, Conn. Dispenser box. 1,633,865; June 28.
- Lorenz, William A., assignor to The Otaka Fabric Company, West Hartford, Conn. Barrel-lining machine. 1,655,434; Dec. 20.
- Lorenz, William A., assignor to The Otaka Fabric Company, West Hartford, Conn. Barrel-lining machine. 1,655,435; Dec. 20.
- Lorenz, Joseph, Morgantown, W. Va. Emergency brake. 1,650,456; Nov. 22.
- Lorenzen, Christian, Berlin, Germany, assignor to Lorenzen-Turbinen Aktiengesellschaft, Bern, Switzerland. Turbine and rotary compressor. 1,640,784; Aug. 30.
- Lorenzen-Turbinen Aktiengesellschaft. (See Lorenzen, Christian, assignor.)
- Lorimer, George W., Troy, and J. McVicker, Chillicothe, Ohio, assignor to Bingham-Lorimer Manufacturing Company. target trap. 1,650,033; Nov. 29.
- Lormor, Henry W., assignor to Willard Storage Battery Company, Cleveland, Ohio. Handle-inserting machine. 1,636,842; July 19.
- Lorraine, David G., et al. (See Tibbetts, Robert M., assignor.)
- Lorraine, David G., Los Angeles, Calif. Valve. 1,615,462; Jan. 25.
- Lorraine, David G., Los Angeles, Calif. Oil and gas separator. 1,620,771; Mar. 15.
- Lorraine, David G., Los Angeles, assignor to A. R. Reynolds, Glendale, Calif. Tool for opening collapsed pipes or casings. 1,615,306; Jan. 25.
- Lorraine Metal Manufacturing Company. (See Kovats, John, assignor.)
- Losack, John M., Orchard, Tex. Well strainer. 1,634,547; July 5.
- Loschirico, Gesualdo, New York, N. Y. Fire safety device for motion-picture machines. 1,622,952; Mar. 29.
- Loss, James, Bordentown, N. J. Window box. 1,633,775; Jan. 25.
- Lösel, Franz, Brunn, Czechoslovakia. Steam turbine. 1,618,596; Feb. 22.
- Lösel, Franz, Brunn, Czechoslovakia. Steam turbine. 1,618,597; Feb. 22.
- Lösel, Franz, Brunn, Czechoslovakia. Elastic-fluid turbine. 1,625,268; Apr. 19.
- Lösel, Franz, Brunn, Czechoslovakia. Stationary guide-nozzle construction and assembly for turbines. 1,632,448; June 14.
- Lösel, Franz, Brunn, Czechoslovakia. High-pressure steam turbine and utilizing high-pressure steam therein. 1,632,907; June 21.
- Losey, Arthur, Jersey City, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Manufacturing centrifugally-cast cast-iron pipe and apparatus therefor. 1,652,829; Dec. 13.
- Losey, Sylvester. (See Hawkins, J. M., and Losey.)
- Losey, Sylvester V., Detroit, Mich. Process and apparatus for recharging magnets. 1,636,941; July 26.
- Lossess, Nicholas, Los Angeles, Calif. Flag stand. Des. 73,189; Aug. 2.
- Lossman, August, Wauwatosa Township, Milwaukee County, Wis. Marking die. 1,646,413; Oct. 25.
- Loth, Ben, Cincinnati, Ohio. Aeroplane safety device. 1,646,586; Oct. 25.

- Loth, William A., assignor to Société Industrielle des Procédés W. A. Loth, Paris, France. System of navigation and plant for carrying it out. 1,615,712; Jan. 25.
- Loth, William A., assignor to Societe Industrielle des device for rapidly solving ordinary problems of astronomical navigation. 1,625,369; Apr. 19.
- Lothrop, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Making cages for roller bearings. 1,645,866; Oct. 18.
- Lott, Louis J. P., Dayton, Ohio. Golf green. 1,638,862; Aug. 16.
- Lotz, Lucien P. C., Paris, France. Tire protector. 1,634,589; July 5.
- Lottman, Edward J., assignor of one-half to W. B. Bassett, Cincinnati, Ohio. Thread-feeding attachment for knitting machines. 1,627,534; May 3.
- Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Rheostat. 1,625,479; Apr. 19.
- Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Switch and fuse. 1,628,413; May 10.
- Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Rheostat. 1,639,951; Aug. 23.
- Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Switch-operating mechanism. 1,648,553; Nov. 8.
- Lotz, Gaston A. (See Murray, J. H., and Lotz.)
- Lotz, George, St. Johns, Ohio. Fence guard. 1,630,441; May 31.
- Lotz, Henry, Boston, Mass. Salvaging apparatus. 1,639,572; Aug. 16.
- Lotz, William A., assignor to The T & L Co. Inc., Newark, N. J. Bag-handle connection. 1,621,076; Mar. 15.
- Lotze, William I., Inglewood, Calif. Stress-breaking attachment for teeth. 1,645,436; Oct. 11.
- Loucks, Albert H., assignor to Marion Machine, Foundry & Supply Co., Marion, Ind. Soot blower. 1,653,220; Dec. 20.
- Loucks, James F., assignor to Lorohib, Inc., Cleveland, Ohio. Clamping device. 1,639,139; Aug. 16.
- Loud, George A., assignor to Loud Slide Valve Engine Co., Fitchburg, Mass. Valve for internal-combustion engines. 1,652,487; Dec. 13.
- Loud, Slide Valve Engine Co. (See Loud, George A., assignor.)
- Loud, William C., assignor to Glassmoble Company, Detroit, Mich. Automobile curtain. 1,652,447; Dec. 13.
- Louden Machinery Company. (See Evans, F. J., and Hansen, assignors.)
- Louden Machinery Company, The. (See Hassler, Paul M., assignor.)
- Louden Machinery Company, The. (See Leshner, Charles O., assignor.)
- Louden Machinery Company, The. (See Louden, Robert B., assignor.)
- Louden Machinery Company, The. (See Northmore, Robert S., assignor.)
- Louden Machinery Company, The. (See Specht, Walter E., assignor.)
- Louden Machinery Company, The. (See Strahan, James L., assignor.)
- Louden, Robert B., Fairfield, Iowa. Panel for animal pens. 1,629,719; May 24.
- Louden, Robert B., assignor to The Loudon Machinery Company, Fairfield, Iowa. Panel for animal pens. 1,636,189; July 19.
- Loudenslager, William J., New Martinsville, W. Va. Dough raiser. 1,625,036; Apr. 19.
- Louder, Earl A., New York, assignor, by mesne assignments, to Boyce and Veder Co. Inc., Long Island City, N. Y. Pressure indicator for fire extinguishers and the like. 1,646,988; Oct. 25.
- Louderback, George B., Compton, Calif. Drilling bit. 1,615,547; Jan. 25.
- Lougovoy, Boris N., assignor to Ellis-Foster Company, Montclair, N. J. Synthetic resinous product and making same. 1,648,852; Nov. 8.
- Lough, Hector V., Hartford, Conn., and G. B. Mix, assignor to Morgan & Wright, Detroit, Mich. Apparatus for covering annular rings. 1,635,187; July 12.
- Loughbridge, Matthew H., Bogota, N. J. Motion-picture device. 1,643,670; Sept. 27.
- Loughbridge, Matthew H., trustee. (Holliday, John S., assignor.)
- Loughhead, Malcolm, Detroit, Mich., assignor, by mesne assignments, to Hydraulic Brake Company, Los Angeles, Calif. Hose fitting. 1,620,114; Mar. 8.
- Loughhead, Malcolm, Detroit, Mich., assignor, by mesne assignments, to Hydraulic Brake Company, Los Angeles, Calif. Braking apparatus. Re16,761; Oct. 4.
- Loughheed, Aaron, Port Arthur, Ontario, Canada. Differential drive. 1,625,264; Apr. 19.
- Loughheed, Victor, assignor to The Magnavox Company, Oakland, Calif. Radiodial. Des. No. 73,594; Sept. 20.
- Loughrey, Carl T., Los Angeles, Calif. Distilling oil shale. 1,631,637; June 7.
- Loughridge, Matthew H., Bogota, N. J. Block system. 1,617,402; Feb. 16.
- Loughridge, Matthew H., Bogota, N. J. Cab-signal and train-control system. 1,622,285; Mar. 29.
- Loughridge, Matthew H., Bogota, N. J. Valve for refrigerating apparatus. 1,625,324; Apr. 19.
- Loughridge, Matthew H., Bogota, N. J. Railway signal and train-control systems. 1,627,565; May 10.
- Loughridge, Matthew H., Bogota, N. J. Railway-traffic-controlling system. 1,627,566; May 10.
- Loughridge, Matthew H., Bogota, N. J. Railway-traffic-controlling system and apparatus. 1,627,567; May 10.
- Loughridge, Matthew H., Bogota, N. J., assignor of one-half to H. W. Dyer, New York, N. Y. Automobile bumper. 1,616,455; Feb. 8.
- Louis, Edward S., London, England. Cake stand and like portable stand. 1,628,504; May 10.
- Louis, Martin, Kiel, assignor to Friedl Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Pump. 1,649,356; Nov. 15.
- Louisset, Felix, assignor to Vacuum Pulp Products Corporation, New York, N. Y. Pulp-molding apparatus. 1,616,226; Feb. 1.
- Louisset, Felix, assignor to Vacuum Pulp Products Corporation, New York, N. Y. Pulp-molding machine. 1,621,593; Mar. 22.
- Louisville Drying Machinery Co. Inc. (See Lissauer, A. W., and Credo, assignors.)
- Lourens, Cornelis, assignor to Naamloose Vennootschap Algemeene Norit Maatschappij, known as General Norit Company, Limited, Amsterdam, Netherlands. Treating liquids. 1,634,154; June 28.
- Louth, Herbert, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ironing machine. 1,642,038; Sept. 13.
- Louth, William B., East Liverpool, Ohio. Electric heating unit. 1,645,867; Oct. 18.
- Louthan, William B., East Liverpool, Ohio. Die and ejector for making clay heating elements. 1,648,049; Nov. 8.
- Loutrel, Cyrus H., South Orange, assignor to The National Lock Washer Company, Newark, N. J. Spring washer. 1,615,232; Jan. 4.
- Louw, Wolsey N. C., New Modder, Transvaal, South Africa. Steam-escape device for cooking utensils and the like. 1,638,589; Aug. 9.
- Louzon, Duffey B. (See Shilling, C. S., and Louzon.)
- Lovasz, Josef. (See Von Kiraly, P., and Lovasz.)
- Love, Andrew S., Jerseytown, Pa. Fastener. 1,648,488; Nov. 8.
- Love, Ben F. (See Smith, John B., assignor.)
- Love, Herbert. (See Petrie, Alexander T., assignor.)
- Love, Jess, et al. (See Brown, W. B., and Mitchell, assignors.)
- Love, Joseph E. (See Gregory, W. W., and Love.)
- Love, Thomas H., Cincinnati, Ohio. Receptacle for carrying infants. 1,625,038; Apr. 19.
- Love, William H. (See Matthews, H. E., Love, and Ryder.)
- Lovejoy, Clinton C., Long Island City, N. Y. Automobile semaphore signal. 1,629,400; May 17.
- Lovejoy Development Corporation. (See Lovejoy, Dimmitt B., assignor.)
- Lovejoy, Dimmitt B., assignor to Lovejoy Development Corporation, New York, N. Y. Combined A battery trickle charger and B supply. 1,623,628; Apr. 5.
- Lovejoy, Dimmitt B., assignor to Lovejoy Development Corporation, New York, N. Y. Coll-winding method and apparatus. 1,637,121; July 26.
- Lovejoy, Dimmitt B., assignor to Lovejoy Development Corporation, New York, N. Y. Tuned radiofrequency circuits. 1,650,898; Nov. 29.
- Lovejoy, Ralph M., Boston, Mass. Spring-shackle construction for vehicles. 1,614,480; Jan. 18.
- Lovejoy, Ralph M., Boston, Mass. Torque-absorbing spring construction for vehicles. 1,623,422; Apr. 5.
- Lovejoy, Ralph M., Boston, Mass. Spring suspension for vehicles. 1,647,009; Oct. 25.
- Lovejoy, Ralph M., Boston, Mass. Spring suspension for vehicles. 1,649,855; Nov. 22.
- Lovejoy, Ralph M., Meredith, N. H. Radiator-shutter mechanism. 1,619,621; Mar. 1.
- Lovejoy, Ralph M., Meredith, N. H. Rotary valve mechanism for engines. 1,621,732; Mar. 22.
- Lovejoy, Ralph M., Boston, assignor to Lewis-Shepard Company, Weymouth, Mass. Standard locking mechanism for hoisting machines. 1,626,141; Apr. 26.
- Lovelin, Luther D., Wynnewood, Pa. Automatic shut-off valve. 1,628,675; May 17.
- Lovell & Covel Co. (See Grant, George W., assignor.)
- Lovell Manufacturing Company. (See Gehrlin, Vincent assignor.)
- Lovell Manufacturing Company. (See Rathners, John J., assignor.)
- Lovell Manufacturing Company. (See Robertson, William, assignor.)
- Lovell, Ralph L. (See Burlingham, W., and Lovell.)
- Lovell, Stanley P., Brockton, Mass. Stiffener for boots and shoes and compound used therein. 1,629,110; May 17.
- Lovell, Stanley P., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. 1,635,627; July 12.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Automatic compensating chuck. 1,617,403; Feb. 15.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Taper-turning attachment. 1,635,285; July 12.

- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Overhead tool attachment for lathes. 1,647,368; Nov. 1.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Chuck. 1,654,512; Dec. 27.
- Loveridge, Claude W., Manchester, England. Telfer or overhead transporter system. 1,637,308; July 26.
- Lovern, Thelonia R. (See Smith, R. B. and Lovern.)
- Lowit, George A., assignor to General Motors Corporation, Detroit, Mich. Electrode-feeding means. 1,642,452; Sept. 13.
- Lovsted, C. M. (See Nash, Ralph, assignor.)
- Lovsted, C. M. & Co. (See Nash, Ralph.)
- Low, Arthur B., Denver, Colo. Piston-ring spring pack. 1,640,155; Aug. 23.
- Low, Charles L. (See Graham, L. A., and Low.)
- Low, Charles L., assignor to Lisenby Manufacturing Company, Fresno, Calif. Semiautomatic feed device. 1,615,590; Jan. 25.
- Low, James F., & Company. (See Lambert, Oswald, assignor.)
- Lowden, Matthew C., Brooklyn, N. Y. Feed-bag holder. 1,628,061; May 10.
- Lowe, Edward L., Palo Alto, assignor to J. W. Clune Co., Los Angeles, Calif. Fuel-pumping mechanism for internal-combustion engines. 1,640,509; Aug. 30.
- Lowy, Ernest G., Hartford, Ill. Holdfast for stretching hides and leather. 1,638,046; Aug. 9.
- Lowe, Frank W., Camden, Ark. Lock bolt and nut. 1,649,071; Nov. 15.
- Lowe, Harry W., deceased, Indianapolis, Ind.: M. W. Lorator, administrator, assignor to J. P. Dalzoli, Minneapolis, Minn. Pulp-heating coil. 1,624,749; Apr. 12.
- Lowe, Jacob J., Boston, Mass., assignor, by mesne assignments, to The Adrian Corporation, Inc., Milwaukee, Wis. Visually determining the fit of footwear. 1,614,988; Jan. 18.
- Lowe, James S., Baltimore, Md. Propeller for ships or the like. 1,631,744; June 7.
- Lowe, James T. (See Gordon, C. S., and Lowe.)
- Lowe, John C., Minot, N. Dak. Meter-reading apparatus. 1,621,939; Mar. 22.
- Lowe, Mark W., administrator. (See Lowe, Harry W.)
- Lowe, R. W., et al. (See Boedker, Harry, assignor.)
- Lowe, Richard B., Madison, S. Dak. Display rack. 1,613,041; Jan. 4.
- Lowe, Richard T., assignor of one-half to B. I. Payne, Cedar Bluff, Va. Train-pipe coupler. 1,625,370; Apr. 19.
- Lowe, W. H., et al. (See Boedker, Harry, assignor.)
- Lowe, William S., Chicago, Ill. Apparatus for making paper pulp. 1,610,889; Jan. 11.
- Lowell, William, Maplewood, N. J., assignor to The Nieblo Mfg. Co. Inc., New York, N. Y. Golfing tee. 1,650,141; Nov. 22.
- Lowell-Wintsch Automatic Train Control. (See Rose, James A., assignor.)
- Lowenfeld, Henry, Paris, France. Syringe. 1,643,744; Sept. 27.
- Lowenstein, Fritz, deceased, New York, N. Y.; J. C. Wait, administrator, assignor, by mesne assignments, to Radio Corporation of America. Wireless telegraph apparatus. 1,618,017; Feb. 15.
- Lowenstein, Fritz, deceased, Rockaway Park, N. Y.; J. C. Wait, administrator, assignor, by mesne assignments, to Radio Corporation of America. Transmitter apparatus. 1,618,018; Feb. 15.
- Lowenstein, Harry. (See Lowenstein, Samuel, assignor.)
- Lowenstein, Harry F. and E. E. Clement, assignors to E. F. Colladay, Washington, D. C. Radio receiving apparatus. Re16,606; Apr. 26.
- Lowenstein, Karl P. zu. (See zu Lowenstein, Karl P.)
- Lowenstein, M., & Sons, Inc. (See Mack, Joseph H., assignor.)
- Lowenstein, Samuel, Oakland, assignor to H. Lowenstein, San Francisco, Calif. Bedpan. 1,642,255; Sept. 13.
- Lower, Melvin S., assignor to The Sun Rubber Company, Barberton, Ohio. Manufacturing fabric-covered cushions. 1,645,248; Oct. 11.
- Lower, Melvin S., assignor to The Sun Rubber Company, Barberton, Ohio. Making compound sponge rubber and fabric articles. 1,645,604; Oct. 18.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Combined stoker and feed-water pump. 1,614,528; Jan. 18.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. 1,634,467; July 5.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. 1,637,491; Aug. 2.
- Lower, Nathan M., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Steam engine. 1,643,671; Sept. 27.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. 1,652,028; Dec. 6.
- Lower, Nathan M. and A. R. Chalker, Pittsburgh, Pa., assignors to Locomotive Stoker Company. Distributor for stokers. 1,649,076; Sept. 19.
- Lowers, Perry O., Fredonia, Kans. Shade and curtain hanger. 1,639,520; Aug. 16.
- Lowinger, Eugene, New York, N. Y. Illuminated sign. 1,654,337; Dec. 27.
- Lowman, John W., Chattanooga, Tenn. Paint composition. 1,625,815; Apr. 26.
- Lowry, Charles A., Shaker Heights, and F. H. Abel, East Cleveland, Ohio. Tile wall or floor. 1,637,580; Aug. 2.
- Lowry, George A. (See Grant, J. A., and Lowry.)
- Lowry, George A., assignor to Fabricord Incorporated, trustee, New York, N. Y. Flax-cleaning machine. 1,640,461; Aug. 30.
- Lowry, George, Roseville, Ohio. Flowerpot die. 1,644,341; Oct. 4.
- Lowry, Homer H., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Insulation of finely-divided magnetic material. 1,651,957; Dec. 6.
- Lowry, Homer H., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Insulation of finely-divided magnetic material. 1,651,958; Dec. 6.
- Lowry, Howard, Upper Sandusky, Ohio. Sinkers. 1,618,100; Feb. 15.
- Lowy, Bessie, Coney Island, N. Y. Protecting device for springs. 1,616,133; Feb. 1.
- Lowy, Louis, Bronx, N. Y. Ice-saving refrigerator. 1,619,741; Mar. 1.
- Lowy, Ludwig, assignor to Schloemann Aktiengesellschaft, Dusseldorf, Germany. Hydraulic tube press. 1,634,134; Apr. 1.
- Lowy, Otto, Newark, assignor, by mesne assignments, to Steneck Trust Company, trustee, Hoboken, N. J. Arsenical solutions and preparing same. 1,621,121; Mar. 15.
- Lowy, Samuel, New York, N. Y. Office partition. 1,646,651; Oct. 25.
- Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)
- Lox Seal Corporation, The. (See Gluck, William S., assignor.)
- Lox Seal Corporation, The. (See Kondolf, Henry E., assignor.)
- Loy, George S., Paris, France. Tire-pressure gauge. Des. 73,505; Sept. 20.
- Loy, James W., assignor of one-third to F. M. Fishback, Long Beach, Calif. Air pump. 1,625,417; Apr. 19.
- Loy, James W., assignor of one-half to F. M. Fishback, Long Beach, Calif. Rotary disk drill. 1,646,620; Oct. 25.
- Loyd, Joseph, Broken Bow, Nebr. Steering by driving means for vehicles. 1,623,929; Apr. 5.
- Lubanc, San Francisco, Calif. Illuminated displaying device. 1,648,772; Nov. 8.
- Lubberger, Fritz, Berlin-Schmargendorf, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Berlin, Germany. Automatic telephone system. 1,632,670; June 14.
- Lubberger, Fritz, Berlin-Schmargendorf, and E. Hahn, Charlottenburg, assignors to Siemens & Halske Aktien-Gesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Automatic telephone system. 1,632,343; June 14.
- Lubé, Henry. (See Perrault, J. A., and Lubé.)
- Lubé, Henry, College Point, assignor to Radio Motion Picture Phon. Corp., Long Island City, N. Y. Motor. 1,649,836; Nov. 22.
- Lubowsky, Simon J., Brooklyn, N. Y., assignor to Metal & Thermit Corporation, Carteret, N. J. Transforming titanium-dioxide into rutile and a product thereof. 1,640,952; Aug. 30.
- Lubrano, Giuseppe, New York, N. Y. Tea-making spoon. 1,648,906; Nov. 15.
- Lucarelle, Joseph M., and V. L. Frykman, assignors to Dictaphone Corporation, Bridgeport, Conn. Power-transmitting device. 1,624,174; Apr. 12.
- Lucarelle, Joseph M., assignor to Dictaphone Corporation, Bridgeport, Conn. Phonograph. 1,649,965; Nov. 22.
- Lucarelle, Joseph M., assignor to Dictaphone Corporation, Bridgeport, Conn. Control mechanism. 1,652,029; Dec. 6.
- Lucas, Anton, Kansas City, Mo. Purifying iron scale. 1,631,423; June 7.
- Lucas, Anton, Kansas City, Mo. Producing welding metal. 1,637,619; Aug. 2.
- Lucas, Christian J., and A. G. Ponce, Brackenridge, Pa., Lucas, Daniel. (See Darby, J. K., and Lucas.)
- Lucas, Francis F., East Orange, N. J. Developing container. 1,615,880; Feb. 1.
- Lucas, Francis F., East Orange, N. J. Photomicrographic camera. 1,625,952; Apr. 26.
- Lucas, Francis F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Alloys. 1,628,990; May 17.
- Lucas, George P., Jersey City, N. J. Centrifugal hammer. 1,630,021; May 24.
- Lucas-Girardville, Paul N., Paris, France. Method and apparatus for the storage and the transportation of gas. 1,651,321; Dec. 6.
- Lucas, John, assignor to Lewis Foundry & Machine Company, Pittsburgh, Pa. Shearing and forging press. 1,638,403; Aug. 9.
- Lucas, John F., Kinsman, Ohio. Hoisting device. 1,616,880; Feb. 1.
- Lucas, John T. (See Gamble, Charles B., assignor.)
- Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Loom. 1,623,258; Apr. 5.

- Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Shuttle mechanism for looms. 1,624,108; Apr. 12.
- Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Tension device for looms. 1,625,039; Apr. 12.
- Lucas, Jonathan, assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Bobbin-feeding mechanism for looms. 1,631,828; June 7.
- Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Tension device for loom shuttles. 1,638,496; Aug. 9.
- Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corp., New York, N. Y. Bobbin for looms. 1,642,503; Sept. 13.
- Lucas, Joseph C., Blandinsville, Ill. Bank protector. 1,619,982; Mar. 19.
- Lucas-Lamborn Loom Corporation. (See Lucas, Jonathan, assignor.)
- Lucas, Noah E., Norwich, Conn. Bobbin. 1,631,043; May 31.
- Lucas, Owen D., and E. L. Lomax, assignors to V. L. Oil Processes Limited, Westminster, England. Refining hydrocarbons. 1,615,286; Jan. 25.
- Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,621,674; Mar. 22.
- Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,627,657; May 10.
- Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,652,313; Dec. 13.
- Lucas, Stacey P., Valley Park, Mo. Headlight. 1,622,953; Mar. 29.
- Lucas, Walter A., Hawthorne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Door-locking device for cane cars. 1,649,413; Nov. 15.
- assignors to Allegheny Steel Company. Journal-box. 1,650,701; Nov. 29.
- Luce Cane Harvester Corporation. (See Luce, George D., assignor.)
- Luce, George D., Watertown, Wis., assignor to Luce Cane Harvester Corporation, New York, N. Y. Sugar-cane harvester. 1,649,310; Nov. 8.
- Luce, Gratton E., Chicago, Ill. Hacking machine. 1,627,656; May 10.
- Luce, Gratton E., Chicago, Ill. Brick clasper. 1,652,080; Dec. 6.
- Luce, Milton H., Kansas City, Mo., assignor to Wheary Truck Company, Racine, Wis. Locking device for trucks. R-16,643; May 31.
- Lucey Manufacturing Corporation. (See Harris, H. M., and Attridge, assignors.)
- Lucey Manufacturing Corporation of Tennessee. (See Harris, Hu M., assignor.)
- Lucey, Patrick J., South Bend, Ind., assignor to Lucey Slicing Machine Company, Chicago, Ill. Sharpening device for slicing-machine knives. 1,632,088; June 14.
- Lucey, Patrick J., assignor to Lucey Slicing Machine Co., South Bend, Ind. Deflecting plate for slicing machines. 1,641,180; Sept. 6.
- Lucey Slicing Machine Co. (See Lucey, Patrick J., assignor.)
- Luethkanich, Alexander. (See Luethkanich, Stephen and A.)
- Luethkanich, Stephen and A., Mayfield, Pa. Car coupler. 1,613,115; Jan. 4.
- Lucian, Arsene E., Philadelphia, Pa. Stabilizer. 1,634,950; July 5.
- Luethello, Andrew, New Haven, Conn. Rope grip. 1,631,745; June 7.
- Luecke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,619,825; Mar. 8.
- Luecke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,626,202; Apr. 26.
- Luecke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condensing apparatus. 1,626,849; May 3.
- Luecke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condensing apparatus. 1,626,850; May 3.
- Luecke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,629,111; May 17.
- Luecke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,632,384; June 21.
- Luecke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,630,950; Aug. 30.
- Luecke, Hermann F. W., Attona-on-the-Elbe, Germany. Device for reducing the pitching of ships. 1,642,163; Sept. 13.
- Luecke, William R., Wilmette, Ill. Bathtub wall and floor joint. 1,615,881; Feb. 1.
- Luckett, Geo. B., and J. A. Johnson, Crawfordsville, Ind. Refractory material suitable for coverings and forming same. 1,643,988; Oct. 4.
- Ludlow, George P., Dayton, Ohio. Flow meter. 1,631,746; June 7.
- Luskey, George P., Dayton, Ohio. Latitude indicator for aircraft. 1,639,229; Aug. 16.
- Luecke, Alfred, and T. L. Mungum, Birmingham, Ala. Dial mechanism for automatic telephones. 1,639,891; Aug. 23.
- Ludasy, Ales, Wilkesburg, Pa. Hydrocraft. 1,630,623; May 31.
- Ludeman, Edwin H. (See Ludeman, Oscar H. and E. H.)
- Ludeman, Oscar H., Glen Ridge, N. J., and E. H. Ludeman, Brooklyn, N. Y. Separator. 1,613,233; Jan. 4.
- Luden, Wm. H., Inc. (See Weber, Walter S., assignor.)
- Ludlow, Alvin, Asbury Park, N. J. Anklet brace. 1,624,266; Apr. 12.
- Ludington Machine Co. (See Fefel, John E., assignor.)
- Ludlow, David H., Easton, Pa. Wheel. 1,636,310; July 19.
- Ludlow, Frederick O., assignor to The Compound and Pyrodo, Inc., St. Joseph, Mich. Fire-resisting structure. 1,652,314; Dec. 13.
- Ludlow, Thomas H., Rochester, N. Y. Conduit bushing adapter. 1,632,843; June 21.
- Ludlow Typograph Company. (See Merrill, Philip P., assignor.)
- Ludlum Steel Co. (See Clement, Alvah W., assignor.)
- Ludow, Walter S., Jr., Cincinnati, Ohio. Combined manual night-watch fire-alarm box. 1,622,457; Mar. 29.
- Ludw. Loewe & Co. Actiengesellschaft. (See Peglow, Otto, assignor.)
- Ludwig, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Carrier for spare disk wheels. 1,638,775; Aug. 9.
- Ludwig, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Carrier for spare disk wheels. 1,619,026; Mar. 1.
- Ludwick, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Brake-applying mechanism for motor vehicles. 1,620,265; Mar. 8.
- Ludwick, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Work-holding device for multiple spindle drills. 1,628,729; May 17.
- Ludwick, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Wheel. 1,634,786; July 5.
- Ludwick, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Wheel. 1,646,866; Oct. 25.
- Ludwick, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Metal-cutting mechanism. 1,647,895; Nov. 1.
- Ludwig & Ludwig, Inc. (See Danly, Robert C., assignor.)
- Ludwig, Nicholas U., assignor of one-third to G. W. Weyand, Buffalo, N. Y. Combined brick kiln and drier. 1,627,979; May 10.
- Ludwig, William C. (See Carruth, H. P., and Ludwig.)
- Ludwig, William C., Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Apparatus and method for packaging paper. 1,618,542; Feb. 22.
- Ludwin, John, and A. Howard, Long Island, N. Y. Gauge-glass and feed-glass protection. 1,629,348; May 17.
- Ludy, Clarence C., Venice, Calif. Bag holder. 1,625,480; Apr. 19.
- Ludy, George B., Cedar Rapids, Iowa. Locking open link. 1,647,140; Nov. 1.
- Lueck, Henry W. (See Davis, C. H., and Lueck.)
- Luedtke, Charles E., Chatfield, assignor of one-half to O. C. Hanson, Minneapolis, Minn. Shears. 1,615,882; Feb. 1.
- Lueg, Paul, Leverkusen, J. Drucker, Cologne-Mühlheim, and H. Thienemann, Leverkusen, near Cologne, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Producing active carbon. 1,641,281; Sept. 6.
- Luehrs, Daniel M., Cleveland, Ohio. Liquid heat-transmission system. 1,630,956; May 31.
- Luellen, Lawrence W., Mountain Lakes, N. J. System of mobile armament. 1,628,165; May 10.
- Lueling, Eugene G., Chicago, Ill. Liquefaction of air and separation into oxygen and nitrogen. 1,634,076; June 28.
- Lueth, Paul F., assignor to Sumner Iron Works, Everett, Wash. Sawmill carriage. 1,632,708; June 14.
- Luetscher, Ewald. (See Metzger, J., and Luetscher.)
- Luff, Henry J., Cleveland, Ohio, assignor to Fruin & Walker Company, Chicago, Ill. Plumbing fitting. 1,650,220; Nov. 22.
- Luff, Henry J., Cleveland, Ohio, assignor to Fruin & Walker Company, Chicago, Ill. Plumbing system. 1,650,221; Nov. 22.
- Lufkin Rule Co. (See Schleicher, John A., assignor.)
- Lufkin Rule Co. (See Witteger, Eugene J., assignor.)
- Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung. (See Arnstein, Karl, assignor.)
- Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung. (See Baumeister, H., Dörr, and Hürttle, assignors.)
- Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung. (See Dörr, Ludwig, assignor.)
- Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung. (See Hillgard, Erich, assignor.)
- Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung. (See Hürttle, Karl, assignor.)
- Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung. (See Schützler, Hans, assignor.)
- Luftschiffbau Zepplin Gesellschaft mit beschränkter Haftung. (See Siller, Karl, assignor.)
- Luginbuhl, Godofroy-Rodolphe, Lausanne, Switzerland. Railway guide. 1,642,616; Sept. 13.

- Luhan, Joseph F. C., New York, N. Y. Sanitary dispenser for plastic materials. 1,613,761; Jan. 11; Sept. 20.
- Luhr, Otto, Chicago, Ill. Refrigerator car. 1,642,882; Sept. 20.
- Lui, John D., Napa, Calif. Clasp for bobbed hair. 1,637,492; Aug. 2.
- Luijpersbek, Frank, Boundbrook, N. J. Moisture feeder for flowerpots. 1,633,184; June 21.
- Luisa, Frank, and J. DeRafate, New York, N. Y. Twin-ball puncher. 1,622,458; Mar. 29.
- Lukens, Alan R., Wyoming, assignor to The Richardson Company, Cincinnati, Ohio. Cutting strip shingles. 1,614,446; Jan. 11.
- Lukens, Clarence D. (See Youtsey, Floyd S., assignor.)
- Lukens, Clarence D., St. Louis, Mo. Bottle closure. 1,645,617; Apr. 15.
- Luks, Joachim, and J. M. Garnett, Brooklyn, N. Y. Dental mold. 1,639,262; Aug. 16.
- Luley, John, New York, and J. P. Brunner, Brooklyn, N. Y. Sheet-feed controller for folding machines. 1,646,652; Oct. 25.
- Lutj, Robert C., St. Louis, Mo. Solvent. 1,648,314; Nov. 8.
- Lum, Chancy. (See White, F. R., and Lum.)
- Lum, George R., assignor to Western Electric Company, Incorporated, New York, N. Y. Loud-speaking sound reproducer. Des. 72,103; Mar. 1.
- Lum, George R., assignor to Western Electric Company, Incorporated, New York, N. Y. Loud-speaking sound reproducer. Des. 74,114; Dec. 20.
- Lum, George R., assignor to Western Electric Company, Incorporated, New York, N. Y. Contact-spring vibration damper. 1,613,616; Jan. 11.
- Lum, George R., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter mounting. 1,636,006; July 19.
- Lumley, David A., San Jose, and H. A. Butts, near San Jose, Calif. Signal case. Des. 74,065; Dec. 13.
- Lumley, Frank E., Chicago, Ill. Ventilating device for toilets. 1,636,476; July 19.
- Lumley, Frank E., Chicago, Ill. Device for maintaining vacuum in fire hose. 1,648,816; Nov. 8.
- Lummus, Walter E., Lynn, Mass. Refining petroleum. 1,628,252; May 10.
- Lunati, Peter J., Memphis, Tenn. Vehicle turntable. 1,644,785; Oct. 11.
- Lund, Geo. E. (See Kelly, John C., assignor.)
- Lund, Joel, San Francisco, Calif. Process of and apparatus for making of fuxing materials. 1,626,292; Apr. 26.
- Lund, John A., assignor to Challenge Company, Batavia, Ill. Pump jack. 1,627,708; May 10.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacturing of heels. 1,643,387; Sept. 27.
- Lundahl, Fred A., Moline, Ill. Toy truck. Des. 72,377; Apr. 5.
- Lunday, Russell E., Hurley, N. Mex. Collapsible shoe-horn. 1,645,605; Oct. 18.
- Lundberg, Everett E., assignor to Briggs Manufacturing Company, Detroit, Mich. Adjustable striker plate. 1,630,533; May 31.
- Lundberg, Everett E., assignor to Briggs Manufacturing Company, Detroit, Mich. Adjustable dovetail construction. 1,640,958; Aug. 30.
- Lundberg, Godfrey, Winnetka, assignor to The Tribune Company, Chicago, Ill. Plate carrier for multicolor cameras. 1,624,559; Apr. 19.
- Lundberg, Gunnar E., and I. Jeppsson, Chicago, Ill. Automatic timing valve. 1,645,703; Oct. 18.
- Lundberg & Kullberg Aktiebolag. (See Bengtsson, Bror J., assignor.)
- Lundblad, Emil O., Medford, Mass. Suction fastening device. 1,652,488; Dec. 13.
- Lundblad, Julius, Jolly, Calif. Fruit-picker's glove. 1,640,004; Aug. 23.
- Lundborg, Bror H., Stockholm, Sweden, assignor to Svenska Akkumulator Aktiebolaget Jungner. Fluid filter. 1,648,773; Nov. 8.
- Lundegaard, Anders, M. P., Copenhagen, Denmark. Steam turbine gland with more than one pipe connection. 1,632,981; June 21.
- Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Register-controlling system. 1,632,908; June 21.
- Lundell, George A. E., New York, N. Y. Telephone-exchange system. 1,638,340; Aug. 9.
- Lundell, Otto, Rockford, Ill. Heat conserver and dispenser. 1,643,745; Sept. 27.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Automatic stoker. 1,623,009; Apr. 5.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Underfeed stoker. 1,623,423; Apr. 5.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Underfeed stoker furnace. 1,628,166; May 10.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Underfeed stoker. 1,629,282; May 17.
- Lundgren, Edwin, Frederick, Md., assignor to International Combustion Engineering Corporation, New York, N. Y. Underfeed stoker. 1,629,283; May 17.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Automatic stoker. 1,636,375; July 19.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Stoker. 1,636,376; July 19.
- Lundgren, Fridolf H., Ingelstorp, Glemmingebro, assignor to Aktiebolaget Arkos, Lidköping, Sweden. Speedometer-driving mechanism. 1,648,489; Nov. 8.
- Lundgren, Gustaf H. (See Cook, H. D., and Lundgren.)
- Lundgren, Harry, assignor to Fulcher Pulp Bottle Company, Oakland, Calif. Method and apparatus for forming hollow ware. 1,631,496; June 7.
- Lundgren, Jacob, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Method and apparatus for weighing. 1,647,923; Nov. 1.
- Lundin, Trud B., Philadelphia, Pa., and J. F. McGhee, Moorestown, N. J., assignors to American Machinery Co., Inc., Philadelphia, Pa. Measuring and dispensing machine. 1,648,554; Nov. 8.
- Lundius, Eric R., assignor to MacDonald-Jensen Manufacturing Co., Brooklyn, N. Y. Book holder. 1,616,630; Feb. 2.
- Lundquist, Bernard H., Providence, R. I. Radiodetector. 1,622,459; Mar. 29.
- Lundquist, Ernest R., Lincoln, Nebr. Extension step. 1,628,505; May 10.
- Lundquist, Frank A., assignor to New Process Burner Corporation, Chicago, Ill. Automatic control for oil burners. 1,630,022; May 24.
- Lundquist, Hans, assignor to United States Specialty Corporation, Chicago, Ill. Flow-reistering gauge. 1,614,526; Jan. 18.
- Lundst, Hans, assignor to United States Specialty Corporation, Chicago, Ill. Flow-actuated device. 1,614,530; Jan. 18.
- Lundquist, Hans, assignor to United States Specialty Corporation, Chicago, Ill. Lace-threading machine. 1,627,610; May 10.
- Lundquist, Hans, assignor to United States Specialty Corporation, Chicago, Ill. Lace-threading machine. 1,627,611; May 10.
- Lundquist, Herman A., assignor of one-half to The Banting Manufacturing Company, Toledo, Ohio. Thrashing machine. Des. 725,953; Apr. 26.
- Lundquist, Hjalmar B., Youngstown, Ohio. List-removing apparatus. 1,641,978; Sept. 13.
- Lundquist Tool and Manufacturing Company. (See Arey, Ralph G., assignor.)
- Lundstedt, John A., New York, N. Y. Grating. 1,622,977; Jan. 4.
- Lundsten, Olof, et al. (See Knistrom, Joseph, assignor.)
- Lundstrom, Arthur G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Fuel distributor for internal-combustion engines. 1,630,957; May 31.
- Lundy, Charles H., Wickham, W. Va. Connector for electrical conductors. 1,635,760; July 12.
- Lundy, Robert R., South Bend, Ind. Cross-word puzzle. 1,625,218; Apr. 19.
- L'Union Generale d'Electricite. (See Fallou, Jean G., assignor.)
- Lunkenheimer Company, The. (See Hehemann, Frederick H., assignor.)
- Lunn, Edmond, assignor to Pullman Car and Manufacturing Corporation, Chicago, Ill. Spot welding of aluminum. 1,618,764; Feb. 22.
- Lunn, Jean, Montreal, Quebec, Canada. Skate. 1,650,222; Nov. 22.
- Lunow, Fritz. (See Bennewitz, Johannes, assignor.)
- Lunsford, Errell C., Shreveport, La. Brake-beam-supporting bolt. 1,646,587; Oct. 25.
- Luntz, Louis J., Bell, Calif. Can opener. 1,650,842; Nov. 29.
- Lunz, Franz, New York, N. Y., assignor to Aero Toy & Manufacturing Co., Inc., New York, N. Y. Spinning toy. 1,638,468; June 21.
- Lupfer, James A., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Oil-pumping system. 1,644,841; Oct. 11.
- Luplow, Donald C., Calistoga, Calif. Traffic signal for motor vehicles. 1,619,523; Mar. 1.
- Lupo, Salvatore Q., New York, N. Y. Combined vanity compact and cigarette case. 1,614,374; Jan. 11.
- Luppert, Valentine C., Williamsport, Pa. Leaf support. 1,651,825; Dec. 6.
- Lupton's, David, Sons Company. (See Brogden, Joah, assignor.)
- Lupton's, David, Sons Company. (See Ferguson, Frank C., assignor.)
- Lurcott, Winfred N., Weehawken, N. J., assignor, by mesne assignments, to Griplock, Inc., New York, N. Y. Wire-strap-sealing machine. 1,616,911; Feb. 8.
- Lurcott, Winfred N., Weehawken, N. J., assignor to Griplock, Inc., New York, N. Y. Wire-strapping tool. 1,616,918; Feb. 8.
- Lurcott, Winfred N., Elizabeth, N. J., assignor to Moore Bros. Co., New York, N. Y. Liquid-soap dispenser. 1,633,448; June 21.
- Lurie, August J. (See Fredrick, Joseph P., assignor.)
- Lusby, John G., Harrisburg, Pa. Electric switch. 1,646,766; Oct. 25.

- Lüschen, Fritz, Berlin-Sudende, and K. Kipfmüller, Berlin-Friedenau, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Alternating-current telegraphy. 1,642,453; Sept. 13.
- Lüscher, Emil, assignor to the Society Elektrizitätswerk Lonza, Gampel and Büsel, Switzerland. Manufacture of stabilized metaldehyde. 1,631,875; June 7.
- Lush, Oswald, Nokomis, Ill. Drill. 1,619,209; Mar. 1.
- Luse, William J., New York, N. Y. Alarm system. 1,627,612; May 10.
- Lush, Studley W., Sydney, New South Wales, Australia. Means for decanting liquids from metal containers. 1,617,066; Feb. 8.
- Lusk, Charles S., Alfred Station, N. Y. Combined track level and gauge. 1,633,535; June 21.
- Lusk, Othello B. (See Penny, V. E., and Reinke, assignors.)
- Lusse Brothers. (See Lusse, Joseph and R., assignors.)
- Lusue, Joseph and R., assignors to Lusse Brothers, Philadelphia, Pa. Current collector. 1,645,437; Oct. 11.
- Lusse, Robert. (See Lusse, Joseph and R.)
- Lustig, Karel. (See Vesely, K., and Lustig.)
- Luten, Daniel B., Indianapolis, Ind. Skew arch. 1,634,548; July 5.
- Luten, Daniel B., Indianapolis, Ind. Expansion-joint drain. 1,634,549; July 5.
- Lutes, Charles S., Saskatoon, Saskatchewan, Canada. Oil-valve attachment for engine crank casings. 1,635,219; July 12.
- Lutes, Henry W., Roscoe, Mo. Automobile wheel brake. 1,643,388; Sept. 27.
- Luther, Edwin A., Los Angeles, Calif. Seed rack. 1,630,347; May 31.
- Luther, John A., assignor of one-fourth to P. Paris, one-fourth to G. Merola, and one-fourth to A. Auletta, Gaymorne, N. J. Door-operating device. 1,636,674; July 19.
- Luther, Martin P., assignor to Super-Safety Switch Company, Chicago, Ill. Electric switch. 1,648,853; Nov. 8.
- Luther, Martin P., assignor to Super-Safety Switch Company, Chicago, Ill. Electric switch. 1,648,854; Nov. 8.
- Lutz, Stephen G., Akron, Ohio. Rubber product and producing the same. 1,647,184; Nov. 1.
- Lutz, Fred A., Jackson, Mich. Wheel pulley. 1,639,140; Aug. 16.
- Luthy, Joseph O., San Antonio, Tex. Battery connector. 1,627,442; May 3.
- Luthy, Joseph O., San Antonio, Tex. Melting pot. 1,639,380; Aug. 16.
- Lutostanski, Thomas, Wayland, Mich. Sausage-stuffing machine. 1,636,424; July 19.
- Lutschak, John, Milwaukee, Wis. Shade roller. 1,650,020; Aug. 22.
- Lüttschen, Ewald, Munich, Germany. Drying cylinder for paper machines and textile goods drying machines. 1,640,662; Aug. 30.
- Lutter, Clements. (See Schranz, K., and Lutter.)
- Lüttin, Karl, Basel, assignor to the society T. R. Geigy A. G., Basel, Switzerland. Dye solution. 1,635,628; July 12.
- Lutton, Harry A., Jersey City, N. J. Combination supporting frame and gutter. 1,652,031; Dec. 6.
- Lutton, William J., Paterson, N. J. Let-off mechanism for looms. 1,635,497; Aug. 1.
- Luttwinghaus, Arthur, Mannheim, H. Neresheimer, Ludwigshafen-on-the-Rhine, and H. Wolf, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of condensation products and dyestuffs of the benzanthrone series. 1,633,866; June 28.
- Luttschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Stahl, K., and Siller, assignors.)
- Lutyns, Lionel C., London, and R. O. Child, Harrow, England. Composition applicable for roofing, road surfacing, and other purposes. 1,641,637; Sept. 6.
- Lutz, George H. (See Kozak, F. F., and Lutz.)
- Lutz, George H. (See Daly, J. F., Coats, and Lutz.)
- Lutz, George H., Philadelphia, Pa. Cover-operating mechanism for garbage, ash wagons, and the like. 1,651,188; Nov. 29.
- Lutz, Hans, Elmira, N. Y., assignor to The Willys-Overland Company, Toledo, Ohio. Grinding machine. 1,632,379; June 14.
- Lutz, Weldy, Eldon, Iowa. V-shaped appliance for tractor-wheel lugs. 1,641,282; Sept. 6.
- Lutz, William C. (See Krepis, J. C., Jr., Marsh, and Lutz.)
- Lutzke, Ervin J. F., et al. (See Jourdan, Roy E., assignor.)
- Lutzler, Dorothea E., Nashville, Tenn., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Broiler pan. 1,650,634; Nov. 29.
- Lux, Frederick, Waterbury, Conn. Desk clock. Des. 849; Nov. 8.
- Luxite Silk Products Co. (See Carlson, E. B., Costello, and Heilbroner, assignors.)
- Luxmore, William, Chicago, Ill. Windshield cleaner. 1,654,005; Dec. 27.
- Luxton, William J., and W. A. Green, London, England. Cansoldering machine. 1,631,424; June 7.
- Luytjes, Otto G., deceased, New York, N. Y.; H. M. Rider and G. A. Lanzka, administrators. Construction of pipes and the like. 1,643,021; Sept. 20.
- Lybarger, Donald F., Cleveland, Ohio. Badge. Des. 71,875; Jan. 18.
- Lybeck, Henry, et al. (See Skinner, Clarence L., assignor.)
- Lyden, Mortimer C., Yonkers, N. Y. Anchoring device. 1,628,253; May 10.
- Lyen, Andrew C., and C. W. Morgan, Chicago, Ill. Switchboard. 1,642,883; Sept. 20.
- Lyhne, Anker S., Bridgeport, Conn. Vanity box. 1,618,598; Feb. 22.
- Lyhne, Anker S., Bridgeport, Conn. Vanity box. 1,632,410; June 14.
- Lyhne, Anker S., Bridgeport, Conn. Vanity box. 1,642,962; Sept. 20.
- Lyhne, Anker S., Bridgeport, Conn. Vanity box. 1,617,722; Dec. 6.
- Lykins, Clarence B., assignor of one-half to H. D. Hewlett, Shawnee, Okla. Aeroplane. 1,621,019; Mar. 15.
- Lykken, Henry G. (See Wilson, W. E., and Lykken.)
- Lykken, Henry G., Minneapolis, Minn. Treating materials. 1,613,042; Jan. 4.
- Lyman, Samuel E., Montgomery, Ala. Cutter guard for forming machines. 1,645,608; Oct. 18.
- Lyman, Charles E., Waterbury, Conn. Forming set screws. 1,642,736; Sept. 20.
- Lyman, Charles R., Center Point, Iowa. Apparatus for controlling the air supply of carburetors. 1,628,506; May 10.
- Lyman, Kenneth E., assignor to Bendix Brake Company, Chicago, Ill. Shaft support. 1,653,112; Dec. 20.
- Lyman, Walter H., assignor to The American Perforator Company, Chicago, Ill. Cryptographic perforator. 1,646,963; Oct. 25.
- Lynch, Charles W., Perry, Okla. Sand reel. 1,641,893; Sept. 6.
- Lynch, Charles W., Perry, Okla., assignor to Pickering Lumber Company, Kansas City, Mo. Derrick-top assembly. 1,636,522; July 19.
- Lynch, Charles W., Perry, Okla., assignor to Marion Machine Foundry & Supply Company, Marion, Ind. Key pulley. 1,653,715; Dec. 27.
- Lynch, Cornelius F., New York, N. Y. Window sash. 1,614,564; Jan. 18.
- Lynch, Ernest E., and H. A. Mead, Turlock, Calif., assignors to J. C. Masterson Corporation, Wrentham, 1,634,908; July 5.
- Lynch, Ernest E., Alameda, Calif. Pressure-operated grease dispenser. 1,630,899; May 31.
- Lynch, Frank J., Huntington Park, Calif. Elevator. 1,648,650; Nov. 8.
- Lynch, Gene E., Los Angeles, Calif. Safety device for motor cars. 1,643,989; Oct. 4.
- Lynch, Joseph, Horseheads, N. Y. Producing molded objects of contrasting colors. 1,612,825; Jan. 4.
- Lynch, Joseph, Perth Amboy, N. J. Cornice block. 1,645,893; July 12.
- Lynch, Joseph H., Asbury Park, N. J. Laundry-checking device. 1,642,963; Sept. 20.
- Lynch, Patrick H. (See McKay, J. A., and Lynch.)
- Lynch, William F., assignor to Peerless Tube Co., Bloomfield, N. J. Feeding mechanism. 1,652,032; Dec. 6.
- Lyndon, Edward, New York, N. Y. Optical reflector. 1,653,053; Dec. 20.
- Lyndon, Lamar, New York, N. Y., and R. I. Blakeslee, Los Angeles, Calif. System and means for dispensing foods and commodities. 1,624,267; Apr. 12.
- Lyons, H. North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh machine. 1,627,397; May 3.
- Lynn, Craig, Butler, Ind. Motor-driven saw. 1,622,120; Mar. 22.
- Lynn, John P. (See Kaufmann, M. M., Lynn, and Dell.)
- Lynn, John P., Chicago, Ill. Making pencil bodies and the like. 1,638,002; Aug. 2.
- Lynn, John V., assignor to H. D. Denay, London, England. Device for removing kinks and the like from flexible wires. 1,614,375; Jan. 11.
- Lynn Last Company. (See Gerrish, Edward W., assignor.)
- Lynn, Robert C. (See Foster, Samuel P., assignor.)
- Lynn, Thomas H., Williamsport, Pa. Tire carrier. 1,629,039; May 17.
- Lyons, Frederic M., Pontiac, Ill. Safety key device. 1,622,793; Mar. 29.
- Lyons, George A., Philadelphia, Pa. Automobile buffer and attachment therefor. 1,626,347; Apr. 26.
- Lyons, George A., Alhamburst, N. J. Automobile buffer construction. 1,650,635; Nov. 29.
- Lyons & Healy, Inc. (See Arthur, Paul, assignor.)
- Lyons & Healy, Inc. (See Jefferson, Benjamin H., assignor.)
- Lyons, Howard, assignor to Welshbach Company, Gloucester, N. J. Broiler burner. 1,614,746; Jan. 18.
- Lyons, John S., assignor of one-half to J. Bartholomew, Rochester, N. Y. Compact powder holder. 1,625,669; Apr. 19.
- Lyons, Joseph F., Fort Scott, Kans. Propelling device. 1,644,269; Oct. 4.
- Lyon Metallic Manufacturing Company. (See Adler, John)
- Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
- Lyon, Norman W. (See Wentworth, E. F., and Lyon.)
- Lyon, Ray B. (See Karling, C. A., and Howell, assignors.)
- Lyon, Samuel V. (See Post, L. B., Lyon, and Blumenfeld.)

- Lyons' California Glacé Fruit Company. (See Jacobs, Ernest E., assignor.)
- Lyons, Earle K., assignor to Delaware Punch Company of America, San Antonio, Tex. Bottle. Des. 73,530; Sept. 27.
- Lyons, Edward, assignor to Parke, Davis & Co., Detroit, Mich. Thioglycollic acid compound. 1,644,258; Oct. 4.
- Lyons, Fred D., Kansas City, Mo., assignor to I. M. Lyons. Oil burner. 1,623,930; Apr. 5.
- Lyons, George W., assignor to The Builders Iron Company, New Haven, Conn. Hatchway door. 1,647,836; Nov. 1.
- Lyons, Gordon T., Los Angeles, Calif. Dispensing device. 1,626,943; May 3.
- Lyons, Izora M. (See Lyons, Fred D., assignor.)
- Lyons, J., and Company. (See Oliver, George W., assignor.)
- Lyons, Leon L., Omaha, Nebr. Sheet-rubber-splitting machine. 1,629,830; May 24.
- Lyons Piece Dye Works. (See Rivat, George, assignor.)
- Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Button clamp. 1,645,537; Oct. 18.
- Lysle, Edmond H., Ventnor, N. J. Optical apparatus and using the same. 1,616,054; Feb. 1.
- Lyth, John J., Valleyfield, Quebec, Canada. Apparatus for moulé-finish cloth. 1,635,091; July 5.
- Lytie, George, Parma, Idaho. Harrow attachment for plows. 1,646,483; Oct. 25.
- Lytton, Edward, London, England. Nail, screw nail, and the like. 1,631,044; May 31.
- Lytton, Edward, London, England. Nail, screw nail, and the like. 1,648,855; Nov. 8.
- Lytton, Walter, Chicago, Ill. Combined radio receiving set and sound-amplifying horn. 1,649,715; Nov. 15.
- Lytton, Walter, and P. E. Edelman, Chicago, Ill., assignors, by mesne assignments, to said Lytton. Radio and phonograph combination switch. 1,649,716; Nov. 15.
- M. J. B. Co. (See Bardet, G. A., and Burns, assignors.)
- M. J. B. Co. (See Burns, Wilfred E., assignor.)
- M-O-R Products Company. (See Odum, Leland L., assignor.)
- M & P Corset Company. (See Brock, William R., assignor.)
- M. S. Company. (See Nittel, Frederick W., assignor.)
- Maag Gear Wheel and Machine Company. (See Maag, Max, assignor.)
- Maag, Max, Schwamendingen, assignor to Maag Gear Wheel and Machine Company, Ltd., Zurich, Switzerland. Gear grinder. 1,626,944; May 3.
- Maag, Max, Schwamendingen, assignor to Maag Gear Wheel and Machine Company, Ltd., Zurich, Switzerland. Gear grinder. 1,626,945; May 3.
- Maag, Max, Schwamendingen, assignor to Maag Gear Wheel and Machine Company, Ltd., Zurich, Switzerland. Spur-gear shaper. 1,645,106; Oct. 11.
- Maanum, Anton A., et al. (See Maanum, Dedrick A., assignor.)
- Maanum, Dedrick A., Hancock, Minn. Can washer. 1,620,116; Mar. 8.
- Maanum, Dedrick A., assignor of one-fourth to A. A. Maanum and one-fourth to T. A. Maanum, Minneapolis, Minn. Valve for milk vats. 1,633,853; Aug. 23.
- Maanum, Thor A., et al. (See Maanum, Dedrick A., assignor.)
- Mais, A. R., Chemical Co. (See Glaze, Herbert L., assignor.)
- Mans, Elov F., Long Branch, N. J. Grinding machine. 1,622,527; Mar. 29.
- Maas, Elov F., Cuyahoga Falls, Ohio. Railway-car-wheel construction. 1,648,413; Nov. 8.
- Mans, George H., Milwaukee, Wis. Carbonator. 1,630,575; May 31.
- Mantschappi, N. V., Ago. (See Van der Werff, Auke H., assignor.)
- Mabe, Paris M., Muskogee, Okla. Knockdown show case. 1,638,863; Aug. 16.
- Mabee, Alexander C. (See Dienner, J. A., and Mabee.)
- Mabee, Charles R., Buffalo, N. Y., assignor to Mabee Patents Corporation, of Dover, Del. Manufacture of livestock feeds. 1,615,024; Jan. 18.
- Mabee, Charles R., Buffalo, N. Y., assignor to Mabee Patents Corporation, Dover, Del. Apparatus for producing livestock feeds. 1,641,340; Sept. 6.
- Mabee, Elliott B., Brooklyn, N. Y. Illuminating device. 1,628,284; May 17.
- Mabee, Elliott B., Brooklyn, N. Y. Film-developing holder. 1,629,285; May 17.
- Mabee Patents Corporation. (See Mabee, Charles R., assignor.)
- Mabee, William R., Newark, N. J. Central package wrapping station. 1,644,342; Oct. 4.
- Mabie, Paul S., Detroit, Mich. Liquid-level indicator. 1,617,819; Feb. 15.
- Mabie, Paul S., assignor of one-half to W. Liston, Detroit, Mich. Liquid-level indicator. 1,620,823; Mar. 15.
- Mabon, Merrill, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 71,876; Jan. 18.
- Mabon, Merrill, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 71,877; Jan. 18.
- Mabon, Merrill, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 71,878; Jan. 18.
- Mabon, Merrill, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 71,879; Jan. 18.
- Mabon, Merrill, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 72,716; May 24.
- Maby, Frederick W., assignor to Royalty Holding Corporation, New York, N. Y. Starter for internal-combustion engines. 1,631,747; June 7.
- Macabee, Edward L. and F. B., Hayward, Calif. Brake gauge. 1,624,142; Apr. 12.
- Macabee, Fabian E. (See Macabee, Edward L. and F. E.)
- Macallen Company, The. (See McCarthy, Louis, assignor.)
- MacArthur, David, Harrisburg, Pa., assignor to United Shoe Machinery Corporation, Paterson, N. J. Economizer for fastening-inserting machines. 1,643,389; Sept. 27.
- Macartney, Jack, and A. V. Hahn, Los Angeles, Calif. Acoustic horn. 1,625,825; Apr. 19.
- Macaulay, Herman C., Rumford, Me. Steam trap. 1,631,876; June 7.
- MacBean, Thomas L. (See Herrick, Ernest A., and MacBean.)
- Macbeth, Arthur L., Baltimore, Md., assignor to Daylight Motion Picture Co., Washington, D. C. Projection screen. 1,638,144; May 10.
- Macbeth, Colin, Erdington, Birmingham, assignor to The Dunlop Rubber Company, Limited, Regents Park, London, England. Machine for making pneumatic tire covers and casings. 1,613,519; Jan. 4.
- Macbeth, Colin, Four Oaks, and W. J. Dexter, Erdington, Birmingham, England, assignors to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y. Preparing rubber-coated fabrics. 1,617,340; Feb. 15.
- Macbeth-Evans Glass Company. (See Baumann, Christy J., assignor.)
- Macbeth-Evans Glass Company. (See Sloan, Theodore H., assignor.)
- Macbeth-Evans Glass Company. (See Worcester, Evan R., assignor.)
- Macbeth, George D., Pittsburgh, Pa. Automobile head-light lens. Des. 72,066; Feb. 22.
- MacBride, James A., Kearny, and A. E. Peyser, Perth Amboy, N. J. Machine for squeezing, mounting, and drying photographic prints. 1,640,131; Aug. 23.
- MacCallum Decorative Corporation. (See Goldman, M. S., and Huttig, assignors.)
- MacCammond-Alexander Corporation. (See Boyle, Edward, assignor.)
- Macchiarella, Joseph, Paterson, N. J. Shuttle guard for looms. 1,637,471; July 18.
- MacClatchie, John W. (See Erwin, W. C., and Sweet, assignors.)
- MacClatchie, John W., Compton, Calif. Pipe stopper. 1,616,978; Feb. 8.
- MacClatchie, John W., Compton, Calif. Deep-well-pump-operating mechanism. 1,616,979; Feb. 8.
- MacClatchie, John W., Compton, Calif. Well-drilling apparatus. 1,633,945; June 28.
- MacCordy, Charles A., Albany, assignor to MacCordy Master-Check Corporation, Syracuse, N. Y. Protecting checks. 1,622,329; Mar. 29.
- MacCordy Master-Check Corporation. (See MacCordy, Charles A., assignor.)
- MacCormac, Rockwell M., Kansas City, Mo. Garment supporter. 1,635,424; July 12.
- Macdonald, Angus S., Great Neck, N. Y., assignor to Sneed & Company. Floor grid. 1,645,538; Oct. 18.
- Macdonald, Angus S., Great Neck, N. Y., assignor, by mesne assignments, to Spicer Manufacturing Corporation, South Plainfield, N. J. Flexible torque-transmitting member. 1,647,114; Oct. 25.
- Macdonald, Arthur E., London, England. Spark plug. 1,647,099; Oct. 25.
- MacDonald, Charles D., Fullerton, Calif. Convertible bed or trunk. 1,619,853; Mar. 1.
- MacDonald, John J., Cambridge, Mass. Pile truss. 1,640,416; Aug. 30.
- MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for cutting blanks from sheet material. 1,616,752; Feb. 8.
- MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method of and apparatus for making and applying markers for rubber articles. 1,610,354; Mar. 1.
- MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for making rubber footwear. 1,629,920; May 24.
- MacDonald, Frederick D., Milwaukee, Wis. Floral supporter. 1,629,112; May 17.
- MacDonald, Hugh. (See MacDonald, William and H.)
- MacDonald, James A., Boston, Mass. Sine wave extractor. 1,629,349; May 17.
- MacDonald, James M., East Orange, N. J. Container. 1,616,696; Feb. 8.
- MacDonald, James M., East Orange, N. J. Container. 1,628,793; May 17.
- Macdonald-Jensen Manufacturing Co. (See Lundius, Eric R., assignor.)

- MacDonald, Joel W., Little Rock, Ark., assignor to W. L. Rucker, Los Angeles, Calif. Process and apparatus for manufacturing amorphous carbon, etc. 1,626,418; Apr. 26.
- MacDonald, John O., Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, New York, N. Y. Turned tool post for car-wheel lathes. 1,650,718; Nov. 29.
- Macdonald, John W., administrator. (See Scott, Annie A. E. H., P. R. and E. M.)
- MacDonald, Kenneth, Jr., Los Angeles, Calif. Garage elevator. 1,639,230; Aug. 16.
- Macdonald, Laurie S., and J. E. Small, assignors to Thompson Bros. Shoe Co., Brockton, Mass. 1,635,852; July 12.
- MacDonald, Lawrence C., Alamosa, Colo. Corner plate. 1,622,656; Mar. 29.
- Macdonald, Lester S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,644,331; Oct. 11.
- MacDonald, Margaret B., assignor to University of Tennessee, Knoxville, Tenn. Removal of undesirable foreign flavors and odors from milk, cream, and other milk products. 1,644,842; Oct. 11.
- Macdonald, Ralph L., Niagara Falls, N. Y. Shield for the protection of valuables during transfer. 1,647,572; Nov. 1.
- MacDonald, William, and H. Inverness, Scotland. Waving of hair. 1,630,396; May 31.
- MacDonald, William W. (See Reach, M. B., and MacDonald.)
- MacDougald, Snow F., Isle Maligne, Quebec, Canada. Sand valve for locomotives. 1,622,657; Mar. 29.
- MacDougall, Alexander, Baker, Oreg. Adjustable supporting means for display containers. 1,616,980; Feb. 8.
- MacDougall, Alexander, Baker, Oreg. Display container. 1,641,283; Sept. 6.
- MacDougall, Charles B., Seattle, Wash. Lighting bowl. Des. 71,843; Jan. 11.
- MacDougall, Harold, Maplewood, N. J. Nail buffer. 1,643,164; Sept. 20.
- MacDougall, Harold, Maplewood, assignor to W. G. Kendall, Newark, N. J. Vanity case. 1,616,381; Feb. 1.
- MacDougall, Harry W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system for automatic telephone switches. 1,617,405; Feb. 15.
- MacDow, John W., Newark, N. J. Loud speaker. Des. 72,559; May 3.
- MacDowell, Francis M., Fanwood, N. J., assignor to Power Specialty Company, New York, N. Y. Super-heater boiler. 1,627,918; May 10.
- MacDowell, John A., St. Louis, Mo. Baffle wall tool. 1,616,458; Feb. 8.
- MacDowell, John A., St. Louis, Mo. Tool for placing clearance wrappers on boiler tubes. 1,643,022; Sept. 20.
- MacEwen, Stuart R., Toronto, Ontario, Canada. Preparation of solutions of derivatives of dioxylaminosaccharose. 1,615,959; Feb. 15.
- Macey, Frank, Milwaukee, Wis. Antifriction tip for furniture. 1,626,946; May 3.
- MacFadden, Wilford C., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Radio system. 1,639,042; Aug. 16.
- MacFarland, Allis M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supporting electrical conductors. 1,654,338; Dec. 27.
- MacFarland, John B., Vancouver, British Columbia, Canada. Aeroplane. 1,654,006; Dec. 27.
- MacFarlane, George F., Wilkes-Barre, Pa. Lubricating and protecting means for spinning mechanisms. 1,631,973; June 14.
- MacFarlane, Reginald. (See Weinang, E., and MacFarlane.)
- MacFarlane, Robert F., London, England. Machine for husking almonds and other kernels or the like. 1,623,789; Apr. 5.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Meter casing. 1,624,417; Apr. 12.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnet. 1,626,681; May 3.
- MacGibbon, David, Manchester, N. H. Braiding machine. 1,618,458; Feb. 22.
- MacGillivray, Ina M. (See MacGillivray, Walter V. and I. M.)
- MacGillivray, Walter V. and I. M., St. Petersburg, Fla. Composition for transferring wall-paper designs to textiles. 1,652,949; Dec. 13.
- MacGillivray, Charles R. (See Glen, Lanchlan M., assignor.)
- MacGlashan, Lee J., Motley, Minn. Ignition switch and safety device. 1,614,376; Jan. 11.
- MacGregor, James E., Kansas City, Mo. Apparatus for permanently waving or curling hair. 1,617,260; Feb. 8.
- MacGregor, Peter G., Pequannock, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J. Fire extinguisher. 1,628,255; May 10.
- MacGregor, Peter G., Pequannock, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J. Indicating device. 1,635,555; July 12.
- MacGregor, Peter G., Pequannock, assignor to Pyrene Manufacturing Company, Newark, N. J. Fire extinguisher. 1,653,865; Dec. 27.
- MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,615,334; Jan. 25.
- MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,627,335; May 3.
- MacGregor, Wallace F., Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,632,745; June 14.
- Mach, Charles J., Mifflin Township, Allegheny County, Pa. Moving-target game. 1,640,954; Aug. 30.
- Mach, Milton M., Omaha, Nebr. Fountain pen. 1,625,880; Apr. 26.
- Machava, Frank, South Greensburg, Pa. Locking mechanism for sliding car doors. 1,628,167; May 10.
- Macheroux, Louis, Chicago, Ill. Extensible buckle and the like. 1,622,954; Mar. 29.
- Machin, Frank R., London, England. Variable electric condenser. 1,641,979; Sept. 13.
- Machin, John S., Ratcliff, London, assignor to Batger & Company, Limited, London, England. Toy bomb. 1,650,762; Nov. 29.
- MacIet, Adolph W., Elizabeth, N. J. Tool for drilling concrete. 1,629,581; May 2.
- MacIett, Raymond B., New York, N. Y. Manufacture of luminous electrical discharge tubes. 1,618,767; Feb. 22.
- MacIett, Raymond R., assignor to Rainbow Light, Inc., New York, N. Y. Neon tube. 1,628,258; May 10.
- MacIton, Ben, New York, N. Y. Heddle for jacquard weaving. 1,648,139; Nov. 8.
- MacIowicz, Helen, Brooklyn, N. Y. Support for window shades and curtains. 1,649,717; Nov. 15.
- MacIrish, Victor A. (See Heyser, John A., assignor.)
- MacIvairn, Karl M., New York, N. Y., assignor to Radio Corporation of America. Vacuum-tube circuits. 1,614,482; Jan. 18.
- MacIndoe, John F., East Falls, Philadelphia, Pa. Lubricator. 1,634,109; June 28.
- MacIndoe, John F., Philadelphia, Pa. Pressure lubricator. 1,644,343; Oct. 4.
- MacIntosh, Charles A., Spencerport, N. Y. Implement for removing covers or closures. 1,645,107; Oct. 11.
- Mack, Hans P., Salt Lake City, Utah. Securing means for pneumatic tires. 1,653,054; Dec. 20.
- Mack Joseph H., Passaic, N. J., assignor to M. Lowenstein & Sons, Inc., New York, N. Y. Printed fabric. Des. 72,378; Apr. 5.
- Mack, Perry E., assignor, by mesne assignments to Briggs & Stratton Corporation, Milwaukee, Wis. Governor for gas engines. 1,613,470; Jan. 4.
- Mack, Perry E., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Gas-engine starter. 1,644,932; Oct. 11.
- Mack, Richard, Berlin-Tempelhof, Germany. 1,636,676; July 19.
- Mack, William H. (See Knapp, Charles P., assignor.)
- Mack, Edward, Philadelphia, Pa. Drier-heating system. 1,623,425; Apr. 5.
- Mackay, George M. J., and E. E. Charlton, Schenectady, N. Y., assignors to General Electric Company. Electron-discharge device and operating the same. 1,648,458; Nov. 8.
- Mackay, Henry S., London, England. Roasting metallic ores. 1,647,050; Oct. 25.
- Mackay, John, Audubon, N. J., assignor to Thomas Savill's Sons, Philadelphia, Pa. Faucet. 1,653,639; Dec. 27.
- Mackay, John F., Lancaster, Pa. Egg tray for incubators. 1,632,239; June 14.
- Mackay, John F., Lancaster, Pa. Incubator. 1,634,909; July 5.
- Mackay, John F., Lancaster, Pa. Egg tray for incubators. 1,648,186; Nov. 8.
- Mackay, Lurline E., Burlington, Iowa. Stair cleaner. 1,633,119; June 21.
- Mackay, Philip A., assignor to National Metal and Chemical Bank Limited, London, England. Production of titanium oxide. 1,613,234; Jan. 4.
- Mackay, Horace D. (See Kent, S. S., and MacKaye.)
- Mackenzie, Aleck. (See Dent, L. M. E., Mackenzie, and White.)
- Mackenzie, Alexander S., assignor to Clayton Gin Compress Company, Houston, Tex. Fastener. 1,617,818; Feb. 15.
- Mackey, Donald, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,650,762; Nov. 29.
- Mackenzie, Fred L. (See Goddu, G., and Mackenzie.)
- Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes and insole therefor. 1,638,946; Aug. 16.
- Mackenzie, Fred L., Beverly, and G. Goddu, Winchester, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,653,640; Dec. 27.
- Mackenzie, Frederick J., Trenton, N. J. Hydraulic brake mechanism. 1,620,115; Mar. 8.
- Mackenzie, George W. (See Woodruff, F., and Mackenzie.)
- Mackenzie, George W., Beaver, Pa. Liquid-dispensing apparatus. 1,613,711; Jan. 11.
- Mackenzie, George W., Beaver, assignor to Correct Measure Company, Rochester, Pa. Liquid-dispensing apparatus. 1,617,531; Feb. 15.

- MacKenzie, George W., Beaver, assignor to Correct Measure Company, Rochester, Pa. Liquid-measuring tank. 1,631,541; June 7.
- MacKenzie, George W., Beaver, Pa., assignor to Correct Measure Company, Rochester, Pa. Liquid-dispensing apparatus. 1,635,720; July 12.
- Mackenzie, Joseph W., Morrisville, Pa. Dual-socket base and plug for electric lights. 1,649,906; Nov. 22.
- Mackenzie, Kenneth, Taunton, Mass. Nut-locking device. 1,637,620; Aug. 2.
- Mackenzie, Philip, San Francisco, Calif. Grease gun. 1,621,172; Mar. 15.
- Mackenzie, Philip, San Francisco, Calif. Clutch mechanism for a constant-mesh gear transmission. 1,638,590; Aug. 9.
- Mackenzie, William A., assignor to American Battery Products Corporation, Long Beach, Calif. Sealing ring. 1,642,550; Sept. 13.
- Mackey, Harry J., assignor to The Combination Fountain Co., Decatur, Ill. Soda-fountain refrigerator. 1,641,980; Sept. 13.
- Mackie-Lovejoy Manufacturing Co. (See Walker, William H., assignor.)
- Mackie, Peter H., Clinton, Wash. Automatic rotary pulverizing cultivator. 1,641,393; Sept. 6.
- MacKinnon, John R., Boston, Mass. Saliva ejector. 1,620,773; Mar. 15.
- Mackintosh, Neil G., Los Angeles, Calif. Combined table and camp kit. 1,648,922; Oct. 25.
- Mackintosh, John, and Sons, Limited. (See Bradwell, Harry, assignor.)
- Mackintosh, William B. (See Anthony, W. C., and Mackintosh.)
- MacLaren Electric Appliance Corporation, The. (See MacLaren, Frederick B., assignor.)
- MacLaren, Frederick B., Jamaica, assignor to The MacLaren Electric Appliance Corporation, New York, N. Y. 1,651,826; Dec. 6.
- MacLachlan, William F., Chicago, Ill. Antithumb-suck device. 1,652,867; Dec. 13.
- Mackley, Alfred H. (See Curtis, A. H., Wright, and Mackley.)
- Macklin, Jesse W., Anita, Iowa. Osteopathic operating table. 1,626,091; Apr. 26.
- Macklin, Justin W., Lakewood, assignor to The American Multigraph Company, Cleveland, Ohio. Printing-strip mounting. 1,649,606; Nov. 15.
- MacLachlan, Kellogg S., St. Catharines, Ontario, assignor to Lincoln Pulp and Paper Company, Limited, Merriton, Canada. Preparing transparent paper with opaque markings. 1,645,197; Oct. 25.
- MacLagan, Hector P., assignor to McIntosh Electrical Corporation, Chicago, Ill. Foot switch. 1,625,481; Apr. 19.
- MacLaren, Alfred A., Boston, Mass. Apparatus for forming articles from sheets of material. 1,619,210; Mar. 1.
- MacLaren, Fred B. (See Braselton, C. H., and MacLaren.)
- MacLaren, James G., Syracuse, N. Y., assignor, by mesne assignments, to The Lamson Company. Pneumatic-dispatch carrier. 1,613,471; Jan. 4.
- MacLaren, James G., assignor to The Lamson Company, Syracuse, N. Y. Carrier-distributing apparatus. 1,613,565; Jan. 4.
- MacLaren, James G., Mamaroneck, N. Y., assignor, by mesne assignments, to The Lamson Company. Pneumatic-dispatch-tube apparatus. 1,615,990; Feb. 1.
- MacLaren, James G., assignor to The Lamson Company, Syracuse, N. Y. Power-control apparatus for pneumatic-dispatch systems. 1,625,903; Apr. 26.
- MacLaren, James G., assignor to The Lamson Company, Syracuse, N. Y. Carrier distributing and selecting apparatus. 1,628,607; May 10.
- MacLaren, James G., assignor to The Lamson Company, Syracuse, N. Y. Lower controller. 1,637,314; July 26.
- MacLaren, James G., assignor to The Lamson Company, Syracuse, N. Y. Message carrier. 1,638,047; Aug. 9.
- MacLaren, Oliver M. (See Denker, Charles T., assignor.)
- MacLaron, Robert, Culross, Fife, Scotland. Temperature-control valve. 1,640,514; Oct. 25.
- MacLaurin, Robert D., Lakewood, and C. C. Smith, Cleveland, Ohio. Garbage reduction. 1,626,853; May 3.
- MacLean, Douglas J., West Hill, Ontario, Canada. Automatic feed-controlling system for mechanical stokers. 1,649,537; Nov. 15.
- MacLean, Edna W. (See Engendahl, H. L., and MacLean.)
- MacLean, John, Pueblo, Colo. Loose-leaf binder. 1,617,958; July 15.
- Macloed, Arthur W., London, England. Measuring by volume petrol and other fluids. 1,624,750; Apr. 12.
- Macloed, Donald K. (See Austin, A. O., and Macloed.)
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Safety car-control equipment. 1,621,328; Mar. 15.
- Maclore, Albert, Woonsocket, R. I. Scalpel. 1,636,062; July 19.
- MacMahon, James H., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Chlorinating solutions. 1,616,134; Feb. 1.
- MacMichael, William. (See Chester, T., and MacMichael.)
- MacMillan Campbell, Schenectady, N. Y., assignor to General Electric Company. Centrifugally-operated contact-making device. 1,618,766; Feb. 22.
- MacMillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Alternating-current commutator machines. 1,622,596; Mar. 29.
- MacMillan, Harry, Philadelphia, Pa. Tank lever. 1,621,122; Mar. 15.
- MacMillan, Harry, Philadelphia, Pa. Lavatory fixture. 1,642,256; Sept. 13.
- MacMullen, William, Jr. (See McDonald, I. P., and MacMullen, Jr.)
- MacMullin, Robert B., Niagara Falls, assignor to The Mathieson Alkali Works, New York, N. Y. Manufacture of hypochlorites. 1,632,433; June 14.
- MacMullin, Robert B., Niagara Falls, assignor to The Mathieson Alkali Works, New York, N. Y. Manufacture of hypochlorites. 1,632,484; June 14.
- MacMullin, Robert B., Niagara Falls, assignor to The Mathieson Alkali Works, New York, N. Y. Manufacture of hypochlorites. 1,632,485; June 14.
- MacMullin, Robert B., and R. E. Gegenheimer, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of alcohols. 1,641,544; Sept. 6.
- MacMurchy, John A., Ridley Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Metallic packing. 1,639,521; Aug. 16.
- MacNaughton, Alan, Edinburgh, Scotland. Sighting attachment for shotguns. 1,612,877; Jan. 4.
- MacNeil, John B., Williamsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Throttling device. 1,645,288; Oct. 11.
- MacNichol, Walter M. (See Cooke, Conway W., assignor.)
- MacNicol, Elmo P., Memphis, Tenn. Illuminated sign. 1,648,506; Sept. 27.
- MacNicol, George, Gloucester, Mass. Recording scale. 1,629,221; May 17.
- Macomber, Herbert H., assignor to Flint & Walling Mfg. Co., Kendallville, Ind. Windmill. 1,626,203; Apr. 26.
- Macomber, Herbert H., assignor to Flint & Walling Mfg. Co., Kendallville, Ind. Pumping installation. 1,649,171; Nov. 15.
- Macomber, James L., Des Moines, Iowa. Oven for barbecued meats. 1,616,663; Feb. 8.
- Macomber, Stanley, Massillon, Ohio. Structural unit. 1,614,247; Jan. 11.
- Macomber, Stanley, Massillon, Ohio. Pipeproof construction and clips for use thereon. 1,614,248; Jan. 11.
- Macomber, Stanley, Massillon, Ohio. Connecting means for structural members. 1,614,249; Jan. 11.
- Macomber, Stanley, Massillon, Ohio. Machine for assembling steel structural units. 1,616,335; Jan. 25.
- Macomber, Stanley, Massillon, assignor to The Macomber Steel Company, Canton, Ohio. Structural unit. 1,651,032; Nov. 29.
- Macomber, Stanley, Massillon, assignor to The Macomber Steel Company, Canton, Ohio. Skeleton metal element for reinforced-concrete columns. 1,653,055; Dec. 20.
- Macomber Steel Company, The. (See Macomber, Stanley, assignor.)
- Macon, Cyrene M., Dallas, Tex. Dishwasher. 1,631,045; May 31.
- Macorn, Theodore K., and J. A. Pozera, Zeigler, Ill. Sawmill rip cutler and cigar box. 1,627,790; May 10.
- MacPherson, Earle S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Poppet valve. 1,616,538; Feb. 8.
- MacPherson, Earle S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Pump. 1,639,779; Aug. 23.
- MacPherson, John H., McKeesport, Pa. Vehicle lamp. 1,641,041; Aug. 30.
- MacPherson, John L., Glasgow, Scotland, and E. N. Sorensen, New York, N. Y. Electric valve-operating gear. 1,618,937; Feb. 22.
- Macpherson, Thomas G., et al. (See Kaser, Walter I., assignor.)
- MacQuarrie, Archibald E., Minneapolis, Minn. Educational device. 1,621,262; Mar. 15.
- MacRae, Duncan, East Orange, N. J., assignor to Westinghouse Lamp Company. Incandescent electric lamp. 1,624,109; Apr. 12.
- MacRae, Duncan, East Orange, and H. K. Richardson, Newark, N. J., assignors to Westinghouse Lamp Company. Getter and the application thereof. 1,623,351; Apr. 5.
- MacReady, George A., Bakersfield, Calif. Making production tests in well drilling. Re16,563; Mar. 1.
- Macvey, Gertrude, N. Y. Cigarette box. 1,619,622; Mar. 1.
- MacVicar, James L., Newport News, Va. Aircraft design. 1,627,556; May 10.
- Macy, Alfred J., assignor to Macy Art Process Corporation, Chicago, Ill. Advertising display. 1,614,748; Jan. 18.
- Macy, Alfred J., assignor, by mesne assignments, to The Macy Art Process Corporation, Chicago, Ill. Automatic releasing mechanism for locks. 1,627,189; May 3.
- Macy Art Process Corporation. (See Macy, Alfred J., assignor.)
- Macy, Frank, Converse, Ind. Packing. 1,627,791; May 10.
- Macy, Frank, Converse, Ind. Serving dish. 1,650,457; May 10.
- Macy, Frederick S., Brooklyn, N. Y. Antidiabetic substance. 1,626,044; Apr. 26.
- Macy, R. H., & Co. (See Timpson, Thomas W., assignor.)

- Maddala, Anthony S. (See Williamson, Russell B., assignor.)
- Madaris, Clint, Chattanooga, Tenn., assignor to Scott & Williams, Incorporated, New York, N. Y. Safety device for knitting machines. 1,639,522; Aug. 16.
- Madden, Bernard J., Duluth, Minn. Box for pouring steel ingots. 1,638,992; June 28.
- Madden, Charles A., Brooklyn, N. Y. Game apparatus. 1,616,270; Feb. 1.
- Madden, Edward J., Detroit, Mich. Automobile windshield. 1,645,438; Oct. 11.
- Madden, Harry D., Newark, N. J., assignor to Westinghouse Lamp Company. Method and machine for electric welding. 1,613,957; Jan. 11.
- Madden, Harry D., Newark, N. J., assignor to Westinghouse Lamp Company. Machine for deforming glass articles. 1,626,683; May 3.
- Madden, Harry D., Newark, N. J., assignor to Westinghouse Lamp Company. Automatic soldering machine for lamp bases. 1,651,399; Dec. 6.
- Madden, Harry D., Newark, and J. J. Higgins, East Orange, N. J., assignors to Westinghouse Lamp Company. Automatic cut-tube-sorting machine. 1,623,352; Aug. 5.
- Madden, Harry D., Newark, and J. J. Higgins, East Orange, N. J., assignors to Westinghouse Lamp Company. Glass-rod-cutting machine. 1,626,851; May 3.
- Madden, Harry D., Newark, and J. J. Higgins, East Orange, N. J., assignors to Westinghouse Lamp Company. Tipping torch for exhaust machines. 1,647,644; Nov. 1.
- Madden, James P., Bethlehem, Pa. Entrainment gearing. 1,633,185; June 21.
- Madden, John, Detroit, Mich. Lock nut. 1,627,745; May 10.
- Madden, Timothy, Egg Harbor, Wis. Harrow. 1,646,549; Oct. 25.
- Madden, Willie A., Palacios, Tex. Piston-ring tool. 1,645,200; Oct. 11.
- Madder, Harold B., Sharon, Pa., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Shock-absorbing mechanism. 1,643,053; Sept. 20.
- Maddox, John W., Marion, Md. Agricultural machine. 1,643,625; Sept. 27.
- Maddox, Notley, Los Angeles, Calif. Adjustable sawing machine. 1,620,370; Mar. 8.
- Maddox, Notley, Los Angeles, Calif. Adjustable boring machine. 1,620,371; Mar. 8.
- Madgall, Walter J., Minneapolis, Minn. Heat-generating apparatus. 1,616,271; Feb. 1.
- Mader, David C., St. Louis, Mo. Game apparatus. 1,622,330; Mar. 29.
- Mader, Joseph, assignor, by mesne assignments, to New Deemer Tractor Company, Minneapolis, Minn. Traction-machining hitch for seeders. 1,633,821; June 28.
- Mader, Joseph M., Belleville, Ill. Internal-combustion-engine attachment. 1,623,940; Apr. 5.
- Mader, Otto, assignor to H. Junkers, Dessau, Germany. Scavenging pump of internal-combustion engines. 1,629,878; May 29.
- Madge, Francis D., Sound Beach, Conn. Spring cover. 1,625,861; Apr. 26.
- Madison, John H., assignor of one-half to R. Frick, Burlington, Iowa. Brake shoe. 1,644,598; Oct. 4.
- Madison-Kipp Corporation. (See Coles, Wilfred G., assignor.)
- Madison-Kipp Corporation. (See Korsmo, Torbjorn C., assignor.)
- Madison Silo Company. (See Woody, Clyde C., assignor.)
- Madison Tool and Stamping Works. (See Kelley, Victor H., assignor.)
- Madland, Gabriel, and W. W. Darrow, assignors to Camel Company, Chicago, Ill. Door operating and sealing mechanism. 1,654,180; Dec. 27.
- Madorsky, Samuel L., assignor to Gathmays Research Corporation, Chicago, Ill. Apparatus for the production of pure metal. 1,642,683; Sept. 20.
- Madsen, Einar H., Chokio, Minn. Adjustable spoke. 1,620,905; Mar. 15.
- Madsen, Fred T. (See Ray, A. J., Madsen, and Obergfell.)
- Madsen, Fred T., Maywood, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,629,516; May 24.
- Madsen, Fred T., Forest Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Service observing apparatus for automatic telephone systems. 1,640,085; Aug. 23.
- Madsen, Fred T., Forest Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Zone-metering telephone system. 1,653,300; Dec. 20.
- Madsen, Gustav N., assignor of one-third to C. R. Lindh and one-third to E. B. Gustafson, Minneapolis, Minn. Electric water heater. 1,620,117; Mar. 8.
- Madsen, Gustav N., Minneapolis, Minn. Velocipede. 1,652,284; Dec. 13.
- Madsen, Mads H., Kimballton, Iowa. Hay-handling apparatus. 1,643,078; Sept. 20.
- Martin, Martin, Montclair, Park, Calif. Sucker-rod clamp. 1,617,532; Feb. 15.
- Madsen, Martin, Monterey Park, Calif. Apparatus for sizing paving material. 1,617,910; Feb. 15.
- Madsen, Norman, Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 1,627,291; May 3.
- Madsen, Sern, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Feeding machine. 1,622,836; Mar. 29.
- Madsen, Sern, assignor to Curtis Companies, Inc., Clinton, Iowa. Veneer-core machine. 1,635,149; July 6.
- Madson, Ernest C. (See Andersen, F. C., Madson, and Chapman.)
- Madson, Henry, Pelican Rapids, Minn. Power potato grader. 1,617,645; Feb. 15.
- Madson, Gus, Coeur d'Alene, Idaho. Wheeled toy. 1,630,192; May 24.
- Maehl, Nels, Los Angeles, Calif. Stone-dressing tool. 1,622,915; Mar. 29.
- Maehler, Arthur, Chicago, Ill. Safety fuel supply for drying and enameling ovens. 1,614,798; Jan. 18.
- Maehler, Arthur, Chicago, Ill. Drying and enameling oven control. 1,636,140; July 19.
- Maehler, Arthur, and K. Siegle, Chicago, Ill.; said Siegle assignor to said Maehler. Method of and apparatus for drying and enameling. 1,638,811; Aug. 9.
- Maehler, Arthur, and H. Thate, Chicago, Ill.; said Thate assignor to said Maehler. Drying and enameling oven. 1,638,812; Aug. 9.
- Maerk, Frank P., Chicago, Ill. Adjustable shore. 1,648,817; Nov. 8.
- Maerten, Christian, Jr., assignor to Artizan Factories, Inc., North Tonawanda, N. Y. Automatic musical instrument. 1,633,487; June 21.
- Maerz, Frederick K., assignor to B. F. Klein, doing business as The Kayline Co., Cleveland, Ohio. Lamp shade. Des. 72,904; June 21.
- Maerz, Frederick K., assignor to B. F. Klein, doing business as The Kayline Co., Cleveland, Ohio. Lamp shade. Des. 72,905; June 21.
- Maerz, Frederick K., assignor to B. F. Klein, doing business as The Kayline Co., Cleveland, Ohio. Lamp shade. Des. 73,438; Sept. 13.
- Maerz, Frederick K., assignor to The Kayline Company, Cleveland, Ohio. Chandelier. Des. 73,150; Dec. 27.
- Maerz, Frederick K., assignor to The Kayline Company, Cleveland, Ohio. Chandelier. Des. 73,151; Dec. 27.
- Maerz, Frederick K., assignor to The Kayline Company, Cleveland, Ohio. Chandelier. Des. 73,152; Dec. 27.
- Maehlen, Frederick. (See Colby, E. A., Maehlen, and Van Halbeek.)
- Maffel, Firm of J. A. (See Wirth, Heinrich, assignor.)
- Magann, Merritt W., assignor to St. Louis Steel Ball Corporation, St. Louis, Mo. Metallic-ball-making machine. 1,629,464; May 17.
- Magarey, Joseph, Schenectady, N. Y. Steam boiler. 1,634,787; July 6.
- Magaton, Silvio, New York, N. Y. Track-gauging device. 1,615,714; Jan. 25.
- Magazine Repeating Razor Company. (See Schick, Jacob, assignor.)
- Magee, Charles L., Washington, D. C. Lubricant-filling device. 1,650,021; Nov. 22.
- Magee, Chauncey L. C., Chicago, Ill. Furnace grate. 1,653,113; Dec. 20.
- Magee, Ernest M., Providence, R. I. Textile fabric or similar article of manufacture. Des. 72,626; May 10.
- Magee, John, Hartford, Conn. Toothbrush and container for same. 1,619,946; Mar. 8.
- Magee, William H., assignor to Fostoria Glass Company, Moundsville, W. Va. Bowl. Des. 72,861; June 14.
- Magee, William H., assignor to Fostoria Glass Company, Moundsville, W. Va. Comfort. Des. 72,862; June 14.
- Magee, William H., assignor to Fostoria Glass Company, Moundsville, W. Va. Combined centerpiece and flower block. Des. 73,411; Sept. 6.
- Maggio, Frank, Philadelphia, Pa. Radiocabinet. Des. 74,018; Dec. 6.
- Maglio, Salvatore, Pittsburgh, Pa. Trolley harp and contact device. 1,626,257; Sept. 13.
- Maglioli, Luigi, Sassari, Italy. Assignor to the Firm: Carl Zeiss, Jena, Germany. Device for determining the field of vision. 1,618,291; Feb. 22.
- Magill, Charles E., assignor to The Aluminum Company of America, Cleveland, Ohio. Mold for casting metals. 1,646,643; Dec. 30.
- Magill, Donald G., Brooklyn, assignor to American Can Company, New York, N. Y. Pouring-spout container. 1,624,268; Apr. 12.
- Magill, William H., et al. (See La Roche, Olivier, assignor.)
- Maginn, James J. (See Emery, L. S., and Maginn.)
- Maginnis, Michael F., Philadelphia, Pa. Artificial fuel and making same. 1,615,463; Jan. 25.
- Maginnis, William J., assignor to Royal Electrotrope Company, Philadelphia, Pa. Incorporating engraved plates with electros in a solid plate. 1,643,390; Sept. 27.
- Magiri, P. H., Foundry and Furnace Works. (See Laris, William H., assignor.)
- Magirus, C. D., Aktiengesellschaft. (See Hetzelberger, Franz, assignor.)
- Magirus, C. D., Aktiengesellschaft. (See Mattes, Hermann, assignor.)
- Magirus, C. D., A.-G. (See Mayer, Fritz, assignor.)
- Magister, Horace E., Kingston, Mass. Cranberry-harvesting apparatus. 1,629,831; May 24.
- Maglano, Thomas, River Forest, Ill. Coffee maker. 1,638,013; Aug. 9.

- Magnano Corporation. (See Magnano, Sebastiano, assignor.)
- Magnano, Sebastiano, assignor to Magnano Corporation, Lawrence, Mass. Stop mechanism. 1,630,708; May 31.
- Magnano, Sebastiano, assignor to Magnano Corporation, Lawrence, Mass. Strand-manipulating device. 1,650,287; Nov. 22.
- Magnavox Company, The. (See Loughheed, Victor, assignor.)
- Magnavox Company, The. (See Metcalf, Herbert E., assignor.)
- Magnavox Company, The. (See Pridham, E. S., and Jensen, assignors.)
- Magnavox Company, The. (See Schoenfeld, Joseph, assignor.)
- Magnavox Company, The. (See Summers, Frank E., assignor.)
- Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate. (See Bing, Julius, assignor.)
- Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet Apparate. (See Philipp, Richard, assignor.)
- Magnetic Manufacturing Co. (See Bethke, John P., assignor.)
- Magnetic Signal Co. (See Harris, Ford W., assignor.)
- Magnet-Werk G. m. b. H. Eisenach, Spezialfabrik für Elektromagnet-Apparate. (See Bing, Julius, assignor.)
- Magnetos Lucifer, Societe Anonyme. (See Pattay, M. A. and Jaquemot, assignors.)
- Magnifico, Nicola, Rome, Italy. Phonograph. 1,619,623; Mar. 1.
- Magnus, Elmer G., and H. C. Dosch, assignors to Individualizing Company of Illinois, Chicago, Ill. Slug holder. 1,627,398; May 3.
- Magnus Fruit Products Co. (See Leibing, William E., assignor.)
- Magnussen, Erik, assignor to Gorham Mfg. Co., Providence, R. I. Covered dish. Des. 72,775; May 31.
- Magnussen, Erik, assignor to Gorham Mfg. Co., Providence, R. I. Loving cup. Des. 72,863; June 14.
- Magnussen, Erik, assignor to Gorham Mfg. Co., Providence, R. I. Candlestick. Des. 73,003; July 5.
- Magnussen, Erik, assignor to Gorham Mfg. Co., Providence, R. I. Table centerpiece. Des. 73,003; July 19.
- Magnusson, John A., Tacoma, Wash. Locomotive main-drive-axle journal. 1,647,287; Nov. 1.
- Magoudeaux, Roger, Paris, France. Manufacture of granular cellulose. 1,628,549; May 10.
- Magor Car Corporation. (See Magor, Robert J., assignor.)
- Magor, Robert J. (See Cartzdafner, Roy E., assignor.)
- Magor, Robert J., Montreal, Quebec, Canada, assignor to Magor Car Corporation, New York, N. Y. Combined draft-hook bar and step for freight cars. 1,613,180; Jan. 4.
- Magor, Robert J., assignor to Magor Car Corporation, New York, N. Y. Partition end for freight cars. 1,627,980; May 10.
- Magor, Robert J., Montreal, Quebec, Canada, assignor to Magor Car Corporation, New York, N. Y. Corner post for freight cars. 1,627,981; May 10.
- Magor, Robert J., Montreal, Quebec, Canada, assignor to Magor Car Corporation, New York, N. Y. Partitionless cane car. 1,640,785; Aug. 30.
- Maguet, Martial, Le Tell, assignor to La Societe Anonyme des Chaux et Ciments de Lafage et du Tell, Le Viviers (Ardeche), France. Treatment of slags by fluids under pressure. 1,627,982; May 10.
- Maguire, Robert. (See Ferguson, J. J., Maguire, Ferguson, Anderson, and McGuire.)
- Mahaffey, Omer H., Edmonton, Alberta, Canada. Cue-tip chalk. 1,654,424; Dec. 27.
- Mahan, Edward D., and J. I. Mahan, Pittsburgh, Pa. Metallic keg. 1,634,035; June 28.
- Mahan, James I. (See Mahan, Edward D., and J. I.)
- Mahan, Joseph R., assignor to The National Supply Company, Toledo, Ohio. Polished-rod grip. 1,622,331; Mar. 20.
- Maher, Joseph A., Stockton, Ill. Rail-repairing device. 1,620,906; Mar. 15.
- Maher, William J., Woonsocket, R. I. Presser member for flyer machines. 1,621,848; Mar. 22.
- Maheras, Costas J., Boston, Mass. Agricultural cultivator and weed cutter. 1,640,788; Aug. 30.
- Maher, Ernst, Neenah, and H. A. Rothchild, Appleton, assignors to Kimberly-Clark Company, Neenah, Wis. Preparing stuff for paper making. 1,650,022; Nov. 22.
- Mahler, John J., New York, and H. D. Webb, Rochester, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,640,362; Aug. 30.
- Mahler, Paul, assignor to Darco Sales Corporation, New York, N. Y. Reactivating purifying agents. 1,617,533; Feb. 15.
- Mahloy, Charles, Roanoke, Va. Letter scale. 1,641,596; Sept. 6.
- Mahnke, John A., Los Angeles, Calif. Identification button. 1,630,855; May 31.
- Mahnken, Frank, Beardstown, Ill. Ventilated seat. 1,614,622; Jan. 18.
- Mahon, R. C., Company, The. (See Miller, William G., assignor.)
- Mahon, Russell C., Detroit, Mich. Pneumatic conveyor. 1,641,181; Sept. 6.
- Mahon, Thomas C., Vancouver, British Columbia, and J. E. Harrison, Victoria, British Columbia, Canada. Switch. 1,630,709; May 31.
- Mahoney, Anna B., Vacaville, Calif. Shoulder strap holder for armpit shields. 1,641,004; Aug. 30.
- Mahoney, Clarence. (See Conwell, W., and Mahoney.)
- Mahoney, Clarence L., Washington, D. C. Toilet-seat cover. 1,643,418; Sept. 27.
- Mahoney, David J., Bayonne, N. J. Marine toilet. 1,650,370; Nov. 22.
- Mahoney, Frank D., San Anselmo, Calif. Apparatus for washing vehicles. 1,636,190; July 19.
- Mahoney, Frank J., Saticoy, Calif. Reversible-draft, individual-bird circulating apparatus. 1,621,594; Mar. 22.
- Mahoney, John P., assignor of one-half to M. J. Donohue, Amsterdam, N. Y. Curtain hanger. 1,654,222; Dec. 27.
- Mahoney, Myles, Montreal, Quebec, Canada. Locomotive boiler. 1,629,720; May 24.
- Mahr, George, Jr. (See Eggers, W. M., and Mahr.)
- Mahr, Hermann W. (See Calcott, W. S., Hitch, and Mahr.)
- Mahr, Julius A., assignor to Cozy Baby Carriage, Co., Minneapolis, Minn. Twin baby carriage. 1,617,213; Feb. 8.
- Mahr Manufacturing Company. (See Anderson, Hilder A., assignor.)
- Maickel, Joseph, Butte, Mont. Demountable-drill-bit grinder. 1,627,983; May 10.
- Maier, Carl M., Akron, Ohio. Shoulder-strap fastener. 1,620,372; Mar. 8.
- Maier, Amelia. (See Remmele, Louis J., assignor.)
- Maier, George E., Los Angeles, Calif., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Charging valve. 1,627,443; May 3.
- Maier, John, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Stitch-forming mechanism for sewing machines. 1,640,201; Aug. 23.
- Maier, William, St. Louis, Mo. Fastening device. 1,629,113; May 17.
- Maile, Carrie A., Tulsa, Okla. Apple and pear corer. 1,639,523; Aug. 16.
- Mailley, Roy D., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric-lamp outfit. 1,630,090; May 24.
- Mailley, Roy D., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Circuit connector. 1,638,123; Aug. 1.
- Maillard, Eugene C., Lakewood, Ohio. Theatrical-make-up cabinet. 1,651,898; Dec. 6.
- Maillefer, Arthur, Lausanne, Switzerland. Blade pump. 1,619,429; Mar. 1.
- Maimin, David S., New York, N. Y., assignor to H. Maimin Company Incorporated. Cloth-cutting machine. 1,615,288; Jan. 25.
- Maimin, David S., New York, N. Y., assignor to H. Maimin Company Incorporated. Cloth-cutting machine. 1,646,031; Oct. 18.
- Maimin, H. Company Incorporated. (See Maimin, David S., assignor.)
- Maimin, Hyman, New York, N. Y., assignor to Maimin Speed Control Corporation. Mounting for sewing-machine motors. 1,632,795; June 21.
- Maimin Speed Control Corporation. (See Bangster, William, assignor.)
- Maimin Speed Control Corporation. (See Maimin, Hyman, assignor.)
- Main, Frank L., Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich. Pneumatic tire. 1,640,844; Aug. 30.
- Main, J. F., et al. (See Butterbaugh, Ralph B., assignor.)
- Maine, James. (See Engle, Andrew, assignor.)
- Maingonnat, Eugene, Paris, France. Closing of jars, bottles or the like. 1,613,472; Jan. 4.
- Maimin, John, and S. C. Nyberg, assignors to The Advance-Rumely Company, I. Porte Ind. Feeding device for thrashing machines. 1,614,964; Jan. 18.
- Maintenance Equipment Company. (See Warr, Harold G., assignor.)
- Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Window frame. 1,624,608; Apr. 12.
- Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Jig. 1,624,609; Apr. 12.
- Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Support for door bumpers. 1,624,960; Apr. 19.
- Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Door bumper. 1,627,190; May 3.
- Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Cowl ventilator. 1,632,796; June 21.
- Maitland, Charles L., Jasper, Ontario, Canada. Elevating and supporting bracket. 1,649,837; Nov. 22.
- Maitre, Alcide H., and V. H. G. Martin, Rouen, France. Keyboard musical instrument with electromagnetico-percussion. 1,628,507; Mar. 10.
- Maiwurm, Paul, San Diego, Calif. Beverage dispenser. 1,632,486; June 14.
- Majeski, Walter, Hoboken, N. J. Reed trimmer. 1,635,004; July 5.
- Malestic Company, The. (See Redrup, William D., assignor.)

- Majestic Machine & Tool Co. (See Kasdan, N., and Pollack, assignors.)
- Majestic Manufacturing Company. (See Morley, Guilford S., assignor.)
- Majestic Metal Specialties, Inc. (See Kasdan, N., and Pollack, assignors.)
- Mak, John L., London, and B. Taylor, Bilston, England. Distillation or evaporation of liquids. 1,614,483; Jan. 18.
- Maker, John A., Duluth, Minn. Humidifier. 1,644,737; Oct. 11.
- Maki, Elmer G., Virginia, Minn. Piston-ring remover and applicator. 1,651,492; Dec. 5.
- Makin, John S., Philadelphia, Pa. Automatic humidifier. 1,620,373; Mar. 8.
- Makowski, John F., Stockton, Calif., assignor, by mesne assignments, to Fire Proof Wall Company, Reno, Nev. Lathing structure for plaster walls. 1,616,831; Dec. 27.
- Makowski, John F., Stockton, Calif., assignor, by mesne assignments, to Fire Proof Wall Company, Reno, Nev. Mounting lathing structures for plaster walls. 1,619,947; Mar. 8.
- Makowski, John F., Stockton, Calif., assignor, by mesne assignments, to Fire Proof Wall Company, Reno, Nev. Wall construction. 1,627,913; May 10.
- Makowski, John F., Stockton, Calif., assignor, by mesne assignments, to Fire Proof Wall Company, Reno, Nev. Constructing plaster-tile walls. 1,649,813; Nov. 15.
- Makris, George, Massillon, Ohio. Bicycle. 1,630,442; May 31.
- Maksabedian, Harry B., Keene, N. H. Propelling mechanism. 1,617,261; Feb. 8.
- Malaval, Pierre, and R. P. E. Paquellier, Paris, France. Renovation of worn gun barrels and improvements in gun barrels. 1,635,724; July 12.
- Malcher, Otto, Chicago, Ill. Computer. 1,622,916; Mar. 29.
- Malcom, Robert, Chicago, Ill. Goggles. 1,649,838; Nov. 22.
- Malcom, Roscoe C., Wichita, Kans. Thermal switch. 1,627,519; May 3.
- Malcolm, Samuel W., Jacksonville, Fla. Electric water heater. 1,618,101; Feb. 15.
- Malcolmson Engineering and Machine Corporation. (See Komarek, Gustav, assignor.)
- Malla, Francis T., and E. A. Duddy, Perth, Western Australia, Australia. Telephone. 1,617,216; Feb. 8.
- Malin, Ernest C., Fertile, Saskatchewan, Canada. Animal snare. 1,624,003; Apr. 12.
- Malke, Sven, Milwaukee, Wis. Radiator. 1,627,914; May 10.
- Malke, Sven, Milwaukee, Wis. Testing and deflating machine. 1,628,168; May 10.
- Malkin, Abraham, Detroit, Mich. Coin-controlled machine. 1,644,067; Oct. 4.
- Malkin, Bernard A., Lachine, Quebec, Canada. Drive for paper-making machines. 1,616,352; Feb. 1.
- Malkin, Bernard A., Lachine, Quebec, Canada. Driving mechanism for paper-drying machines. 1,616,383; Feb. 1.
- Mallabar, Herbert J., Watford, England. Manufacture of cellulose acetate. 1,652,673; Dec. 13.
- Mallard, Logan L., Norfolk, Va. Clock. Des. 73,387; Aug. 30.
- Mallard, Logan L., Norfolk, Va. Toy lighthouse. 1,616,384; Feb. 1.
- Mallard, Logan L., Norfolk, Va. Walking top. 1,630,348; May 31.
- Mallen, Frank, Jr. (See Metcalf, V. E., and Mallen, Jr.)
- Mallett, Charles S., and W. J. Aldis, Toronto, Ontario, Canada, assignor to General Electric Company. Electric key socket. 1,628,415; May 10.
- Mallette, Cyrus. (See Skaggs, Mert C., assignor.)
- Mallette Earl C., Baskin, La. Demountable-rim wheel. 1,638,352; Aug. 9.
- Mallette, Lyric, Los Angeles, Calif. Spring clip. 1,617,070; Feb. 8.
- Malligan, Joseph, Point Marion, Pa. Transmission band. 1,619,983; Mar. 8.
- Mallinson, Archibald, Montreal, Quebec, Canada. Feed mechanism in a vegetable-packaging machine. 1,648,356; Nov. 8.
- Mallinson, H. R., & Co. (See Heinke, Alfred J., assignor.)
- Mallinson, H. R., & Co. Inc. (See Heinke, Alfred J., assignor.)
- Mallinson, H. R., Co. Inc. (See Podbradsky, Zdenko, assignor.)
- Mallon, Charles, New York, N. Y. Window-cleaner's safety device. 1,650,371; Nov. 22.
- Mallory, Aaron L., St. Petersburg, Fla. Eyeshade. 1,630,193; May 24.
- Mallory, Benjamin F., St. Petersburg, Fla. Smoking-pipe holder. 1,636,378; July 19.
- Mallory, Bonnie L., Cleveland, Ohio. Faucet. 1,634,672; July 5.
- Mallory, Edward B., Tenafly, N. J., and A. Roth, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Radiocabinet. Des. 72,627; May 10.
- Mallory, Edward B., Tenafly, N. J., and A. Roth, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Radiocabinet. Des. 72,628; May 10.
- Mallory, Edward B., Tenafly, N. J., and A. Roth, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Radiocabinet. Des. 72,629; May 10.
- Mallory Electric Corporation. (See Mallory, Marion, assignor.)
- Mallory, George P., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Apparatus for forming articles from paper or similar material. 1,628,267; May 10.
- Mallory, Harry C., Bellport, N. Y., assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Making expandable collapsible elements. 1,615,591; Jan. 25.
- Mallory, Harry C., Bellport, N. Y., assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Making expandable collapsible elements. 1,617,491; Feb. 15.
- Mallory, Harry C., Bellport, N. Y., assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Producing expandable collapsible elements. 1,617,857; Feb. 15.
- Mallory, Harry C., deceased, by S. R. Mallory, administratrix, Bellport, N. Y. Expandable collapsible element. 1,624,348; Apr. 12.
- Mallory, Harry C., deceased, by S. R. Mallory, administratrix, Bellport, N. Y.; said Harry C. Mallory assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Expandable-collapsible element. 1,639,742; Mar. 22.
- Mallory, Harry C., deceased, New York, N. Y.; S. R. Mallory, administratrix. Valve mechanism for engine-cooling systems. 1,641,341; Sept. 6.
- Mallory, Harry C., deceased, S. R. Mallory, administratrix, Bellport, N. Y. Thermostatic valve mechanism. 1,641,786; Sept. 6.
- Mallory, Harry C., deceased; S. R. Mallory, administratrix, Bellport, N. Y.; Harry C. Mallory, assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Producing expandable-collapsible elements. 1,647,185; Nov. 1.
- Mallory, Harry C., deceased, New York, N. Y.; S. R. Mallory, administratrix. Engine-cooling system. 1,651,827; Dec. 6.
- Mallory, Harry C., deceased, New York, N. Y.; S. R. Mallory, administratrix. Engine-cooling system. 1,651,828; Dec. 6.
- Mallory, Marion, Toledo, Ohio. Induction coil for ignition systems. 1,623,426; Apr. 5.
- Mallory, Marion, assignor to Mallory Electric Corporation, Toledo, Ohio. Self-induction producer. 1,621,552; Mar. 22.
- Mallory, Sue R., administratrix. (See Mallory, Harry C.)
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered cloth bridge-table cover or the like. Des. 72,163; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace table cover or the like. Des. 72,164; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace table cover or the like. Des. 72,165; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace table cover or the like. Des. 72,166; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace tray cover or the like. Des. 72,167; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace scarf or the like. Des. 72,168; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,169; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,170; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,171; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,172; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,173; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,174; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,175; Mar. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Lace doily or the like. Des. 72,219; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,220; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace table cover or the like. Des. 72,221; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,222; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,223; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace scarf or the like. Des. 72,224; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace mat or the like. Des. 72,225; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace tray cover or the like. Des. 72,226; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,227; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,228; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,229; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,230; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,231; Mar. 15.

- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,232; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,233; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace cover or similar article. Des. 72,234; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace scarf or the like. Des. 72,235; Mar. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Lace tray cover or the like. Des. 72,268; Mar. 22.
- Mallouk, Salim N., Brooklyn, N. Y. Lace scarf or the like. Des. 72,269; Mar. 22.
- Mallouk, Salim N., Brooklyn, N. Y. Lace scarf or the like. Des. 72,270; Mar. 22.
- Mallouk, Salim N., Brooklyn, N. Y. Lace scarf or the like. Des. 72,271; Mar. 22.
- Mallouk, Salim N., Brooklyn, N. Y. Lace scarf or the like. Des. 72,272; Mar. 22.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered cloth table cover or the like. Des. 73,045; July 12.
- Malloy, John J. (See Fagan, J. T. and Malloy.)
- Malloy, William W. San Pedro, Calif. Golf court. 1,625,265; Apr. 19.
- Maljuk, Assad M., assignor to Yankee Lock Corporation, New York, N. Y. Lockable cover for automobile fuel tanks. 1,624,840; Apr. 12.
- Malm, Carl J. (See Clarke, H. T. and Malm.)
- Malm, Carl J., assignor to Eastman Kodak Company, Rochester, N. Y. Making cellulose esters of organic acids. 1,645,915; Oct. 18.
- Malm, Frank S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Adhesive compound. 1,654,297; Dec. 27.
- Malm, Henry, New York, N. Y. Propeller. 1,634,329; July 5.
- Malm, Henry, New York, N. Y. Propeller. 1,634,330; July 5.
- Malm, John A., Denver, Colo. Reversing oil clutch. Re-16,668; July 5.
- Malm, John A., Denver, Colo. Oil clutch. 1,622,955; Mar. 29.
- Malm, John A., Denver, Colo. Combined oil clutch and hub for wheels. 1,622,956; Mar. 29.
- Malm, Walter R., San Francisco, Calif. Luggage carrier. 1,624,493; Apr. 12.
- Malm, William, New Orleans, La. Safety device for motion-picture-projecting machines. 1,628,258; May 10.
- Malmberg, Carl J., G. Surahammar, and J. G. Holanström, Saltjö-Storängen, Sweden. Apparatus for determining the percentage of carbon in a specimen of iron or steel. 1,626,005; Apr. 26.
- Malmé, Gustave A., Racine, Wis., assignor to E. N. Lodge, Columbus, Ohio. Mount for photographs and the like. 1,623,670; May 24.
- Malmgren, Edward A., Duluth, Minn. Car-tilting mechanism. 1,629,721; May 24.
- Malmgren, Edward A., Duluth, Minn. Plant service car. 1,632,240; June 14.
- Malmquist, Adolph K., South Bellingham, Wash., assignor, by mesne assignments, to Thermokeet Corporation, New York, N. Y. Canning apparatus. 1,643,990; Oct. 4.
- Malmström, Väino V., Espoo, N. J. Pump, compressor, or the like. 1,642,435; Sep. 13.
- Malocasy, Francis X., Upper Saddle River, N. J., assignor to International Banding Machine Company. Cigar-banding machine. 1,616,539; Feb. 8.
- Malocasy, Francis X., Upper Saddle River, N. J., assignor to International Banding Machine Company. Feeding device. 1,627,792; May 10.
- Malocasy, Francis X., Upper Saddle River, N. J., assignor to International Banding Machine Company. Automatic feeding mechanism. 1,627,793; May 10.
- Malocasy, Francis X., Upper Saddle River, N. J., assignor to International Banding Machine Company. Cigar-banding machine. 1,627,794; May 10.
- Malocasy, Francis X., Upper Saddle River, N. J., assignor to International Banding Machine Company. Adjusting mechanism. 1,634,718; July 5.
- Malocasy, Francis X., assignor to International Banding Machine Company. New York, N. Y. Feeding machine. 1,653,641; Dec. 27.
- Malocasy, Francis X., assignor to International Banding Machine Company, New York, N. Y. Cigar-band perforating and crimping mechanism. 1,653,642; Dec. 27.
- Malocasy, Francis X., assignor to International Banding Machine Company, New York, N. Y. Cigar-banding machine. 1,653,643; Dec. 27.
- Malocasy, Francis X., assignor to International Banding Machine Company, New York, N. Y. Moistening device for cigar-banding machines. 1,653,644; Dec. 27.
- Malocasy, Francis X., assignor to International Banding Machine Company, New York, N. Y. Cigar-band-feeding mechanism. 1,653,645; Dec. 27.
- Malocasy, Francis X., Upper Saddle River, N. J., assignor to International Banding Machine Company, New York, N. Y. Band-conveying and adhesive-supplying means for cigar-banding machines. 1,653,647; Dec. 27.
- Malocasy, Francis X., Upper Saddle River, N. J., assignor to International Banding Machine Company. Feeding device. 1,653,648; Dec. 27.
- Malone, Adolph W., Fillmore, Utah, assignor of one-third to A. H. Vestal, Anderson, Ind., and one-third to A. M. Lockwood, Houston, Tex. Metal pole. Re16,684; July 19.
- Malone, Adolph W., Fillmore, Utah, assignor of one-half to A. H. Vestal, Anderson, Ind. Metal pole. 1,617,262; Feb. 8.
- Malone, Adolph W., Fillmore, Utah, assignor of one-half to A. H. Vestal, Anderson, Ind. Golf-stick carrier. 1,621,329; Mar. 15.
- Malone, Adolph W., Fillmore, Utah, assignor of one-third to A. H. Vestal, Anderson, Ind., and one-third to A. M. Lockwood, Houston, Tex. Metal pole. 1,637,260; July 26.
- Malone, Frank J., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Milling machine for desaming billets. 1,625,127; Apr. 19.
- Malone, James G., and J. A. Dormer, Detroit, Mich. Rock or ore crushing machine. 1,630,194; May 24.
- Malone, Patrick E., Kellogg, Idaho. Filler cap. 1,622,659; Mar. 29.
- Maloney, Edward H., et al. (See Wagoner, John E., assignor.)
- Maloney, Edward J., Long Island City, N. Y. Motorized hand saw. 1,620,374; Mar. 8.
- Maloney, Michael D., Honolulu, Hawaii. Shaft-finishing tool. 1,652,868; Dec. 13.
- Malott, George H., Leamington, Ontario, Canada. Growing tobacco. 1,632,241; June 14.
- Malouf, Beshara I., Brooklyn, assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Automatic windshield cleaner. 1,639,043; Aug. 16.
- Malouf, Beshara I., Salt Lake City, Utah, assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,641,683; Sept. 6.
- Malouf, Jubert G., La Salle, N. Y. Lock. 1,644,002; Oct. 2.
- Maltby, Frederick V., Bradford, Pa. Traffic signal. 1,648,490; Nov. 8.
- Mambourg, Nestor, Lancaster, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-drawing apparatus. 1,641,894; Sept. 6.
- Mamen, Trygve, et al. (See Knofe, Karl R., assignor.)
- Mammen, Lawrence W., Chicago, Ill. Ornamental light. 1,626,141; July 19.
- Mammen, Lawrence W., Chicago, Ill. Laundry machine. 1,632,797; June 21.
- Mami, Frank, Brooklyn, N. Y. Radiator faceplate. Des. 72,717; May 24.
- Manassero, Giuseppe, Bronx, N. Y. Antifreezing water heater for internal-combustion motors. 1,632,658; June 14.
- Mancha Storage Battery Locomotive Company. (See Stoltz, Charles E., assignor.)
- Manche Storage Battery Locomotive Company. (See Teipel, J., and Exner, assignors.)
- Manchester, Adam, Central Bridge, N. Y. Crank holder. 1,615,592; Jan. 25.
- Manchester, Adam, Central Bridge, N. Y. Combustion-engine spark-plug protector. 1,619,524; Mar. 1.
- Manchester, Clyde C., assignor, by mesne assignments, to The Ayling & Reichert Company, Toledo, Ohio. Metal float. Re16,564; Mar. 1.
- Manchester, Clyde C., Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio. Air cleaner. 1,628,618; May 25.
- Manchester, Clyde C., assignor to The Ayling & Reichert Company, Toledo, Ohio. Method and machine for separating flanged nested stampings. 1,652,786; Dec. 13.
- Mandallan, Sabatiel G., North Attleboro, Mass. Metallic mesh fabric. Des. 72,325; Mar. 29.
- Mandallan, Sabatiel G., North Attleboro, Mass. Metallic mesh fabric. Des. 74,115; Dec. 20.
- Manderbach, Charles E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Packing receptacle. 1,627,613; May 10.
- Mandl, Karl F. (See Karabin, M., Skoczlek, and Mandl.)
- Mandl, Sigmund, assignor to Husky Wrench Company, Milwaukee, Wis. Wrench. 1,614,039; Jan. 11.
- Mandl, Sigmund, assignor to Husky Wrench Co., Milwaukee, Wis. Wrench. 1,628,467; May 10.
- Mandry, Leo, San Antonio, Tex. Steam jet for washing machines. 1,646,299; Oct. 13.
- Mandy, James, assignor of thirty-five per cent to L. Mandy, New York, N. Y. Life-saving device. 1,631,279; June 7.
- Mandy, Louis. (See Mandy, James, assignor.)
- Mangels, George, Harrisburg, Pa. Pneumatic shoe sole. 1,639,381; Aug. 16.
- Mangels, Rex, Frankfort, Kans. Attaching means for bolt heads. 1,648,379; Nov. 8.
- Maney, Thomas, Louisville, Ky. Guard-rail fastening. 1,638,739; Aug. 9.
- Maney, Thomas, Louisville, Ky. Guard-rail fastener. 1,639,524; Aug. 16.
- Mange, Frédéric, Paris, France. Device for magazining match sticks for their transfer to finishing stages. 1,615,907; Feb. 1.
- Mange, Frédéric, Paris, France. Match-stick conveying apparatus for use in connection with the manufacture of matches. 1,617,646; Feb. 15.
- Mangels, Edgar T., and B. G. Mangels, Davenport, Iowa. Dining cabinet. 1,639,141; Aug. 16.

- Mangels, Erwin G. (See Mangels, Edward T. E. and E. G.)
- Mangiameli, Francesco, Corleone, Italy. Device for proportionate feeding of gases. 1,619,948; Mar. 8.
- Mangold, Aberham F., Akron, Ohio. Dust collector. 1,626,852; May 3.
- Mangold, Hans, Furth, Bavaria, Germany. Toy figure. 1,626,007; May 11.
- Mangold, William B., Chicago, Ill., assignor to Vortex Mfg. Co. Cup dispenser. 1,622,597; Mar. 29.
- Mangum, Tyler L. (See Luckie, A., and Mangum.)
- Manhattan Electrical Supply Company. (See Hendry, William F., assignor.)
- Manhattan Electrical Supply Company. (See Jancke, Benno F., assignor.)
- Manhattan-Rome Company. (See Sisbower, G. F., and Pittoni, assignors.)
- Manhattan Rubber Mfg. Company, The. (See Snyder, Harry V. N., assignor.)
- Manierre, George, Milwaukee, Wis. Car loader. 1,626,947; May 3.
- Manierre, George, Milwaukee, Wis. Unloader for railway cars. 1,626,948; May 3.
- Manifold Company, The. (See Mayer, George A., assignor.)
- Manifold Impressions Corporation. (See Armistead, Hubert M., assignor.)
- Manison, Grant N., and I. E. Colvin, assignors to The Plauder Company, Rochester, N. Y. Outlet valve. 1,654,298; Dec. 27.
- Manitowoc Ship Building Corporation. (See Kane, Edmund J., assignor.)
- Manitowoc Ship Building Corporation. (See Moore, Roy S., assignor.)
- Manix, Edward T., Lynn, Mass. Abdominal supporter. 1,613,712; Jan. 11.
- Manker, Forrest W., Jackson Heights, assignor to Surface Combustion Company, New York, N. Y. Wire-heating oven. 1,615,593; Jan. 25.
- Manker, Forrest W., Jackson Heights, assignor to Surface Combination Company, New York, N. Y. Enamelling furnace and preparing the same. 1,648,001; Nov. 8.
- Mankin, Lynn S. (See Shaffer, J. C., and Mankin.)
- Manley, Frederick T. (See Holmes, R. C., Manley, and Behmer.)
- Manley, Frederick T., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Apparatus for the distillation of oil. 1,640,202; Aug. 23.
- Manley, Lewis M., Dallas, Tex. Piston. 1,614,799; Jan. 18.
- Mann, Carl E. (See Phillips, F. H., and Mann.)
- Mann, Charles. (See Sanford, Lynn H., assignor.)
- Mann, Charles W., Methuen, Mass. Transmission band. 1,613,713; Jan. 11.
- Manna, George, assignor, by mesne assignments, to Reynolds Spring Company, Jackson, Mich. Electric switch. 1,630,434; May 31.
- Mann, George, & Company. (See Wright, Fred W., assignor.)
- Mann, George, and Company Limited. (See Walters, George H., assignor.)
- Mann, George, and Company Limited, et al. (See Wright, Fred W., assignor.)
- Mann, Horace, Albuquerque, N. Mex. Tire. Des. 73,004; July 5.
- Mann, Horace, Albuquerque, New Mex. Tire. Des. 73,506; Sept. 20.
- Mann, Horace, Albuquerque, New Mex. Tire. Des. 73,507; Sept. 20.
- Mann, John J., and W. J. Oakland, Calif., and M. H. Van Couverden, San Marcial, N. Mex. Wave motor. 1,624,349; Apr. 12.
- Mann, Kellogg, Derby, N. Y. Incinerator. 1,654,339; Dec. 27.
- Mann, Leslie, Springfield, Mass. Projector. 1,645,108; Oct. 11.
- Mann, Matthew D., Jr., Roselle, and H. M. Weir, Newark, N. J. Contact apparatus. 1,624,793; Apr. 12.
- Mann, Matthew D., Jr., Roselle, N. J., assignor to S. B. Hunt, trustee, Mount Kisco, N. Y. Apparatus for the treatment of gases with liquids. 1,654,181; Dec. 27.
- Mann, Oswald W., Montreal, Quebec, Canada. Table caster. 1,621,514; Mar. 22.
- Mann, Richard E., New Brighton, N. Y. Thermometer. Des. 72,067; Feb. 22.
- Mann, Richard E., New Brighton, N. Y. Thermometer. Des. 72,379; Apr. 5.
- Mann, Robert C., assignor of one-half to P. B. Bohr, St. Louis, Mo. Electric therapeutic device. 1,634,373; July 5.
- Mann, Seward W., assignor to H. Kleinhans Company, Pittsburgh, Pa. Direct-current-generator system. 1,645,149; Oct. 11.
- Mann, Seward W., assignor to H. Kleinhans Company, Pittsburgh, Pa. Apparatus for controlling the flow of current from direct-current generators. 1,645,150; Oct. 11.
- Mann, Victor, Cassel, Germany. Roller sluice. 1,618,545; Feb. 22.
- Mann, William J. (See Mann, John J. and W. J., and Van Couverden.)
- Mannel, Elise, San Francisco, Calif. Doll. Des. 72,380; Apr. 5.
- Mannes, Leopold D., New York, N. Y., and L. Godowsky, Jr., Los Angeles, Calif. Method and apparatus for producing colored motion pictures. 1,619,940; Mar. 8.
- Mannhardt, Rudolf T., White Plains, and A. B. Hitzel, Jamaica, N. Y., assignors to Gilman Fanfold Corporation, Ltd., Toronto, Canada. Aligning and registering device for billing machines. 1,621,265; Mar. 15.
- Mann, Andrew, Braddock, Pa. Aeroplane. 1,648,818; Nov. 8.
- Manning, Leon, Cuba, N. Y. Window-sash frame and other frame. 1,651,899; Dec. 6.
- Manning Manufacturing Company. (See Kendall, Ira H., assignor.)
- Manning Manufacturing Company, The. (See Manning, Roy A., assignor.)
- Manning, Margia. (See Metzger, C. E., and Manning.)
- Manning, Maxwell & Moore, Inc. (See Baker, Hubert E., assignor.)
- Manning, Maxwell & Moore, Inc. (See Moore, George E., assignor.)
- Manning, Maxwell & Moore, Inc. (See Weisiger, Jesse W., assignor.)
- Manning, Robert M., Mexia, Tex. Ball-unseating device in line valves. 1,643,818; Sept. 27.
- Manning, Robert M., Mexia, Tex. Oil tank. 1,647,874; Nov. 8.
- Manning, Roy A., Rutland, assignor to The Manning Manufacturing Company, Rutland, Vt. Milk filter. 1,627,795; May 10.
- Manning, Russell C., Minneapolis, Minn. Match holder. Des. 72,776; May 31.
- Manpl, Rudolf, Karlsbad, Czechoslovakia. X-ray screen for taking skiagrams. 1,633,706; June 28.
- Manns, Thomas F., Newark, Del. Specific-gravity balance. 1,643,343; Sept. 27.
- Mannsdorff, Woldemar, Charlottensburg, Germany. Potato-peeling machine. 1,637,830; Aug. 2.
- Manofsky, John, assignor to Youngstown Pressed Steel Company, Warren, Ohio. Expanded-metal lath. 1,618,666; Feb. 22.
- Manofsky, John, assignor to Youngstown Pressed Steel Company, Warren, Ohio. Stop device. 1,642,422; Sept. 13.
- Manott, Harry, and J. H. McGrath, Melbourne, Victoria, Australia. Combination bed and couch. 1,637,493; Aug. 2.
- Manovitch, Hugo, New York, N. Y. Decorating celluloid article and decorated celluloid article. 1,636,523; July 19.
- Manrock, Frank J., Newark, N. J. Gravity table. 1,623,427; Apr. 5.
- Mansbend, Fritz F., Brooklyn, N. Y., assignor, by mesne assignments, to The Sufast Hats, Incorporated, Danbury, Conn. Fur-weighing machine. 1,628,629; Apr. 5.
- Mansbridge, George F., New Barnet, England. Variable inductance. 1,639,044; Aug. 16.
- Mansel, Paul, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Machine for recording time. 1,640,955; Aug. 30.
- Mansfield, Arthur, Eurcka, Kans. Adjustable sawing machine. 1,644,887; Oct. 11.
- Mansfield, Daniel B., Weehawken, N. J., assignor to General Rubber Company, New York, N. Y. Furnace for supplying drying gases. 1,629,921; May 24.
- Mansfield, Judson H. (See Edwards, D. W., and Mansfield.)
- Mansfield Tire & Rubber Co. (See Ober, Philip H., assignor.)
- Mansilla, Prudencia G., et al. (See Echaniz, J. L., and Mansilla, assignors.)
- Manson, Donald L., assignor to M. A. Manson, New York, N. Y. Golf tee. 1,635,448; Aug. 9.
- Manson, Mary A. (See Manson, Donald L., assignor.)
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Variable condenser. 1,632,487; June 14.
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Variable condenser. 1,632,488; June 14.
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Vacuum tube socket. 1,642,634; Sept. 20.
- Mansour, Walter A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing indophenol compounds. 1,637,868; Aug. 2.
- Manstad, Edward L., Maple Valley, Wash. Automatic gate. 1,614,893; Jan. 18.
- Mansur, Clarence W. (See Guay, E. J., and Mansur.)
- Mansur, William H., Bayshore, N. Y., assignor to Bell Telephone Laboratories, Incorporated. Electron-discharge device. 1,647,238; Nov. 1.
- Mantle Engineering Company. (See Mantle, Gregory D., assignor.)
- Mantle, Gregory D., assignor to Mantle Engineering Company, Pittsburgh, Pa. Glass furnace. 1,639,657; Aug. 23.
- Mantle Lamp Company of America, The. (See Davis, Cortland W., assignor.)
- Manuel, Charles J., and W. H. Lentz, Sellersville, Pa., assignors to United States Gauge Company, New York, N. Y. Thermometer. 1,635,680; July 12.
- Manuel, Thomas D., Bellville, South Africa. Fuel filler for tanks. 1,631,542; June 7.

- Manufacturas de Corcho, S. A. (See Vincke, Enrique, assignor.)
- Manufacturing Improvement Corporation. (See Brown, C. A. and Esselen, assignors.)
- Manville, E. J., Machine Company, The. (See Riley, Michael J., assignor.)
- Manville, Keith R., Brooklyn, assignor to International Motor Company, New York, N. Y. Valve for internal-combustion motors. 1,614,749; Jan. 18.
- Manville, Keith R., assignor to International Motor Company, New York, N. Y. Vibration dampener. 1,641,230; Sept. 6.
- Manwaring, Albert H., Noble, Pa. Hydraulic clutch. 1,624,841; Apr. 12.
- Manzel, Adolf W., assignor to Manzel Bros. Co., Buffalo, N. Y. Oil pump. 1,625,618; Apr. 19.
- Manzel Bros. Co. (See Manzel, Adolf W., assignor.)
- Manzel, Charles W., Buffalo, N. Y. Lubricating apparatus. 1,637,869; Aug. 13.
- Manzel, Charles W., Buffalo, N. Y., assignor to The Basic Manufacturing Company, Chicago, Ill. Lubricating gun. 1,620,824; Mar. 15.
- Manzel, Charles W., Buffalo, N. Y., assignor to The Basic Manufacturing Company, Chicago, Ill. Lubricating attachment. 1,648,149; Nov. 8.
- Maone, John, et al. (See Brown, W., and Morano, assignors.)
- Mapel, Lewis A., assignor to The Automatic Appliance Company, St. Louis, Mo. Indicating instrument. 1,638,672; June 28.
- Mapel, Lewis A., assignor to The Automatic Appliance Company, St. Louis, Mo. Liquid-level gauge. 1,638,673; June 28.
- Mapel, Lewis A., assignor to The Automatic Appliance Company, St. Louis, Mo. Liquid-level indicator. 1,636,374; July 8.
- Mapes, Clarence T., Pittsburgh, Pa. Underreamer. 1,619,984; Mar. 8.
- Maple, Wilbert. (See Hendricks, John A., assignor.)
- Mapou, Harry B., assignor of one-half to J. M. Green, New York, N. Y. Tie. 1,635,946; July 12.
- Marandino, Gerardo, Brooklyn, N. Y. Ice-cream cutter. 1,636,142; July 19.
- Maranzino, Roscoe, Los Angeles, Calif. Illuminated radiator cap. 1,650,800; Nov. 29.
- Marasso, Fred, Joliet, Ill. Wrapping machine. 1,641,042; Aug. 30.
- Marathon Company. (See Wojciechowski, Frank M., as assignor.)
- Marbach, Frank G. and M. P., Cleveland, Ohio. Washing machine and wringer. 1,654,182; Dec. 27.
- Marbach, Martha P. (See Marbach, Frank G. and M. P.)
- Marbelle Corporation of America. (See Barschat, Henry, assignor.)
- Marble, Charles C., Bradenton, Fla. Vulcanizer. 1,640,281; Aug. 23.
- Marbury, Ralph E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, Condenser. 1,626,684; May 3.
- Marbury, Ralph E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, Condenser. 1,635,556; July 12.
- Marbury, Ralph E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Testing apparatus. 1,652,535; Dec. 13.
- Marbury, Ralph E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Grid leak for radio apparatus. 1,632,089; June 14.
- Marcelus, Nicholas. (See Randolph, C. F., and Marcelus.)
- Marcelus, Nicholas, Plainfield, N. J. Winding machine. 1,628,322; May 10.
- Marcelus, Nicholas, Plainfield, N. J. Web-winding machine. 1,628,323; May 10.
- Marcelus, Nicholas, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Frog and switch plunger. 1,619,355; Mar. 1.
- Marcelus, Nicholas, assignor to Automatic Paper Machinery Company, Inc., Plainfield, N. J. Box for paper rolls. 1,630,495; May 31.
- Marceau, Ector F., East Hartford, Conn. Ink agitator. 1,648,187; Nov. 8.
- Marcel, Francois R., Brooklyn, N. Y. Curling iron. 1,622,834; Mar. 29.
- Marcel, Francois R., Brooklyn, N. Y. Hair-waving tube. 1,635,425; July 12.
- Marcel, Francois R., Brooklyn, N. Y. Curling pin for permanent hair waving. 1,635,426; July 12.
- Marcel, Francois R., Brooklyn, N. Y. Apparatus for waving hair. 1,643,783; Sept. 27.
- Marcellin, André J. (See Perrin, J. B., Marcellin, and Bénard.)
- Marcell, Lawrence P., South Porcupine, Canada. Lubricator for compressed-air machines. 1,615,594; Jan. 25.
- March, Albert T. (See Walker, H. G., and March.)
- March, Carl, Chicago, Ill. Handle support. 1,613,667; Jan. 11.
- March, Carl, Chicago, Ill. Cap stone for porches. 1,621,799; Mar. 22.
- March, Carl, Chicago, Ill. Twine holder. 1,626,545; Apr. 26.
- March, Carl, Chicago, Ill. Tann. 1,629,402; May 17.
- March, Carl, Chicago, Ill. Toothpick holder. 1,635,947; July 12.
- March, Carl, Chicago, Ill. Match-box holder. 1,637,260; July 20.
- March, George E., Muskegon, Mich. Screen for nozzles. 1,617,858; Feb. 15.
- Marchant Calculating Machine Company. (See Johnston, Clarence L., assignor.)
- Marchese, Sebastiano. (See Gardiner, William B., assignor.)
- Marchetti, Paul, San Francisco, Calif. Motor. 1,624,260; Apr. 12.
- Marchetti, Paul, San Francisco, Calif. Engine. 1,654,378; Dec. 27.
- Marchetti, Paul J. (See Nordwick, H. A., and Marchetti.)
- Marchione, Lewis, Medford, assignor, by mesne assignments, to Heaney Mfg. Co., Boston, Mass. Dispensing device. 1,637,951; Aug. 2.
- Marconi, Charles, Brooklyn, N. Y. Bed-spring brace. 1,640,956; Aug. 30.
- Marconi, Giuseppe, Genoa, Italy. Photo-printing press. 1,640,110; Aug. 30.
- Marcott Auto Signal Company. (See Marcott, William T., assignor.)
- Marcott, William T., assignor to Marcott Auto Signal Company, Olympia, Wash. Signaling device. 1,637,770; Apr. 2.
- Marcouiller, Ernest J., New York, N. Y., assignor to W. T. Grant Company. Cigar and cigarette lighter. Des. 73,850; Nov. 15.
- Marcum, Arthur I., Oakland, Calif., assignor to E. Winship, Jackson, La. Drive mechanism for multiwheelers. 1,644,023; Oct. 4.
- Marcum, Arthur I., Oakland, assignor to Emory Winship, San Francisco, Calif. Vehicle axle. 1,653,114; Dec. 20.
- Mareus, Benjamin H., Brooklyn, N. Y. Combined buckle and pump. 1,628,040; Apr. 19.
- Mareus, Benjamin H., Brooklyn, N. Y. Concealed hook-and-eye tape. 1,648,738; Nov. 8.
- Marcus, Charles, et al. (See Church, Harold D., assignor.)
- Marcus, Charles, New York, N. Y., assignor of one-third to R. Lansing, Montclair, N. J., and one-third to H. D. Church, New York, Conn. Shock absorber for vehicles. 1,644,438; Oct. 4.
- Marcus, Charles L., New York, N. Y. Lip-stick holder. Des. 72,864; June 14.
- Marcus, Charles L., New York, N. Y. Vanity case. 1,622,463; Mar. 29.
- Marcus, Charles L., New York, N. Y. Vanity case. 1,641,981; Sept. 13.
- Marcus, Charles L., New York, N. Y. Container. 1,650,801; Nov. 29.
- Marcus, Hascal, Brooklyn, N. Y. Bird cage. 1,632,380; Jan. 15.
- Marcus, Henry C., San Francisco, and W. Fourness, Oakland, Calif. Compressor. 1,631,425; June 7.
- Marcus, Jacob. (See Freyberg, A., and Marcus.)
- Marcus, Lewis A., New York, N. Y. Receptacle. 1,634,876; July 5.
- Marcus, Myron, Los Angeles, Calif. Speed indicator. 1,642,617; Sept. 13.
- Marcus, Samuel, Philadelphia, Pa. Emblem key. Des. 71,880; Jan. 18.
- Marcy, Frank E., San Diego, Calif. Grate for ball mills and making same. 1,629,803; May 24.
- Marcus, W. J., W. J. W. Co., N. Y. Line distributor for fishing reels. 1,635,629; July 12.
- Marczukowski, Aleksander, South Boston, Mass. Support for portières, curtains, and the like. 1,621,639; Mar. 22.
- Marden, John W. (See Rentschler, H. C., and Marden.)
- Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Metallurgical method. 1,646,734; Oct. 25.
- Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Production of rare metals and alloys thereof. 1,648,954; Nov. 15.
- Marden, John W., and H. C. Rentschler, East Orange, N. J., assignors to Westinghouse Lamp Company. Cleanup and activation by misch metal and the rare-earth metals. 1,653,366; Dec. 20.
- Marden, John W., and M. N. Rich, East Orange, N. J., assignors to Westinghouse Lamp Company. Misch-metal pipe. 1,653,367; Dec. 20.
- Marden, John W., East Orange, and T. P. Thomas and J. E. Conley, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Activation by means of hydrogen-free, carbon-bearing gas. 1,626,685; May 3.
- Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Meter-operated circuit closer. 1,617,406; Feb. 15.
- Marden, William L., Elmhurst, assignor to Neptune Meter Company, New York, N. Y. Meter. 1,617,407; Feb. 15.
- Marden, William L., Elmhurst, assignor to Neptune Meter Company, New York, N. Y. Alarm register for meters. 1,617,408; Feb. 15.
- Marden, William L., Elmhurst, assignor to Neptune Meter Company, New York, N. Y. Water meter. 1,632,554; June 14.
- Marden, William L., Elmhurst, assignor to Neptune Meter Company, New York, N. Y. Stuffing box. 1,649,314; Nov. 15.
- Marchal Rulon & Company Limited. (See Dravers, Louis A., assignor.)

- Marengo, Natalio G., Buenos Aires, Argentina. Barrier or fence against locusts. 1,641,769; Sept. 6.
- Maretta Hollow Ware and Enameling Company. (See Russell, John W., assignor.)
- Marette, Jacques, Vincennes, assignor to Pathé Cinéma, Anciens Etablissements Pathé Frères, Paris, France. Antistatic photographic film. 1,635,681; July 12.
- Margerison, W. H. & A. E., & Co. (See Clarke, René, assignor.)
- Margerison, W. H. & A. E., & Co. (See Elliott, Elizabeth S. G., assignor.)
- Margerison, W. H. & A. E., & Co. (See Heitland, Wilmot E., assignor.)
- Margerison, W. H. & A. E., & Co. (See Reiss, Winold, assignor.)
- Margerison, W. H. & A. E., & Co. (See Wilson, Edward A., assignor.)
- Margeson, Oliver, and P. G. Robinson, London, England. Locomotive. 1,637,952; Aug. 2.
- Margloff, Henry, Brooklyn, N. Y. Electric-lighting time clock. 1,614,877; Jan. 11.
- Margolin, Hyman, New York, N. Y. Hand bag. Des. 72,926; Mar. 29.
- Margolish, Mordicha, New York, N. Y. Waistband for trousers and making the same. 1,614,965; Jan. 18.
- Margolish, Mordicha, New York, N. Y. Vending machine. 1,620,195; May 2.
- Margulis, Peter H., New York, N. Y. Overshoe. 1,654,086; Dec. 27.
- Marietta, Alphonse H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bead-building machine. 1,615,025; Jan. 18.
- Marietta Manufacturing Company, The. (See Burgess, Martin L., assignor.)
- Maria, Menallo, Merida, Yucatan, Mexico. Liquid-holding belt. 1,650,764; Nov. 29.
- Marinetti, Edward G., Riverside, R. I. Shoe-closure attachment. 1,648,651; Nov. 8.
- Marion, Francesco, assignor to L. M. de Saurez, Brooklyn, N. Y. Storm hose. 1,643,023; Sept. 20.
- Mariolle, August, Oakland, Calif., and G. and R. Mariolle, New York, N. Y. Curtain sign exhibitor. 1,617,307; Feb. 8.
- Mariolle, August and G., Oakland, Calif., and R. Mariolle, New York, N. Y. Sign-changing exhibitor. 1,617,308; Feb. 8.
- Mariolle, Gaston. (See Mariolle, August, G., and R.)
- Mariolle, Raymond. (See Mariolle, August, G., and R.)
- Marion, Frank, assignor to one-half to E. L. Scott, Barre, Vt. Oil-burner system and apparatus. 1,617,647; Feb. 15.
- Marion Machine, Foundry and Supply Company, The. (See Cook, William A., assignor.)
- Marion Machine, Foundry & Supply Co. (See Loucks, Albert H., assignor.)
- Marion Machine Foundry & Supply Company. (See Lynch, Charles W., assignor.)
- Marion Machine, Foundry & Supply Company. (See Stroup, E. P., and Cook, assignors.)
- Marion Steam Shovel Company, The. (See Shrock, Rollo W., assignor.)
- Mariotti, Temistocle, Genoa, Italy. Apparatus for indicating internal relieves of hollow bodies. 1,649,966; Nov. 22.
- Maris, James C., and H. K. Harwick, Philadelphia, Pa. Steam-pipe support for articulated locomotives. 1,621,330; Mar. 15.
- Marjoribanks, Stewart D. (See Scott, W., and Marjoribanks.)
- Mark, Frank R., Los Angeles, Calif. Valve. 1,637,154; July 26.
- Mark, Ovid E., San Diego, Calif. Automatic power-transmission control mechanism. 1,634,504; July 5.
- Markatos, Spiros C., New York, N. Y. Iron-supporting plate for hot-water boilers. Re 16,608; May 3.
- Markatos, Spiros C., New York, N. Y. Supporting means for dry rooms. 1,637,261; July 26.
- Markatos, Spiros C., New York, N. Y. Attachment for hot-water boilers. 1,646,093; Oct. 18.
- Markatos, Spiros C., New York, N. Y. Combined dry room and iron heater. 1,651,463; Dec. 6.
- Markel Electric Products, Inc. (See Logan, Charles W., assignor.)
- Markel Electric Products Inc. (See Markel, J., and Logan, assignors.)
- Markel Electric Products, Inc. (See Yokel, Frank, assignor.)
- Markel, Emerich J., New Haven, Conn. Reflector attachment for vehicle headlights. 1,644,686; Oct. 11.
- Markel, Joseph, Buffalo, and C. W. Logan, Kenmore, assignors to Markel Electric Products Inc., Buffalo, N. Y. Electric-light fixture. 1,653,810; Dec. 27.
- Markel Lighting Fittings, Inc. (See Logan, Charles W., assignor.)
- Markel, Orville. (See Cannon, M. P., and Markel.)
- Markem Machine Company. (See Putnam, Fred A., assignor.)
- Marker, John. (See Cottrell, J., and Marker.)
- Markert, Franz, Lindenberg, Germany, assignor to Mount Clemens Pottery Company, Mount Clemens, Mich. Plate or similar article. Dec. 73,176; Mar. 8.
- Marley, George T., assignor to James Manufacturing Company, Fort Atkinson, Wis. Brooder coop. 1,652,629; Dec. 13.
- Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
- Markham, Charles M., Indianapolis, Ind. Adjustable shore. 1,651,017; Dec. 6.
- Markland, Wyllys H., Altoona, Pa., assignor to W. H. Foster, New York, N. Y. Surfacing machine. 1,613,181; Jan. 4.
- Markle, George, assignor to The Ruddy Manufacturing Company Limited, Brantford, Canada. Wire queen excluder for beehives. 1,630,860; May 31.
- Marklein, Otto. (See Shadolt, W. O., and Marklein.)
- Markman, John, Forreston, Ill. Automatic weighing machine. 1,644,260; Oct. 4.
- Marko, Paul M. (See Rixdorf, Ragnar J., assignor.)
- Marko, Paul M., Brooklyn, N. Y. Storage-battery attachment. 1,653,879; Dec. 20.
- Markonich, Joe, Los Angeles, Calif. Automobile bumper. 1,613,043; Jan. 4.
- Markovitch, Grecha, Montreal, Quebec, Canada. Lighting apparatus. 1,648,235; Nov. 8.
- Markow, Bernard, assignor to Art Cage Manufacturing Company, Inc., Brooklyn, N. Y. Birdcage bath. 1,617,492; Feb. 15.
- Markowitz, Joseph. (See Stern, I., Roth, and Markowitz.)
- Marks, August, Carteret, N. J., assignor to United States Metals Refining Company, Magnesian refractory and making it. 1,616,055; Feb. 1.
- Marks, August, Carteret, assignor to United States Metals Refining Company, Middlesex County, N. J. Unburned refractory brick and making it. 1,616,192; Feb. 1.
- Marks, Herbert E., Glen Osborne, Pa. Roof structure. 1,626,798; Nov. 22.
- Marks, Herbert E., Sewickley, Pa. Roof construction. 1,618,768; Feb. 22.
- Marks, Irving M., Chicago, Ill. Electric grate. Des. 73,005; July 5.
- Marks, Irving M., Chicago, Ill. Electric grate. Des. 73,006; July 5.
- Marks, Isidore, Dorchester, Mass. Clapper noise-producing toy or analogous article. Des. 73,752; Nov. 1.
- Marks, Isidore, Dorchester, Mass. Toy. 1,647,369; Nov. 1.
- Marks, Isidore, Dorchester, assignor to Keystone Mfg. Co., Boston, Mass. Pumping-engine truck. 1,640,417; Aug. 30.
- Marks, Maurice, et al. (See Langan, William B., assignor.)
- Marks, Roy C., Moorpark, Calif. Queen-bee shipping and introducing cage. 1,652,539; Dec. 13.
- Markus, Samuel L., assignor to Zenith Radio Corporation, Chicago, Ill. Cabinet. 1,617,452; Feb. 15.
- Marksmann, Frederick L. (See Ryan, E. A., and Marksmann.)
- Marland, Arthur, assignor to John Wood Manufacturing Company, Conshohocken, Pa. Manual holder for arc welding electrodes. 1,643,929; Sept. 27.
- Mariatt, George E., Pasadena, Calif. Copy holder for typewriters. 1,637,384; Aug. 2.
- Mariatt, George E., Pasadena, Calif. Space-band-releasing means for typographical assembling machines. 1,651,213; Nov. 29.
- Mariatt, George E., Pasadena, Calif. Typographical slug-casting machine. 1,651,214; Nov. 29.
- Marler, Harry I., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Dental X-ray-film package. 1,631,497; June 7.
- Marles, Henry, London, England. Steering gear. 1,642,164; Sept. 13.
- Marles, Henry, assignor to Gemmer Manufacturing Company, Detroit, Mich. Engine-control mechanism. 1,644,261; Oct. 4.
- Marlewski, Albert, Chicago, Ill. Supporting bracket. 1,640,203; Aug. 23.
- Marley, Samuel P., Pittsburgh, and W. A. Gruse, Wilkesburg, assignors to Gulf Refining Company, Pittsburgh, Pa. Fuel composition. 1,645,109; Oct. 11.
- Marlin-Rockwell Corporation. (See Parsons, Harry N., assignor.)
- Marlowe, Daniel J., Woburn, Mass., assignor to The Bahcock Printing Press Manufacturing Company, New London, Conn. Preparing make-ready on cutting and creasing presses. 1,615,026; Jan. 18.
- Marlsdale, George, Cincinnati, Ohio. Planter and fertilizer-distributing device. 1,620,907; Mar. 15.
- Marmignat, Henri, administrator. (See Weber, Fritz.)
- Marneux, Leonline, née David, Paris, France. Hosiery machine of the straight or flat web type. 1,645,439; Oct. 11.
- Maroney, Maurice, McLeansboro, Ill. Double-garage-door-operating mechanism. 1,648,555; Nov. 8.
- Marosky, Joseph. (See McWilliams, J. L., and Marosky.)
- Marqua, Edward C., Kansas City, Mo. Bracket for concrete-floor forms. 1,622,528; Mar. 29.
- Marquardt, Frederick C., Milwaukee, Wis. Crib latch. 1,622,387; Mar. 29.
- Marquardt, Frederick C., Milwaukee, Wis. Bed bottom. 1,625,817; Apr. 26.
- Marquette Manufacturing Company. (See Nilsson, Leonard, assignor.)
- Marquette, Melville A., assignor to The Plisk Rubber Company, Chicopee Falls, Mass. Stripping device. 1,642,453; Sept. 13.
- Marquette Tool & Manufacturing Company. (See Glasner, R. W., and Nilsson, assignors.)

- Marquette Tool & Manufacturing Co. (See Rode, Fredrick J., assignor.)
- Marquette, William V. B., New York, N. Y. Internal-combustion engine. 1,645,959; Oct. 18.
- Marquis, Joseph T. (See Perrault, J. S., and Marquis.)
- Marquis, Marcelle M., New York, N. Y., assignor to Camlin Corset Co. Inc. Lady's undergarment. 1,649,315; Nov. 15.
- Marquis, Theophile J., and J. S. Perrault, Nashua, N. H. Meat-grinder head. 1,654,425; Dec. 27.
- Marr, Earl, assignor to Marr Oil Heat Machine Corporation, Minneapolis, Minn. Oil burner. 1,640,418; Aug. 30.
- Marr Oil Heat Machine Corporation. (See Marr, Earl, assignor.)
- Marr, Rital M. (See Carnes, A. H., and Marr.)
- Marr, Robert A., Norfolk, Va. Broom and making same. 1,644,738; Oct. 11.
- Marr, Winfield S., Council Bluffs, Iowa. Telephone attachment. 1,639,525; Aug. 16.
- Marr, Zachens M., Fremont, Neb., assignor to Racine Confectioners' Machinery Co., Racine, Wis. Candy-forming machine. 1,635,682; July 12.
- Marrazzo, Domenico, Brooklyn, N. Y. Inner-tire valve. 1,622,332; Mar. 29.
- Marrette, Jacques, Vincennes, assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Electric lamp for cinematographic apparatus. 1,625,619; Apr. 19.
- Marrison, Warren A., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Harmonic frequency producer. 1,639,045; Aug. 16.
- Marrison, Warren A., East Orange, N. J., assignor to Western Electric Company Incorporated, New York, N. Y. Electrical generator. 1,647,645; Nov. 1.
- Marsac, Gerald. (See Schilz, John, assignor.)
- Marsat, Antoine J. B., Verrieres-le-Buisson, France. Cap or socket for incandescent electric lamps and the like. 1,630,120; May 24.
- Marschalk, Charles H., Paris, France. Manufacture of perylene. 1,639,658; Aug. 23.
- Marschalk, Charles H., Paris, France. Black sulphurized naphthol dyestuffs. 1,641,182; Sept. 6.
- Marschall, Franz. (See Daimler, K., Marschall, and Baile.)
- Marschall, Ludwig, Brooklyn, N. Y. Aeroplane. 1,617,264; Feb. 8.
- Marschall, Ludwig, Brooklyn, assignor of one-fourth to O. Zander, New York, N. Y. Aeroplane. 1,617,263; Feb. 8.
- Marscheider, Karl, assignor to A. Borsig G. m. b. H., Berlin-Tegel, Germany. Valve. 1,639,743; Aug. 23.
- Marsden, George, assignor to Dependable Auto Parts Company, Los Angeles, Calif. Vending machine. 1,617,841; Feb. 15.
- Marsden, John E. (See Milliken, John A., assignor.)
- Marsden, John E., Philadelphia, Pa. Electric sadiron. 1,615,464; Jan. 25.
- Marsden, John E., Philadelphia, Pa. Electric bread toaster. 1,624,893; Apr. 12.
- Marsden, John E., Philadelphia, Pa. Electric stove. 1,637,152; July 26.
- Marsden, John E., Philadelphia, Pa. Electric sadiron. 1,644,139; Oct. 4.
- Marshek, Frederick A., assignor to Kolmar Laboratories, Milwaukee, Wis. Combined face powder and skin bleach. 1,620,269; Jan. 8.
- Marsene Products Company. (See Kratz, Edouard M., assignor.)
- Marsh, Alexander, and S. A. Anderson, Flemington, Mo. Coal carrier for tenders. 1,614,797; Jan. 18.
- Marsh, Esli A., assignor to J. F. Egan Sales Service, Inc., Chicago, Ill. Machine feeding and packing pulverulent material. 1,618,459; Feb. 22.
- Marsh, George M. (See Krepis, J. C. Jr., Marsh, and Lutz.)
- Marsh, Harry V., Chicago, Ill. Placard. 1,653,188; Dec. 20.
- Marsh, Howard E., Lompoc, Calif. Windshield wiper. 1,633,597; June 28.
- Marsh, Howard E., Lompoc, Calif. Self-feeding carburetor. 1,640,044; Aug. 23.
- Marsh, Howard E., Lompoc, and C. J. Dunten, Santa Maria, assignors of one-sixth to V. B. Lee, Santa Barbara, Calif., and one-sixth to H. H. Lee, Grand Junction, Colo. Oil-shale apparatus. 1,619,525; Mar. 1.
- Marsh, Jas. P., and Company. (See Harrison, Amos, assignor.)
- Marsh, Jas. P. & Company. (See Thompson, Orville W., assignor.)
- Marsh, Louis, and O. J. Dufresne, St. Paul, Minn.; said Marsh assignor to said Dufresne. Fisherman's bait trap and carrier. 1,620,617; Mar. 8.
- Marsh, Michael A., St. Paul, Minn. Sectional concrete ash receptacle. 1,620,670; Mar. 15.
- Marsh, Robert G., Detroit, Mich. Ice-box construction. 1,637,494; Aug. 2.
- Marsh, Samuel H., Americus, Ga. Bottle-washing machine. 1,651,925; Dec. 6.
- Marsh, Thomas A., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Stoker furnace. 1,620,270; Mar. 8.
- Marsh, Thomas W. (See Hinton, G. H., and Marsh.)
- Marsh, Wellington W., Long Beach, Wash. Collision shield for vehicles. 1,624,418; Apr. 12.
- Marsh, William B. (See Updegrove, A. J., and Marsh.)
- Marsh, William G., Toronto, Ontario, Canada. Auxiliary air control for gasoline engines. 1,619,082; Mar. 1.
- Marsh, William J., et al. (See Marvin, Samuel W., assignor.)
- Marshall, Andrew J., assignor of one-half to G. W. Mitchell, Harrisburg, Ill. Electric shot-firing device. 1,644,843; Oct. 11.
- Marshall, Charles C. (See Cobs, C., and Marshall.)
- Marshall, Charles O., Toledo, Ohio. Propeller. 1,622,835; Mar. 29.
- Marshall, Charles O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,622,041; Mar. 22.
- Marshall, Charles S. (See Hampton, A., and Marshall.)
- Marshall, David O., assignor to Mound City Wood Heal & Mfg. Co., St. Louis, Mo. Wood-heel-turning machine. 1,646,205; Oct. 18.
- Marshall, David O., St. Louis, Mo., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wood-heel-turning machine. 1,647,573; Nov. 1.
- Marshall, Ellsworth G. (See Caswell, R. G., and Marshall.)
- Marshall Field & Company. (See Bezark, Joseph, assignor.)
- Marshall, Francis C., Green Bay, Wis. Excavating machine. 1,623,194; Apr. 5.
- Marshall, Frank B., Kinsley, Kans. Sunshade for automobile windows. 1,646,621; Oct. 25.
- Marshall, Fred. (See Metcalf, R., and Marshall.)
- Marshall, George F., and C. W. Vogt, Tauppa, Fla. Juice extractor. 1,643,819; Sept. 27.
- Marshall, Guy E., Milwaukee, Wis. Investigating street occurrences. 1,625,041; Apr. 19.
- Marshall, Holmes, Cleveland Heights, Ohio. Safety-deposit-locking device. 1,618,460; Feb. 22.
- Marshall, James F., Swampscott, assignor to J. J. Grover's Sons Company, Lynn, Mass. Shoe-shank stiffener. 1,644,091; Apr. 19.
- Marshall, John, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Low-density dynamite. 1,644,447; Jan. 11.
- Marshall, John C., San Francisco, Calif. Electrical apparatus. 1,637,262; July 26.
- Marshall, Joseph B. (See Thompson, L., and Marshall.)
- Marshall, Josie S., et al. (See Delker, William L., assignor.)
- Marshall, Norman, Nashua, N. H., assignor to Remington Arms Company, Inc. Tube polishing or sizing machine. 1,625,965; Apr. 12.
- Marshall, Russell L., Duquesne, Pa. Nonskidding device. 1,618,938; Feb. 22.
- Marshall & Stearns Company. (See Smith, Arthur M., assignor.)
- Marshall, Thomas C., Mount Savage, Md. Tire. Des. 72,484; Apr. 19.
- Marshall, Thomas C., Mount Savage, Md. Tire. Des. 72,485; Apr. 19.
- Marshall, Thomas C., Mount Savage, Md. Making tire casings. 1,629,517; May 24.
- Marshall, Walter D., assignor to Eastman Kodak Company, Rochester, N. Y. Film-looping device for motion-picture processing machines. 1,645,916; Oct. 18.
- Marshall-Wells Company. (See Hokanson, Martin, assignor.)
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Weather strip. 1,618,044; Jan. 4.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Hinge support. 1,622,598; Mar. 29.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Pliers. 1,624,556; Apr. 12.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Molding strip. 1,627,915; May 10.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Door-window finish-strip assembly. 1,630,534; May 31.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Attachment means for hinges. 1,634,839; July 5.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Hinge construction. 1,636,007; July 19.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Deck-lid construction. 1,645,607; Nov. 15.
- Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Hinge construction for doors. 1,654,426; Dec. 27.
- Marshall, William, and F. Kiehler, assignors to Briggs Manufacturing Company, Detroit, Mich. Doorlock. 1,616,459; Feb. 8.
- Marshall, William H., R. J. Killgore, and L. E. Bedortha, assignors, by mesne assignments, to Purox Company, Denver, Colo. Dipping container for explosive cartridges. 1,639,490; May 31.
- Marshalltown Sheet Metal Works. (See Bettenga, Creno P., assignor.)
- Marsik, Augustin, Prague, Czechoslovakia. Direction-indicating device especially for vehicles. 1,623,880; Apr. 5.
- Marsland, Roland. (See Cares, H. F., and Marsland.)

- Marshall, Roland, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine blading. 1,638,639; Aug. 8.
- Marston, Gordon S., Westminster, England. Electric-circuit breaker. 1,647,010; Oct. 25.
- Marston, Horace A., Sutton, England. Rotary drying apparatus. 1,649,839; Nov. 22.
- Marshall, Leon T., Kansas City, Mo., assignor to Yarnall-Waring Company, Philadelphia, Pa. Spray pond T. 1,614,430; Jan. 11.
- Martel, Edgar J., Laconia, N. H. Automobile lock. 1,616,592; Feb. 8.
- Martel, Edgar J., Laconia, N. H. Automobile lock. 1,649,970; Oct. 25.
- Marshall, Joseph, Vineland, N. J. Composition for toy torpedo casings. 1,627,101; May 3.
- Marten, Henry F. (See Andersen, J. C., and Marten.)
- Martens, William E., Wheatland, Iowa. Shingle-scaffold bracket. 1,646,923; Oct. 25.
- Martin, Edward F., Brooklyn, N. Y. Electrical receptacle. 1,618,939; Feb. 22.
- Martby, Francis J., Hazleton, Pa. Tensioning device. 1,615,228; Jan. 25.
- Marti, Pierre A. D., Philippeville, Algeria. Apparatus for recording the duration of very brief phenomena. 1,613,520; Jan. 4, 1920.
- Martinsen, Oscar, Kiel, Germany. Fire-damp indicator. 1,652,448; Dec. 13.
- Martignoni, Luigi, Genoa, Italy. Therapeutical apparatus. 1,628,794; May 17.
- Martikainen, Janne, Ryttyla, Finland, assignor to J. A. Anderson, Suffolk County, Mass. Cultivator. 1,619,797; Mar. 1.
- Martin, Albert, New York, N. Y. Ornamenting food-stuffs. 1,624,670; Apr. 12.
- Martin, Albert W. and J. N., Indianapolis, Ind. Multiple-joint-grinding machine. 1,648,991; Nov. 15.
- Martin, Alfred M., Chicago, Ill. Loose-leaf binder. 1,613,769; Feb. 22.
- Martin, Alfred M., Chicago, Ill. Loose-leaf-binder device. 1,618,770; Feb. 22.
- Martin, Alie M. (See Martin, George W., assignor.)
- Martin, Alphonse, assignor of fifty-one one-hundredths to M. Katzman, Ogdensburg, N. Y. Electric water heater. 1,613,714; Jan. 11.
- Martin, Alphonse, assignor of fifty-one one-hundredths to M. Katzman, Ogdensburg, N. Y. Combined water heater and sterilizing apparatus. 1,619,146; Mar. 1.
- Martin, Alphonse, assignor of fifty-one one-hundredths to M. Katzman, Ogdensburg, N. Y. Electric water heater. 1,613,900; Mar. 22.
- Martin, Antonio S., Schenectady, N. Y. Knee-operated throttle-valve-controlling means. 1,627,102; May 3.
- Martin, Bernard, et al. (See Hubbard, Lloyd B., assignor.)
- Martin, Bethel J., San Francisco, Calif. Pneumatic steering device for vehicles. 1,627,558; May 10.
- Martin, C. Lester, et al. (See De Neen, Albert W., assignor.)
- Martin, Carl C., Nehart, Mont. Internal-combustion engine. 1,648,141; Nov. 8.
- Martin, Carl, Kearny, N. J., assignor to General Electric Company. Sealing-off device. 1,631,378; June 7.
- Martin, Charles A., Chicago, Ill., assignor to Leeds & Norrup Company, Philadelphia, Pa. Temperature-responsive apparatus. 1,643,582; Sept. 27.
- Martin, Charles B., Canton, Ohio. Match box. 1,646,300; Oct. 18.
- Martin, Charles E., Paulsboro, N. J., assignor to Vacuum Oil Company, New York, N. Y. Sealing machine for containers of the like. 1,631,748; June 7.
- Martin, Charles E., Paulsboro, N. J., assignor to Vacuum Oil Company, New York, N. Y. Applying and securing machines for container closures. 1,652,903; Dec. 13.
- Martin, Charles H., assignor of one-half to A. Frediani, Los Angeles, Calif. Ruling machine. 1,646,206; Oct. 18.
- Martin, Charles L. (See Vaughn, John H., assignor.)
- Martin-Copeland Company. (See Abbott, Carl M., assignor.)
- Martin-Copeland Co. (See Dorsey, Arthur, assignor.)
- Martin-Copeland Company. (See Pendleton, Pyam L., assignor.)
- Martin, D. E. (See Martin, Delbert, assignor.)
- Martin, Daniel H., Los Angeles, Calif. Power-transmitting mechanism. 1,629,518; May 24.
- Martin, Darius V., Wildwood, N. J. Pedestal. 1,636,906; July 26.
- Martin, Delbert, assignor of one-half to D. B. Martin, North Platte, Nebr. Radius-rod connection. 1,652,243; Dec. 13.
- Martin, De Loss K. (See Espenschied, L., and Martin.)
- Martin, Dorr R., Detroit, Mich. Oil burner. 1,651,139; Nov. 29.
- Martin, Earl L., New York, N. Y. Water-level-controlling means. 1,619,356; Mar. 1.
- Martin, Earl L., New York, N. Y. Forming news and tabloid sections from a continuous web. 1,625,862; Apr. 26.
- Martin, Earl L., assignor to C. L. Brown, Miami, Fla. Automobile suspension. 1,631,103; May 31.
- Martin, Earl L., assignor to C. L. Brown, Miami, Fla. Accelerating alternating-current motor. 1,650,142; Nov. 22.
- Martin, Ethel E., Indianapolis, and H. W. Dietrich, Noblesville, assignors to J. I. Holcomb Mfg. Co., Indianapolis, Ind. Solidified deodorant and insecticide. 1,641,183; Sept. 6.
- Martin, Edgar L., Lascassas, Tenn. Automobile operating gate. 1,653,716; Dec. 27.
- Martin, Edgar W., et al., trustees. (See Pendleton, Fred L., assignor.)
- Martin, Edward. (See Kent, W. J., Martin, and Kochan.)
- Martin, Ella, Providence, Ky. Burial slipper. Des. 73,664; Oct. 18.
- Martin, Fred N. (See Willson, Russell A., assignor.)
- Martin, Frederick H. (See Falor, A. E., and Martin.)
- Martin, Frederick H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Overshoe. Des. 73,139; July 26.
- Martin, Frederick H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Overshoe. 1,631,749; June 7.
- Martin, Frederick H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hand roller. 1,637,450; Aug. 2.
- Martin, Frederick II., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Shoe. 1,642,737; Sept. 20.
- Martin, Frederick W., Brooklyn, N. Y., assignor to Franklin Railway Supply Company. Lubricator. 1,620,479; Mar. 8.
- Martin, Frederick W., Bronxville, N. Y., assignor to Franklin Railway Supply Company. Locomotive-booster apparatus. 1,643,308; Sept. 27.
- Martin, George C., Los Angeles, Calif. Packer head for pipe-molding machines. 1,616,816; Feb. 8.
- Martin, George C., Los Angeles, Calif. Shock absorber. 1,623,428; Apr. 5.
- Martin, George C., Los Angeles, Calif. Pipe-making machine. 1,629,922; May 24.
- Martin, George C., Los Angeles, Calif. Forming pipe. 1,633,219; June 21.
- Martin, George H., Warm Springs, Mont. Spring wheel. 1,637,263; July 26.
- Martin, George H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,648,053; Nov. 8.
- Martin, George W., Tulsa, Okla., assignor of one-half to A. M. Martin, Los Angeles, Calif. Wire stretcher. 1,635,866; Dec. 27.
- Martin, Giles W., Jr., West Medford, assignor to American Shoe Machinery Company, East Boston, Mass. Pressure tempering. 1,613,521; Jan. 4.
- Martin, Glenn L. (See McCulloch, Frederick S., assignor.)
- Martin, Harold, Portsmouth, England. Fluid-pressure-operated means for indicating the quantity and specific gravity of the liquid contents of tanks. 1,622,794; Mar. 29.
- Martin, Harold S. (See Gell, P. V. W., Gould, Hampton, and Martin.)
- Martin, Harrison S. (See Dippel, William T., assignor.)
- Martin, Harry C., assignor to The Carborundum Company, Niagara Falls, N. Y. Article of bonded granular material and making the same. 1,626,246; Apr. 26.
- Martin, Henry H. (See Raverty, Edward J., assignor.)
- Martin, Henry H., Sulphur, Okla. Valve-spring lifter. 1,644,070; Oct. 4.
- Martin, Horace C., Middlesboro, Ky. Woven strap for suspenders. 1,616,272; Feb. 1.
- Martin, Horace E., Athens, Ga. Wagon. 1,617,131; Feb. 8.
- Martin, Horace J., Brookline, assignor, by mesne assignments, to Live Leather Products, Inc., Cambridge, Mass. Belt and making the same. 1,612,978; Jan. 4.
- Martin, Horace J., Brookline, assignor, by mesne assignments, to Live Leather Products, Inc., Cambridge, Mass. Elastic strapping. 1,620,162; Mar. 8.
- Martin, Jacob F., assignor to The Bellevue Manufacturing Company, Bellevue, Ohio. Luggage carrier. 1,634,590; July 5.
- Martin, Jacob N. (See Martin, Albert W. and J. N.)
- Martin, James V., Garden City, N. Y. Aeroplane-wing structure. 1,627,191; May 3.
- Martin, James V., Garden City, N. Y. Craft-propulsion means. 1,644,787; Oct. 11.
- Martin, James W. (See Johnson, William, assignor.)
- Martin, James W., Milwaukee, assignor to Joannes Bros. Company, Green Bay, Wis. Collapsible container. 1,615,465; Jan. 25.
- Martin, Jean M. (See Martin, Thomas J. and J. M.)
- Martin, Jesse C., Jr., San Francisco, Calif. Brick die. 1,630,068; Mar. 24.
- Martin, John, Amorita, Okla. Brake for cream separators. 1,642,997; Sept. 20.
- Martin, John, Parkersburg, W. Va. Bricklayer's hammer. 1,648,616; Nov. 8.
- Martin, John H., Central Park, N. Y. Carrotting fur. 1,630,063; May 31.
- Martin, John H., Central Park, N. Y. Preparation of fur for shrinking and felting. 1,630,664; May 31.
- Martin, Julius W., administrator. (See Perry, Napoleon J.)
- Martin, Kenneth B., Springfield, Mo. Swimming device. 1,647,875; Nov. 1.
- Martin, L. Wynne, et al. (See Tuholske, Joseph, assignor.)

- Martin, Laurence C., et al., trustees. (See Pendleton, Pyam L., assignor.)
- Martin, Le Roy, Oklahoma City, Okla. Battery connection for motor vehicles. 1,648,617; Nov. 8.
- Martin, Louis, Muncy, Pa. Snowplow. 1,634,673; July 5.
- Martin, Lucian T., et al., trustees. (See Rogers, Harry R., assignor.)
- Martin, Mark H., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Side frame. 1,644,071; Oct. 4.
- Martin, Morris, Los Angeles, Calif. Automatic cigarette case. 1,616,864; Feb. 8.
- Martin, Otis M., and C. M. Webster, Detroit, Mich. Coloring letters or figures impressed in metal tags, badges, etc. 1,640,787; Aug. 30.
- Martin-Parry Corporation. (See Weaver, Harry A., assignor.)
- Martin, Richard H., assignor to Norton Company, Worcester, Mass. Silicon-carbide article and making same. 1,663,918; Dec. 27.
- Martin, Robert, Fort Francis, Ontario, Canada. Machine for collecting bugs. 1,627,796; May 10.
- Martin, Robert E., et al. (See Hunt, John D., assignor.)
- Martin, Sidney A. (See Buechele, E. E., and Martin.)
- Martin, Scott O., Lamar, Colo. Ditching plow. 1,648,236; Nov. 8.
- Martin, Talbot G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,625,482; Apr. 19.
- Martin, Talbot G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone systems. 1,640,551; Aug. 30.
- Martin, Talbot G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,650,995; Nov. 29.
- Martin, Thomas J. and J. M., New York, N. Y. Hair-dressing appliance. 1,638,639; Apr. 6.
- Martin, Thorleif (See Bilkstad, M., and Martin.)
- Martin, Tobias W., Charlotte, N. C. Carpenter's tape. 1,643,166; Sept. 20.
- Martin, Victor H. G. (See Maitre, A. H., and Martin.)
- Martin, Waite J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine for assembling parts or elements of fabricated articles. 1,639,700; Aug. 23.
- Martin, William A., Toronto, Ontario, Canada. Shade holder for electric-lamp sockets. 1,614,794; Apr. 12.
- Martin, William C., Chicago, Ill. Tire. 1,632,489; June 14.
- Martin, William C., Milwaukee, Wis. Manufacturing cushion tires. 1,632,490; June 14.
- Martin, William F. (See Tibbens, Samuel K., assignor.)
- Martin, William F. Harrisburg, Pa. Coal screen and washer. 1,632,759; June 14.
- Martin, William H., et al. (See Hansen, John, assignor.)
- Martin, William H., Chappaqua, N. Y., assignor to American Telephone and Telegraph Company. Cone loud-speaker diaphragm. 1,626,743; May 3.
- Martin, William H., Chappaqua, N. Y., assignor to American Telephone and Telegraph Company. Identification of electrical cables. 1,632,080; June 14.
- Martin, William H., Flushing, Netherlands. Exhaust and like silencer. 1,641,394; Sept. 6.
- Martin, William P., and L. Miklik, Monongahela, Pa. Shock absorber. 1,618,990; Feb. 22.
- Martin, William S., Rochester, N. Y. Hot-air furnace. 1,630,024; May 24.
- Martindale, Andrew, Los Angeles, Calif. Apparatus for molding plastic blocks. 1,637,495; Aug. 2.
- Martindale, Charles A., assignor to The Reliable Machine Company, Anderson, Ind. Electric door opener. 1,630,127; May 24.
- Martine, John C., New York, N. Y. Coin holder. 1,615,642; Jan. 25.
- Martinetto, Vittorio, Turin, Italy. Asynchronous induction electric machine. 1,614,008; Jan. 11.
- Martinetto, Vittorio, Turin, Italy. Asynchronous machine. 1,614,009; Jan. 11.
- Martinez, Gabriel, New York, N. Y. Golf-ball packing. 1,650,228; Nov. 22.
- Martinez, Isidore, La Pryor, Tex. Device for picking cotton. 1,634,621; May 5.
- Martinez, Joe M., Detroit, Mich. Cigarette holder. Des. 72,953; June 28.
- Martini, Biagio, Pittsburgh, Pa. Railway switching device. 1,640,204; Aug. 23.
- Martinka, John P., El Campo, Tex. Burglar alarm. 1,653,301; Dec. 20.
- Martinson, Milivoj, Salt Lake City, Utah. Curtain for automobile tops. 1,614,010; Jan. 11.
- Martins, Alberto, Washington, D. C. Support or holder. 1,614,011; Jan. 11.
- Martinson, Oscar J., assignor to Monaghan Machine Co., Chicago, Ill. Traction machine. 1,627,984; May 10.
- Martinson, P. Hilbert, Wenatchee, Wash. Fly book. 1,623,429; Apr. 5.
- Martley, Michael J., et al. (See Comerford, John, assignor.)
- Martley, Michael J., et al. (See Comerford, John J., assignor.)
- Martocello, Joseph A., Philadelphia, Pa. Raw-water system for making ice. 1,638,776; Aug. 9.
- Marton, Charles T., Rochester, N. Y. Traffic signal. Des. 74,116; Dec. 20.
- Marton, Charles T., Rochester, N. Y. Sign holder. 1,640,414; Oct. 25.
- Martus, Martin L., Woodbury, and E. H. Becker and J. G. Ross, Waterbury, Conn. Battery holding and carrying means. 1,614,795; Apr. 12.
- Martus, Martin L., Woodbury, and E. H. Becker, Waterbury, Conn. Primary cell. 1,644,344; Oct. 4.
- Martus, Martin L., Woodbury, and E. H. Becker, Waterbury, Conn. Primary cell and making the same. 1,644,389; Oct. 4.
- Martus, Martin L., Woodbury, E. H. Becker, and J. G. Ross, Waterbury, Conn. Radio telephone receiver. 1,651,581; Dec. 6.
- Marty, Benjamin F., Friant, Calif. Well pump. 1,619,994; Mar. 8.
- Marty, Edgar O., Pottsville, Pa. Gravity separator and process of separation. 1,639,046; Aug. 16.
- Marty, John M., Jr., assignor to The Kelly Reamer Company, Cleveland, Ohio. Boring bar. 1,644,197; Oct. 4.
- Martyn, David L., Vancouver, Wash. Piston head. 1,652,033; Dec. 6.
- Marui, Hyokichi, Osaka, Japan. Fan. 1,630,397; May 31.
- Marvel Carburetor Company. (See Molony, Donald P., assignor.)
- Marvel Carburetor Company. (See Redmond, Albert G., assignor.)
- Marvel Carburetor Company. (See Wright, Rea P., assignor.)
- Marvel Company, The. (See Weir, Roy W., assignor.)
- Marvel Equipment Company, The. (See Opitz, William.)
- Marvel Equipment Company. (See Spaeth, Charles, assignor.)
- Marvel Oil Tool Company. (See Hazard, Merlin C., assignor.)
- Marvel, Orin E., Dayton, Ohio. Multiple-point plug. 1,639,974; Dec. 27.
- Marvin, Benjamin, et al. (See Pfister, John R., assignor.)
- Marvin, Samuel W., Cambridge, assignor of one-third to W. J. Marsh, Stow, and one-third to C. G. Wells, Boston, Mass. Clamping device for printing plates. 1,628,394; May 10.
- Marvin, W. B., Manufacturing Company, The. (See Ritter, John J., assignor.)
- Marve Products Limited. (See Barnes-Thomas, Albert, assignor.)
- Marshall, Carl A., Oshkosh, Wis. Convertible vehicle body. 1,629,403; May 17.
- Marwede, Richard L., New York, N. Y., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass. Cover paper or the like. Des. 71,984; Feb. 8.
- Marwede, Johann E., and J. Looser, Honningen-on-the-Rhine, assignors to Rhania Verein Chemischer Fabrikanten A.-G., Aachen, Germany. Making barium carbonate. 1,615,515; Jan. 25.
- Marwick, James, Santa Barbara, Calif. Exercising swimming tank. 1,630,797; May 31.
- Marwin, Alfred C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Casein glue. 1,625,483; Apr. 19.
- Marx, Carl, Wyoming, Milburn Township, N. J., assignor to Union Sulphur Company. Communiting fusible solids. 1,614,566; Jan. 18.
- Marx, Carl, Wyoming, Milburn Township, Essex County, N. J., assignor to Union Sulphur Company. Sulphur composition of diminished inflammability and producing the same. 1,619,357; Mar. 1.
- Marx, Carl, Wyoming, N. J., assignor of one-half to R. Weiss, New York, N. Y. Preparation of concentrated union glue. 1,619,826; Mar. 8.
- Marx, Jonas. (See Cox, George M., assignor.)
- Marx, Louis, New York, N. Y. Toy telephone savings bank. 1,616,753; Feb. 8.
- Marx, Louis, New York, N. Y. Toy. 1,621,266; Mar. 15.
- Marx, Louis, Brooklyn, N. Y. Mechanically-operated toy. 1,625,326; Apr. 19.
- Marx, Louis, Brooklyn, N. Y. Roundabout toy. 1,630,091; May 24.
- Marx, Louis, Brooklyn, N. Y. Toy roundabout. 1,644,933; Oct. 4.
- Marx, Louis, Brooklyn, N. Y. Figure wheeled toy. 1,653,717; Dec. 27.
- Marx, Louis, & Company. (See Esser, Peter, assignor.)
- Marx, Richard, Philadelphia, Pa. Loom. 1,618,843; Feb. 22.
- Marx, Richard, Philadelphia, Pa. Cutting attachment for looms. 1,642,423; Sept. 13.
- Marx, Stephen J. (See Friedlander, I. L., and Marx.)
- Maryland Baking Co. (See Buhse, Maximilian E., assignor.)
- Maryland Baking Co. (See Buhse, Maximilian E., and W. W., assignors.)
- Mas, George N., Washington, D. C. Bottle. Des. 71,919; Jan. 25.
- Mas, George N., Washington, D. C. Bottle. Des. 71,920; Jan. 25.
- Mas, George N., Washington, D. C. Bottle. Des. 72,954; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,955; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,956; June 28.

- Mas, George N., Washington, D. C. Bottle. Des. 72,957; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,958; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,959; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,960; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,961; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,962; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 72,963; June 28.
- Mas, George N., Washington, D. C. Bottle. Des. 74,066; Dec. 13.
- Mas, George N., Washington, D. C. Bottle. Des. 74,067; Dec. 13.
- Mas, George N., Washington, D. C. Bottle. Des. 74,068; Dec. 13.
- Mas, George N., Washington, D. C. Bottle. Des. 74,069; Dec. 13.
- Maschinenbau-Aktiengesellschaft vorm. Starke & Hoffmann. (See Schlagenhauff, Karl, assignor.)
- Maschinenfabrik Augsburg-Nuernberg A. G. (See Jag-schitz, Konrad, assignor.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Fischer, Hans, assignor.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Horn, Leonhard, assignor.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Kolmer, W., and Wirsching, assignors.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Riehm, Wilhelm, assignor.)
- Maschinenfabrik G. Hauser, E. Hinselmann & Co., Gesellschaft mit beschränkter Haftung. (See Jasper, Karl T., assignor.)
- Maschinenfabrik Kappel A.-G. (See Hadam, Max, assignor.)
- Maschinenfabrik Moenus Aktien-Gesellschaft. (See Bohacek, Bruno P., assignor.)
- Maschinenfabrik Rütli. (See Senn, Caspar, assignor.)
- Maschinenfabrik Walter & Kuffer. (See Walter A., and Kuttruf, assignors.)
- Maschinenfabrik Zell J. Krückels. (See Krückels, Joseph, assignor.)
- Mascho, James A., Dallas, Tex. Fusible boiler-check plug. 1,640,611; Aug. 30.
- Mascolo, Aniello, Waterbury, Conn. Flying toy. 1,629,114; May 17.
- Maschuch, Joseph J., East Orange, N. J. Automobile bumper with clamp. 1,618,668; Jan. 17.
- Mase, Roscoe P., Wilksburg, Pa. Method of and apparatus for quantitative determination of gas. 1,634,331; July 5.
- Maserang, John B., Belleville, Ill. Mail-box signal. 1,650,576; Nov. 29.
- Masilorens, Esteban, Olot, Spain, assignor to the Firm of Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Saxony. Production of rib-top fabrics and mechanism for use in producing the same. 1,646,301; Oct. 18.
- Massey, Thomas C., Boston, Mass. Tobacco pipe. 1,634,375; July 5.
- Mason, Arthur C., Hawthorne, N. J. Fabric-slitting machine. 1,647,837; Nov. 1.
- Mason, Arthur C., Hawthorne, N. J. Fabric-shearing mechanism. 1,649,172; Nov. 15.
- Mason, Au & Magenheimer Confectionery Manufacturing Company. (See Belcher, Leslie, assignor.)
- Mason, Bease O., East Orange, N. J., assignor to James McCreery & Company, New York, N. Y. Hat. 1,652,723; Dec. 13.
- Mason, Charles W., Olaa, Hawaii. Bagasse board and making the same. 1,627,103; May 3.
- Mason, Frank B., New Providence, assignor of one-fourth to F. A. Urner, Scotch Plains, one-fourth to E. A. Ford, Westfield, N. J., and one-fourth to A. H. Serrell, New York, N. Y. Oil-testing apparatus for motor vehicles. 1,630,067; May 24.
- Mason, Frank E., McCune, Kans. Letter opener. 1,650,084; Nov. 22.
- Mason, Freeman D., assignor to The Bridgewater Machine Company, Akron, Ohio. Collapsible drum. 1,634,951; July 5.
- Mason, Freeman D., assignor to The Bridgewater Machine Company, Akron, Ohio. Trimmer for strip material. 1,642,998; Sept. 20.
- Mason, Harry E. (See Redbeffer, C. R., and Mason.)
- Mason, Henry L., Asheville, N. C. Electric speed control for motor vehicles. 1,627,985; May 10.
- Mason, Howard, Framingham, and W. Rixby and H. L. Bogan, Jr., Boston, assignors to Shawmut Engineering Company, Dorchester, Mass. Grinding mechanism. 1,624,494; Apr. 12.
- Mason, Leon O., assignor of one-half to A. Willock, Los Angeles, Calif. Camp table. 1,626,293; Apr. 26.
- Mason, Max. (See Hayes, H. C., and Mason.)
- Mason, Ralph K., assignor to The Trumbull-Vanderpool Electric Manufacturing Company, Bantam, Conn. Knock-out-type electrical inclosing box. 1,646,622; Oct. 25.
- Mason, Richard C., Tulsa, Okla. Power transmission. 1,619,576; Mar. 8.
- Mason, Roger, Westfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Gummed-tape-alkalizing device. 1,644,262; Oct. 4.
- Massey, Seaward, Helena, Mont. Ore stamping machine. 1,646,032; Oct. 18.
- Mason, Sumner R., Wilmette, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Process of and apparatus for cleaning metal. 1,625,484; Apr. 19.
- Massey, Sumner R., Wilmette, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Buffing and cleaning of metal parts. 1,632,909; June 21.
- Mason, Thomas S., and E. L. Yungk, Hartford, Conn. Container. 1,627,042; May 3.
- Mason, William D., Richmond, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Petroleum distillation. 1,615,991; Feb. 1.
- Mason, William P., New Mile End, South Australia, assignor of one-half to N. S. Spencer, Adelaide, Australia. Hydraulic shock absorber for motor vehicles. 1,638,777; Aug. 9.
- Masonic History Company. (See Burrell, Walter C., assignor.)
- Massacese, Vincenzo, New York, N. Y. Cushion-spring. 1,622,202; Mar. 22.
- Massarella, John, Cincinnati, Ohio. Confectionery-coating machine. 1,639,263; Aug. 16.
- Massey, Alexander J., Los Angeles, Calif. Traffic signal. 1,640,845; Aug. 30.
- Massey, Cecil, Litchfield, Ill. Burial casket. 1,636,237; Dec. 13.
- Massey Concrete Products Corporation. (See McDaniel, William L., assignor.)
- Massey, Edward M., Wynnewood, assignor of one-half to The Philadelphia Tabloid Publishing Company, Philadelphia, Pa. Puzzle. 1,642,424; Sept. 13.
- Massey-Harris Company. (See Verity, W. J., and Van Sickle, assignors.)
- Massey-Harris Harvester Company. (See Baseman, Ernest, assignor.)
- Massey, Juan C. M., Buenos Aires, Argentina. Motor vehicle. 1,621,942; Mar. 22.
- Massey, Orren, assignor of one-half to S. Williams, Elk City, Okla. Clothing and package carrier. 1,631,543; June 7.
- Massicks, Thomas K., Brakpan, Transvaal, South Africa. Oil separator. 1,627,569; May 10.
- Massillon-Cleveland-Akron Sign Company, The. (See Ackert, Herbert, assignor.)
- Massing, Charles A., Millicreek Township, Erie County, assignor to The Griswold Manufacturing Company, Erie, Pa. Metal baking pan. Des. 73,326; Aug. 23.
- Massingham, Henry R., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for serving material upon a core. 1,629,168; May 17.
- Massingham, Henry R., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for serving material to a core. 1,629,168; May 17.
- Massolle, Joseph. (See Vogt, H., Engl., and Massolle.)
- Massolle, Joseph, Berlin-Grünwald, H. Vogt, Berlin-Wilmersdorf, and J. Engl, Berlin-Grünwald, Germany, assignors to Tri-Ergon Limited, Zurich, Switzerland. 1,630,753; May 31.
- Massolle, Joseph, and J. Engl, Berlin-Grünwald, and H. Vogt, Berlin-Wilmersdorf, Germany, assignors to Tri-Ergon Limited, Zurich, Switzerland. Glow-discharge tube. 1,634,201; June 28.
- Mason, Frank, San Francisco, Calif. Suction head. 1,637,265; July 26.
- Masson, Louis E., New Orleans, La. Sample holder for cloth boards. 1,641,857; Sept. 6.
- Mast, Charles O., Covington, assignor to Mast Lightning Rod Company, West Milton, Ohio. Rod coupling. 1,628,883; Apr. 19.
- Mast Lightning Rod Company. (See Mast, Charles O., assignor.)
- Master, Albert, Park Ridge, Ill. Ball-bearing mounting. 1,626,092; Apr. 26.
- Master Domestic Refrigerating Company. (See Strong, Archie H., assignor.)
- Master Lock Company. (See Soref, Harry, assignor.)
- Master Metal Products, Inc. (See Geibel, John F., assignor.)
- Master Package Corporation, The. (See Hulbert, Edwin P., assignor.)
- Master Woodworker Manufacturing Co., et al. (See Gries, Lester M., assignor.)
- Masterbilt Motor Company. (See Edman, John, assignor.)
- Masterenich Corporation. (See Lynch, E. E., and Mead, assignors.)
- Masters, Frank E., and W. A. Hussey, said Hussey assignor to C. A. Meckling, Tulsa, Okla. Headrest. 1,625,267; Apr. 19.
- Masters, John H., assignor to The Valle-Klimes Company, Dayton, Ohio. Water-supply system and valve therefor. 1,631,142; June 7.
- Masters, W. A., et al. (See Shay, Harry E., assignor.)
- Masters, William T., Khetive, assignor of one-half to S. A. Hoge, Rices Landing, Pa. Rail joint. 1,649,316; Nov. 15.

- Mastin, Herbert G. (See Capps, W. T. and Mastin.)
 Maston, Edward E., Chicago, Ill., assignor to Mid-West Box Company, Chicago, Ill. Packing unit for shipping cases. 1,625,620; Apr. 19.
 Mastrolla, Daniel, et al. (See Caruso, Romeo O., assignor.)
 Mastrontonio, Saviour, New York, N. Y. Luggage carrier. 1,616,632; Feb. 8.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Combined radiator and hood for motor vehicles. Des. 72,104; Mar. 1.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,613,763; Jan. 11.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Sectional vehicle body. 1,621,675; Mar. 22.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,621,676; Mar. 22.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Spring suspension. 1,621,677; Mar. 22.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Window. 1,627,916; May 10.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Vibration dampener. 1,627,917; May 10.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Seat. 1,637,780; Aug. 2.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Vibration dampener. 1,640,788; Aug. 30.
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Actuating mechanism for auxiliary engine unit. 1,654,087; Dec. 27.
 Masury, Alfred F., and E. C. Pink, assignors to The Rubber Shock Insulator Company, Inc., New York, N. Y. Shock-insulated rail track. 1,619,028; Mar. 1.
 Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Air-cooled engine. 1,622,388; Mar. 29.
 Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Multiwheel drive for vehicles. 1,631,975; June 14.
 Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Lubricating system. 1,636,524; July 19.
 Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Supercharging device. 1,646,757; Oct. 25.
 Masury, Alfred F., and A. H. Leipert, assignors to International Motor Company, New York, N. Y. Universal joint. 1,638,947; Aug. 16.
 Masury, Alfred F., New York, and E. R. Gurney, Beechurst, assignors to International Motor Company, New York, N. Y. Frame for vehicles. 1,638,948; Aug. 16.
 Masury, Alfred F., and A. H. Leipert, assignors to International Motor Company, New York, N. Y. Sectional rubber pavement. 1,643,024; Sept. 20.
 Maszczyk, Alexander, Chicago, Ill. Mop. 1,619,624; Mar. 1.
 Maszczyk, Alexander, Chicago, Ill. Lock. 1,645,917; Oct. 18.
 Masztics, Alexander, New York, N. Y. Molding apparatus. 1,651,215; Nov. 29.
 Matchette, Frank J., New York, N. Y. Apparatus for propagation of culture germs. 1,618,461; Feb. 22.
 Mater, F. W., & Co. (See Palm, R. H., and Pohlmann, assignors.)
 Mater, F. W., & Co. (see Pohlmann, William F., assignor.)
 Materny, Otto, Bethlehem, Pa. Reversible window. 1,629,350; May 17.
 Mathe, John M. (See Mathe, Kennedy M. and J. M.)
 Mathe, Kennedy M. and J. M., Hammond, Ind. Ore concentrator. 1,638,864; Aug. 16.
 Mather, Aloizo C., Chicago, Ill. Uncoupling link for railroad cars. 1,638,339; June 21.
 Mather, Aloizo C., Chicago, Ill. Car roof. 1,650,949; Nov. 29.
 Mather, Greig R., London, England. Garment-cutting device. 1,642,964; Sept. 20.
 Mather & Platt Limited. (See Taylor, John, assignor.)
 Mathers, Kenneth A., Haskins, Iowa. Amusement device. 1,635,375; July 12.
 Mathes, Guy, Van Nuys, Calif. Clamp. 1,613,354; Jan. 4.
 Mathes, John A., San Diego, Calif. Kerosene vaporizer. 1,624,270; Apr. 12.
 Mathes, Robert C., Wyoming, N. J., assignor by mesne assignments to Western Electric Company, Incorporated. Carrier-wave signaling. 1,624,495; Apr. 12.
 Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling. 1,631,976; June 14.
 Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,640,462; Aug. 30.
 Mathes, Virgil H., Indianapolis, Ind. Timer. 1,625,268; Apr. 19.
 Matheson, Andrew A., Denver, Colo. Sugar-beet-seed dropper. 1,638,049; Aug. 9.
 Matheson, Duayne E., Cedar City, Utah. Automatic film rewinder. 1,653,964; Dec. 27.
 Matheson, Frederick J., Newark, N. J. Hair-tinting device. 1,637,781; Aug. 2.
 Matheson, Howard W., assignor to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Composition for use in the manufacture of or for use as varnishes and the like and making the same. 1,650,899; Nov. 29.
 Matheson, Howard W., Montreal, Quebec, Canada, assignor to Canadian Electro Products Co. Limited. Making condensation products. 1,653,302; Dec. 20.
 Matheson, Howard W., Montreal, and K. G. Blaikie, Shawinigan Falls, assignors to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Manufacture of lactic-acid esters. 1,650,950; Nov. 29.
 Mathews, Karl, Chicago, Ill. Gas washer. 1,617,534; Feb. 15.
 Mathews, Fred. (See Strid, Sven J., assignor.)
 Mathews, Fred, Chicago, Ill. Mounting for brake gears. 1,620,271; Mar. 8.
 Mathews, Fred, Chicago, Ill. Gearing. 1,642,120; Sept. 13.
 Mathews, Robert F., Newark, N. J., assignor to The Heather-Mathews Co., New York, N. Y. Combination vice. Des. 73,695; Oct. 18.
 Mathews, Robert F., Newark, N. J., assignor to The Heather-Mathews Co., New York, N. Y. Table lamp. Des. 73,686; Oct. 18.
 Mathews, William P., Kenersville, assignor to Monarch Machine and Manufacturing Company, Greensboro, N. C. Saw-attachment for automobiles. Rel.6,815; Dec. 13.
 Mathewson, Paul, New York, N. Y. Making foot molds. 1,642,930; Sept. 20.
 Mathewson, Paul, Durham, Conn. Desk tray. 1,645,151; Dec. 11.
 Mathews, Louis C., Nashville, Tenn. Strain-applying device for fishing rods. 1,613,522; Jan. 4.
 Mathew, Louis C., Nashville, Tenn. Strain-applying device for fishing rods. 1,613,302; Feb. 22.
 Mathew, Louis C., Nashville, Tenn. Fishing hook. 1,619,147; Mar. 1.
 Mathias, Maximilian, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Automatic telephone switching system. 1,647,966; Nov. 1.
 Mathiasen, Georg E., Copenhagen, Denmark. Ironing machine. No. 3,357; Nov. 15.
 Mathiesen, Marius, assignor to Mathiesen Sandberg Company, Chicago, Ill. Collapsible loop aerial. 1,614,484; Jan. 18.
 Mathiesen Sandberg Company. (See Mathiesen, Marius, assignor.)
 Mathison, Alkali Works, The. (See Brooks, Benjamin T., assignor.)
 Mathieson Alkali Works, The. (See Evans, George S., assignor.)
 Mathieson Alkali Works, The. (See Goodwin, Camillo J., assignor.)
 Mathieson Alkali Works, Inc., The. (See Guyer, J. A., and Taylor, assignors.)
 Mathieson Alkali Works, Inc., The. (See MacMahon, James H., assignor.)
 Mathieson Alkali Works, The. (See MacMullin, Robert B., assignor.)
 Mathieson Alkali Works, Inc., The. (See MacMullin, R. B., and Greenheimer, assignors.)
 Mathieson Alkali Works, Inc., The. (See Mauran, Max, assignor.)
 Mathieson Alkali Works, The. (See Parker, Harrison O., assignor.)
 Mathieson Alkali Works, Inc., The. (See Taylor, Maurice C., assignor.)
 Mathieu, Frederick W. (See Krause, A. R., and Mathieu.)
 Mathieu, Harry J., Oakland, Calif. Sound-receiving earpiece. 1,624,144; Apr. 12.
 Mathis, Frederick W., Lynchburg, Va., assignor to Draper Corporation, Hopedale, Mass. Shuttle-feeler thread partier and clamp. 1,626,546; Apr. 26.
 Mathis, E. William E., Elkhart, Ind. Cable construction. 1,652,249; Dec. 13.
 Mathouser, Charles B., and F. A. Leui, Comstock, Nebr. Automatic oiler. 1,612,979; Jan. 4.
 Matias, Steve. (See Gatal, George, assignor.)
 Matlack, Adelaide C., Miami, Fla. Artificial flower. 1,620,533; Nov. 13.
 Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Method and apparatus for producing carbon. Rel.6,765; Oct. 11.
 Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Carbon black process and apparatus for producing same. 1,617,071; Feb. 8.
 Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Process and apparatus for producing carbon black. 1,617,072; Feb. 8.
 Matlock, Chauncey, New York, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Apparatus for separating particles from gases at high temperatures. 1,617,073; Feb. 8.
 Matlock, Chauncey, New York, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Process and apparatus for producing carbon black. 1,617,074; Feb. 8.

- Matson, Carl A., Lynnfield, Mass., assignor to Shoe Lace Company, Ltd., Providence, R. I. Lace-tipping machine. 1,613,715; Jan. 11.
- Matson, Carl A., Lynnfield, Mass., assignor, by mesne assignments to Shoe Lace Company, Ltd., Providence, R. I. Tipping lacing. 1,613,840; Jan. 11.
- Matson, Marcus B., New York, N. Y. Automatic safety appliance for gas burners. 1,640,045; Aug. 23.
- Matson, Oscar A., Chicago, Ill. Spading device. 1,624,610; Apr. 12.
- Matson, Taylor, Philadelphia, Pa. Boiler. 1,653,649; Dec. 27.
- Matsumita, Gentaro, Selma, Calif. Automatic fire extinguisher. 1,625,086; Apr. 19.
- Mattitack Manufacturing Company, The. (See Raeburn, William, assignor.)
- Matte, Andrew L., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. System of synchronizing signaling apparatus. 1,645,607; Oct. 18.
- Matti, Diego, and A. Mazza, assignors to "Eternit," Pietra Artificiale, Società Anonima, Genoa, Italy. Apparatus for the manufacture of tubes of cement asbestos or similar substances. 1,627,104; May 3.
- Mattenklott, Karl, and H. Schramm, assignors to Duisburg-Kupferhütte, Duisburg, Germany. Recovery of copper, zinc, and other metals from solutions containing chlorides and sulphates. 1,639,610; Aug. 16.
- Mattis, Albert J., Chicago, Ill. Automobile direction-indicating lens. Des. 71,943; Feb. 1.
- Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Golf club. 1,620,118; Mar. 8.
- Mattern, Phil J., and H. N. Walker, assignors of one-third to E. C. Ballman, Oelwein, Iowa. Baseball game. 1,634,296; July 5.
- Mattern, William J., Lewistown, Pa. Pipe. 1,627,797; May 10.
- Mattes, Hermann, assignor to C. D. Magirus Aktiengesellschaft, Ulm, Germany. Mechanical ladder. 1,637,197; July 28.
- Matteson, Frederick R., Taunton, assignor to F. P. Daughday, Chertley, Mass. Belt buckle. 1,631,104; May 31.
- Matteson, George F. (See Van Veen, A., and Matteson.)
- Mattucci, Ettore, Turin, Italy. Planetary gear. 1,643,142; Nov. 8.
- Matthai, William E., Garrison, Md. Decoy. 1,617,075; Feb. 8.
- Matthai, William H., assignor to The Homeland Mfg. Co., Baltimore, Md. Handle for tools. 1,620,480; Mar. 8.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,623,694; Apr. 5.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,633,867; June 28.
- Matthew Green, Detroit, E. M. Jones, Adrian, and H. H. Willard, Ann Arbor, assignors to Parker Rust-Proof Company, Detroit, Mich. Rustproofing. 1,651,694; Dec. 6.
- Matthews, Algernon W., Haverhill, Mass., assignor to The Machine Shop Corporation, Paterson, N. J. Machine for operating on heels. 1,642,738; Sept. 20.
- Matthews, Carlton T., assignor of one-half to H. K. Matthews, Green Bay, Wis. Tie plate. 1,620,908; Mar. 15.
- Matthews, Duke C., et al. (See Liles, Thomas O., assignor.)
- Matthews, Edgar M., Jamaica, N. Y., and J. A. Carr, East Orange, N. J., assignors to American Telephone and Telegraph Company. Deflection dynamometer. 1,631,143; June 7.
- Matthews, Fred T., Brisbane, Australia. Device for use in transmitting signals in connection with fire and burglar alarm systems and the like. 1,650,143; Nov. 22.
- Matthews, Harold K. (See Matthews, Carlton T., assignor.)
- Matthews, Harry E., W. H. Love, and H. T. Ryder, Greensboro, N. C. Electric stop motion for textile machines. 1,627,292; May 3.
- Matthews, Horatio, Ealing, London, England. Picture. 1,612,879; May 24.
- Matthews, Howard D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,621,020; Mar. 15.
- Matthews, Howard D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermoelectric material. 1,650,951; Nov. 29.
- Matthews, Howard D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,642,039; Sept. 18.
- Matthews, J. March, et al. (See Gallagher, George D., assignor.)
- Matthews, James H. (See Ecke, W. R., and Matthews.)
- Matthews, James H. (See Ehrlie, H. W., and Matthews.)
- Matthews, James H., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Embossing. Re16,718; Aug. 23.
- Matthews, Jas. H. & Co. (See Matthews, James H., assignor.)
- Matthews, Jas. H. & Company. (See Ecke, W. R., and Matthews, assignors.)
- Matthews, Jas. H. & Company. (See Wade, H. R., and Hanley, assignors.)
- Matthews, Joseph L., Highland Park, N. J., assignor to International Motor Company, New York, N. Y. Lathe attachment for turning irregular profiles. 1,646,758; Oct. 25.
- Matthews, Joseph M., assignor to Gloriet, Inc., New York, N. Y. Dye composition. 1,630,624; May 31.
- Matthews, Joseph W., Menard, Tex. Gate. 1,615,095; Jan. 18.
- Matthews, Kinchen N., Cleveland, Ohio. Piston. 1,618,600; Feb. 22.
- Matthews, Kinchen N., Cleveland, Ohio. Piston. 1,618,601; Feb. 22.
- Matthews, Nessing J., Lakewood, Ohio. Cover for shoes of shoe skates. 1,649,840; Nov. 22.
- Matthews, Newton W., Fullerton, Calif. Vehicle signal device. 1,637,702; Aug. 2.
- Matthews, Philip B., Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Oiling system for bearings. 1,631,217; June 7.
- Matthews, Percy, West Kensington, London, and A. Bracher, Bryow, Burnham-on-Sea, England. Cooling apparatus for cream and other viscous liquids. 1,634,910; July 5.
- Matthews, Roy C., Buffalo, N. Y. Disappearing seat. 1,649,608; Nov. 15.
- Matthews, Thomas A., Bethpage, Tenn. Automatic gate. 1,648,691; Nov. 8.
- Matthews, W. N., Corporation. (See Heinrich, Walter A., assignor.)
- Matthews, William G., Palatka, Fla. Lamp for automobiles. 1,624,842; Apr. 12.
- Matthews, William H., Newburgh, N. Y. Bed-spring fabric. 1,630,196; May 24.
- Matthias, Gilbert L., and W. D. Kmentt, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for forming sleeves and associating them with articles. 1,629,170; May 17.
- Matthiesen, Fred, Cincinnati, Ohio. Automatic automobile. 1,614,648; Jan. 12.
- Matthiessen, Anton, Oakland, Calif. Ventilator. 1,640,575; Aug. 30.
- Matthiessen, Conrad H., Jr., New York, N. Y. Slide-valve mechanism for internal-combustion engines. 1,617,019; Feb. 8.
- Matthieson Hegeler Zinc Co. (See Gerlach, Oscar, assignor.)
- Matthiessen, Paul, and A. D. Möller, Hamburg, Germany. Floating dry dock. 1,632,491; June 14.
- Mattice, Royal, Bethlehem, Pa. Repairing broken mechanical structures. Re16,599; Apr. 19.
- Mattice, Royal, Bethlehem, Pa. Welding tool. 1,632,411; June 14.
- Mattice, Royal, Bethlehem, Pa. Connecting metallic elements. 1,634,674; July 5.
- Mattice, Royal, Bethlehem, Pa. Electric welding. 1,634,675; July 5.
- Mattice, Royal, Bethlehem, Pa. Repairing cracked or broken structures by welding. 1,650,144; Nov. 22.
- Mattice, Royal, Philadelphia, Pa. Truck for supporting electric welding apparatus. 1,612,980; Jan. 4.
- Mattingly Automatic Valve Co. (See Mattingly, Charles F., assignor.)
- Mattingly, Charles F., assignor to Mattingly Automatic Valve Co., St. Louis, Mo. Hydraulic brake. 1,625,418; Apr. 19.
- Mattison, Hans S., La Crosse, Wis., assignor to New Era Products Company, Minneapolis, Minn. Heating system for intake manifolds and circuits for same. 1,632,139; June 14.
- Mattison Machine Works. (See Medholdt, Louis T., assignor.)
- Mattison, Richard V., Ambler, Pa., assignor to Ambler Asbestos Company. Method and apparatus for producing plastic articles. 1,623,631; Apr. 5.
- Mattiel, Ernest, Brussels, assignor to Fabrique Nationale d'Armes de Guerre, Société Anonyme, Herstal-lez-Liège, Belgium. Firing socket or cup for grenades. 1,622,160; Mar. 22.
- Mattison, Gustave W., Chicago, Ill. Wire twisting and cutting tool. 1,641,822; Sept. 6.
- Mattison, John B., Boston, Mass. Fountain-pen holder. 1,612,382; Jan. 4.
- Mattison, Matt, Hibbing, Minn. Platform-operated garage-door latch. 1,652,574; Dec. 13.
- Mattison, Paul O., Denver, Colo. Folding easel. 1,625,904; Apr. 26.
- Matzelle, Ferdinand, Saginaw, Mich. Cereal food product. 1,643,507; Sept. 27.
- Matzke, Company, Mount Vernon, N. Y. Displaying and dispensing apparatus for beverages. 1,654,379; Dec. 27.
- Mau, Edward A., New Haven, assignor to Rockbestos Products Corporation, New Haven, Conn. Insulated-conductor terminal. 1,645,539; Oct. 18.
- Mauborgne, Joseph O. (See Squier, G. O., Mauborgne, and Cohen.)
- Mauborgne, Joseph O., and G. Hill, Washington, D. C. Wave meter. 1,632,982; June 21.
- Mauch, John L., Brooklyn, N. Y. Nut lock and the like. 1,630,958; May 31.
- Mauch, Wilhelm, Los Angeles, Calif. Powder feeder. 1,622,659; June 14.
- Mauck, Victor, Norristown, assignor to John Wood Manufacturing Company, Conshohocken, Pa. Making cans. 1,654,135; Dec. 27.

- Maudsley, Richard T., Quinton, Birmingham, assignor to Packards & James Fison (Theftford) Ltd., Ipswich, England. Sulphuric acid chamber. 1,627,043; May 8.
- Mäueler, Wilhelm, Barmen, Germany. Lacquering or varnishing apparatus. 1,618,235; Jan. 4.
- Mauk, Frederick M., Prescott, Ariz. Electric switch. 1,646,924; Oct. 25.
- Maul, Hans, Pasing, near Munich, Germany. Pneumatic tire. 1,630,535; May 31.
- Maulsby, Zene, Everett, Wash. Burial casket. Des. 72,523; Apr. 26.
- Mauney, William C., and W. L. Dunn, Gastonia, N. C. Sand-blast system 1,641,342; Sept. 6.
- Maunsell, Leslie B. (See Drummond, Thomas N., assignor.)
- Maupin, Eugene L., New York, N. Y. Dyeing silk. 1,635,761; July 12.
- Maupin Automotive Corporation. (See Maupin, Edward H., assignor.)
- Maupin, Edward H., Dallas, Tex., assignor to Maupin Automotive Corporation. Internal-combustion engine. 1,628,894; May 17.
- Maupin, Everett N., Fallon, Nev. Lead-in connection. 1,642,618; Sept. 13.
- Maupin, Graves R., assignor to The J. Faessler Manufacturing Company, Moberly, Mo. Method of and apparatus for finishing cylindrical bearing surfaces. 1,619,476; Mar. 1.
- Mauran, Max, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Gas-absorption apparatus. 1,619,430; Mar. 1.
- Maurer, Alvin F., et al. (See Gerau, George B., assignor.)
- Maurer, Conrad B. and H. E., Philadelphia, Pa. Scenery-forming papers. 1,650,372; Nov. 22.
- Maurer, D. W. (See Parrish, Benjamin E., assignor.)
- Maurer, Edward A. (See Maurer, Russell L., assignor.)
- Maurer, Frank, Sekitan, assignor of one-half to D. E. brushing device. 1,620,774; Mar. 15.
- Maurer, Howard P. (See Maurer, Conrad B. and H. P.)
- Maurer, Johann A., Breslau, assignor to Maurer-Textil-Maschinen G. m. b. H. Konstantin-Schneiderstrasse, Breslau-Carlowitz, Prussia, Germany. Pump for viscous liquids. 1,632,304; June 14.
- Maurer, John F., Jr., Woodcliff, N. J. Crate. 1,635,133; July 5.
- Maurer, Louis A., Irvington, N. J., assignor to General Electric Company. Sealing-off torch. 1,631,379; June 7.
- Maurer, Max, and E. Haschek, Klosterneuburg, Austria, assignors to C. P. Goetz Optische Anstalt Aktiengesellschaft, Aklavos, Czechoslovakia. Receiving and sending of directional sound rays. 1,649,538; Nov. 15.
- Maurer, Michael, Spisska Nova Vos, Czechoslovakia. Drafting instrument. 1,625,735; Apr. 19.
- Maurer, Oscar V., East Cleveland, Ohio. Incandescent lamp. 1,630,128; May 22.
- Maurer, Oswald H., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Terminal for electric conductors. 1,625,485; Apr. 19.
- Maurer, Otto J. (See Hohl, J., and Maurer.)
- Maurer, Russell L., Indianapolis, Ind., assignor of one-half to A. Maier, Mechanical Interconnecting separate telephone systems. 1,630,538; May 31.
- Maurer-Textil-Maschinen G. m. b. H. (See Maurer, Johann A., assignor.)
- Mauriell, Ralph, Oceansport, N. J. Scalp-treatment hot-water cap. 1,630,625; May 31.
- Mauro, Louis, Beaver Falls, Pa. Belt buckle. 1,636,379; July 19.
- Maury, Alfred D., Ilion, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Spring-pad construction. 1,630,665; May 31.
- Maus, Frank, San Francisco, assignor to Johnson Washer Company, Oakland, Calif. Driving mechanism for washing machines. 1,641,770; Sept. 6.
- Maus, Harry P., and D. M. Lamson, Lima, Ohio, assignors to The Page Organ Company. Sectional pipe chest. 1,645,608; Oct. 18.
- Mausser, Alfons, Cologne-Marienburg, Germany. Closure for receptacles. 1,617,076; Feb. 8.
- Mausser, Alfons, Cologne-Marienburg, Germany. Forming cover-holding ring seats for containers. 1,624,496; Apr. 12.
- Mausser, Alfons, Cologne-Marienburg, Germany. Process and apparatus for increasing the strength of articles. 1,628,259; May 10.
- Mausser, Alfons, Cologne-Marienburg, Germany. Closure for vessels. 1,632,031; June 14.
- Mausser, Alfons, Cologne-Marienburg, Germany. Metal-working machine. 1,651,140; Nov. 29.
- Mauss, Wilhelm, Durban, Natal, South Africa. Rotary vacuum filter. 1,612,873; Jan. 4.
- Mauss, Wilhelm, Durban, Natal, South Africa. Balancing single acting pistons. 1,627,658; May 10.
- Mauss, Wilhelm, Durban, Natal, South Africa. Cake-washing means for rotary vacuum filters. 1,646,653; Oct. 25.
- Mauss, Wilhelm, Durban, Natal, South Africa. Jacketing arrangement for internal-combustion engines. 1,653,713; Dec. 27.
- Mauss, Wilhelm, Durban, Natal, South Africa. Thermodynamic pumping apparatus. 1,653,719; Dec. 27.
- Mauthe, James L., Elyria, Ohio. Splasher plate for blast furnaces. 1,640,663; Aug. 30.
- Mayrogenis, Aristotle, Milwaukee, Wis. Electron-discharge device. 1,616,914; Feb. 8.
- Mayrogenis, Aristotle, Milwaukee, Wis. Electron-discharge device. 1,638,499; Aug. 9.
- Max, Ans Machine Company, The. (See Brenzinger, Julius, assignor.)
- Max Ans Machine Company, The. (See Lange, Paul H., assignor.)
- Max Ans Machine Company, The. (See Brenzinger, J., and Lange, assignors.)
- Maxey, Robert E. L., New York, N. Y. Tie and fastening. 1,644,934; Oct. 11.
- Maxey, Thomas J., Miami Shores, Fla. Combination cigarette and match-box container. 1,639,461; Aug. 16.
- Maxfield, Fred E. (See Ware, N. Charles I., assignor.)
- Maxfield, Joseph P., Wyoming, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Sound-recording method. 1,637,082; July 26.
- Maxim, Hiram P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,636,238; July 19.
- Maxim, Hiram P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,637,885; Aug. 2.
- Maxim, Hiram P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,639,047; Aug. 16.
- Maxim, Jesse H., Everett, Mass. Power transmission unit. 1,628,260; May 10.
- Maxim Silencer Company, The. (See Maxim, Hiram P., assignor.)
- Maxmore Corporation. (See Moore, Arlington, assignor.)
- Maxner, George E., West End, N. J. Apparatus for piling sheets of paper. Re16,779; Nov. 1.
- Maxner, George E., Somerville, Mass. Apparatus for piling sheets of paper. 1,623,195; Apr. 19.
- Maxon, Glenway, Jr., Milwaukee, Wis. Finishing machine for concrete roads. 1,619,083; Mar. 1.
- Maxson, Charles B., assignor of one-half to J. W. Maxson, Western, R. I. Feeding and cutting mechanism. 1,618,152; Jan. 4.
- Maxson, James A., Picher, Okla. Child's vehicle. 1,637,266; July 26.
- Maxson, Julian. (See Maxson, Charles B., assignor.)
- Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Feeding mechanism. 1,614,038; Jan. 11.
- Maxson, Rolland H., assignor, by mesne assignments, to The Burdick Corporation, Milton, Wis. Therapeutic appliance. 1,638,353; Aug. 9.
- Maxwell, Colin J. E., Montreal, assignor to Quinlan, Robertson & Janin Limited, Montreal, Quebec, Canada. Clamping device for molds. 1,645,609; Oct. 18.
- Maxwell, Frank D., Boise, Idaho. Hat. 1,625,670; Apr. 19.
- Maxwell, George B., Potosi, Mo. Governor for power attachments. 1,627,660; May 10.
- Maxwell, George H. (See Westhaver, Norman J., assignor.)
- Maxwell, James D., Brooklyn, N. Y. Valve. 1,613,183; Jan. 4.
- Maxwell, James D., Brooklyn, N. Y. Pump packing. 1,619,211; Mar. 1.
- Maxwell-Lefroy, Harold, London, England, assignor to The Graesser Monsanto Chemical Works Limited, Rualbolet, West Waller. Determinating injurious forms of life and composition therefor. 1,613,402; Jan. 4.
- Maxwell, Maxwell C., assignor to The Yale and Towne Manufacturing Company, Stamford, Conn. Cylinder lock. 1,637,953; Aug. 2.
- Maxwell, Mayer K., Butte, Mont. Electrical fixture. 1,620,909; Mar. 15.
- Maxwell, Raymond F., Long Beach, assignor of one-half to C. C. Hosmer, Huntington Beach, Calif. Liner puller. 1,650,023; Nov. 22.
- Maxwell, Raymond F., Long Beach, assignor of one-half to C. C. Hosmer, Huntington Beach, Calif. Valve-seat and liner puller. 1,650,024; Nov. 22.
- Maxwell, Robert G., Oakland, Calif. Egg beater. 1,616,817; Feb. 8.
- Maxwell, Rupert, Chicago, Ill. Slug-dispensing cabinet. 1,648,774; Nov. 8.
- May, Adam J., assignor to Ritter Dental Manufacturing Co., Rochester, N. Y. Dental chair. 1,642,258; Sept. 13.
- May, Charles J., Mishawaka, Ind. Jar holder. 1,620,272; Mar. 8.
- May, David T., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wire-splicing machine. 1,645,152; Oct. 11.
- May, Enoch A., Jackson, Miss. Computing gauge or scale for gasoline-station pumps. 1,642,921; Sept. 20.
- May, Frederick T., Montclair, N. J., assignor to Westinghouse Lamp Company. Stamp-inking device for etching machines. 1,647,646; Nov. 1.
- May, George, Oil City, La. Stop signal for automobiles. 1,627,654; May 10.
- May, Gerald J., Detroit, Mich. Checkbook. 1,646,033; Oct. 18.
- May, Hans W., Kansas City, Mo. Sound-producing device. 1,653,221; Dec. 20.
- May, Harry E., assignor to Economy Vaporizer Company, Kansas City, Mo. Fuel vaporizer for internal-combustion engines. 1,624,271; Apr. 12.
- May, Horace B., Washington, D. C. Lubricating device. 1,647,924; Nov. 1.
- May Hosley Mills. (See Perry, Napoleon J., assignor.)

- May Hosiery Mills. (See Smith, William L., jr., assignor.)
- May, John C., Augusta, Ga. Bottle. Des. 72,630; May 10.
- May, John W., Kirkllyn, Pa. Anchor footing for steel towers. 1,647,925; Nov. 1.
- May, John W., Cambridge, assignor to May Universal Last Corporation, Boston, Mass. Last. 1,653,965; Dec. 27.
- May, John W., Belmont, assignor to May Universal Last Corporation, Boston, Mass. Last. 1,651,007; Dec. 27.
- May, John W., assignor to May Universal Last Corporation, Boston, Mass. Last. 1,654,008; Dec. 27.
- May, Joseph, Frankfort-on-the-Main, Germany. Apparatus for observing the variation of the sole-treading surface when the foot is under load and not under load. 1,643,626; Sept. 27.
- May, Joseph S., Jersey City, N. J. Ribbon reel. 1,628,795; May 17.
- May, Maxwell L., Palos Park, assignor to De Remer Watchford Company, Chicago, Ill. Furnace. 1,615,197; Jan. 18.
- May, N. E. (See Patus, A., and Nagy, assignors.)
- May, Otto, Newark, N. J. Drawing sheet metal. 1,649,841; Nov. 22.
- May Universal Last Corporation. (See May, John W., assignor.)
- May, William F., Thornton Heath, assignor of one-half to J. A. Keene, London, England. Luncheon or picnic box or case. 1,642,374; Sept. 13.
- Mayer, Benjamin, assignor to The Pronto Manufacturing Company, Baltimore, Md. Electric cooking device. 1,620,602; Mar. 8.
- Mayer, Emil, Vienna, Austria. Device for determining photographic exposures. 1,621,991; Mar. 22.
- Mayer, Emil M., Cincinnati, Ohio. Child's vehicle. 1,620,563; Mar. 8.
- Mayer, Emil M., Cincinnati, Ohio. Child's vehicle. 1,644,535; Oct. 4.
- Mayer, Fred G., assignor to Starr Piano Company, Richmond, Ind. Combined radio and phonograph apparatus. 1,620,481; Mar. 8.
- Mayer, Fritz, assignor to the Firm of C. D. Magirus A.-G., Ulm-on-the-Danube, Wurttemberg, Germany. Mast or support for life-saving apparatus. 1,615,128; Jan. 18.
- Mayer, George A., Lakewood, assignor to The Manifold Company, Cleveland, Ohio. Printing apparatus. 1,646,034; Oct. 18.
- Mayer, Gustave, Brooklyn, N. Y. Electrical illuminated toy top. 1,639,526; Aug. 16.
- Mayer, Hermann, Berlin-Lichterfelde-West, Germany. Electric incandescent lamp made of glass tubing. 1,651,287; Nov. 29.
- Mayer, John, Schenectady, N. Y. Game. 1,623,881; Apr. 5.
- Mayer, Josef, Karlsbad, Czechoslovakia. Permanent-hair-waving appliance. 1,619,794; Mar. 1.
- Mayer, Josef, Karlsbad, Czechoslovakia. Hair-waving appliance and method. 1,622,957; Mar. 29.
- Mayer, Karl, Vienna, Austria. Turntable. 1,620,273; Mar. 8.
- Mayer, Leo, Boston, Mass. Shelving. 1,654,183; Dec. 27.
- Mayer, Leon, Chicago, Ill. Bill fold or similar article. Des. 72,438; Apr. 19.
- Mayer, Leon, Chicago, Ill. Key case. 1,646,827; Oct. 25.
- Mayer, Max. (See Wobl, M. J. and Mayer.)
- Mayer, Max, K. Flueck, and F. Koref, assignors to the Firm Chemische Werke vormals Auerergesellschaft m. b. H. Kommanditgesellschaft, Berlin, Germany. Eye-glass. 1,633,946; June 28.
- Mayer, Oscar G., Chicago, Ill. Machine for linking sausages. 1,645,610; Oct. 18.
- Mayer, Paul, and F. Vett, Lodi, Calif. Disk attachment for gang plows. 1,616,687; Feb. 8.
- Mer, Robert A., Hales Corners, Wis. Automobile accessory. 1,621,849; Mar. 22.
- Mayer, Robert F., Vienna, Austria, assignor to the Limited Company W. C. Heraus Gesellschaft mit beschränkter Haftung, Hanau-on-the-Main, Germany. Combination of glass and metal bodies. 1,649,907; Nov. 22.
- Mayer, Rudolf. (See Kahn, M. and Mayer.)
- Mayer, Sally, and H. Nährstedt, St. Louis, Mo. Humidifier for ovens. 1,632,492; June 14.
- Mayer, Walter M., Chicago, Ill. Grease or oil gun or the like. 1,644,687; Oct. 11.
- Mayer, Walter S., Philadelphia, Pa. Conductor support. 1,639,627; Aug. 16.
- Mayer, William, New York, N. Y. Trailer coupler. Re-17,613; Sept. 6.
- Mayer, William G., Pittsburgh, Pa. Shock-absorbing means. 1,653,580; Dec. 20.
- Mayers, Haden C., Cleveland, Ohio, assignor of one-half to L. F. Montgomery, Portland, Ind. Automatic arch support for shoes. 1,652,034; Dec. 6.
- Mayers, Stanley G., Chicago, Ill. Educational board. 1,618,952; Feb. 22.
- Mayers, Stanley G., Chicago, assignor of seven-twentieths to C. and H. Karel, Chicago, Ill. Combined brush and squeegee. 1,636,425; July 19.
- Mayers, Wilbur S., assignor to Monongah Glass Company, Fairmont, W. Va. Apparatus for handling glassware. 1,650,900; Nov. 29.
- Mayhew, James E., Brooklyn, N. Y. Confectionery container. 1,613,282; Jan. 4.
- Mayhew, James E., Brooklyn, N. Y. Garment hanger. 1,619,742; Mar. 1.
- Mayhew Steel Products Company. (See Carlson, Frederick O., assignor.)
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Lens cutters. 1,614,078; Jan. 11.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Edging machine. 1,619,358; Mar. 1.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Lens cutter. 1,621,331; Mar. 15.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Surfacing-machine spindle attachment. 1,634,952; July 5.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Lens measure. 1,637,024; July 26.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Lens-edging machine. 1,651,532; Dec. 6.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Grinding stone. 1,651,533; Dec. 6.
- Maynard, Arthur H., Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Stapling machine or tacker. 1,634,840; July 5.
- Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method and apparatus for forming bead wires. 1,615,468; Jan. 25.
- Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube manufacture. 1,615,992; Feb. 1.
- Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube end beveling and sealing device. 1,642,456; Sept. 13.
- Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Beveling the ends of inner tubes. 1,649,358; Nov. 15.
- Maynard, Frederick F. (See Fitz Gerald, M. E. W., and Maynard.)
- Maynard, Howard E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Clutch plate. 1,613,669; Jan. 11.
- Maynard, James W., Memphis, Tenn. Temperature indicating and time-indicating attachment therefor. 1,641,943; Sept. 6.
- Maynes Corporation. (See Maynes, Hyla F., assignor.)
- Maynes, Hyla F., North Tonawanda, N. Y., assignor to Maynes Corporation, Dover, Del. Amusement ride. Re-16,569; Mar. 8.
- Maynes, Hyla F., North Tonawanda, N. Y., assignor to Maynes Corporation, Dover, Del. Drive for amusement rides. 1,627,192; May 3.
- Mayo, Dana H., Detroit, Mich. Baffle for water-tube boilers. 1,634,077; June 28.
- Mayo, Frederick C. C. (See Hawes, A. B., Horton, and Mayo.)
- Mayo, Lonnie M., Detroit, Mich. Air-propelled novelty device. 1,628,796; May 17.
- Mayorowitz, Maurice, New York, N. Y. Detachable-heel construction. 1,633,449; June 21.
- Mayoza, Nathan R., Memphis, Tenn. Multiple plural switch. 1,639,952; Aug. 23.
- Maytag Company, The. (See Snyder, Howard F., assignor.)
- Maywald, Frederick J., Rutherford, N. J. Combined hollow rubber toy and sound-emission device. 1,616,664; Feb. 8.
- Maywood Chemical Works. (See Weber, Friedrich W., assignor.)
- Maze, Harry T., and L. Bever, Anderson, Ind. Planter attachment. 1,643,414; Sept. 27.
- Mazza, Adolfo. (See Mattel, D., and Mazza.)
- Mazza, Leandro. (See Alfani, G., and Mazza.)
- Mazzur, Frank A. (See Seaver, E., and Mazzur.)
- Mazzur, Mattie F., administratrix. (See Seaver, E., and Mazzur.)
- McAdoo, William G., Los Angeles, Calif. Carrying and dispensing kit. 1,648,992; Nov. 15.
- McAfee, Almer M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Distilling with aluminum chloride. 1,636,144; July 19.
- McAlevey, Grace A., Fond du Lac, Wis. Apparatus for teaching music. 1,618,400; Jan. 4.
- McAllister, George R., Rochester, N. Y. Figure toy. 1,649,072; Nov. 15.
- McAllister, Ellis H., Moorestown, N. J. Automatic valve adjuster and silencer. 1,624,497; Apr. 12.
- McAllister, John E., Cleveland, Ohio. Meter. 1,648,491; Nov. 8.
- McAndrew, Michael J., Clarksburg, W. Va. Rail tie. 1,638,740; Aug. 9.
- McAnish, Byron A., Chicago, Ill. Collapsible spout. 1,631,951; June 7.
- McArdle, Michael W., Chicago, Ill. Sprinkler. Des. 73,327; Aug. 23.
- McArdle, Michael W., Chicago, Ill. Spray nozzle. 1,625,042; Apr. 19.
- McArdle, Michael W., Chicago, Ill. Drying rack. 1,632,032; June 14.

- McArdle, Michael W., Chicago, Ill. Vibrating cutter for sheep shears and the like. 1,644,140; Oct. 4.
- McArdle, Michael W., Chicago, Ill. Vibrating cutter for sheap shears. 1,644,141; Oct. 4.
- McArdle, Michael W., Chicago, Ill. Razor strop. 1,646,415; Oct. 25.
- McArdle, Michael W., Chicago, Ill. Razor strop. 1,652,170; Dec. 13.
- McArdle, Monroe E., Webster Groves, assignor to Hydraulic-Press Brick Company, St. Louis, Mo. Scum gutter. 1,636,762; July 12.
- McAran, Donald G., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Heater for transformer oil. 1,634,719; July 5.
- McArthur, Robert C., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Method of and apparatus for straightening annealing boxes. 1,647,706; Nov. 1.
- McArthur, Charles D., Pittsburgh, Pa. Concrete wall construction. 1,617,655; Feb. 16.
- McArthur, Robert C., et al., trustees. (See McArthur, Robert C., assignor.)
- McArthur, Robert C., assignor to W. O. Fredrikson, A. E. Krieger, and E. C. McArthur, trustees, Salamanca, N. Y., constituting McArthur Turnbuckle Company. Turnbuckle. 1,626,811; Apr. 26.
- McArthur Turnbuckle Company. (See McArthur, Robert C.)
- McAsland, Wilbur E., Reeds, Mo. Testing case for inner tubes or the like. 1,638,049; Aug. 9.
- McAtee, John L., New York, N. Y., assignor, by mesne assignments, to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,638,865; Aug. 16.
- McAtee, John L., New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. 1,639,001; Aug. 16.
- McAuliffe, Daniel J., Crooked Creek, Pa. Tractor plow. 1,652,869; Dec. 13.
- McAvoy, John W., Bangor, North Wales. Wood-wind and like musical instrument. 1,643,463; Sept. 27.
- McBean, Roy A., (See Tonguetue, C. E., and McBean.)
- McBee Binder Company, The. (See McBee, Charles F., assignor.)
- McBee, Charles F., assignor to The McBee Binder Company, Athens, Ohio. Filing cabinet. 1,651,829; Dec. 6.
- McBee, Charles F., assignor to The McBee Binder Company, Athens, Ohio. Bookbinding machine. 1,652,724; Dec. 13.
- McBee, Harry B., St. Louis, Mo. Loose-leaf binder. 1,624,961; Apr. 19.
- McBerty, Fred P., Warren, Ohio. Electric welding apparatus. 1,640,244; Aug. 23.
- McBride, C. L., Mfg. Company, The. (See McBride, Charles L., Jr., assignor.)
- McBride, Charles L., Jr., assignor to The C. L. McBride Mfg. Company, Toledo, Ohio. Gloves. 1,623,019; Mar. 20.
- McBride, Christopher G., (See Seiden, S., and McBride.)
- McBride, David A., Elgin, Ill. Lawn-mowing machine. 1,644,068; Oct. 4.
- McBride, Frank H., Blair, Nebr. Skid-chain fastener. 1,615,845; Feb. 1.
- McBride, George A., Seattle, Wash. Composition for cleaning and polishing glass. 1,643,251; Sept. 20.
- McBride, Howard R., assignor to National Fruit Flavor Company, New Orleans, La. Bottle. Des. 74,117; Dec. 20.
- McBride, James, assignor to Jas. McBride Flooring Co., Inc., New York, N. Y. Parquetry and flooring. 1,649,842; Nov. 22.
- McBride, Jas., Flooring Co. (See McBride, James, assignor.)
- McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-car dome closure. 1,650,579; Nov. 22.
- McBride, Samuel H., Siloam Springs, Ark. Meat tenderer. 1,639,854; Aug. 23.
- McBrien, Roger W., Alton, Ill. Thermostatically-operated electric switch. 1,645,201; Oct. 11.
- McBurney, F. A., et al., trustees. (See Cutler, William C., assignor.)
- McBurney, James R., Cambridge, Ohio. Glove. 1,643,391; Sept. 27.
- McBurney, Matthew R., Los Angeles, Calif. Treatment table. 1,628,369; May 10.
- McBurney, Wilbur A., Altoona, Pa. Bottle stopper. 1,622,658; Mar. 20.
- McCaig, George S., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Breathing apparatus. 1,625,419; Apr. 19.
- McCaig, George S., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Breathing apparatus. 1,628,254; May 10.
- McCabe, Charles J., Brooklyn, and I. Schoenholz, Far Rockaway, assignors to McCabe and Schoenholz, Inc., New York, N. Y. Hand bag. 1,624,611; Apr. 12.
- McCabe, Charles J., Brooklyn, and I. Schoenholz, Far Rockaway, assignors to McCabe and Schoenholz, Inc., New York, N. Y. Hand bag. 1,624,612; Apr. 12.
- McCabe, Edward B., (See Hiller, N. H., and McCabe.)
- McCabe, Hugh, assignor to McCabe Manufacturing Company, Lawrence, Mass. Locomotive boiler. 1,633,993; June 28.
- McCabe, Ira E., (See Armstrong, R. W., and McCabe.)
- McCabe, Ira E., (See Mofe, H. A., and McCabe.)
- McCabe, Ira E., Chicago, Ill. Mercury-tube switch. 1,614,621; Jan. 18.
- McCabe, Ira E., Chicago, Ill. Pressure-actuated electric control device. 1,636,191; July 19.
- McCabe, Ira E., Chicago, Ill. Mercury-tube switch. 1,642,952; Sept. 20.
- McCabe, Ira E., Chicago, Ill. Combined pressure and float actuated switch. 1,644,935; Oct. 11.
- McCabe, Ira E., Chicago, Ill. Combined safety, spark, and gas control. 1,648,389; Nov. 8.
- McCabe, Ira E., Chicago, Ill. Safety switch mechanism. 1,648,390; Nov. 8.
- McCabe, Ira E., Chicago, Ill. Pressure-operated circuit control. 1,648,414; Nov. 8.
- McCabe Manufacturing Company. (See McCabe, Hugh, assignor.)
- McCabe and Schoenholz, Inc. (See McCabe, C. J., and Schoenholz, assignors.)
- McCabe, Thomas Arnold Borough, Pa. Plate-lifting mechanisms for rolling mills. 1,620,032; Mar. 8.
- McCaferry, Thomas F., Jr., Colorado Springs, Colo. Drawing instrument. 1,619,427; Mar. 1.
- McCaffrey, Edward R., Spokane, Wash. Flashing. 1,642,655; Sept. 13.
- McCaffrey, Edward R., Chicago, Ill. Making flashings. 1,642,166; Sept. 13.
- McCaffrey, R. James. (See Smith, William J., assignor.)
- McCaig, Thomas E., Chicago, Ill. Insertable fire brick. 1,625,652; Apr. 5.
- McCaig, Thomas E., Oak Park, Ill. Reciprocating mechanism. 1,621,263; Mar. 15.
- McCain, Donald R., Helmetta Borough, N. J. Envelope. 1,645,148; Oct. 11.
- McCain, Ellsworth L., Detroit, Mich. Knife. 1,651,141; Nov. 29.
- McClell, Albert G., assignor to Pines Manufacturing Company, Chicago, Ill. Shutter apparatus for engine radiators. 1,614,075; Jan. 11.
- McCall, Clarence E., St. Augustine, Fla. Sash pulley. 1,637,267; July 26.
- McCall, George W., Woodside, assignor to International Motor Company, New York, N. Y. Elevating device. 1,646,759; Oct. 25.
- McCall, James H., Huntingdon, Tenn. Sanitary odorless toilet. 1,629,401; May 17.
- McCall, William H., Philadelphia, Pa. Knife sharpener. 1,632,219; Sep. 19.
- McCallister, John J., Chester, Pa. Attachment for coning machines. 1,652,787; Dec. 13.
- McCallum, Alexander J., Little Falls, N. Y. Hose or socks. 1,620,160; Mar. 8.
- McCallum Hosiery Co. (See Council, John G., assignor.)
- McCallum, James R., assignor to Clinax Engineering Co., Clinton, Iowa. Force-feed lubrication from compressor blade. 1,616,013; Feb. 8.
- McCallum, John, Walbridge, Ohio. Remote control device for railroad cars. 1,629,286; May 17.
- McCamphell, Theron, Holmdale, N. J. Dress pattern. 1,649,470; Nov. 15.
- McCandless, David C., Boise, Idaho. Dam and headgate. 1,645,913; Oct. 18.
- McCane, Ames C., Seattle, Wash. Controller for radio receiving sets. 1,618,543; Feb. 22.
- McCann, Hugh, Southfield, Mich. Display case for advertisements. Des. 72,676; May 17.
- McCann, Clyde F., and R. A. Berrenberg, San Francisco, Calif., assignors to Panama Lamp & Commercial Company. Lock attachment for electric-lamp sockets. 1,628,747; Apr. 5.
- McCann, Harry P., (See Harrison, James M., assignor.)
- McCann, John J., Chicago, Ill. Prayer rail. 1,612,871; Jan. 4.
- McCann, Leland R., Hawthorne, N. J., assignor to American Can Company, New York, N. Y. Process and apparatus for forming side seams on container bodies. 1,625,269; Apr. 19.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. Re16,571; Mar. 15.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,616,536; Feb. 8.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,622,460; Mar. 29.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,626,006; Apr. 26.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,626,949; May 3.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,629,832; May 24.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,632,189; June 14.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,640,419; Aug. 30.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,640,789; Aug. 30.

- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,643,344; Sept. 27.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,649,967; Nov. 22.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,653,368; Dec. 20.
- McCann, William G., et al. (See Barnett, John B., assignor.)
- McCannon, Berty B., and J. A. McDougall, Grand Forks, British Columbia, Canada. Dingible headlight. 1,617,067; Feb. 8.
- McCardell, J. R., & Co. (See Baldwin, William M., assignor.)
- McCarey, Bernard S., Rome, N. Y. Ship construction. 1,651,926; Dec. 6.
- McCar, Henry L. (See Krook, Carl G., assignor.)
- McCarroll, Edward W., Pittsburgh, Pa. Doll. Des. 71,844; Jan. 11.
- McCarroll, James F., Baton Rouge, La. Rail-car transfer. 1,629,805; May 24.
- McCarroll, William J., Melrose Park, assignor to The Bordin Economic, Philadelphia, Pa. Locomotive. 1,622,917; Mar. 29.
- McCarthy, Ernest P., Darien, Conn. Combination lamp and smoker's set. Des. 72,488; Apr. 19.
- McCarthy, James A., et al. (See Palmer, Harry A., assignor.)
- McCarthy, John A., St. Joseph, Mo. Shingle. 1,641,858; Sept. 6.
- McCarthy, John A., St. Joseph, Mo. Roofing shingle. 1,648,692; Nov. 8.
- McCarthy, John C. (See Humphreys, C. F., and McCarthy.)
- McCarthy, John J., Delta, Colo. Pulverizing and mulching attachment. 1,616,590; Feb. 8.
- McCarthy, John W., Lockport, N. Y., assignor, by mesne assignments, to Vortex Mfg. Co., Chicago, Ill. Cup dispenser. 1,623,353; Apr. 5.
- McCarthy, Joseph A., Jamaica, N. Y. Extracting soot and grease from gas flames. 1,620,266; Mar. 8.
- McCarthy, Joseph P., assignor of one-third to W. Cleveland and one-third to P. Sawick, Utica, N. Y. Piston-rod tool. 1,623,799; Apr. 5.
- McCarthy, Justin, New York, N. Y. Chest protector. 1,645,995; Oct. 15.
- McCarthy, Louis, assignor to The Macallen Company, Boston, Mass. Apparatus for forming composite mica sheets. 1,622,795; Mar. 29.
- McCarthy, Louis, assignor to The Macallen Company, Boston, Mass. Forming composite mica sheets. 1,622,796; Mar. 29.
- McCarthy, William T., Chicago, Ill. Sinking pipes and facing plates. 1,647,239; Nov. 1.
- McCarthy, Will C., assignor to The Cambridge Glass Company, Cambridge, Ohio. Glass tray or similar article. Des. 72,026; Feb. 15.
- McCartney, Will C., Cambridge, Ohio. Salt and pepper shaker. Des. 73,707; Oct. 25.
- McCart, Allen H., Stockton, Calif. Rail-connecting device. 1,651,723; Dec. 6.
- McCart, Elbert E., C. D. Eous, and T. F. Langkop, Bunceton, assignors to O. B. Bradley, Elmo, Mo. Hog conditioner. 1,634,155; June 28.
- McCarthy, Richard J., Jr., Albany, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company. Controlling the operation of booster motors or auxiliary propulsion units. 1,645,023; Nov. 8.
- McCarthy, Richard J., Jr., Albany, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company. Controlling the operation of booster motors or auxiliary propulsion units. 1,648,024; Nov. 8.
- McCarthy, Roy A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clutch motor. 1,638,940; Aug. 16.
- McCaskell, Jasper A. (See Genter, A. L., and McCaskell.)
- McCaskey Register Company, The. (See Dunning, W. E., and Pacholen, assignors.)
- McCasky Register Company, The. (See Swoboda, Conrad, assignor.)
- McCaskill, Frankie L., Louisville, Ky. Pen and pencil holder. 1,623,966; Apr. 12.
- McCaskill, Oscar E., Fort Worth, Tex. Pumping mechanism for windmills. 1,630,002; May 24.
- McCaughan, William R., Washington, D. C. Intermittent inductive train-control system. 1,645,655; Oct. 18.
- McCaughey, Glen F., assignor to Walker Manufacturing Company, Racine, Wis. Lifting jack. 1,653,720; Dec. 27.
- McCaughey, William J., Columbus, assignor to The Cleveland Trust Company, Cleveland, Ohio. Oxychloride cement and making same. 1,634,505; July 5.
- McCauley, Ernest G., Dayton, Ohio. Rudder-control mechanism. 1,650,436; Nov. 29.
- McCauley, Richard A., Dorchester, assignor to Samuel Ward Manufacturing Company, Boston, Mass. Covering machine. 1,640,903; Aug. 30.
- McKay, William M., Everett, Wash. Finning unit for fish-dressing machines. 1,618,840; Feb. 22.
- McChesney, John S., Chicago, Ill., assignor, by mesne assignments, to Cary Manufacturing Co., Brooklyn, N. Y. Wire-banding machine. 1,650,843; Nov. 29.
- McChesney, John S., Chicago, Ill., assignor, by mesne assignments, to Cary Manufacturing Co., Brooklyn, N. Y. Package-banding machine. 1,650,844; Nov. 29.
- McClafferty, E. A., Los Angeles, Calif. Adjustable wash-board support. 1,631,638; June 7.
- McClafferty, Harry J., assignor to Rockford Steel Furniture Company, Rockford, Ill. Refrigerator. 1,613,463; July 4.
- McClain, Douglas C. (See Hurley, Joseph M., assignor.)
- McClain, Douglas C. (See Hurley, Joseph M., assignor.)
- McClain, James C., Falls City, Nebr. Attachment for internal-combustion engines. 1,640,790; Aug. 30.
- McClain, John R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shellac viscosity tester. 1,637,386; Aug. 2.
- McClain, Wade C., Little Rock, Ark. Ark. Dentiphone for phonographic use. 1,612,872; Jan. 4.
- McClaine, Katherine, Chicago, Ill. Hair curler. 1,619,743; Jan. 4.
- McClanahan, Fred C., et al. (See Bott, Wister P., assignor.)
- McClary Manufacturing Company, The. (See Brand, Edward D., assignor.)
- McClary Manufacturing Co., The. (See Gunn, John M., assignor.)
- McClatchie, John M., assignor to The Borden Company, New York, N. Y. Manufacture of condensed liquids. 1,650,373; Nov. 22.
- McClatchie, Stanley, Cambridge, Mass., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Vacuum-cleaner device. 1,635,598; June 28.
- McClatchy, John H. (See Hollister, Solomon C., assignor.)
- McClean, Samuel N., Detroit, Mich. Clothes wringer. 1,637,581; Aug. 2.
- McCleary Hydraulic Brake Company. (See McCleary, Roy E., assignor.)
- McCleary, Roy E., Seattle, Wash., assignor to McCleary Hydraulic Brake Company. Hydraulic brake. 1,630,710; May 31.
- McCleary, Roy E., assignor to McCleary Hydraulic Brake Company, Seattle, Wash. Hydraulic brake mechanism. 1,630,711; May 31.
- McCleave, Arthur S., assignor of one-half to J. A. Desnoyers, Montreal, Quebec, Canada. Furnace door structure. 1,645,764; Oct. 18.
- McClellan, Charles R., East Lyme, and O. L. Seward, Meriden, Conn. Automobile service indicator. 1,651,033; Nov. 29.
- McClelland, Bert, Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Pressure gauge. 1,620,482; Mar. 8.
- McClelland, Bert, Sellersville, Pa., assignor to United States Gauge Company, Sellersville, Pa. Compound gauge. 1,628,169; May 10.
- McClelland, David H., Pittsburgh, Pa. Demountable tire rim. 1,643,672; Sept. 27.
- McClelland, Norman E., London, England. Apparatus for removing soot from steam boilers. 1,653,503; Dec. 20.
- McClelland, William H., Huntingdon, assignor to Davis Brick Machinery Company, Mount Union, Pa. Hopper latch. 1,639,855; Aug. 23.
- McClintan, Robert, Frostburg, assignor to Kelly-Springfield Tire Company, Cumberland, Md. Grinding machine. 1,614,076; Jan. 11.
- McClintock, David L., Portland, Ore. Power transmission for automobiles. 1,618,301; Feb. 22.
- McClintock, George C., San Diego, Calif. Sectional-map apparatus. 1,629,582; May 24.
- McClintock, Herbert R. (See Russell, James M., assignor.)
- McClintock, O. B., Company. (See Adams, Thomas C., assignor.)
- McClintock, O. B. Co. (See Adams, T. C., Noyes, and Lawrence, assignors.)
- McClintock, O. B. Company. (See Jones, Earle M., assignor.)
- McClintock, O. B. Co. (See Lawrence, Edward C., assignor.)
- McClintock, Robert S., assignor of one-half to W. S. McClintock, Marianna, Ark. Cotton chopper. 1,625,087; Apr. 19.
- McClintock, William S. (See McClintock, Robert S., assignor.)
- McCloskey, Fred, Vallejo, Calif. Oil burner. 1,622,797; Mar. 29.
- McCloskey, Paul J., Roselle, N. J. Mechanic's fishing tool. 1,619,744; Mar. 1.
- McClure, Elmer P., Western Springs, Ill., assignor to Aluminum Products Company. Cooking utensil. 1,635,189; July 12.
- McClure, Elmer P., Western Springs, assignor to Aluminum Products Company, La Grange, Ill. Heat-distributing plate for cooking utensils. 1,635,286; July 12.
- McClure, Elmer P., assignor to Aluminum Products Company, La Grange, Ill. Coffeepot. 1,643,309; Sept. 27.
- McClure, Harry L., et al., trustees. (See Enell, Otto E., assignor.)
- McClure, Ralph R., assignor to J. H. Rosseter, San Francisco, Calif. Siren. 1,618,210; Feb. 22.
- McClure, William V., Elva, Manitoba, Canada. Well crib. 1,636,610; July 19.

- McColl, Francis P., Ridgewood, N. J., assignor to Compact Coffee Corporation. Coffee tablet and making same. 1,641,446; Sept. 6.
- McCullough, William A., Webster City, Iowa. Chick feeder. 1,617,339; Feb. 15.
- McCollm, Milton J., Sioux City, Iowa. Game. 1,635,489; July 12.
- McComb, John E., Rouseville, Pa. Pumping rig. 1,621,940; Mar. 22.
- McComb, William. (See Heyman, W. A., and McComb.)
- McCombs, Jay. (See Lambert, T. B., and McCombs.)
- McCommon, Harry C., Altoona, Pa. Measuring instrument. 1,634,156; June 28.
- McConsey, Thomas H., et al. (See Turver, William H., assignor.)
- McConkey, Montgomery W., Ferndale, assignor to General Motors Corporation, Detroit, Mich. Automobile collision bumper. 1,629,806; May 24.
- McConkey, Montgomery W., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,630,060; May 24.
- McConkey, Montgomery W., assignor to Bendix Brake Company, Chicago, Ill. Brake control. 1,632,140; June 14.
- McConkey, Montgomery W., Wilmette, assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,639,142; Aug. 16.
- McConkey, Montgomery W., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,646,035; Oct. 18.
- McConkey, Montgomery W., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,651,142; Nov. 29.
- McConkey, Montgomery W., Ferndale, and E. E. Jones, assignors to General Motors Corporation, Detroit, Mich. Motor vehicle. 1,638,554; Aug. 9.
- McConnell, Charles F. (See Will, J. G., and McConnell.)
- McConnell, James N., Upper Sandusky, Ohio. Burial caskets. 1,648,492; Nov. 8.
- McConnell, Laura G., Madison, N. J. Ash-can cover. 1,646,623; Oct. 25.
- McConville, James, Montreal, Quebec, Canada. Wrench adjustment. 1,621,123; Mar. 15.
- McConway & Torley Company, The. (See George, Enoch Jr., assignor.)
- McConway & Torley Company, The. (See Kelso, William, assignor.)
- McConway & Torley Company, The. (See McConway, William Jr., assignor.)
- McConway & Torley Company, The. (See McConway, W. Jr., and E. George Jr., assignors.)
- McConway & Torley Company, The. (See Regan, William J., assignor.)
- McConway, William Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. 1,617,404; Feb. 15.
- McConway, William Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft yoke. 1,628,170; May 17.
- McConway, William Jr., assignor to McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,629,351; May 17.
- McConway, William Jr., and E. George Jr., assignors to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,647,302; Nov. 1.
- McCord, Alvin C., Chicago, Ill. Truss member and making same. 1,615,307; Jan. 25.
- McCord, Claude M., Richmond Heights, Mo. Bearing and bushing remover. 1,621,733; Mar. 22.
- McCord, Claude M., Richmond Heights, Mo. Bearing race and bushing remover. 1,621,734; Mar. 22.
- McCord, Frank G. (See Padgett, Powell D., assignor.)
- McCord, Janet A., Haldsburg, Calif. Scalp protector. 1,651,094; Nov. 29.
- McCord Radiator & Mfg. Co. (See Bailey, C. B., McCord, and Wilkins, assignors.)
- McCord Radiator & Mfg. Co. (See Grantier, Leslie V., assignor.)
- McCord Radiator & Mfg. Co. (See Harris, Joseph D., assignor.)
- McCord Radiator & Mfg. Co. (See Hawkins, B. H., and Hansen, assignors.)
- McCord Radiator & Mfg. Co. (See Hyde, Rollin M., assignor.)
- McCord Radiator & Mfg. Co. (See Reese, Daniel W., assignor.)
- McCord, William W. (See Bailey, C. B., McCord, and Wilkins.)
- McCormack, James C., Monroe, Wash. Cashier's cage. 1,621,124; Mar. 15.
- McCormick Bros. Company. (See Halvorsen, Axel I. S., assignor.)
- McCormick, Edgar B. (See Zentz, James R., assignor.)
- McCormick, Fowler, Chicago, Ill. Telegraphy. 1,627,444; May 3.
- McCormick, Fowler, Chicago, Ill. Printing telegraphy. 1,627,445; May 3.
- McCormick, Francis H., Glen Ellyn, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric heater. Des. 73,439; Sept. 13.
- McCormick, Harold V., assignor to the Warner Elevator Manufacturing Company, Cincinnati, Ohio. Electrical brake. 1,615,767; Jan. 25.
- McCormick, Harold V., assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio. Brake mechanism. 1,637,025; July 26.
- McCormick, Harold V., Long Beach, N. Y., assignor, by mesne assignments, to Shur-Loc Elevator Safety Corporation, Newark, N. J. Elevator. 1,646,487; Oct. 25.
- McCormick, Harold V., Long Beach, N. Y., assignor, by mesne assignments, to Shur Loc Elevator Safety Corporation, Newark, N. J. Elevator. 1,648,002; Nov. 8.
- McCormick, John A., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Tender frame. 1,653,222; Dec. 20.
- McCormick, Robert B., Detroit, Mich. Axle transmission. 1,641,859; Sept. 6.
- McCormick, Robert. (See McCormick, Robert B., assignor.)
- McCoubrie, Robert L., Philadelphia, Pa. Clothes wringer attachment. 1,624,419; Apr. 12.
- McCo, Albert W. (See Wilkes, W. R., and Kennedy, assignors.)
- McCo, Ruston O., Berwyn, Ill., assignor to International Patents Development Company, Wilmington, Del. Closed wet-starch system. 1,651,611; Dec. 6.
- McCo, George E., and E. Hawker, Moncton, New Brunswick, Canada. Journal box. 1,638,124; Aug. 9.
- McCo, Harry E., Pittsburgh, assignor to The McDowell Manufacturing Company, Millvale, Pa. Mechanical toy. 1,620,772; Mar. 15.
- McCo, Harry E., Pittsburgh, assignor to The McDowell Manufacturing Company, Millvale, Pa. Racing game. 1,641,638; Sept. 6.
- McCo, Harry E., Pittsburgh, assignor to The McDowell Manufacturing Company, Millvale, Pa. Racing toy. 1,641,639; Sept. 6.
- McCo, James L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Discharge-gap device. 1,649,035; Nov. 15.
- McCo, John A., St. Paul, Minn. Traffic signal. 1,616,135; Feb. 1.
- McCo, John J., Milton, Oreg. Self-feeding burner. 1,641,545; Sept. 6.
- McCo, Robert H., Salt Lake City, Utah. Bearing and automatic tightening means therefor. 1,613,762; Jan. 1.
- McCo, William, Huntingdon, Pa. Lamp. Des. 73,094; July 19.
- McCo, William F., and P. W. Ripple, New Haven, Conn. Slack adjuster. 1,652,677; Dec. 13.
- McCracken, Charles C., Bradner, Ohio. Emergency ladder. 1,644,739; Oct. 11.
- McCracken, Joanna. (See Beaton, Greek P., assignor.)
- McCracken, Robert M. (See Bartlett, F. A., and Davis, assignors.)
- McCrae, George, Brantford, Ontario, Canada, assignor, by mesne assignments, to Fuller Lehigh Company. Cy-Hadric kiln. 1,649,609; Nov. 15.
- McCrary, Sam H., assignor of one-half to W. A. Fowler, Knoxville, Tenn. Drop-bottom mine car. 1,635,048; July 5.
- McCrary, Samuel H., Knoxville, Tenn. Automatic drop bottom mine car. 1,647,876; Nov. 1.
- McCray, Charles E., Waynesboro, Va. Auto signal light. 1,651,534; Dec. 6.
- McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Internal-combustion engine. 1,625,043; Apr. 19.
- McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Internal-combustion engine. 1,648,737; Nov. 8.
- McCree, Andrew A., St. Paul, Minn. Valve. 1,653,650; Dec. 27.
- McCree, Eben, Arlington, N. J. Receptacle. 1,645,765; Oct. 18.
- McCree, Max A., Beaumont, Tex. Playground slide. 1,626,142; Apr. 26.
- McCready, Lloyd E., assignor to The Racine Horseshoe Tire Company, Racine, Wis. Tire-finishing machine. 1,635,134; July 5.
- McCrea, James, & Company. (See Mason, Besse O., assignor.)
- McCreary, Harold E., Apollo, assignor to Pittsburgh Steel Drum Company, Pittsburgh, Pa. Shipping drum. 1,643,252; Sept. 20.
- McCreary, Harold E., A. E. Jesser, and A. B. Montgomery, assignors to Apollo Holding Corporation, Apollo, Pa. Roll heater. 1,619,303; Mar. 1.
- McCrillis, Joseph E., Kansas City, Mo., assignor to F. B. Leonard. Automobile steering stabilizer. 1,616,429; Feb. 1.
- McCrystal, Robert C., assignor of one-half to H. D. Field, Los Angeles, Calif. Dispensing carton. 1,632,412; June 14.
- McCue, Edward F., Mamaroneck, N. Y. Cover for conduits. 1,653,403; Dec. 20.
- McCue, H. J., Company, The. (See McCue, Harry J., assignor.)
- McCue, Harry J., Cleveland, Ohio, assignor to The H. J. McCue Company. Soda fountain. 1,621,846; Mar. 22.
- McCue, Harry J., assignor to The H. J. McCue Company, Cleveland, Ohio. Aircraft. 1,642,739; Sept. 20.
- McCullers, Edgar W., Clayton, N. C. Dock. 1,643,464; Sept. 27.
- McCulloch, Alfred H., Boston, assignor of one-half to L. McCulloch, Springfield, Mass. Furnace-regulator unit. 1,615,021; Jan. 18.
- McCulloch, James E., Kensington, Md. Aircraft. 1,653,056; Dec. 20.

- McCulloch, James W., and R. E. Francis, Okmulgee, Okla. Device for preventing cavings. 1,645,766; Oct. 18.
- McCulloch, Laurence. (See McCulloch, Alfred H., assignor.)
- McCulloch, Stewart B., Fullerton, assignor of one-fourth to O. A. Burchard, one-fourth to C. A. Briggs, and one-fourth to J. B. Golke, Los Angeles, Calif. Stamp. 1,636,317; July 19.
- McCullough, Charles H., Ysabella, assignor of one-half to F. Elliott, Oroqui, Calif. Motor-control mechanism. 1,640,086; Aug. 23.
- McCullough, Frederick S., Edgewood, Pa. Metal and porcelain article and manufacturing the same. 1,615,023; Jan. 18.
- McCullough, Frederick S., Edgewood, Pa. Applying earthen material to metal. 1,615,022; Jan. 18.
- McCullough, Frederick S., Wilkinsburg, Pa. High vacuum space discharge device and gas accumulator therefor. 1,615,093; Jan. 18.
- McCullough, Frederick S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-triode vacuum tube. 1,630,443; May 31.
- McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Radio apparatus. 1,639,805; Aug. 23.
- McCullough, Paul J., assignor to J. Huntington Park, Calif. Bearing mounting. 1,633,994; June 28.
- McCullough, Joseph P., Philadelphia, Pa., assignor of thirty-three per cent to J. M. Evans, Camden, N. J., and thirty-two per cent to W. H. Conard, Philadelphia, Pa. Automobile windshield. 1,631,046; May 31.
- McCullough, Paul J., assignor, by mesne assignments, to Scullin Steel Co., St. Louis, Mo. Journal-box-securing means. 1,622,599; Mar. 29.
- McCullough, Paul J., assignor to Scullin Steel Co., St. Louis, Mo. Side frame. 1,642,965; Sept. 20.
- McCullough, Paul J., assignor, by mesne assignments, to Scullin Steel Co., St. Louis, Mo. Journal-box structure. 1,646,036; Oct. 18.
- McCullough, William D., Detroit, Mich. Rim construction. 1,647,411; Nov. 1.
- McCullough, William T., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,644,345; Oct. 18.
- McCully, Hiland E. (See Rowley, J. S., Riggles, and McCully.)
- McCully, Newton A., Anderson, S. C. Aerial landing harp for aeroplanes. 1,627,614; May 10.
- McCumpsey, Joseph D., Altoona, Pa. Sanitary milk bottle. 1,618,989; Mar. 1.
- McCune, Challen R., Clinton, Iowa. Car journal. 1,636,100; July 19.
- McCune, Herbert R., assignor to Decatur Brick Mfg. Co., Decatur, Ill. Brick machine. 1,626,619; May 3.
- McCune, Joseph C. (See Farmer, C. C., and McCune.)
- McCune, Milo, and C. L. Paulus, Dayton, Ohio. Cartridge rack. 1,634,963; July 5.
- McCurdy, Ralph G., Englewood, N. J., assignor to American Telephone and Telegraph Company. Lighting circuit. 1,644,024; Oct. 4.
- McCurdy, Robert P., Pittsburgh, Pa., and F. W. Hochstadt, Dayton, Ohio, assignors to J. C. Trees, Pittsburgh, Pa. Nonglare attachment for headlight lamps. 1,617,292; Feb. 8.
- McCurry, Roy A., Knappa, Oregon. Overhead conveyor. 1,630,959; May 31.
- McCutchen, Brunson S., North Plainfield, N. J., assignor to American Telephone and Telegraph Company. Public-address system. 1,642,040; Sept. 13.
- McCutchen, James B., Bakersfield, Calif. Automatic door closing and locking means. 1,621,847; Mar. 22.
- McCutchen, James B., Van Wert, Ohio. Welt rasp. 1,648,819; Nov. 8.
- McCutcheon, L. T., et al. (See Jones, Winfield S., assignor.)
- McDade, James E., Chicago, Ill. Memorization device. 1,641,982; Sept. 13.
- McDaniel, Michael R., Denver, Colo. Method of and apparatus for producing bifocal lenses. 1,633,117; June 21.
- McDaniel, Albert R., Johnstown, Nebr. Pan lifter. 1,637,227; July 26.
- McDaniel, Charles W., Portsmouth, N. H. Wrench mechanism. 1,621,264; Mar. 15.
- McDaniel, John D., Vancouver, British Columbia, Canada. Protective alarm system. 1,650,288; Nov. 22.
- McDaniel, Samuel. Knoxville, Tenn. Water key. 1,638,181; Mar. 8.
- McDaniel, Thomas J. (See Nix, W. H., and McDaniel.)
- McDaniel, William L., Cincinnati, Ohio, assignor to Massey Concrete Products Corporation, Chicago, Ill. Cribbing. 1,648,556; Nov. 8.
- McDaniel, William L., Cincinnati, Ohio, assignor to Massey Concrete Products Corporation, Chicago, Ill. Cribbing. 1,648,557; Nov. 8.
- McDermott, George W., New Orleans, La. Building block. 1,644,599; Oct. 4.
- McDermott, Archibald. (See Thibodeau, J. F., Deguire, and McDermott.)
- McDermott, Frank M., Troy, N. Y. Collar button. 1,653,721; Dec. 27.
- McDermott, Thomas S., assignor to Clark-Cutler-McDermott Co., Franklin, Mass. Felt fabric. 1,629,923; May 24.
- McDermott, Thomas S., assignor to Clark-Cutler-McDermott Co., Franklin, Mass. Making a pile fabric. 1,651,536; Dec. 6.
- McDermott, James B., Uhrichville, Ohio. Freight-handling equipment for motor trucks. 1,630,398; May 31.
- McDill, Rex De Ore, Winter Haven, Fla. Preserving fruit. 1,630,129; May 24.
- McDonald, Alfred, et al. (See Stitt, Charles M., assignor.)
- McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Automatic die press. 1,633,340; June 21.
- McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Pneumatic control for batteries of automatic presses. 1,642,375; Sept. 13.
- McDonald, Charles D., Fullerton, Calif. Bed. 1,648,652; Nov. 8.
- McDonald, Charles F., Davenport, Iowa. Mousetrap. 1,650,458; Nov. 22.
- McDonald, Charles J., Cleveland, Ohio. Swimming and life-saving device. 1,654,299; Dec. 27.
- McDonald, Charles R., and A. E. Bevan, Akron, Ohio. Liquid-dispensing apparatus. 1,634,374; July 5.
- McDonald, Charles R., and A. E. Bevan, Akron, Ohio. Liquid-dispensing apparatus. 1,651,612; Dec. 6.
- McDonald, David A., Chicago, Ill. Saxophone mouthpiece. 1,643,310; Sept. 27.
- McDonald, Eugene G. (See Dodge, A. Y., and McDonald.)
- McDonald, Eugene G., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,644,480; Oct. 4.
- McDonald, Eugene G., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,652,035; Dec. 6.
- McDonald, Florence. (See McDonald, Malcolm, assignor.)
- McDonald, Frank, jr., and J. W. Frilick, Meridian, Miss. Testing apparatus. 1,617,214; Feb. 8.
- McDonald, Frank A., and F. G. Welke, San Francisco, Calif. Closure-cap lock. 1,633,218; June 21.
- McDonald, Gordon R., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,617,180; Feb. 8.
- McDonald, Gordon R., Schenectady, N. Y., assignor to General Electric Company. Automatic control equipment. 1,652,904; Dec. 13.
- McDonald, Harry W., Minneapolis, assignor to Cedar Creek Oil & Gas Co., Faribault, Minn. Well-drilling tool. 1,647,240; Nov. 1.
- McDonald, Hugh, Clinton, Iowa. Coal chute. 1,633,341; June 21.
- McDonald, Hugh F., Burlingame, Calif. Key guide. 1,621,637; Mar. 22.
- McDonald, Isabelle P., and W. MacMullen, jr., assignors to P. A. Bessie & Co., Duluth, Minn. Garment. 1,632,190; June 14.
- McDonald, James, Los Angeles, Calif. Wrench. 1,648,653; Nov. 8.
- McDonald, John C., assignor of one-third to W. N. Westerman, and twenty-six per cent to E. L. Corbett, New York, N. Y. Polyphase relay. 1,619,080; Mar. 1.
- McDonald, John D., Winnipeg, Manitoba, Canada. Grate bar. 1,629,629; May 24.
- McDonald, John I., St. Joseph, Mo. Combination safety and pencil pocket. 1,632,660; June 14.
- McDonald, M. P., Austin, Tex. Expansion joint. 1,625,557; Apr. 19.
- McDonald, Leslie R., Montreal, Quebec, Canada. Display apparatus. 1,615,467; Jan. 25.
- McDonald, Leslie R., Montreal, Quebec, Canada. Antimicrophonic shield for electron tubes. 1,615,468; Jan. 25.
- McDonald, Leslie R., Westmount, Quebec, Canada. Variable electrical condenser. 1,623,741; Apr. 5.
- McDonald, Leslie R., Westmount, Quebec, Canada. Variable electrical condenser. 1,623,742; Apr. 5.
- McDonald, M. J., Estate. (See Royer, R., and Sognis, assignors.)
- McDonald Machine Co. (See McDonald, Charles D., assignor.)
- McDonald, Malcolm, assignor to F. McDonald, Orenco, Oreg. Card index and file. 1,649,244; Nov. 15.
- McDonald, Robert L. (See Edwards, A. A., and McDonald.)
- McDonald Securities Co. (See McDonald, W. H., and Bessee, assignors.)
- McDonald, Theodore V., assignor to Epworth Manufacturing Company, Detroit, Mich. Axle and bearing arrangement. 1,617,293; Feb. 8.
- McDonald, William H., Overton, Nev. Ditching machine. 1,631,639; June 7.
- McDonald, William H., Overton, Nev., and F. E. Bessee, Los Angeles, Calif., assignors to McDonald Securities Co., Ltd. Advertising device. 1,641,681; Sept. 6.
- McDonald, Ysabella D., Los Angeles, Calif. Auxiliary air inlet and mixing device for motor vehicles. 1,648,358; Nov. 8.
- McDonell, William E., Rochester, assignor, by mesne assignments to Shur-On Standard Optical Company, Inc., Geneva, N. Y. Ophthalmic mounting. 1,643,218; Sept. 20.
- McDonell, William E., and T. Leytham, Rochester, assignors, by mesne assignments, to Shur-On Standard Optical Company, Inc., Geneva, N. Y. Ophthalmic mounting. 1,643,219; Sept. 20.

- McDonna, Francis A., Engleware, and R. E. Lloyd, Valley City, N. Dak. Scarifier and road planer. 1,638,866; Aug. 16.
- McDonnell, George P., St. Louis, Mo., assignor to Economy Fuse & Manufacturing Co., Chicago, Ill. Fuse. 1,650,995; Nov. 29.
- McDonnell, Michael J. (See Duncan, Daniel B., assignor.)
- McDonnell, Stephen P., and P. A. Villars, Dallas, Tex. Timer for internal-combustion engines. 1,627,520; May 3.
- McDonnell, Vincent D., Chicago, Ill. Combined gas producer and boiler. 1,647,739; Nov. 1.
- McDonough, James, Montclair, N. J. Orthopedic shoe. 1,649,173; Nov. 15.
- McDonough, John W., assignor to Hinsdale Manufacturing Company, Chicago, Ill. Wrench. 1,650,985; Nov. 22.
- McDougall Company. (See Himmelwright, Wallace G., assignor.)
- McDougall, David. (See Melville, A., and McDougall.)
- McDougall, Donald, Newark, N. J. Foot accelerator for motor cycles. 1,642,376; Sept. 13.
- McDougall, John A. (See McCannan, B. B., and McDougall.)
- McDowell, John L. (See Johnson, W. V., and McDowell.)
- McDowell, Lamont A., assignor to Hupp Motor Car Company, Detroit, Mich. Front-seat support. 1,623,800; Apr. 5.
- McDowell, La Mont A., assignor to Hupp Motor Car Corporation, Detroit, Mich. Striker-plate assembly. 1,646,588; Oct. 25.
- McDowell Manufacturing Company, The. (See McCoy, Harry E., assignor.)
- McDowell Manufacturing Company. (See Zabel, Charles, assignor.)
- McDowell, R. Dent. (See Reitz, Jacob J., assignor.)
- McDuffie, Benjamin H., assignor of one-half to S. Bergstein, Brooklyn, N. Y. Faucet. 1,615,713; Jan. 25.
- McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Bottle stopper. Des. 71,897; Jan. 4.
- McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Combination ash tray, matches support, and pipe rest. Des. 72,273; Mar. 22.
- McElhanev, Frank, Morgantown, W. Va. Aeroplane. 1,620,368; Mar. 8.
- McElligott, Michael, C. Preston, Ontario, Canada, assignor to The Cleveland Fare Box Company, Cleveland, Ohio. Fare box. 1,628,508; May 10.
- McElney, William A., Westfield, Mass. Advertising device. 1,618,599; Feb. 22.
- McElroy, Charles W., Philadelphia, Pa. Attachment for saxophones. 1,620,564; Mar. 8.
- McElvain, Howard C. (See McElvain, Howard J. and H. C.)
- McElvain, Howard J. and H. C., Portland, Oreg. Retort. 1,642,457; Sept. 13.
- McElvain, James, assignor of one-half to J. E. Wright, sr., Wheeling, W. Va. Method of and apparatus for indicating the amount of liquid in a supply tank. 1,620,606; Mar. 8.
- McElvain, W. H., Company. (See Holden, Luman, assignor.)
- McElwee, Clayton R. (See Whisler, J. C., and McElwee.)
- McElwee, Winfred. (See Arbogast, William H., assignor.)
- McElvra, Harley B., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Bank and trunk cable multiplexing system. 1,633,118; June 21.
- McEhanev, Owen F., Brooklyn, N. Y. Steam tube and piping for textile machinery. 1,637,387; Aug. 2.
- McEntee, Amby, Westfield, Me. Cultivator. 1,637,122; July 26.
- McEntee, Bernard C., and L. H. Constant, Wichita Falls, Tex. Shoe tongue and fastener. 1,624,143; Apr. 12.
- McEntee, James, Rochester, N. Y. Direction signal for motor vehicles. 1,635,427; July 12.
- McEntire, Kenneth S., Kansas City, Mo. Regulator for timepieces. 1,616,951; Feb. 11.
- McEvoy, Joseph H., Jr., Houston, Tex. Sand tester for well strainers. 1,613,469; Jan. 4.
- McEvoy, Joseph H., Jr., Houston, Tex. Wash plug. 1,630,666; May 31.
- McEvoy, Joseph H., Jr., Houston, Tex. Making strainer plugs. 1,632,090; June 14.
- McEvoy, Joseph H., Jr., Houston, Tex. Forming slotted screen pipe. 1,652,208; Dec. 13.
- McEvoy, William L., Worcester, and A. Hubbard, Leominster, Mass. Light for transmission locks. 1,651,927; Dec. 6.
- McEwan, Charles F., assignor to H. D. Lathrop, Chicago, Ill. Can conveying, inverting, and discharging mechanism. 1,649,073; Nov. 15.
- McEwen, Berton A. (See Johnston, Benjamin W., assignor.)
- McEwen, Samuel, London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Method and apparatus for carbonization of subdivided fuel. 1,648,856; Nov. 8.
- McFadden, Glenn E., Kansas City, Mo. Chandelier or similar article. Des. 73,388; Aug. 30.
- McFadden, Glenn E., Kansas City, Mo. Wall bracket back for an electric-lighting fixture or similar article. Des. 73,851; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Electric-lighting wall fixture or similar article. Des. 73,852; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Scroll arm for an electric-lighting fixture or similar article. Des. 73,853; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Arm for an electric-lighting fixture or similar article. Des. 73,854; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Decorative metal panel for an electric-lighting fixture or similar article. Des. 73,855; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Wall bracket back for an electric-lighting fixture or similar article. Des. 73,856; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Decorative metal panel for an electric-lighting fixture or similar article. Des. 73,857; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Wall bracket back for an electric-lighting fixture or similar article. Des. 73,858; Nov. 15.
- McFadden, Glenn E., Kansas City, Mo. Electric-lighting wall fixture or similar article. Des. 73,859; Nov. 15.
- McFaddin, Harrison, D., East Orange, N. J. Lamp support. Des. 74,142; Dec. 27.
- McFaddin, Harrison D., East Orange, N. J. Lamp support. Des. 74,143; Dec. 27.
- McFall, Robert J., Amherst, Mass. Leather-measuring machine. 1,619,143; Mar. 1.
- McFall, Thurlow E., Sparta, Mich. Piston packing. 1,624,613; Apr. 12.
- McFall, William W., Mankato, Minn. Soap supply for scrubbing machines. 1,648,857; Nov. 8.
- McFalls, Jones C., Pomona Mills, N. C. Dyeing and oxidizing machine. 1,619,263; Mar. 1.
- McFarland, Aliss M., Wilkinsburg, Pa., assignor to Westinghouse Gas and Dynamometer Company. Reduction gear. 1,624,416; Apr. 12.
- McFarland, Edward H., Power, W. Va., assignor to General Electric Company. Protective means for turbine bearings. 1,640,463; Aug. 30.
- McFarland, Floyd J., West Point, N. Y. Coin-controlled vending device. 1,632,493; June 14.
- McFarland, Frank, Mexico, Mo. Alleviator for hydraulic apparatus. 1,640,046; Aug. 23.
- McFarland, Frederick J., Bremerton, Wash. Sheet-metal-cutting tool. 1,621,798; Mar. 22.
- McFarland, John H., Merrill, assignors of one-fourth to F. E. Walcott, W. E. Weller, and W. H. McInch, for share, taneously drying and polishing beans and the like. 1,645,440; Oct. 11.
- McFarland, Joseph E., assignor of one-third to C. G. Somers, Burlington, N. C. Form-holding yoke. 1,632,141; June 14.
- McFarland, Robert E., Cicero, Ill., assignor to Western Electric Company Incorporated, New York, N. Y. Cord article and producing such articles. 1,615,094; Jan. 18.
- McFarland, Robert E., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Braiding machine. 1,642,785; Sept. 20.
- McFarland, William H. (See Giles, Henry G., assignor.)
- McFarlane, Maynard L. D. (See Bartholomew, H. G., and McFarlane.)
- McFarlane, W. D. (See Gildemeister, Carl J., assignor.)
- McFaull, Malcolm. (See Kimball, W. D., Rideout, and McFaull.)
- McFaull, Malcolm, and A. E. Rideout, assignors to Standard Sealing Equipment Corporation, New York, N. Y. Carton-handling apparatus. 1,634,078; June 28.
- McGaney, Robert E., Alexandria, Va. Lock for dump cars. 1,616,815; Feb. 8.
- McGall, Philip K., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Measuring instrument. 1,641,447; Sept. 6.
- McGee, George C., Providence, R. I., assignor to Slasher Rolls Co. Textile processing or finishing machine. 1,628,261; May 10.
- McGann, William D., Ravinia, and J. G. McGreevy, Chicago, assignors to Ontario Company, Chicago, Ill. Mailing device. 1,622,824; Mar. 29.
- McGaughey, Jesse L., Los Angeles, Calif. Luggage carrier. 1,623,484; Apr. 5.
- McGavack, John, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Making molded rubber articles from latex. 1,629,924; May 24.
- McGavack, John, Jackson Heights, N. Y., assignor to Revere Rubber Company, Chelsea, Mass. Preparing rubber-containing plastics and products obtained thereby. 1,640,364; Aug. 30.
- McGavack, John, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating latex. 1,647,805; Nov. 1.
- McGaughey, John, Elmhurst, N. Y., assignor to The Revere Rubber Company, Chelsea, Mass. Preparing rubber-containing plastics and products obtained thereby. 1,640,363; Aug. 30.
- McGee, Daniel W. (See Hart, F. J., and McGee.)
- McGee, Jesse E., Suntuon, Miss. Automobile parcel ham-mock. 1,616,591; Feb. 8.
- McGee Manufacturing Company. (See Roberts, Oren F., assignor.)

- McGee, Richard R., Ballston Lake, N. Y., assignor to General Electric Company. Expulsion fuse. 1,635,049; July 3.
- McGee, Richard T., Wheeling, W. Va. Blank-casting machine. 1,648,415; Nov. 8.
- McGee, William A., and J. E. O'Brien, Cleveland, Ohio. Flexible connection. 1,654,300; Dec. 27.
- McGeehin, Daniel J., West Hazleton, Pa. Temporary pipe coupling. 1,627,044; May 3.
- McGeehin, Daniel J., West Hazleton, Pa. Pipe scraper. 1,627,045; May 3.
- McGeehin, Daniel J., West Hazleton, Pa. Hydraulic water-pipe cleaner. 1,634,591; July 5.
- McGeehin, Daniel J., West Hazleton, Pa., assignor to The Chandler & Price Company, Cleveland, Ohio. Inking mechanism for printing presses. 1,654,301; Dec. 27.
- McGeough, Daniel H., Lakeview Park, Ontario, Canada. Chair. 1,647,926; Nov. 1.
- McGhee, James F. (See Lundin, T. B., and McGhee.)
- McGillert, John R., assignor to Clyde Iron Works, Duluth, Minn. Engine. 1,628,052; May 10.
- McGillert, John R., assignor to Clyde Iron Works, Duluth, Minn. Tractor skidder. 1,635,806; Aug. 23.
- McGill, Arthur A., Wisner, Nebr. Pliers. 1,651,216; Nov. 29.
- McGill, Chester T., assignor to Reiter Company, Elgin, Ill. Two-flow base-exchange water softener. 1,624,614; Apr. 12.
- McGill, George F., Marengo, assignor to McGill Metal Products Company, Chicago, Ill. Hand punch. 1,653,057; Dec. 20.
- McGilton, James D. (See Williams, I. B., and McGilton.)
- McGinley, James B., Newark, N. J. Incandescent electric lamp. 1,650,289; Nov. 22.
- McGill Manufacturing Company. (See Despard, Victor E., assignor.)
- McGill Manufacturing Company. (See Gordon, David D., assignor.)
- McGill Manufacturing Company. (See Urbahn, Allen G., assignor.)
- McGill Metal Products Company. (See Beck, Albert, assignor.)
- McGill Metal Products Company. (See McGill, George F., assignor.)
- McGinley, George M., assignor to G. W. J. Murphy Company, Amesbury, Mass. Fastener. 1,652,575; Dec. 13.
- McGinley, Peter, Newark, Ohio. Railway-rail joint. 1,640,791; Aug. 30.
- McGinn, Patrick J., New York, N. Y. Valve. 1,633,488; June 21.
- McGinn, Satoli P. (See Mooney, William, assignor.)
- McGinness, Joseph E., Pittsburgh, Pa. Golf-ball marker. 1,633,536; June 21.
- McGinness, John, Trinidad, Colo., assignor to McGinness Vehicle Wheel Company. Vehicle wheel. 1,638,741; Aug. 9.
- McGinness Vehicle Wheel Company. (See McGinness, John, assignor.)
- McGinnis, Crawford P., assignor to The Pyle-National Company, Chicago, Ill. Locomotive-headlight-focusing attachment and pilot light therefor. 1,648,955; Nov. 15.
- McGinnis, Crawford P., and C. W. Dake, assignors to The Pyle-National Company, Chicago, Ill. Locomotive headlight and mounting therefor. 1,650,719; Nov. 29.
- McGinnis, David R., Kalispell, Mont. Electric poultry pen. 1,621,424; Mar. 15.
- McGinnis, David R., Kalispell, Mont. Heavy duty locomotive. 1,628,262; May 10.
- McGinnis, Edward R. (See Thompson, Arthur A., assignor.)
- McGinnis, John A. (See Davis, W. T., and McGinnis.)
- McGinnis, William T., Princeville, Ill. Printing appliance. 1,635,143; Nov. 29.
- McGinty, John J., New York, N. Y. Swing. 1,626,204; Apr. 26.
- McGlashan, Norman, New York, N. Y. Hair-cutting device. 1,634,788; July 5.
- McGlocklin, Charles E., et al. (See Krum, John H., assignor.)
- McGlothlin, John F., Seattle, Wash. Table. 1,645,336; Oct. 11.
- McGlynn, Frederick T., Jamaica, N. Y. Pasteur cutting and applying machine. 1,636,611; July 19.
- McGonagle, Daniel, Everett, Mass. Conduit cleaner. 1,617,068; Feb. 8.
- McGourty, Laurence O., New York, N. Y. Razor-blade holder. 1,648,618; Nov. 8.
- McGovern, Bernard F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-supporting rim. 1,614,892; Jan. 18.
- McGowan, James J., Merchantville, N. J., assignor to The Campbell Soup Company. Cooking spaghetti and similar foods. 1,634,332; July 5.
- McGowan, Patrick A., Williamsport, Pa. Brooder. 1,636,749; July 26.
- McGowan, Peter J., Hyde Park, assignor to Wellman & Bedford, Mass. Sole-cutting machine. 1,645,441; Oct. 11.
- McGowan, Thomas H., sr., Jewett City, Conn., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism. 1,651,144; Nov. 29.
- McGowan, William L., Galt, Mo. Ironing board. 1,634,294; July 5.
- McGowen, Charles C., Los Angeles, Calif. Measuring device. 1,614,139; Jan. 11.
- McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,631,640; June 7.
- McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Vehicle bumper. 1,635,965; July 26.
- McGrainigan, John R., Philadelphia, Pa. Holder for a curling iron. Des. 73,617; Oct. 11.
- McGrainigan, John, Roxborough, Pa. Coin-controlled dispensing apparatus. 1,626,348; Apr. 26.
- McGrath, Fred B., Clarksburg, Mass. Aeroplane wing. 1,637,954; Aug. 2.
- McGrath, James N., Jr. (See Fulgura, Fred, assignor.)
- McGrath, John H. (See Manott, H., and McGrath.)
- McGrath, John T., Bloomington, Ill. Clamp for rotary can openers. 1,618,467; Feb. 22.
- McGrath, John T., Bloomington, Ill. Device for washing dishes and the like. 1,642,933; Sept. 20.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,637,422; Aug. 2.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,650,637; Nov. 29.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,650,638; Nov. 29.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,650,639; Nov. 29.
- McGraw, Edward J., Saginaw, Mich. Receptacle for golf tees and matches. 1,649,245; Nov. 15.
- McGreedy, James G. (See McGann, W. D., and McGreedy.)
- McGregor, Aaron, Springville, Miss. Cotton-chopping machine. 1,648,775; Nov. 8.
- McGregor, Alexander G., Warren, Ariz. Apparatus for transporting calcine from roaster furnaces and charging same into reverberatory furnaces. Rel. 6,685; July 19.
- McGregor, Alexander G., Warren, Ariz. Reverberatory-furnace waste-heat boiler. 1,632,844; June 21.
- McGregor, Donald B. (See McGregor, Herman C. and D. B.)
- McGregor, Ernest F., Norwalk, Conn. Wick adjuster. 1,641,429; Jan. 11.
- McGregor, Ernest T., Vancouver, British Columbia, Canada. Process for the recovery of pulp from printed waste paper. 1,640,612; Aug. 30.
- McGregor, Gordon A., Stawell, Victoria, Australia. Wheel set of farm tractors and other agricultural machinery. 1,644,536; Oct. 4.
- McGregor, Herman C. and D. B., Berkeley, Calif. Demountable seat. 1,623,259; Apr. 5.
- McGregor, Samuel, Buena Park, Calif. Sucker-rod elevator. 1,630,537; May 31.
- McGuire, Richmond Hill, assignor to Solidarity Watch Case Company, New York, N. Y. Article holder and case. 1,629,400; May 17.
- McGuire, Jeremiah, Richmond Hill, N. Y., assignor to Solidarity Watch Case Company, New York, N. Y. Production of stamped figures. 1,632,305; June 14.
- McGuire, Earl B., assignor to McGrew Machine Company, Lincoln, Nebr. Awning support. 1,621,941; Mar. 22.
- McGrew Machine Company. (See McGrew, Earl E., assignor.)
- McGuane, Felix J., Chicago, Ill. Water heater. 1,649,610; Nov. 15.
- McGuinn, John J., assignor to Stevens Walden-Worcester, Incorporated, Worcester, Mass. Wheel puller. 1,643,896; Sept. 27.
- McGuiness, Benjamin F., Grafton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Auxiliary frame. 1,633,644; June 28.
- McGuinness, Thomas F., Portland, Me. Machine for distributing sand and the like. 1,623,743; Apr. 5.
- McGuire, Hugh W. (See Cobb, William J., assignor.)
- McGuire, Philip. (See Ferguson, J. J., Maguire, Ferguson, Anderson, and McGuire.)
- McGuire, Edward J., Newark, N. J., assignor to Greene, Tweed & Co. Ash tray. Des. 72,906; June 21.
- McHargue, William J. (See Woodruff, Benjamin F., assignor.)
- McHenry, Samuel B., Bloomsburg, Pa. Broom. 1,647,927; Nov. 1.
- McHugh, Edward F., Kingston, Pa. Ventilating sash. 1,628,547; Apr. 26.
- McHugh, Marion L., Wichita, Kans. Tent-pole shackle ring. 1,622,600; Mar. 29.
- McHugh, Philip M., Pelham Manor, assignor to The Dorr Company, New York, N. Y. Manufacture of whitening. 1,634,877; July 5.
- McIlhany, William H. (See Mowles, Cecil A., assignor.)
- McIlvaine, Cloyd A., Balboa Heights, Canal Zone. Golf tee. 1,635,376; July 12.
- McIlwaine, John, Virden, Ill. Cushion tire. 1,625,558; Nov. 29.
- McInerney, Peter J. (See Forrester, John D., assignor.)
- McInerney, Peter J., Dallas, Tex. Grooving and reinforcement supporting device and process. 1,634,262; July 5.
- McInerney, Peter J., Dallas, Tex. Joint form. 1,634,263; July 5.

- McInerney, Peter J., Dallas, Tex. Treating asphaltic paving materials. 1,634,264; July 5.
- McInerney, Thomas, Williamsport, Pa. Garage-door-actuating means. 1,634,954; July 5.
- McIntire, Charles V. (See Knowles, A. S., and McIntire.)
- McIntosh, Alan M., Sydney, Australia. Making and molding hard porcelain. 1,627,245; May 3.
- McIntosh, Charles J., Milwaukee, assignor to Federal Steel Sash Company, Waukesha, Wis. Welding steel sash. 1,648,416; Nov. 8.
- McIntosh Electrical Corporation. (See MacLagan, Hector P., assignor.)
- McIntosh, James. (See Bennett, H. T., McIntosh, and McNelly.)
- McIntosh, James, Norristown, Pa., assignor to Diamond State Fibre Company, Bridgeport, Pa. Paper product and making same. 1,631,750; June 7.
- McIntosh, James, Norristown, assignor to Diamond State Fibre Company, Bridgeport, Pa. Synthetic resin and making same. 1,642,079; Sept. 13.
- McIntosh, James, and E. Y. Wolford, Norristown, Pa., assignors to Diamond State Fibre Company, Elmsere, Del. Synthetic resin and making same. 1,642,078; Sept. 13.
- McIntosh, James A., Detroit, Mich., assignor to The Leese-Bradner Company, Cleveland, Ohio. Gear-tooth gauge. 1,642,077; Sept. 13.
- McIntosh, Robert D., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Welding torch. 1,625,128; Jan. 13.
- McIntosh, Robert D., River Forest, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Quick-acting shut-off valve for oil burners, etc. 1,651,034; Nov. 29.
- McIntosh, Robert L., Indiana Harbor, Ind., and G. Fox; said Fox assignor to Frey Engineering Company, and said McIntosh assignor to Inland Steel Company, Chicago, Ill. Method and apparatus for heating rolls. 1,622,286; Mar. 29.
- McIntosh, Robert L., Indiana Harbor, Ind., assignor to Inland Steel Company, Chicago, Ill. Heater for rolls. 1,644,069; Oct. 4.
- McIntosh, Roger S., Hazard, Ky. Fluid-pressure brake. 1,643,165; Sept. 20.
- McIntosh, Roy E., New York, assignor to J. E. Ogden, Mountville, N. Y. Clamp. 1,654,340; Dec. 27.
- McIntyre, Arthur B., Billings, Mont. Fireproof composition. 1,628,171; May 10.
- McIntyre, Allan H., Winchester, Va. Fruit-grading machine. 1,627,246; May 3.
- McIntyre, David A. (See Mueller, Emil L., assignor.)
- McIntyre, Elmer L., Detroit, Mich., assignor to The Studenke Corporation, South Bend, Ind. Speedometer drive mechanism. 1,644,885; Oct. 11.
- McIntyre, John, Portobello, Edinburgh, Scotland, assignor of one-half to Swinfen Bramley-Moore, New York, N. Y. Grinding, refining, and mixing machine. 1,638,855; Aug. 9.
- McIntyre, Mac. (See Fotheringham, T. B., and McIntyre.)
- McIntyre, Patrick J., Detroit, Mich., assignor to Wolverine Tube Company. Radiating device. 1,634,110; June 28.
- McIntyre, Royal A., and A. D. Hastings. West Tulsa, Okla. Tank valve. 1,621,638; Mar. 22.
- McIntyre, Sydney S., Sedro Woolley, Wash. Gas-engine-driven hoist. 1,649,908; Nov. 22.
- McIntyre, William A., Beaver Creek, Oreg. Price indicator. 1,647,877; Nov. 1.
- McIlton, Karl F., Moberly, Mo. Centering device for pistons. 1,636,918; July 26.
- McKale, George W., Elsmore Township, Allen County, Kans. Bearing for connecting rods and for other parts of machinery. 1,646,302; Oct. 13.
- McKash, Charles, Hoquiam, Wash. Actor's make-up kit. 1,638,356; Aug. 9.
- McKay, Francis, assignor to Mercantile Trust Company of Canada, Limited, In Trust, Hamilton, Ontario, Canada. Telegraph receiver. 1,650,997; Nov. 29.
- McKay, George H. (See Pangborn, L. D., Warwick, and McKay.)
- McKay, John A., Manufacturing Company, The. (See McKay, J. A., and Lynch, assignors.)
- McKay, John A., and P. H. Lynch, assignors to The John A. McKay Manufacturing Company, Inc., Dunn, N. C. Lock for the wheeled axles of stalk cutters and other wheeled agricultural implements. 1,620,369; Mar. 8.
- McKay, John A., and P. H. Lynch, assignors to The John A. McKay Manufacturing Company, Inc., Dunn, N. C. Stalk cutter. 1,628,730; May 17.
- McKay, John L., Minneapolis, Minn. Humidifier. 1,637,123; July 20.
- McKay, Pingree H., Bay City, Mich. Sanitary face shield. 1,648,315; Nov. 8.
- McKay, Pingree H., Bay City, Mich. Sanitary pad. 1,648,316; Nov. 8.
- McKay, William A., et al. (See Palmer, Harry A., assignor.)
- McKay, William A., Bloomfield, and C. C. Colby, Newark, N. J., assignors to Westinghouse Lamp Company. Non-arc electric lamp. 1,647,647; Nov. 1.
- McKeam, John O., assignor to Foster Machine Company, Westfield, Mass. Winding machine. 1,620,267; Mar. 8.
- McKeam, John O., assignor to Foster Machine Company, Westfield, Mass. Creel. 1,623,546; Apr. 5.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Winding machine. 1,647,534; Nov. 1.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Wound package and producing the same. 1,647,533; Nov. 1.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Self-driven device for automatically untwisting yarn to remove the kinks therefrom. 1,650,901; Nov. 29.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Power-driven device for automatically untwisting yarn to remove the kinks therefrom. 1,650,902; Nov. 29.
- McKee, Arthur G., & Company. (See Irwin, John P., assignor.)
- McKee, Arthur G., Cleveland, Ohio. Distributor-driving mechanism for blast-furnace stacks. 1,622,461; Mar. 29.
- McKee, Benjamin F., Arma, Kans. Engine valve. 1,633,450; June 21.
- McKee, Garret W., Rockford, Ill. Temperature regulator for furnaces and the like. 1,645,506; Oct. 11.
- McKee, James, Chester, assignor to Sun Oil Company, Philadelphia, Pa. Making grease. 1,619,352; Mar. 1.
- McKee, James, Chester, assignor to Sun Oil Company, Philadelphia, Pa. Making grease. 1,637,703; Aug. 2.
- McKee, Neal T., Bronxville, N. Y. Locomotive. 1,636,781; July 26.
- McKee, Neal T., Mount Vernon, assignor to The Superheater Company, New York, N. Y. Exhaust-steam injector. 1,618,135; Feb. 15.
- McKee, Neal T., Mount Vernon, assignor to The Superheater Company, New York, N. Y. Forging machine. 1,650,399; May 31.
- McKee, Neal T., Bronxville, assignor to The Superheater Company, New York, N. Y. Feed-water-heater arrangement. 1,630,400; May 31.
- McKee, Neal T., Bronxville, assignor to The Superheater Company, New York, N. Y. Feed-water-heater arrangement. 1,638,847; June 28.
- McKee, Ralph H., New York, N. Y. Making organic peroxides. 1,614,037; Jan. 11.
- McKee, Ralph H., New York, N. Y. Making alkyl sulphates. 1,641,005; Aug. 30.
- McKee, William M., Cumberland, Md. Piston-ring applier. 1,635,722; July 12.
- McKee, William J., Detroit, Mich. Display cabinet. 1,650,845; Nov. 29.
- McKeefe, Edward P. (See Bradley, L., and McKeefe.)
- McKellar, Archie, Wausau, Wis. Mower. 1,635,050; July 5.
- McKellar, Harry R., San Francisco, Calif. Key. 1,653,651; Dec. 20.
- McKellar, John F., St. Paul, Minn. Glare shield. 1,653,651; Dec. 27.
- McKendrick, Percy F. (See De La Mare, Thomas, assignor.)
- McKenna, Alexander G., Washington, D. C., assignor to Pomona Manufacturing Company, Pomona, Calif. Bearing for turbine-pump shafts. 1,646,624; Oct. 25.
- McKenna Brass & Manufacturing Company Inc. (See Shick, William W., assignor.)
- McKenna, Brass and Manufacturing Company. (See Shields, P. W., and De Markus, assignors.)
- McKenna-Horix Manufacturing Company. (See Hallwood, Nathan A., assignor.)
- McKenna, William, assignor to Albert Pick & Company, Chicago, Ill. Steam cooker. 1,628,895; May 17.
- McKenney, Charles S., assignor to Seward Trunk and Bag Company, Petersburg, Va. Trunk carrier for automobiles. 1,650,527; Nov. 22.
- McKenney, Fred Y., and W. H. Cheney, Chattanooga, Tenn., assignors of one-sixth to M. A. Watson, one-sixth to J. A. Kelly, one-sixth to J. F. Kelly, one-sixth to J. B. Robinson, one-eighth to B. E. Robinson, jr., and seven-thirtieths to J. Z. Easley. Soap and water mixer. Re16,797; Nov. 22.
- McKenzie, Donald A., Swarthmore, Pa., assignor to The Viscose Company, Marcus Hook, Del. Method for use in the manufacture of artificial silks. 1,630,197; May 24.
- McKenzie, Donald A., Swarthmore, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus for use in the manufacture of artificial silk and the like. 1,648,619; Nov. 8.
- McKenzie, George, Finchley, London, England. Manufacture and truing of built-up wheels. 1,637,345; Aug. 2.
- McKenzie, John, Quincy, Mass. Tire mounting and de-mounting machine. 1,615,469; Jan. 25.
- McKenzie, John, Whangarei, Auckland, New Zealand. Wall construction. 1,627,986; May 10.
- McKeon, Patrick D., Shelton, assignor to International Silver Company, Meriden, Conn. Cigarette case or similar article. Des. 73,616; Oct. 11.
- McKeon, Thomas F., Fenton, Mich. Fence post. 1,649,909; Nov. 22.
- McKeown, Joseph B., Grantwood, N. J. Explosive chamber for gas engines. 1,620,565; Mar. 8.
- McKeown, William C., assignor to Modern Household Appliance Company, Baltimore, Md. Discharge manifold for pressure containers. 1,625,044; Apr. 19.
- McKeown, William C., assignor to Modern Household Appliance Company, Baltimore, Md. Automatic reducing and cut-off valve. 1,653,811; Dec. 27.

- McKeown, William C., assignor to Modern Household Appliance Company, Baltimore, Md. Liquid-fuel gas range. 1,653,867; Dec. 27.
- McKeralhan, George. Jet-operated air compressor. 1,652,177; Dec. 13.
- McKesson, Elmer I., Toledo, Ohio. Mask. 1,632,449; June 14.
- McKesson, Elmer I., assignor to The Vocophone Company, Toledo, Ohio. Breathing and vocal attachment. 1,633,705; June 28.
- McKesson, William C., Chicago, Ill. Settling tank. 1,632,036; Dec. 8.
- McKibben, Robert E., Warrendale, Pa. Shoe. 1,620,612; Mar. 8.
- McKinley, Charles W., assignor to A C Spark Plug Company, Flint, Mich. Filter. 1,651,400; Dec. 6.
- McKinley, Thomas C. (See Rhoades, W. A., and McKinley.)
- McKinley, Thomas C., et al. (See Ward, Andrew W., assignor.)
- McKinley, Thomas C., Charleston, W. Va., assignor to Libbey-Owens Sheet Glass Company, Toledo, Ohio. Forming sheet glass. 1,646,488; Oct. 25.
- McKinney, Anderson B. (See Lines, Grant, assignor.)
- McKinney, Carlos J., Detroit, Mich., assignor to The Republic Rubber Company, Youngstown, Ohio. Runway for windows. 1,634,878; July 5.
- McKinney, Edward H., Salina, Kans. Fluid-power trans. 1,633,555; June 21.
- McKinney, Edward H., Salina, assignor to The Hydraulic Specialty Manufacturing Company, Topeka, Kans. Hydraulic clutch transmission. 1,636,700; July 26.
- McKinney, Francis B., Baldwin Township, Allegheny County, assignor to Auto Brakeometer Corporation, Pittsburgh, Pa. Auto brake-testing device. 1,654,136; Dec. 27.
- McKinney, James P., jr., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Hinge. 1,618,544; Feb. 22.
- McKinney Manufacturing Company. (See McKinney, James P., jr., assignor.)
- McKinnie, Beverly R., et al. (See Snodgrass, Joseph C., assignor.)
- McKinnon Dash Company. (See Armstrong, Wesley J., assignor.)
- McKinnon, John W. (See Dimelow, Thomas E., assignor.)
- McKinsey, Clarence E., Cleveland, Ohio. Feeding mechanism. 1,648,493; Nov. 8.
- McKinstry, Arthur L., Southbridge, Mass., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Making ophthalmic mountings. 1,639,355; Oct. 19.
- McKissick, William H., Tulsa, Okla. Safety block. 1,633,489; June 21.
- McKissick, William H., Tulsa, Okla. Safety sheave block. 1,633,537; June 21.
- McKissick, William H., Tulsa, Okla. Safety sheave. 1,645,014; Oct. 11.
- McKissick, William H., Tulsa, Okla. Safety sheave block. 1,650,903; Nov. 29.
- McKissick, William H., Tulsa, Okla. Safety sheave block. 1,650,904; Nov. 29.
- McKittrick, Donald S. (See Humphrey, C. W., and McKittrick.)
- McKittrick, George, Independence, Kans. Ladle. 1,612,826; Jan. 4.
- McKnight, John P., Revere, Mass. Apparatus for molding cementitious material. 1,625,486; Apr. 19.
- McKone, Leo J., Minneapolis, Minn. Connecting-rod structure. 1,643,720; Sept. 27.
- McKown, Frederick W., Englewood, and E. Dietze, Westfield, N. J., assignors to American Telephone and Telegraph Company. Telephone substation circuits. 1,624,056; Apr. 12.
- McKown, Frederick W., Englewood, and E. Dietze, Westfield, N. J., assignors to American Telephone and Telegraph Company. Telephone substation circuits. 1,624,057; Apr. 12.
- McKown, Randall C., assignor to Axelson Machine Company, Los Angeles, Calif. Protected standing-valve puller. 1,614,747; Jan. 18.
- McKue, Frank B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Open-hearth furnace. Re16,837; Dec. 27.
- McLachlan, Colin D., Glasgow, Scotland. Boat raising and lowering gear. 1,616,456; Feb. 8.
- McLain, Edgar W., Higginsville, Mo. Pan scraper. 1,645,308; Oct. 18.
- McLain, H. E. (See Broad, William, assignor.)
- McLain, Robert E., and O. D. Daniel, Denver, Colo. Audible indicator and meter for gasoline pumps. 1,647,806; Nov. 1.
- McLaine, Claude L., Boston, assignor to Seal-Pak Company, Naick, Mass. Closure for containers. 1,619,264; Mar. 1.
- McLaine, William L., Los Angeles, and W. L. Borough, Fullerton, Calif. Lubricating stuffing box. 1,630,444; May 31.
- McAllen, Rob E., Oak Park, Ill. Corrective device. 1,636,101; July 19.
- McLane, Leland S. (See Conant, E. T., and McLane.)
- McLaren Automobile Signal Company. (See McLaren, Peter, assignor.)
- McLaren, Peter, Whittier, Calif., assignor to McLaren Automobile Signal Company. Drill-collar protector. 1,613,039; Jan. 4.
- McLaren, Robert L., et al. (See Giancola, Nicholas, assignor.)
- McLarty, Edward, sr., and S. L. Blankenship, Los Angeles, Calif. Universal radio and direct-service system. 1,631,690; June 7.
- McLarty, Gordon, Rochester, N. Y. Apparatus for applying nonslipping material to floor coverings. 1,625,863; Apr. 26.
- McLaughlin, James, Dolton, assignor to Richard Fitzgerald, Chicago, Ill. Baking brick. 1,631,144; June 7.
- McLaughlin, Allen W., River Falls, Wis. Motor brace. 1,646,062; Oct. 18.
- McLaughlin, Bernard F., and J. Loftus, Brooklyn, N. Y. Heating roll for printing presses. 1,633,451; June 21.
- McLaughlin, Celia B., administratrix. (See McLaughlin, Wharton B.)
- McLaughlin, Celia B., administratrix of the estate. (See McLaughlin, Wharton B.)
- McLaughlin, Denis P., San Diego, Calif. Printer's type binder. 1,645,645; Nov. 8.
- McLaughlin, Everett E. (See Naujoks, W., and McLaughlin.)
- McLaughlin, Francis P., Pittsburgh, Pa. Mattress-adjusting apparatus. 1,639,462; Aug. 16.
- McLaughlin, Frank, Toronto, Ontario, Canada. Closure for dispensing containers. 1,614,077; Jan. 11.
- McLaughlin, Frank, Toronto, Ontario, Canada. Tubular dispenser. 1,637,955; Aug. 2.
- McLaughlin, George E. (See Brophy, J. J., and McLaughlin.)
- McLaughlin, George E., Penbody, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me. Measuring machine. 1,638,950; Aug. 16.
- McLaughlin, John J., assignor to H. L. Warner, Brooklyn, N. Y. Turnstile. 1,623,744; Apr. 5.
- McLaughlin, Patrick T., and W. Anderson, Miami, Okla. Safety blasting cartridge. 1,642,341; Sept. 13.
- McLaughlin, Patrick T., and W. Anderson, Miami, Okla. Bottle-exchange receptacle for containing milk bottles. 1,642,999; Sept. 20.
- McLaughlin, Walter J., Sacramento, Calif. Corrugating and beveling rolls. 1,617,069; Feb. 8.
- McLaughlin, Wallace D., and D. J. Wilkens, Fulton, Ill. Toy. 1,646,791; Oct. 25.
- McLaughlin, Wharton B., deceased, New York, N. Y.; C. B. McLaughlin, administratrix. Concentrating fluids. 1,615,287; Jan. 25.
- McLaughlin, Wharton B., deceased, New York, N. Y.; C. B. McLaughlin, administratrix. Producing dry milk. 1,616,631; Feb. 8.
- McLaughlin, Wharton B., deceased, New York, N. Y.; C. B. McLaughlin, administratrix. Preserving fruits. 1,631,974; June 18.
- McLaughlin, Wharton B., deceased, New York, N. Y.; C. B. McLaughlin, administratrix. Method and manufacture of fruit preserves. 1,634,295; July 5.
- McLaughlin, William E., assignor to The Barkeloe Electric Manufacturing Company, Middletown, Ohio. Electric switch. 1,649,480; Nov. 15.
- McLaughlin, William J., Owatonna, Minn. Overrun tester. 1,642,212; Sept. 13.
- McLaughlin, William T., Indianapolis, Ind. Pipe support. 1,617,259; Feb. 8.
- McLaughlin, William T., Boston, Mass. Shoe and heel and arch support therefor. 1,643,907; Nov. 15.
- McLaurin, Arthur A. (See Hartvig, J. A., and McLaurin.)
- McLaurin-Jones Co. (See McLaurin, William W., assignor.)
- McLaurin, William W., Brookfield, Mass. Coated paper and coating paper. 1,619,027; Mar. 1.
- McLaurin, William W., assignor to McLaurin-Jones Co., Brookfield, Mass. Strip gummed paper and making the same. 1,619,081; Mar. 1.
- McLauthlin, George T., Company. (See Dodd, John W., assignor.)
- McLauthlin, George T., Company. (See McLauthlin, M. B., and Dodd, assignors.)
- McLauthlin, Martin B., Malden, and J. W. Dodd, Quincy, assignors to George T. McLauthlin Company, Boston, Mass. Elevator hoist. 1,650,936; Nov. 29.
- McLeard, Edgar, and J. C. Nashville, Ark. Insert for timers. 1,635,092; July 5.
- McLeard, John C. (See McLeard, Edgar G. and J. C.)
- McLean, Barnet W., Philadelphia, Pa. Chair. Dec. 3, 73,581; Sept. 27.
- McLean, Charles, Berkeley, Calif. Washing machine. 1,641,344; Sept. 8.
- McLean, Clarence O., Winchester, Mass. Reflecting indicator. 1,622,958; Mar. 20.
- McLean, Embury, Brooklyn, assignor to The Engineer Company, New York, N. Y. Regulator or controller. 1,635,438; Dec. 20.
- McLean, Grant. (See Laurence, Guillaume C., assignor.)
- McLean, James S., Albuquerque, assignor of forty-nine per cent to R. F. Johnston, Albuquerque, N. Mex. Signal. 1,642,934; Sept. 20.
- McLean, Joseph, South Manchester, Conn. Furnace. 1,624,062; Apr. 19.
- McLean, Philip S., et al. (See Stoll, H. C., and Schroder, assignors.)

- McLellan, James H., Vancouver, British Columbia, Canada. Drink-dispensing machine. 1,634,036; June 28.
- McLellan, Joseph R., assignor of one-half to H. F. Hoffman, Wichita, Kans. Lock-actuated switch. 1,625,371; Apr. 19.
- McLemore, Henry G., Columbus, Ga. Catch attachment for looms. 1,633,452; June 21.
- McLeod, George D., Chicago, T. F. Pokorski, Calumet City, Ill., and T. J. Hewitt, Hammond, Ind. Steel water arc and siphon. 1,646,304; Oct. 13.
- McLeod, John A., Memphis, Tenn. Scutching fibrous plants. 1,627,919; May 10.
- McLeod, John E., Washington, Kans. Locking device for motor vehicles. 1,645,914; Oct. 18.
- McLeod, Peter, Glasgow, Scotland. Curling stone. 1,637,754; Aug. 2.
- McLoughlin, Francis J., Brooklyn, N. Y. Turnstile. 1,617,918; Feb. 15.
- McLoughlin, Patrick, Worcester, Mass. Snap hook. 1,650,802; Nov. 29.
- McMahon, Emmet H. (See Deasb, L. F. and McMahon).
- McMahon, J. F., et al. (See Jones, Winfield S., assignor).
- McMahon, John, Rotokohu, West Port, New Zealand. Brake for railway vehicles. 1,616,502; Feb. 8.
- McMahon, Nathan A., Durand, Wis. Strainer. 1,630,198; May 24.
- McMahon, Nicholas J., Baltimore, Md., assignor to General Electric Company, Skid. 1,652,905; Dec. 13.
- McMahon, William F., Riverside, Calif. Noiseless elevator safety stop. 1,620,033; Mar. 8.
- McMahon, William F., Riverside, Calif. Nonshrinkage cavity ingot mold. 1,641,597; Sept. 6.
- McMahon, William F., Riverside, Calif. Oil-well pump. 1,642,121; Sept. 13.
- McMahon, William F., Riverside, Calif. Division-head propelling screen. 1,642,122; Sept. 13.
- McMahon, William F., Riverside, Calif. Pump piston. 1,650,877; Nov. 29.
- McMakin, Julius G., Chicago, Ill. Trolley control. 1,623,430; Apr. 5.
- McManaman, Charles E., Swayzee, Ind. Lighter. 1,621,373; Mar. 15.
- McManaman, Patrick and J. Namet, Cleveland, Ohio. Combined signal casing and radiator cap. Des. 73,140; July 26.
- McManaman, Patrick and J. Namet, Cleveland, Ohio. Combined signal casing and tag holder. Des. 73,141; July 26.
- McManamay, Charles A., Beckley, W. Va. Strip. 1,622,959; Mar. 29.
- McMann, Margaret E., New York, N. Y. Amusement device. 1,622,877; Mar. 29.
- McManus, Charles E., New York, N. Y. Cushion material for bottle closures. 1,638,541; Aug. 9.
- McManus, Joseph H., Power, Mont. Folding bed for automobiles. 1,622,462; Mar. 29.
- McMaster, Cedric S., Woodstock, Ontario, Canada, assignor, by mesne assignments, to Scott and Williams, Inc., New York, N. Y. Stocking and the like and finishing the same. 1,616,537; Feb. 8.
- McMaster, David, Seattle, Wash. Machine for applying plaster. 1,637,722; Dec. 27.
- McMaster, Flossie M., San Jose, Calif. Hair-marceling device. 1,635,683; July 12.
- McMath, A. G., et al. (See Everts, Walter W., assignor).
- McMennin, Joseph, Philadelphia, Pa. Keyless lock. 1,618,841; Feb. 26.
- McMichael, Paul, Flushing, assignor to The Hydrocarbon Refining Process Co., Inc., New York, N. Y. Refining hydrocarbon oils. 1,641,546; Sept. 6.
- McMillan, Albert M., Riverdale, Md. Printing-press chase. 1,624,751; Apr. 12.
- McMillen Book Company. (See Sterling, Harry C., assignor).
- McMillan, Claude R. (See Cain, E. R. and McMillan).
- McMillan, Edward H., Oakland, Calif. Quick-action clamp. 1,619,144; Mar. 1.
- McMillan, Edward H., Oakland, Calif. Combination tandem concrete-mixing machine. 1,619,145; Mar. 1.
- McMillan, Edward O., Minneapolis, Minn. Gauge device. Re. 16,529; Jan. 11.
- McMillan, Howard O., Minneapolis, Minn. Clamp for concrete-column forms. Re. 16,736; Sept. 13.
- McMillan, Howard O., Minneapolis, Minn. Form tie for concrete forms. 1,635,428; July 12.
- McMillan, Howard O., Minneapolis, Minn. Column clamp with castings. 1,636,143; July 19.
- McMillan, Hugh P., assignor to Samuel H. Dell & Co., Inc., Baltimore, Md. Manufacturing brushes. 1,619,428; Mar. 1.
- McMillan, John L., Syracuse, N. Y. Loose-leaf binder. 1,640,087; Aug. 23.
- McMillan, John E., Larchmont, assignor to Johns-Manville Corporation, New York, N. Y. Insulation construction. 1,654,137; Dec. 27.
- McMillon, Albert K., assignor to Central Tube Company, Pittsburgh, Pa. Roll-off plate. 1,640,957; Aug. 30.
- McMiller, Benjamin R., Kansas City, Mo. Metallic coffee case. 1,622,529; Mar. 29.
- McMinn, John E., assignor to Peerless Manufacturing Company, Louisville, Ky. Fireplace heater. Des. 72,068; Feb. 22.
- McMinn, John E., assignor to Peerless Manufacturing Company, Louisville, Ky. Heater. Des. 72,177; Mar. 8.
- McMinn, John E., assignor to Peerless Manufacturing Company, Louisville, Ky. Heater. Des. 72,560; May 3.
- McMullen, Edward E. (See Le Gaucour, Jacques, assignor).
- McMullen Fire Extinguisher Company. (See McMullen, Ralph W., assignor).
- McMullen, George B., assignor to Sanitary Nursing Bottle Company, Inc., Philadelphia, Pa. Nursing bottle. 1,639,096; Aug. 16.
- McMullen, John, Buffalo, N. Y. Uncoupling device. 1,637,198; July 26.
- McMullen, John, Buffalo, N. Y. Hopper-car door. 1,638,125; Aug. 9.
- McMullen, John, Buffalo, N. Y. Wall structure for railway cars. 1,639,264; Aug. 16.
- McMullen, John, Buffalo, N. Y. Car-brake device. 1,641,983; Sept. 13.
- McMullen, Joseph B., Washington, D. C., assignor of one-third to B. T. Naylor and one-third to J. K. E. Diefenderfer, Baltimore, Md. Compressor. 1,614,481; Jan. 13.
- McMullen, Ralph W., Detroit, Mich., assignor to McMullen Fire Extinguisher Company. Pump-gun fire extinguisher. 1,649,718; Nov. 15.
- McMurdie, Francis J., Kalamazoo, Mich. Fan. 1,652,285; Dec. 13.
- McMurray, Alexander, Auburn, Sydney, New South Wales, Australia. Electric truncheon torch. 1,637,650; Aug. 2.
- McMurtrey, Elisha L., Rison, Ark. Shank and edge trimmer. 1,646,654; Oct. 25.
- McMurtrey, Elisha L., Rison, Ark. Sole-edge burnisher. 1,646,655; Oct. 25.
- McMurtrey, Adnah, New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,299; Oct. 4.
- McMurry, Interstate Company, The. (See Wright, James B., assignor).
- McMyler Interstate Company, The. (See Yerkes, George B., assignor).
- McNair, Dora S., Waxahachie, Tex. Undergarment. 1,644,844; Oct. 11.
- McNary, Jacob W., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Gas-density meter. 1,648,693; Nov. 8.
- McNamara, James A., New York, N. Y. Milk-bottle protector. 1,619,745; Mar. 1.
- McNamara, James G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. 1,620,978; Mar. 15.
- McNamara, James G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 1,620,979; Mar. 15.
- McNamara, James G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing machine. 1,630,023; May 24.
- McNamara, James G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 1,651,095; Nov. 29.
- McNamara, Patrick B. (See Blanding, Joseph E., assignor).
- McNatt, Homer B., Englewood, Mo., assignor to himself as trustee. Tire-pressure tester. 1,618,211; Feb. 22.
- McNaught, Norris F. (See Bishop, S. H. and McNaught).
- McNaughton, Allan F., Toronto, Ontario, Canada. Rotary washing machine. 1,642,123; Sept. 13.
- McNaughton, Hart H., Maryville, Tenn. Collapsible tube. 1,615,127; Jan. 18.
- McNeely, Earl E., Waldron, Ind., assignor of one-fourth to E. W. Crosby, Greensburg, Ind. Corn husker. 1,636,880; July 19.
- McNeely, Fred W., Evansville, Ind. Grease gun. 1,625,819; Apr. 26.
- McNeely, John K., St. Louis, Mo. Producing anamorphous images. 1,641,184; Sept. 6.
- McNeil Boiler Company, The. (See Riddle, Carlton, assignor).
- McNeil, John W. and J. Michelsen, Wistaria, British Columbia, Canada. Calk attachment for boots. 1,631,877; June 7.
- McNelly, Thomas M. (See Bennett, H. T., McIntosh, and McNelly).
- McNerney, Bernard L., Minneapolis, Minn. Wrench. 1,625,559; Apr. 19.
- McNerney, John H., et al., administrators. (See Owens, Michael J.).
- McNichol, Theodore W. (See Corville, John B., assignor).
- McNish, Alexander, assignor of one-half to The Automatic Bottle Machine Corporation, Limited, London, England. Machine for making bottles or other articles of glass. 1,626,548; Apr. 26.
- McNulty, Patrick, Norwood, Mass. Water fire box. 1,617,817; Feb. 15.
- McNulty, Peter C., Milwaukee, Wis. Method and apparatus for embossing flexible material. 1,630,754; May 31.
- McNutt, William H., New York, N. Y. Torch. 1,638,498; Aug. 9.
- McOrin, John, Glendale, Calif. Shoulder-strap retainer. 1,648,776; Nov. 8.
- McPartlin, Stephen E., Chicago, Ill. Latch mechanism. 1,630,093; May 24.
- McPhail, Ewen, Missoula, Mont. Luggage carrier. 1,620,218; Mar. 8.

- McPhee, William F., Chicago, Ill. Boiler construction. 1,621,374; Mar. 15.
- McPhee, William F., Chicago, Ill. Boiler for hot-water heating plants. 1,651,615; Dec. 6.
- McPherson, Charles, assignor to Friction Power Corporation Limited, Montreal, Quebec, Canada. Power-transmitting device. 1,639,143; Aug. 10.
- McPherson, Charles, assignor, by mesne assignments, to Friction Power Corporation Limited, Montreal, Quebec, Canada. Friction driving mechanism. 1,647,412; Nov. 1.
- McPherson, Charles, assignor, by mesne assignments, to Friction Power Corporation Limited, Montreal, Quebec, Canada. Power transmission. 1,647,413; Nov. 1.
- McPherson, Charles, assignor, by mesne assignments, to Friction Power Corporation Limited, Montreal, Quebec, Canada. Power-transmitting device. 1,647,457; Nov. 1.
- McPherson, Charles, assignor, by mesne assignments, to Friction Power Corporation Limited, Montreal, Quebec, Canada. Power-transmitting device. 1,649,611; Nov. 15.
- McPherson, Donald, and F. B. Schultz, New York, assignors to Keyrol Cement Block Co., Inc., Corona, N. Y. Mold and molding faced concrete blocks. 1,680,093; July 5.
- McPherson, Harry L., Memphis, Tenn., assignor to A. Schuler & Son, Incorporated, Brooklyn, N. Y. Combination dust cap and tire gauge. 1,626,294; Apr. 26.
- McPherson, James O. (See Pearce, L. M., and McPherson.)
- McQuaid, Howard S., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Production of barium silicofluoride. 1,648,143; Nov. 8.
- McQuade, Arthur W., Chicago, Ill. Dishwashing machine. 1,654,466; Dec. 27.
- McQuarrie, Thomas, et al. (See Hansen, John, assignor.)
- McQuinn, Thomas H., Preston, Melbourne, assignor of two-thirds to L. M. Sargood, Toorak, Victoria, Australia. Electric water heater. 1,624,843; Apr. 12.
- McQuiston, Frank L., Redondo, Calif. Water wheel. 1,645,996; Oct. 18.
- McQuown, William K., Brooklyn, N. Y. Steering wheel. 1,649,359; Nov. 15.
- McKee, Duncan, East Orange, N. J., assignor to Westinghouse Lamp Company. Getter and applying the same. 1,626,682; May 3.
- McLae, George H., Manchester, Ga., assignor to Draper Corporation, Hopedale, Mass. Filling attachment for nooms. 1,639,659; Aug. 23.
- McLain, William A., Brechin, Ontario, Canada. Liquid-level indicator. 1,626,889; May 3.
- McLaren, Edward W., Schenectady, N. Y., assignor to General Electric Company. Cable-retaining shroud. 1,646,207; Oct. 18.
- McSherry, James, assignor to M. McSherry, St. Paul, Minn. Life preserver. 1,618,347; Feb. 22.
- McSherry, Mary. (See McSherry, James, assignor.)
- McSwaney, Joseph. (See Gilleland, Edgar B., assignor.)
- McTarnahan, John T., assignor to John T. McTarnahan, Inc., Boston, Mass. Burner. 1,618,765; Feb. 22.
- McTarnahan, John T., Inc. (See McTarnahan, John T., assignor.)
- McTavish, Robert, Chicago, Ill., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Rendering fat-bearing animal material. 1,654,506; Dec. 27.
- McTear, Arthur D., Trenton Junction, N. J. Window ventilator for automobiles and the like. 1,628,053; May 10.
- McTye, George H., Daingerfield, Tex. Fertilizer distributor. 1,627,798; May 10.
- McVicker, Emery M., Milwaukee, Wis. Conveyor. 1,620,268; Mar. 8.
- McVicker, Emery M., Milwaukee, Wis. Rail anticreep. 1,635,377; July 12.
- McVicker, James. (See Lorimer, G. W., and McVicker.)
- McVoy, Vincent P., Mobile, Ala. Combined cylinder cock and relief valve. 1,623,451; Apr. 5.
- McWain, Kate A., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for testing the viscosity of matter. 1,614,565; Jan. 18.
- McWane, Arthur T., Birmingham, Ala. Window guard. 1,634,841; July 5.
- McWane, Arthur T., Birmingham, Ala. Window guard. 1,634,842; July 5.
- McWane, Arthur T., Birmingham, Ala. Window guard. 1,634,843; July 5.
- McWane, James R., Birmingham, Ala. Pipe joint. 1,648,404; Nov. 8.
- McWane, Robert C., Ridgewood, N. J. Wall construction. 1,649,481; Nov. 15.
- McWhirter, John S. (See Farmer, C. C., and McWhirter.)
- McWhirter, Robert B., Marietta, Ohio. Exerciser swing. 1,645,158; Oct. 18.
- McWhorter, Ernest H. (See Bennett, A. A., and McWhorter.)
- McWilliams, Douglas, Dunedin Ottago, New Zealand. Signal device for motor cars and the like. 1,635,630; July 12.
- McWilliams, Arthur C., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Metering panel board. 1,643,784; Sept. 27.
- McWilliams, James A., Chicago, Ill. Foldable square. 1,616,457; Feb. 8.
- McWilliams, Joseph E., Perryton, Tex. Pliers. 1,647,878; Nov. 1.
- McWilliams, Joseph L., and J. Marosky, San Francisco, Calif. Floor-laying device. 1,623,832; Apr. 6.
- McWilliams, Joseph L., and J. Marosky, San Francisco, Calif. Floor-laying device. 1,652,950; Dec. 13.
- Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Thermostatic gas-valve regulator. 1,640,245; Aug. 23.
- Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Leg attachment for stoves. 1,648,747; Nov. 8.
- Meacham, Frederick C., Garden City, N. Y. Device for indicating time. 1,620,980; Mar. 15.
- Meacham, Wesley W., Monroe, Ark. Harvesting machine. 1,614,537; Oct. 4.
- Mead, Edward C., Elkhart, Ind. Combined fishing-tackle box and line winder and drier. 1,635,378; July 12.
- Mead, Edward D., Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,632,439; Dec. 13.
- Mead, George J., Milwaukee, Wis., assignor, by mesne assignments, to The Risk Rubber Company, Chicopee Falls, Mass. Fire extinguisher. 1,638,050; Aug. 9.
- Mead, George J., Chicago, Ill., assignor to The Risk Rubber Company, Chicopee Falls, Mass. Apparatus for applying dust. 1,642,551; Sept. 13.
- Mead, Homer A. (See Lynch, E. E., and Mead.)
- Mead, John C., Palmyra, Mo. Hair-curling iron. 1,650,952; Nov. 29.
- Mead Pump & Paper Company, The. (See Carruth, H. P., and Ludwig, assignors.)
- Mead Pump & Paper Company, The. (See Heisel, Ralph E., assignor.)
- Mead Pump & Paper Company, The. (See Ludwig, William C., assignor.)
- Mead, Richard R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, Phila., Pa. Mold for slug-casting machines. 1,626,854; May 8.
- Mead, William A., Los Angeles, Calif. Rat guard. 1,641,345; Sept. 6.
- Meade, John W., Helena, Mont. Chain fastener. 1,618,941; Feb. 22.
- Meade, Joseph E. (See Mummert, H. C., and Meade.)
- Meade, Leslie E., Detroit, Mich. Electric game. 1,648,956; Nov. 15.
- Meade, Peter K., United States Army, Washington, D. C. Horseshoe. 1,629,083; May 17.
- Meade, Joseph W., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automatic electric welding machine. 1,620,274; Mar. 8.
- Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electric switch. 1,635,581; July 12.
- Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electric welding machine. 1,635,582; July 12.
- Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Electric welding apparatus. 1,635,583; July 12.
- Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electric welding machine. 1,645,710; Oct. 18.
- Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Jig for electric welding sheet-metal panels. 1,645,711; Oct. 18.
- Meadowcroft, William Blackman, England. Bottle-filling machine. 1,637,582; Aug. 2.
- Meagher, George A. (See Hope, Frederick T., assignor.)
- Meagle, Elmer H., et al. (See Joseph, Sheldon, assignor.)
- Meaker, John W., Chicago, Ill., and W. P. Gleason, Gary, Ind. Fence post. 1,639,195; Aug. 16.
- Meaker, John W., Chicago, Ill. Spade construction for fence posts. 1,649,174; Nov. 15.
- Mealy, Solomon R. (See Polen, Clarence R., assignor.)
- Meaney, Thomas. (See Huck, T., and Meaney.)
- Mears-Kane-Ofeldt, Inc. (See Ofeldt, Ernest G., assignor.)
- Mears, Lucien, McKittrick, Calif. Universal angle pattern. 1,647,707; Nov. 1.
- Measuregraph Company, The. (See Hosch, Greene C., assignor.)
- Measuregraph Company, The. (See Turner, Douglas, assignor.)
- Measuregraph Company, The. (See Wheeler, John L., assignor.)
- Measuregraph Company. (See Wheeler, J. L., Reed, and Hosch, assignors.)
- Measurement, Limited. (See Holden, Frank, assignor.)
- Meccano Company. (See Hornby, Frank, assignor.)
- Mechanical Appliance Company. (See Winton, John R., assignor.)
- Mechanical Appliances Co., The. (See Brown, Ray W., assignor.)
- Mechanical Engineering Corporation. (See Sheffield, W. K., and Horton, assignors.)
- Mechanical Rubber Company, The. (See Hubbard, Cecil R., assignor.)
- Mechanical Rubber Company, The. (See Kent, W. J., and Kahan, assignors.)
- Mechanical Rubber Company, The. (See Kent, William J., assignor.)
- Mechau, Robert, assignor to the Firm of Carl Zeiss, Jena, Germany. Galvanometer. 1,616,754; Feb. 8.

- Mechau, Robert, assignor to the Firm of Carl Zeiss, Jena, Germany. Receiver for heat signs. 1,639,411; Aug. 16.
 Mechau, Robert, assignor to the Firm of Carl Zeiss, Jena, Germany. Indicator for heat rays. 1,639,412; Aug. 16.
 Mechin, Ernest F., Washington, D. C. Draft rigging. 1,634,429; July 5.
 Meching, C. A. (See Masters, F. E., and Hussey.)
 Meching, Fidelis M., Wichita, Kans. Safety cap for oil wells. 1,632,661; June 14.
 Meehling, William W., Butler, Pa. Metal railroad tie. 1,640,846; Aug. 30.
 Medart, Fred, Manufacturing Company. (See Albach, Frank, assignor.)
 Medair, Lee A., Fairgrove, Mich. Sorting machine. 1,636,477; July 19.
 Medders, Thomas G., Lamesa, Tex. Cotton cleaner. 1,614,624; Jan. 18.
 Medearis, Columbus L., Shreveport, La. Gun barrel. 1,628,896; May 17.
 Medén, Eloy H., Short Hills, assignor to American Gas-accumulator Company, Elizabeth, N. J. Combined signaling and advertising device. 1,622,730; Mar. 29.
 Meder, Arthur, Carlstadt, N. J., assignor to Norma-Hoffmann Bearings Corporation, New York, N. Y. Textile spindle. 1,630,712; May 31.
 Meder, Arthur, Carlstadt, N. J., assignor to Norma-Hoffmann Bearings Corporation, New York, N. Y. Textile spindle. 1,632,798; June 21.
 Meder, Robert E., Milwaukee, Wis. Photographic enlarging apparatus. 1,641,346; Sept. 6.
 Mederer, Max, Bloemfontein, South Africa. Sanatorium. 1,645,611; Oct. 18.
 Medholdt, Louis T., assignor to Mattison Machine Works, Rockford, Ill. High-speed safety cutter head. 1,626,247; Apr. 26.
 Medick, Frank C., Columbus, Ohio. Photograph mount. Des. 71,881; Jan. 18.
 Medick, Frank C., Columbus, Ohio. Photograph mount. Des. 71,882; Jan. 18.
 Medley, C. R. (See Huston, Tom, assignor.)
 Medlin, John P., Great Falls, Mont. Explosive blow-out switch. 1,654,467; Dec. 27.
 Medlock, Jack, Grandfield, Okla. Bag rack. 1,642,619; Sept. 13.
 Medlock, John, Chicago, Ill. Automobile light. 1,646,828; Oct. 25.
 Medlock, Wade H., Providence, R. I. Stalk chopper. 1,647,458; Nov. 1.
 Medville, Albert B. (See Potter, A. T., and Medville.)
 Medynski, Fred V., Medford, Oreg. Tire flap. 1,621,021; Mar. 15.
 Mee, William J., and H. A. Tullis, Hollywood; said Mee assignor to C. C. Benedict, Los Angeles, Calif. Attachment for printing presses. 1,650,025; Nov. 22.
 Meeg-Larsen, Rolf, Damsgaard, Bergen, and A. Bu, Kinsarvik, Hardanger, Norway. Mold for casting concrete poles and masts in upright position. 1,651,776; Dec. 6.
 Meehan, Charles W., Pittsburgh, Pa. Lamp. 1,639,701; Aug. 29.
 Meehan, George F., Far Rockaway, and A. L. Kennedy, assignors, by mesne assignments, to Kel-Plastic Corporation, New York, N. Y. Vegetable sea-growth derivative and preparation thereof. 1,633,262; June 21.
 Meehan, Paul A., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Kiln car. 1,641,185; Sept. 6.
 Meehan, Paul A., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Kiln car. 1,641,186; Sept. 6.
 Meehan, Paul A., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Tunnel kiln. 1,646,208; Oct. 18.
 Meehan, Paul A., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Tunnel kiln. 1,646,254; Oct. 18.
 Meek, James W., Staines, England. Hair comb. 1,621,425; Mar. 15.
 Meek, John B., and C. F. Hayse, Portland, Oreg. Miter box for power-driven saws. 1,645,589; Oct. 25.
 Meek, Marcellus W., Arcadia, Calif. Animal-tattoo-marking instrument. 1,630,303; May 31.
 Meek, Marcellus W., Arcadia, Calif. Fur-pelt stretcher. 1,635,557; July 15.
 Meek, Sterner S., Philadelphia, Pa. Annealing copper articles. 1,617,850; Feb. 15.
 Meeker, Charles H., Riverside, Calif. Reinforced moving-picture film. 1,636,525; July 19.
 Meeker, John A., and E. J. Roach, Potsdam, N. Y.; said Meeker assignor to said Roach. Receptacle-shaking machine. 1,619,526; Mar. 1.
 Meer, Alexander, Spokane, Wash. Lever lock. 1,628,731; May 17.
 Meese, James. (See Clark, J. Smith, and Meese.)
 Merathling, Jesse L., Miami, Fla. Emergency boiler-tube plug. 1,613,523; Jan. 4.
 Merzenhofer, Charles W., Indianapolis, Ind. Vessel emptying or filling appliance. 1,643,025; Sept. 20.
 Merie, Jesse J., and F. V. Pepper, Los Angeles, Calif. Lock. 1,636,381; July 19.
 Merzlin, George W., Allendale, N. J. Accelerator cushion. 1,630,199; May 24.
 Megown, Charles C., Los Angeles, Calif. Sun visor for motor vehicles. 1,640,088; Aug. 23.
 Mehlin, Charles, Fort Lee, N. J. Piano construction. 1,623,172; May 10.
 Melline, Emile, Hollywood, assignor to Evans Brake & Supply Co., Los Angeles, Calif. Tractor brake. 1,638,257; Aug. 9.
 Meier, Alfred W. (See Modra, W., and Meier.)
 Meier, Axel W., Long Beach, Calif., assignor of one-half to G. P. Carson, Los Angeles, Calif. Self-adjustable universal-joint casing. 1,643,723; Sept. 27.
 Meier, Charles J., Louisville, Ky. Soldering flux. 1,642,884; Sept. 20.
 Meier, Milton, Newark, N. J., assignor to Meyer & Gross. Filter ring. Des. 72,907; June 21.
 Meier, Samuel A., Chicago, Ill., assignor to Signode System, Inc. Seal. 1,647,241; Nov. 1.
 Meier, William J., Lansing, Mich. Chimney. 1,627,105; May 3.
 Meiers, Paul D., Tacoma, Wash. Attachable flexible upper eyelid for dolls. 1,648,418; Nov. 8.
 Meighan, Charles M., Tarboro, N. C. Flush tank. 1,613,670; Jan. 11.
 Meigs, Joseph V., assignor, by mesne assignments, to C. Ellis, Montclair, N. J. Manufacture of products from aromatic amines and sulphur chloride. 1,631,280; May 3.
 Melke, George S., and H. D. Mackaye, Detroit, Mich. Oil burner. 1,624,350; Apr. 12.
 Melkle, John, assignor to Vaporator Mfg. Co., Chicago, Ill. Radiator cover or similar article. Des. 72,105; Mar. 1.
 Melkle, John, assignor to Vaporator Mfg. Co., Chicago, Ill. Joint for knockdown structures. 1,616,915; Feb. 8.
 Meller, Ludolf, and H. Scholler, Munich, Germany. The production of glucose from material containing cellulose. 1,644,101; Sept. 6.
 Mellink, Charles F., Toledo, Ohio. Locking device for safes. 1,619,676; Mar. 1.
 Mellink, Charles F., Toledo, Ohio. Lock. 1,620,775; Mar. 15.
 Melman, Thomas G., assignor to The Holtz-Cabot Electric Co., Chicago, Ill. Telephone tone machine. 1,642,377; Sept. 13.
 Meisinger, Rudolf, and M. Mugdan, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Manufacturing acetic anhydride. 1,636,701; July 26.
 Meisekothén, Edwin E., assignor to French Battery Company, Madison, Wis. Dry battery. 1,613,327; Jan. 4.
 Meisekothén, Edwin E., assignor to French Battery Company, Madison, Wis. Dry-battery construction. 1,636,478; July 19.
 Meisekothén, Edwin E., assignor to French Battery Company, Madison, Wis. Dry-battery construction. 1,641,685; Sept. 6.
 Meisel, Benjamin W. (See Kendall, A. B., and Meisel.)
 Meissner, Alexander, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Valve generator arrangement. 1,621,992; Mar. 22.
 Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Circuit arrangement for multiplex communication. 1,626,856; May 3.
 Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Receiving arrangements for wireless telegraphy. 1,628,676; May 17.
 Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for suppressing idle current in radiotransmitters. 1,630,349; May 31.
 Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for converting acoustic energy into electrical energy. 1,633,186; June 21.
 Meissner, Herman A., St. Petersburg, Fla., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade lashing. 1,618,292; Feb. 22.
 Meister, Albert R., Sacramento, Calif. Flexible four-wheeled driving truck. 1,634,430; July 5.
 Meister, E. G. K., et al. (See Stranzky, Emil, assignor.)
 Melchburg, Earl F. (See Campbell, H. E., and Melchburg.)
 Melamid, Melach, Freiburg, Germany. Condensation product and making same. 1,648,858; Nov. 8.
 Melang, Ole A., Seattle, Wash. Stave-finishing machine. 1,645,015; Oct. 11.
 Melanowski, Leo, assignor to The Union Trust Company, operating trustee, Cleveland, Ohio. Power-transmitting mechanism. 1,613,568; Jan. 4.
 Melanowski, Leo, Cleveland, Ohio, assignor to E. Durell, Frankfurt, N. Y. Power-transmitting mechanism. 1,615,397; Jan. 25.
 Melanowski, Leo, assignor to The Union Trust Company, operating trustee, Cleveland, Ohio. Power-transmitting mechanism. 1,617,265; Feb. 8.
 Melanowski, Leo, assignor to The Union Trust Company, Operating Trustee, Cleveland, Ohio. Motor vehicle. 1,647,974; Nov. 1.
 Melberg, Ernest, Norway, Iowa. Fastener. 1,636,824; July 26.
 Melby, Charles J., Everett, Wash. Shingle-planing machine. 1,634,789; July 5.

- Melcher, Irving W., Portland, assignor of one-half to T. C. Ware, South Portland, Me. Combined switch-box and vacuum-line-seal mechanism for vacuum cleaning systems. 1,618,667; Feb. 22.
- Melcher, Lee W., West De Pere, Wis. Merry-go-round. 1,627,570; May 10.
- Melcher, Lee W., West De Pere, Wis. Controlling mechanism for variable-speed transmissions. 1,629,804; May 24.
- Melcher, Lee W., West De Pere, Wis. Transmission gear-ling. 1,641,187; Sept. 6.
- Melco Engineering Corporation. (See Meyers, Sidney E., assignor.)
- Meldrum, Alexander, Syracuse, N. Y. Cast-metal vehicle wheel. 1,635,490; July 12.
- Mell, John M., East Haven, Conn. Single device. 1,624,963; Apr. 19.
- Meltoit, Monroe L., St. Louis, Mo. Vending machine. 1,634,911; July 5.
- Melnhich, Charles L., Carbondale, Pa. Automatic switch. 1,619,577; Mar. 8.
- Melin, E. Luther. (See Gilliland, Orra L., assignor.)
- Melin, George C., Galesburg, Ill. Ballast digging and cleaning machine. 1,625,864; Apr. 26.
- Meling, Gustave, Flushing, N. Y. Amusement device. 1,620,375; Mar. 8.
- Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Variegated articles of rubber or the like and making the same. 1,619,359; Mar. 1.
- Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Strip-vulcanizing apparatus and method. 1,626,419; Apr. 23.
- Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making patterned rubber sheeting. 1,634,955; July 5.
- Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making decorative roller sheeting. 1,635,684; July 12.
- Mellauder, Bert A. (See Quist, A. J., and Mellauder.)
- Meller, Reginald B., Alameda, Calif. Carton. 1,614,843; Jan. 18.
- Meller, Reginald B., Alameda, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Display stand. 1,648,654; Nov. 8.
- Melley, John J. (See Chapman, J. W., and Melley.)
- Mellin, Gustaf A. E., Los Angeles, Calif. Certificate holder. 1,617,718; Feb. 15.
- Melling, Herman W., Jackson, Mich. Milling machine. 1,623,801; Apr. 5.
- Melner, Herman W., Jackson, Mich. Lathe. 1,634,550; July 5.
- Mellins Food Company of North America. (See Bunker, Carl H., assignor.)
- Mellish, Ada R. (See Rockwood, Walter W., assignor.)
- Mellish, Dennis, assignor of one-half to A. Gale, Philadelphia, Pa. Furnace-grate-bar construction. 1,646,700; Oct. 25.
- Mellor, Robert W., New York, N. Y. Mason's scale. 1,653,016; Dec. 20.
- Melniker, Abraham, and S. Calmanson, Brooklyn, N. Y. Collapsible baby carriage. 1,631,498; June 7.
- Melniker, Abraham, Brooklyn, N. Y. Holder. 1,653,652; Dec. 27.
- Meloy, John M. (See Galloway, R. M., Bockhoff, and Meloy.)
- Melson, George A. (See Frontz, Robert O., assignor.)
- Melton, Frank J., Clayton, N. Mex. Gravity dump body for trucks or wagons. 1,631,751; June 7.
- Melton, Pink M., Memphis, Tex. Cotton harvester and cleaner. 1,638,867; Aug. 16.
- Meltzer, Abe, New York, N. Y. Hairbrush with comb. 1,637,083; July 26.
- Meltzer, Hyman, Brooklyn, N. Y. Method and apparatus for manufacturing frame parts. 1,614,750; Jan. 18.
- Melum, Helmer, River Forest, and G. P. Berger, Oak Park, Ill. Filling machine. 1,630,960; May 31.
- Melville, Alexander, and D. McDougall, Glasgow, Scotland. Machinery for bending metallic rods, wires, or the like. 1,619,953; Mar. 8.
- Melville, Clyde E., and A. C. Peterson, Sacramento, Calif.; said Peterson assignor to said Melville. Oil dispenser. 1,637,228; July 26.
- Melvin, Frank E., et al. (See Edgar, G. B., and Melvin, assignors.)
- Melvin, Lailton R. (See Edgar, G. B., and Melvin.)
- Melvin, Paul A., Chicago, Ill. Clamp for concrete forms. 1,648,460; Feb. 8.
- Melvin, Robert A., et al. (See Edgar, G. B., and Melvin, assignors.)
- Melzer, Otto. (See Wahl, J., and Melzer.)
- Memmer, Arthur H., Sacramento, Calif. Drawing file holder. 1,652,370; Dec. 13.
- Ménard, Gédéon, Varennes, Quebec, Canada. Game. 1,627,269; Feb. 9.
- Menchen, Joseph, Summit, N. J. Portable fastening device. 1,627,709; May 10.
- Mencher, Maurice, New York, N. Y. Safety razor. 1,648,054; Nov. 8.
- Mendel-Drucker Company, The. (See Klein, Stanley, assignor.)
- Mendel, William, Beverly, assignor to S. A. Neidlich, Edgewater Park, N. J. Manufacture of filaments and films from viscose. 1,614,481; Jan. 11.
- Mendel, William, Beverly, assignor to S. A. Neidlich, Edgewater Park, N. J. Dyeing filaments and films formed from viscose. 1,633,220; June 21.
- Mendel, William, Beverly, assignor to S. A. Neidlich, Edgewater Park, N. J. Dyeing filaments and films formed from viscose. 1,633,221; June 21.
- Mendel, William, Beverly, assignor to S. A. Neidlich, Edgewater Park, N. J. Manufacture of artificial silk from viscose. 1,646,625; Oct. 25.
- Mendel, Louis R., assignor to The Hotstream Heater Company, Cleveland, Ohio. Water-heater unit. 1,639,002; Aug. 16.
- Mendes, H., and Company. (See Fox, Julius A., assignor.)
- Méndez, Ciro F., Mexico City, Mexico, assignor to I. S. Cooper, Los Angeles, Calif. Spring wheel. 1,625,270; Apr. 19.
- Méndez, Ciro F., Mexico City, Mexico, assignor to I. S. Cooper, Los Angeles, Calif. Spring wheel. 1,625,271; Apr. 19.
- Mendez, Guadalupe, Dawson, N. Mex. Radio tube socket. 1,637,044; July 26.
- Mendiolagaitia, José, New York, N. Y. Necktie hanger. 1,654,341; Dec. 27.
- Mendiabail, Alberto, Buenos Aires, Argentina. Automatic valve and float for drinking troughs and the like. 1,619,431; Mar. 1.
- Mendonso, John, New Bedford, Mass. Safety device. 1,646,871; Oct. 25.
- Mendoza, Agustín, Waynoka, Okla. Ice-chopping device. 1,652,788; Dec. 13.
- Mendoza, Mordecai. (See Perkin, W. H., Fyfe, and Mendoza.)
- Mendoza, Salvador, Los Angeles, Calif. Combined street-curing structure and advertising means. 1,648,459; Nov. 8.
- Menefee, Elmer, assignor of one-half to W. H. Goodlive, Zanesville, Ohio. Closure connecting and locking arrangement for milk cans. 1,617,860; Feb. 15.
- Menefee Foundry Co., The. (See Menefee, James W., assignor.)
- Menefee, Gus, Atlanta, Ga. Boat retaining and releasing device. 1,625,736; Apr. 19.
- Menefee, James W., assignor to The Menefee Foundry Co., Fort Wayne, Ind. Mangle. 1,652,315; Dec. 13.
- Menge, Sidney L., New Orleans, La. Rotary pump. 1,630,130; May 24.
- Menges, Henry, Richmond Hill, N. Y. Fastener for fabrics. 1,634,622; July 5.
- Menkin, Max, New York, N. Y. Button-assembling dies. 1,648,495; Nov. 8.
- Menne, William, Union City, N. J. Preserver jar. 1,629,893; May 24.
- Menpelly, Sam, Lincoln Park, Mich. Window jack. 1,630,626; May 31.
- Menningen, Adolph C., West Allis, assignor to Koehring Company, Milwaukee, Wis. Multiplane shoe. 1,614,531; Jan. 18.
- Menningen, Adolph C., assignor to Koehring Company, Milwaukee, Wis. Automatic power-discharge chute. 1,648,144; Nov. 8.
- Menschel, Reinhold, Berlin, Germany. Swimming and running shoe. 1,627,521; May 3.
- Mensforth, Holberry, Bowdon, and F. A. Cowell, Sale, England, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Apparatus for determining the accuracy of gears and hobbs. 1,614,448; Jan. 11.
- Mensforth, Holberry, Bowdon, and F. A. Cowell, Sale, England, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Grinding apparatus for hobbs. 1,616,056; Feb. 1.
- Mensing, Karl, assignor to the Firm: Quarzlampen-Gesellschaft m. b. H., Hanau, Germany. Lamp support. 1,633,538; June 21.
- Mentzer, Claude E., assignor of one-half to A. R. Corey, Des Moines, Iowa. Automatic race-track timing device. 1,626,620; May 11.
- Menzel, Martin, Ruhland, Germany. Molding machine. 1,634,753; July 5.
- Menzemer, Harry E., and M. Cambre, Oakland, Calif. Mangle. 1,621,735; Mar. 22.
- Menzies, Alan W. C., Princeton, N. J. Device for treating cigars, cigarettes, and the like. 1,648,655; Nov. 8.
- Menzies, John, Fresno, Calif. Automobile sunshade attachment. 1,639,413; Aug. 16.
- Menzies, William B., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. 1,614,141; Jan. 11.
- Menzies, William B., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Battery-charging system. 1,624,420; Apr. 12.
- Menstead, George S., London, England. Rotary Pump. 1,626,355; May 8.
- Mercantile Trust Company of California, executor. (See Myers, Mark C., assignor.)
- Mercantile Trust Company of Canada, Limited, In Trust. (See McKay, Francis, assignor.)
- Mercator. (See Hamilton, G. M., and Webb, assignors.)
- Mercer, Alvis, et al. (See Smith, Lawrence F., assignor.)
- Mercer, Harry R., and McDonald, Ohio. Rolling-mill guide. 1,620,566; Mar. 8.
- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Steam-generating apparatus. 1,626,950; May 8.

- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Oil-burning device. 1,631,688; June 7.
- Mercer, Henry S. (See Waters, Victor J., assignor.)
- Mercer, Richard, Harrow, and F. Tench, West Norwood, London, England, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Manual to automatic system. 1,631,401; Dec. 6.
- Mercer, William D., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Spare-tire carrier for vehicle. 1,650,765; Nov. 29.
- Merchen, Glen G., Spokane, Wash. Feed regulator. 1,621,022; Mar. 16.
- Mercier, Charles H., Pittsfield, Mass. Portable clothes-rack. 1,624,796; Apr. 12.
- Mercier, Henri, Paris, France. Pneumatic suspension fed by compressed air. 1,648,908; Nov. 15.
- Mercile, Edward E., Brunswick, Md. Feed-water heater. 1,652,037; Dec. 16.
- Mercro Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)
- Mercola, Michael, assignor, by mesne assignments, to Ready Apron Company, Chicago, Ill. Apron. 1,643,311; Sept. 27.
- Mercury Manufacturing Company. (See Childress, William C., assignor.)
- Mercury Manufacturing Company. (See Odiore, William H., assignor.)
- Mercury Mills, Limited. (See Clarke, Edgar W., assignor.)
- Merdian, Fred, Vancouver, Wash. Tool for inserting and removing bearing sleeves. 1,619,625; Mar. 1.
- Merdian, Fred, Vancouver, Wash. Tool for removing and inserting bearing sleeves and bearings. 1,641,895; Sept. 6.
- Meredith, Grover. (See Meredith, James O. and G.)
- Meredith, Harry R., et al. (See Murphy, Robert N., assignor.)
- Meredith, James O. and G., Marion, Ind. Anchoring device. 1,628,550; May 10.
- Meredith, Robert M. (See Blackley, W. R., and Meredith.)
- Meredith, Sherman C., Burlingame, and N. N. T. Nyborg, Modesto, Calif. Manufacturing lactose. 1,626,857; May 3.
- Merensky, Felix, Leavenworth, Kans. Ruling machine. 1,634,580; July 5.
- Merensky, Felix, Leavenworth, Kans., assignor of fifty per cent to G. Merensky, Detroit, Mich. Case for cigarette papers. 1,637,229; July 26.
- Merensky, George. (See Merensky, Felix, assignor.)
- Mergenthaler Linotype Company. (See Ackerman, William, assignor.)
- Mergenthaler Linotype Company. (See Albrecht, Christian A., assignor.)
- Mergenthaler Linotype Company. (See Beadle, George W., assignor.)
- Mergenthaler Linotype Company. (See Chalfonte, Albert L., assignor.)
- Mergenthaler Linotype Company. (See Hochuli, Henry R., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
- Mergenthaler Linotype Company. (See Kohn, Samuel, assignor.)
- Mergenthaler Linotype Company. (See McNamara, James G., assignor.)
- Mergenthaler Linotype Company. (See Mead, Richard R., assignor.)
- Mergenthaler Linotype Company. (See Muehlisen, Carl, assignor.)
- Mergenthaler Linotype Company. (See Remas, Isidore T., assignor.)
- Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
- Mergenthaler Linotype Company. (See Rousseau, Joseph L., assignor.)
- Mergott, J. E. Co. (See Hirling, William C., assignor.)
- Mergott, J. E. Co. (See Hirling, W. C., and Walter, assignors.)
- Meriam Company. (See Price, H. W., and Meriam, assignors.)
- Meriam, Joseph B. (See Price, H. W., and Meriam.)
- Merlan, Frederic, assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Cleaning the bottoms of crucibles or clay pots. 1,614,928; Jan. 18.
- Merica, Paul D., Westfield, and J. S. Vanick, Elizabeth, N. J., assignors to The International Nickel Company, New York, N. Y. Alloy. 1,626,248; Apr. 26.
- Merit Underwear Company. (See Williams, Edward T., assignor.)
- Merle, André N., assignor to Pathé Cinéma Anciens Etablissements Pathé Frères, Paris, France. Attaching motion-picture films to winding cores. 1,628,416; May 10.
- Merle, José, Buenos Aires, Argentina. Centrifugal casting apparatus. 1,651,288; Nov. 29.
- Merlis, Ira, assignor, to Kelvin Engineering Co., Inc., New York, N. Y. Evaporator. 1,622,918; Mar. 29.
- Merlis, Ira, assignor to Kelvin Engineering Co., Inc., New York, N. Y. Evaporator. 1,638,697; Aug. 9.
- Merlonetti, Giulio, West Chester, Pa. Macaroni machine. 1,638,000; Aug. 2.
- Merlo, Ralph M., and R. J. Mullin, assignors to Frank E. Best, Inc., Seattle, Wash. Multiple-spindle automatic machine. 1,650,374; Nov. 22.
- Merola, Gastano, et al. (See Luther, John A., assignor.)
- Merrill, William S., Company, The. (See Mills, Clarence A., assignor.)
- Merrill, Henry F., West Orange, N. J., assignor to General Chemical Company, New York, N. Y. Sulphur burner. 1,629,352; May 17.
- Merrick, Eldridge G., Schenectady, N. Y., assignor to General Electric Company. Grounding arrangement. 1,648,694; Nov. 8.
- Merrick, Frank W., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Leather-edge-finishing machine. 1,621,515; Mar. 22.
- Merrick, Herbert L., Passaic, N. J. Weighing mechanism. 1,616,503; Feb. 8.
- Merrick, Herbert L., Passaic, N. J. Material-feeding means. 1,641,445; Sept. 6.
- Merrick, Herbert L., Passaic, N. J. Weighing mechanism. 1,652,178; Dec. 13.
- Merrick, Leslie E. (See Christiansen, H. A., and Merrick.)
- Merrick Scale Mfg. Company. (See Hebden, Frank, assignor.)
- Merrill, Ayres P., Natchez, Miss. Gate. 1,630,200; May 24.
- Merrill Brothers. (See Merrill, Whitney, assignor.)
- Merrill, Charles F., assignor to Draper Corporation, Hopedale, Mass. Spinning ring and traveler. 1,646,063; Oct. 18.
- Merrill Company, The. (See Mills, L. D., and Crowe, assignors.)
- Merrill, Frank W., Fort Wayne, Ind., assignor to General Electric Company. Synchronous induction motor. 1,618,771; Feb. 22.
- Merrill, Frank W., Fort Wayne, Ind., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric motor. 1,631,977; June 14.
- Merrill, George F., Ware, Mass. Repacking valves. 1,637,026; July 26.
- Merrill, John R., Paris, France. Pocket outfit for the means of feeding. 1,642,820; Sept. 13.
- Merrill, Joseph M., Montclair, N. J. Metal vase or receptacle. 1,616,057; Feb. 1.
- Merrill, Patterson D., Chicago, Ill. Shortening mixer. 1,615,308; Jan. 25.
- Merrill, Patterson D., Chicago, Ill. Golf-ball tee. 1,615,309; Jan. 25.
- Merrill, Philip P., Evanston, assignor to Ludlow Typograph Company, Chicago, Ill. Printing art. 1,641,772; Sept. 6.
- Merrill, Philip P., Evanston, assignor to Ludlow Typograph Company, Chicago, Ill. Printing member. 1,641,539; Nov. 15.
- Merrill, Riley E., Austin, Tex. Floor-polishing machine. 1,638,591; Aug. 9.
- Merrill-Soule Company. (See Fleming, Raphael S., assignor.)
- Merrill-Soule Company. (See Hawley, William G., assignor.)
- Merrill, Warren C., Alameda, Calif. Electric heating element. 1,643,673; Sept. 27.
- Merrill, Whitney, Brooklyn, assignor to Merrill Brothers, Maspeth, Long Island, N. Y. Drop hammer. 1,636,426; July 19.
- Merrill, Wilbur L., Schenectady, N. Y., assignor to General Electric Company. Segregated drive for paper machines and the like. 1,614,142; Jan. 11.
- Merrill, Wilbur L., Schenectady, N. Y., assignor to General Electric Company. Automatic load equalization. 1,631,752; June 7.
- Merrill, William F., assignor to The Lamson Company, Syracuse, N. Y. Detachable carrier head. 1,651,333; Nov. 29.
- Merriman, Thomas C., Tunstall, England, assignor to William S. Pitcairn Corporation, New York, N. Y. Plate or similar article. Des. 72,524; Apr. 26.
- Merritt, Arthur A., Edgewood, R. I., assignor to Willcox & Towsing Machine Co., New York, N. Y. Sewing machine. 1,628,173; May 10.
- Merritt Engineering & Sales Company. (See Merritt, Ericsson H., assignor.)
- Merritt, Ericsson H., assignor to Merritt Engineering & Sales Company, Inc., Lockport, N. Y. Lathe. 1,617,409; Feb. 15.
- Merritt, Harry S. (See Scofield, L. M., and Thomas, assignors.)
- Merrrow, Joseph M., assignor to The Merrrow Machine Company, Hartford, Conn. Sewing-machine guide. 1,646,860; Nov. 15.
- Merrrow Machine Company, The. (See Merrrow, Joseph M., assignor.)
- Merseburger, Gustave J., Woodside, N. Y. Two-faced doll. 1,618,772; Feb. 22.
- Merseles, Henry R., assignor to H. E. Merseles, Bronxville, N. Y. Washing machine. 1,620,671; Mar. 15.
- Merseles, Herbert B. (See Merseles, Henry R., assignor.)
- Mershon, Alfred V., Schenectady, N. Y., assignor to General Electric Company. Electric micrometer. 1,640,464; Aug. 30.
- Mershon, Ralph D., New York, N. Y. Manufacture of electrodes for electrolytic apparatus. 1,617,163; Feb. 8.
- Mershon, Ralph D., New York, N. Y. Excitation of electrolytic condensers. 1,620,119; Mar. 8.
- Merten, Arthur. (See Langenbeck, B., and Merten.)

- Merten, Arthur J., Colorado Springs, Colo. Wheel puller. 1,654,009; Dec. 27.
- Mertens, Paul, Newark, N. J. Collapsible corkscrew. 1,644,936; Oct. 11.
- Mertens, Robert, Olpe, assignor to Industriebedarf G. m. b. H., Weidenau-Sieg, Germany. Linen boiler. 1,622,260; Mar. 22.
- Mertzanton, André M., assignor to American Radiator Company, New York, N. Y. Parlor-heater casing. Des. 73,532; Sept. 27.
- Mertzanton, André M., assignor to American Radiator Company, New York, N. Y. Parlor-heater casing. Des. 73,533; Sept. 27.
- Mertzanton, André M., New York, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler jacket. 1,649,317; Nov. 15.
- Merwin, George S., San Francisco, Calif. Liquid saving, replenishing and air-bleeding mechanism for hydraulic brakes. 1,617,020; Feb. 8.
- Merz, George, Fergus Falls, Minn. Lubricating-oil can. 1,640,511; Aug. 30.
- Merz & McLellan. (See Bottomley, W. T., and Weeks, assignors.)
- Mesa, Joseph O., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Clutch. 1,638,542; Aug. 9.
- Meschenmoser, Julia J., executrix. (See Meschenmoser, William F.)
- Meschenmoser, William F., deceased, New Dorp; J. Meschenmoser, executrix; said William F. Meschenmoser assignor to Russell & Stoll Company, New York, N. Y. Casing for electrical fittings. 1,622,333; Mar. 29.
- Mescher, Henry J., Dayton, Ohio. Support for spot-lights. 1,649,175; Nov. 15.
- Meserole, Kiron D., assignor to The Hayes-Meserole Manufacturing Co., Inc., Milford, Conn. Hair curler. 1,622,660; Mar. 29.
- Meserole, Milton D., Milford, assignor to The Ansonia Novelty Company, Ansonia, Conn. Pencil sharpener. 1,635,974; July 12.
- Mesinger, Henry, New York, N. Y. Saddle. 1,648,055; Nov. 8.
- Mesker, Bernard T. (See Mesker, John and B. T.)
- Mesker Brothers Iron Company. (See Mesker, John and B. T., assignors.)
- Mesker, John and B. T., assignors to Mesker Brothers Iron Company, St. Louis, Mo. Window construction. 1,625,220; Apr. 19.
- Mess, Fred E., Farmington, Minn. Hayrack ladder. 1,616,461; Feb. 8.
- Messenger, Jack E., Des Moines, Iowa. Foot accelerator. 1,629,222; Apr. 19.
- Messenger, Otis G., Elizabeth, N. J., assignor to Standard Development Company. Treating hydrocarbons. 1,623,061; Apr. 5.
- Messer, Adolf, Frankfort-on-the-Main, Germany. Acetylene generator. 1,613,184; Jan. 4.
- Messer, Adolf, Frankfort-on-the-Main, Germany. Welding torch. 1,645,337; Oct. 11.
- Messer, Edward. (See Heckel, C. F., and Messer.)
- Messer, Edward, Pittsburgh, Pa. Candy-jar holder. 1,626,205; Apr. 26.
- Messer, Vladimir V., Douglaston, N. Y. Machine for cutting glass strips. 1,623,354; Apr. 5.
- Messere, Edward. (See Bessette, George O., assignor.)
- Messick, Charles, Brentwood, N. Y. Combined watch case and appendage. Des. 73,995; July 19.
- Messick, Charles, Brentwood, N. Y. Diaphragm and making same. 1,645,110; Oct. 11.
- Messier, Albert. (See Dennis, George, assignor.)
- Messinger, George E., New York, N. Y. Composition of matter. 1,632,555; June 14.
- Messinger, George M. (See Roat, Harry A., assignor.)
- Messinger, George M., Morganza, Pa., assignor of one-half to A. Roat, Manchester, N. Y. Minnow box. 1,630,131; May 24.
- Messinger, Harry C. (See Page, Louis A., assignor.)
- Messinger, Lester H., Jr. (See Bunnell, E. C., and Messinger.)
- Messler, Clinton S., assignor to The Green Fuel Economizer Company, Beacon, N. Y. Automatic safety system for vessels containing liquid under pressure. 1,627,399; May 3.
- Messner, Arthur C. (See Young, Frank G., Jr., assignor.)
- Messner, John, Calumet, Mich. Traction shoe. 1,629,519; May 24.
- Messtorff, Gerhard, Spandau, near Berlin, assignor to the Firm Dr. Erich F. Huth & Co., m. b. H., Berlin, Germany. Vacuum-tube radio-transmitter. 1,626,744; May 3.
- Mesterton, Kuno W., Rye, N. Y. Massage device. 1,650,528; Nov. 22.
- Meston, James R., and D. E. Erickson, Seattle, Wash., assignors to Todd Shipyard Corporation, New York, N. Y. Oil and water separator. 1,648,553; Nov. 8.
- Mesing, Charles A., and E. H. Duchatel, Paris, France. Superheating element. 1,637,651; Aug. 2.
- Metal Edge Filter Corporation. (See Herbert, Frederick D., assignor.)
- Metal Forms Corporation. (See Moss, R. M., and Pulla, assignors.)
- Metal Forms Corporation. (See Trester, Herauld A., assignor.)
- Metallbank und Metallurgische Gesellschaft Aktiengesellschaft. (See Oberlert, Rudolf, assignor.)
- Metallstanzwerk G. m. b. H. (See Krain, Georg, assignor.)
- Metal Novelty Corporation. (See De Cesare, Matteo, assignor.)
- Metal Office Furniture Company. (See Wege, Peter M., assignor.)
- Metal Package Corporation of New York. (See Anthony, Charles A., assignor.)
- Metal Products Company. (See Cocks, Harry J., assignor.)
- Metal Protection Corporation. (See Pierce, Harrie C., assignor.)
- Metal Specialties Manufacturing Company. (See Berg, John, assignor.)
- Metal Specialties Manufacturing Company. (See Hermann, Wolfgang, assignor.)
- Metals Protection Corporation. (See Humphries, Chad H., assignor.)
- Metals Recovery Company. (See Bragg, Gilbert A., assignor.)
- Metals Recovery Company. (See Sayre, Ralph E., assignor.)
- Metal Textile Corporation. (See Kingman, Russell B., assignor.)
- Metal & Thermit Corporation. (See Lubowsky, Simon J., assignor.)
- Metal & Thermit Corporation. (See Schultz, Hermann, assignor.)
- Metal & Thermit Corporation. (See Taurman, Alphonso, assignor.)
- Metal Ware Corporation. (See Koenig, Remus, assignor.)
- Metalweld Service Corporation. (See Oechsle, Joseph S., assignor.)
- Metcalfe, Edwin M., assignor of one-half to E. M. Sparks, Kansas City, Mo. Railway crossing. 1,613,236; Jan. 4.
- Metcalfe, Henry W., Honolulu, Hawaii. Window shade. 1,616,385; Feb. 1.
- Metcalfe, Herbert E., San Leandro, assignor to The Magnavox Company, Oakland, Calif. Vacuum tube. 1,636,858; May 3.
- Metcalfe, Herbert E., San Leandro, assignor to The Magnavox Company, Oakland, Calif. Vacuum tube. 1,636,239; July 19.
- Metcalfe, Herbert E., San Leandro, assignor to The Magnavox Company, Oakland, Calif. Vacuum tube. 1,646,626; Oct. 25.
- Metcalfe, Herbert E., assignor to The Magnavox Company, Oakland, Calif. Exhausting thermionic tubes and like devices. 1,651,065; Nov. 29.
- Metcalfe, Robert, and M. Jones, Hazard, Ky. Hopper door. 1,625,671; Apr. 19.
- Metcalfe, Roy, and F. Marshall, Sullivan, Ind. Pump and barrel attachment. 1,613,898; Jan. 11.
- Metcalfe, John, Sr., Vestaberg, Pa. Miner's battery-carrying device. 1,653,582; Dec. 20.
- Metcalfe, Virgil E., Delicias, Oriente, Cuba. Centrifugal separator. 1,630,201; May 24.
- Metcalfe, Virgil E., and F. Mallen, Jr., Delicias, Cuba. Flow meter. 1,648,490; Nov. 8.
- Meter Service Corporation. (See Alcázar, Alcides M., assignor.)
- Meter, Gilbert E., Indianapolis, Ind. Direction indicator. 1,646,159; Oct. 18.
- Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Gun barrel. 1,634,754; July 5.
- Methner, Johann, Gubrau, Germany. Cutting mechanism for mowers with partly-covering hood. 1,616,430; Feb. 1.
- Methot, John A., assignor to B. Josephs and J. H. Corash, Worcester, Mass. Small hand bag. Des. 72,178; Mar. 8.
- Methudy, Eugene R., St. Louis, Mo. Gas range. Des. 73,708; Oct. 25.
- Metropolitan-Columbia Mfg. Co. (See Hurd, John F., assignor.)
- Metropolitan-Columbia Mfg. Co. (See Knieriem, John, assignor.)
- Metropolitan Electric Mfg. Co., et al. (See Hartmann, Paul, assignor.)
- Metropolitan Lamp Co. Inc. (See Sheiner, Philip, assignor.)
- Metropolitan Sewing Machine Corporation. (See Wels, Joseph, assignor.)
- Metropolitan-Vickers Electrical Company. (See Hinton, Norman P., assignor.)
- Metropolitan-Vickers Electrical Company. (See Scanes, Arthur E. L., assignor.)
- Metropolitan-Vickers Electrical Company Limited. (See Robinson, Ernest Y., assignor.)
- Metters, Gordon J., Wayville, and K. W. Nolan, St. Peters, South Australia, Australia. Mincing machine. 1,618,900; Mar. 1.
- Mettetal, Raphael, Plymouth, Mich. Greenhouse or conservatory bench. 1,621,850; Mar. 22.
- Mettler, John W. East Millstone, N. J., and H. L. Davis, Martinsburg, W. Va., assignors to The Interwoven Mills, Inc., New Brunswick, N. J. Circular-knitting machine. 1,654,266; Dec. 27.
- Mettler, Josef, assignor to the Firm Landis & Gyr A. G., Zug, Switzerland. Coin device for prepayment meters. 1,626,143; Apr. 26.
- Mettler, Margaret C., née Cabezola, et al., executrices. (See Cabezola, Eusebio F., assignor.)

- Metz, Alexander E., Teaneck, N. J. Scaffold bracket. 1,626,745; May 3.
- Metz, Gustave P., Brooklyn, N. Y. Medicinal agent adapted for glandular therapy. 1,640,709; Aug. 30.
- Metz, H. A., Laboratories, Inc. (See Dublin, H. E., assignor.)
- Metz, H. A., Laboratories, Inc. (See Dublin, H. E., and Coritt, assignors.)
- Metz, H. A., Laboratories, Inc. (See Funk, C., and Dublin, assignors.)
- Metz, Herman A. (See King, Joseph F., assignor.)
- Metz, John, Jamaica, assignor to Keen Waving Company, Inc. New York, N. Y. Curling stick. 1,653,812; Dec. 27.
- Metz, Samuel T., Jamaica, N. Y. assignor to Treco Company, Inc. Undergarment. 1,641,284; Sept. 6.
- Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor un-loader. 1,612,933; Jan. 4.
- Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor un-loader. 1,614,143; Jan. 11.
- Metzger, Benjamin L., Toledo, Ohio. Automobile cigar and cigarette lighter. 1,622,334; Mar. 29.
- Metzger, Carl, and E. Luetschen, Munich, Germany. Condenser. 1,649,482; Nov. 15.
- Metzger, Claude W., Los Angeles, Calif. assignor, by mesne assignments to Consolidated Machine Tool Corporation of America. Milling cutter. 1,650,290; Nov. 22.
- Metzger, Claude W., and M. Manning, Houston, Tex. Drill bit. 1,644,142; Oct. 4.
- Metzger, Constance I., administratrix. (See Wood, E. K., and Metzger.)
- Metzger, John. (See Wood, E. K., and Metzger.)
- Metzger, Myer, Chicago, Ill. Tire-display holder. 1,640,792; Aug. 30.
- Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
- Metzner, Robert B., Wheeling, W. Va. Mining machine. 1,643,220; Sept. 20.
- Metzner, Robert B., Wheeling, W. Va. Mining tool. 1,643,221; Sept. 20.
- Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric connectors. 1,646,037; Oct. 18.
- Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,651,035; Nov. 29.
- Meunier, Charles, Great Neck, N. Y. Gutter hanger. 1,616,622; May 10.
- Meunier, Charles A., Great Neck, N. Y. Gutter hanger. 1,630,961; May 31.
- Mexter, Ernst, St. Louis, Mo. Transformer. 1,653,504; Dec. 20.
- Meyberg, Earl J., Los Angeles, Calif. Wall lighting fixture. Des. 17,853; Jan. 18.
- Meyer, Adolph, assignor of one-half to H. A. Eldfain, Woodhaven, N. Y. Foot rest for motor vehicles. 1,613,237; Jan. 4.
- Meyer, Adolph F., St. Paul, Minn. Governor. 1,648,419; Nov. 8.
- Meyer, Alcid A., Minneapolis, Minn. Newspaper-vending machine. 1,645,442; Oct. 11.
- Meyer, Alfred G. and W., Chicago, Ill. Dirigible headlight. 1,615,129; Jan. 18.
- Meyer, Arthur T., Carleton, Mich. Ventilator fastener for automobile doors. 1,636,479; July 19.
- Meyer Body Co. Inc. (See Meyer, Frederick, assignor.)
- Meyer, Charles E., Johannesburg, Transvaal, South Africa. Treatment of zinc gold slimes and apparatus therefor. 1,622,960; Mar. 29.
- Meyer, Charles J. (See Kopp, J. A., Guenther, Kellkamp, and Meyer.)
- Meyer, Charles L., assignor to Concrete Engineering Company, Omaha, Nebr. Column clamp. 1,634,111; June 28.
- Meyer, Dirk, Pekin, assignor to The Meyer Furnace Company, Peoria, Ill. Smoke-pipe connection for furnaces. 1,641,825; Sept. 6.
- Meyer, Emile, New York, N. Y. Woven fabric. Des. 1,643,437; Apr. 19.
- Meyer, Erwin C. (See Stoll, K., and Meyer.)
- Meyer, Frank J. (See Baer, Abraham L., assignor.)
- Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Combined hat and shoe drawer. 1,656,702; July 26.
- Meyer, Fred. (See Fischer, Joseph, assignor.)
- Meyer, Fred C. (See Meyer, Otto C., assignor.)
- Meyer, Frederick, assignor to Meyer Body Co. Inc., Buffalo, N. Y. Refrigerating apparatus. 1,639,528; Aug. 16.
- Meyer, Frederick C., Brooklyn, N. Y. Bar for guitars. 1,618,884; Feb. 22.
- Meyer, Frederick H., assignor to Lettelt Iron Works, Grand Rapids, Mich. Conveyor. 1,615,027; Jan. 18.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electroionic relay. 1,649,036; Nov. 15.
- Meyer Furnace Company, The. (See Boesch, Jacob J., assignor.)
- Meyer Furnace Company, The. (See Meyer, Dick, assignor.)
- Meyer-Gaus, Karl, Barmen, Germany, assignor to the Firm: American Bemberg Corporation, New York, N. Y. Spinning or doubling spindle. 1,645,960; Oct. 18.
- Meyer, Geo. J., Manufacturing Company. (See Meyer, George L. N., assignor.)
- Meyer, George L. N., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Lubricating apparatus. 1,653,017; Dec. 20.
- Meyer & Gross. (See Meier, Milton, assignor.)
- Meyer, Harry R. (See Riley, L. G., Meyer, Johnston, and van Nieuwerkerken.)
- Meyer, Harry R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. 1,630,401; May 31.
- Meyer, Harry R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,654,302; Dec. 27.
- Meyer, Heinrich, assignor to The Wolf Machine Company, Cincinnati, Ohio. Carcass splitter. 1,616,058; Feb. 1.
- Meyer, Henry A., assignor to The Wolf Machine Company, Cincinnati, Ohio. Carcass cutter. 1,617,410; Feb. 15.
- Meyer, Henry A., assignor to The Wolf Machine Company, Cincinnati, Ohio. Carcass splitter. 1,643,721; Sept. 27.
- Meyer, Henry D., Milford, Ill. Road drag. 1,624,421; Apr. 12.
- Meyer, Henry H., Detroit, Mich. Piston. 1,627,400; May 8.
- Meyer, Henry W., Indianapolis, Ind. Vegetable cleaner. 1,632,142; June 14.
- Meyer, Henry W., Indianapolis, Ind. Flushing system. 1,652,038; Dec. 6.
- Meyer, Herman H., and E. C. Reehorst, Cleveland, Ohio; said Reehorst assignor to said Meyer. Faucet. 1,614,079; Jan. 11.
- Meyer, Hermann, Berlin, Germany. Boat. 1,631,047; May 31.
- Meyer, J. A., assignor of one-tenth to C. G. Griffith, Newark, N. J. Button. 1,618,719; Feb. 22.
- Meyer-Jachberg, Günther, Düsseldorf, Germany. Labeling machine. 1,653,910; Dec. 27.
- Meyer, John F. (See Scharli, John J., Jr., assignor.)
- Meyer, John F. (See Smith, Percy C., assignor.)
- Meyer, John H., Unadilla, Nebr. Storage-battery-plate separator. 1,622,961; Mar. 29.
- Meyer, John J., Jr., Glenclaw, Pa., and J. G. Lepper, Decatur, Ill. assignors to Glenshaw Glass Company, Glenclaw, Pa. Bottle-making machine. 1,653,723; Dec. 27.
- Meyer, Joseph E., Woodside, assignor to R. Hoe & Co., Inc., New York, N. Y. Wee-feeding mechanism. 1,630,713; May 31.
- Meyer, Oscar. (See Ericson, Charles A., assignor.)
- Meyer, Otto C., Fort Wayne, Ind., assignor of one-half to F. C. Meyer, Sturgis, Mich. Auxiliary machining attachment for lathes. 1,614,432; Jan. 11.
- Meyer, Otto W. (See Huber, William, assignor.)
- Meyer, Raymond B., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Frequency-control circuits. 1,654,184; Dec. 27.
- Meyer, Svend M., Brooklyn, assignor, by mesne assignments, of thirteen fortieths to S. M. Meyer, Woodhaven, and twenty-seven fortieths to W. James, Brooklyn, N. Y. Hand arc lamp. 1,640,768; Aug. 30.
- Meyer, Theodore F. W., Elizabeth, assignor to J. R. English, Newark, N. J. Vernier device. 1,634,676; July 5.
- Meyer, Ulfalas, Cologne-Mulheim, Germany. Diminishing the inductive disturbances in submarine telegraph cables. 1,650,145; Nov. 22.
- Meyer, Wilhelm A. (See Beil, A., and Meyer.)
- Meyer, William. (See Meyer, Alfred G. and W.)
- Meyer, William, Chicago, Ill. Scalp-treatment device. 1,613,045; Jan. 4.
- Meyer, William, Chicago, Ill. Heater for curling irons and the like. 1,625,487; Apr. 19.
- Meyer, William, Chicago, Ill. Battery case. 1,647,141; Nov. 1.
- Meyercord, George R., Chicago, Ill., assignor to Haskellite Manufacturing Corporation. Ply-metal panel and wall constructed of the same. 1,630,857; May 31.
- Meyercord, George R., Chicago, Ill., assignor to Haskellite Manufacturing Corporation. Corner formation in metal-sheathed construction material. 1,630,858; May 31.
- Meyercord, George R., Chicago, Ill., assignor to Haskellite Manufacturing Corporation. Wall safe or vault. 1,652,987; Dec. 13.
- Meyercord, George R., Chicago, Ill., assignor to Haskellite Manufacturing Corporation. Sealed joint between end and side walls of structures. 1,654,138; Dec. 27.
- Meyering, Bernard H., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film package. 1,625,486; Apr. 5.
- Meyers, Carmon A., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tension apparatus for calenders. 1,614,453; Jan. 11.
- Meyers, George E., Hartford, Conn. Support for moving-picture cameras and other instruments. 1,618,773; Feb. 22.
- Meyers, George F., New York, N. Y. Vehicle raising apparatus. 1,653,813; Dec. 27.
- Meyers, George W., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Door-operating engine and safety system. 1,630,667; May 31.

- Meyers, George W., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Electromechanical door engine and unitary push control. 1,651,959; Dec. 6.
- Meyers, Herbert H., Pittsburgh, Pa., assignor to Armour Fertilizer Works, Chicago, Ill. Treating alunite. 1,613,238; Jan. 4.
- Meyers, Herbert H., Pittsburgh, Pa., assignor to Armour Fertilizer Works, Chicago, Ill. Manufacture of disodium phosphate. 1,648,556; Nov. 8.
- Meyers, Joseph J. R., Newark, N. J. Floor and ceiling construction. 1,615,096; Jan. 18.
- Meyers, Julius R., Evanston, Ill., assignor to one-half to C. A. Straubel Company, Green Bay, Wis. Apparatus for pressing cheese. 1,625,128; Apr. 18.
- Meyers, Julius R., Evanston, Ill., assignor to C. A. Straubel Company, Green Bay, Wis. Making, curing and shipping cheese in metal bandages. 1,625,130; Apr. 19.
- Meyers, Linda H. (See Sergel, R. F., and Meyers.)
- Meyers, Louis, & Son, Inc. (See Meyers, Wallace E., assignor.)
- Meyers, Mearl C., Los Angeles, Calif. Water filter. 1,645,712; Oct. 18.
- Meyers, Otto B., Quakertown, Pa. Automatic read-saving device. 1,635,051; July 6.
- Meyers, Roy J., Hollywood, and M. Schlosberg, Los Angeles, Calif. Internal-combustion engine. 1,618,602; Feb. 22.
- Meyers, Sidney R., Buffalo, N. Y., assignor to Melco Engineering Corporation, Apparatus for burning oil. 1,645,443; Oct. 11.
- Meyers, Wallace E., assignor to Louis Meyers & Son, Inc., New York, N. Y. Glove or the like. Des. 72,069; Feb. 22.
- Meyers, Walter F., Chicago, Ill., assignor to Forbes Lithograph Manufacturing Company, Boston, Mass. Display stand. 1,646,305; Oct. 18.
- Meyerson, Max, New York, N. Y. Card holder. 1,619,827; Mar. 8.
- Meyrath, Gottlieb, Geneva, assignor of one-half to the Firm: Société Anonyme des Ateliers de Sécheron, Sécheron, Geneva, Switzerland. Cut-out device for electromagnetically-operated switches. 1,637,199; July 26.
- Meyrowitz, Benjamin, New York, N. Y. Automobile traffic-signaling apparatus. 1,627,545; May 3.
- Mezger, Robert, assignor to the Firm: Paul Lechler, Stuttgart, Germany. Coating gasometers. 1,630,202; May 24.
- Mezger, Robert, assignor to P. Lechler, Stuttgart, Germany. Sealing materials for gasometers. 1,641,089; Aug. 30.
- Mezitis, George, Washington, D. C. Bottle. Des. 73,190; Aug. 2.
- Mezzer, Egisto. (See Moretti, C. P., and Mezzer.)
- Miami Radio Corporation Company, The. (See Petit, William H., assignor.)
- Mica Insulator Company. (See Coffey, Joseph M., assignor.)
- Micallef, Ramiro P., Fontana, Calif. Combination spout and gate for bins. 1,630,558; May 31.
- Michael, George W., Wilkes-Barre, Pa. Automobile signal. 1,640,794; Aug. 30.
- Michael, Gus F., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,636,826; July 19.
- Michals, Frank L., Covington, Ky. Window. 1,650,640; Nov. 29.
- Michaels, John L., and L. R. Watkins, assignors to The Watkins Manufacturing Company, Wichita, Kans. Casting jig. 1,626,144; Apr. 26.
- Michaels, Robert, Chicago, Ill. Store-front construction. 1,621,376; Mar. 15.
- Michaelson, Henry G., Rockford, Ill. Show-case lock. 1,642,685; Sept. 20.
- Michal, Gregory D. (See Dimatos, A., and Michal.)
- Michalek, George, Monarch, Wyo. Rail support. 1,632,662; June 14.
- Michalek, Fred, Cedar Rapids, Iowa. Anchoring device. 1,629,353; May 17.
- Michallat, Francis J., Norwich, England, assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Apparatus for decorating chocolates, confectionery and the like. 1,635,190; July 12.
- Michaud, Elzeir, Indianapolis, Ind., assignor to E. L. Dayton, Detroit, Mich. Burner apparatus. 1,629,722; May 24.
- Michel, Clarence A., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Automobile lamp lens. 1,615,648; Jan. 25.
- Michel, Clarence A., assignor to The Guide Motor Lamp Company, Cleveland, Ohio. Stop signal for automobiles. 1,643,465; Sept. 27.
- Michel, Clarence A., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Headlight. 1,643,466; Sept. 27.
- Michel, Hermann, Holstein, Germany, assignor to Centra Handels- & Industrie A.-G., Chur, Switzerland. Rotary engine. 1,613,283; Jan. 4.
- Michellin, André J., Paris, France. Tire. Des. 72,217; Mar. 15.
- Michellin, André J., Paris, France. Tire. Des. 72,218; Mar. 15.
- Michellin, André J., Paris, France. Manufacturing seamless rims and wheel disks. 1,623,883; Apr. 5.
- Michellin, André J., Paris, France. Vehicle wheel. 1,635,894; July 12.
- Michellin, André J., Paris, France. Vehicle wheel. 1,635,895; July 12.
- Michellin, André J., Paris, France, assignor to Michelin et Cie, Clermont-Ferrand, France. Vehicle wheel. 1,639,573; Aug. 16.
- Michellin, André J., assignor to Michelin et Cie, Clermont-Ferrand, France. Deep rim for pneumatic tires. 1,635,145; Dec. 6.
- Michellin, André J., Paris, assignor to Michelin et Cie, Clermont-Ferrand, France. Deep rim for pneumatic tires. 1,652,147; Dec. 6.
- Michellin, André J., Paris, assignor to Michelin et Cie, Clermont-Ferrand, France. Securing tires on rims. 1,657,880; Dec. 27.
- Michelin et Cie. (See Michellin, André J., assignor.)
- Michell, Anthony G. M., Melbourne, Victoria, Australia. Axle-lubricating device. 1,617,686; Feb. 15.
- Michell, Anthony G. M., Melbourne, Victoria, Australia. Journal bearing. 1,617,719; Feb. 15.
- Michell, Anthony G. M., assignor to Crankless Engines Limited, Melbourne, Victoria, Australia. Crankless mechanism. 1,613,116; Jan. 4.
- Michell, Anthony G. M., assignor to Crankless Engines (Aus) Proprietary Limited, Melbourne, Victoria, Australia. Sealing of the cylinders and pistons and other working parts of internal-combustion engines, compressors, and the like. 1,621,943; Mar. 22.
- Michelsen, John. (See McNeill, J. W., and Michelsen.)
- Michelsen, John, Vancouver, British Columbia, Canada. Milk attachment for boots. 1,645,111; Oct. 11.
- Michelson, Albert S., assignor to The Akron Rubber Mold and Machine Company, Akron, Ohio. Tire. Des. 71,921; Jan. 25.
- Michelson, Albert S., assignor to The Akron Rubber Mold and Machine Company, Akron, Ohio. Tire. Des. 72,179; Mar. 8.
- Michie, Arthur C. (See Davidson, W. B., Michie, and Muddiman.)
- Michigan Smelting & Refining Company. (See Noble, Benjamin, assignor.)
- Michigan Stamping Company. (See Jolstad, Trygve, assignor.)
- Miched, Charles L., Chicago, Ill. Building construction. 1,622,962; Mar. 29.
- Michod, Charles L., Chicago, Ill., assignor, by mesne assignments, to E. S. Evans & Company, Incorporated, Detroit, Mich. Vehicle stay block. 1,628,354; May 17.
- Michols, Joseph H., Toledo, Ohio, assignor to J. B. Latimer, Foot accelerator. 1,613,764; Jan. 11.
- Michoud, Arnold, Yverdon, assignor to the Firm: "Cibles Automatiques Michoud-Société Anonyme," Neuchâtel, Switzerland. Electrical transmission device. 1,630,900; May 31.
- Micks, Ferdinand, Nashville, Tenn. Compression feeding device. 1,614,378; Jan. 11.
- Mickelsen, Canute H., Tetonia, assignor to Mickelsen Patents Co. Inc., Driggs, Idaho. Gambrel. 1,636,312; July 19.
- Mickelsen Patents Co. Inc. (See Mickelsen, Canute H., assignor.)
- Mickelson, Eric H., and E. K. Skonberg, Brooklyn, N. Y. Liquid-dispensing device. 1,632,614; June 14.
- Mickey, Bruce D., Schenectady, N. Y., assignor to General Electric Company. Ward-Leonard drive. 1,615,643; Jan. 25.
- Mickey, Edward T., Winston-Salem, N. C. Ironing board. 1,639,304; Aug. 16.
- Mickleborough, May E., Brooklyn, N. Y. Lingerie-fastening device. 1,635,333; July 12.
- Mickler, Raymond Y., Jacksonville, Fla. assignor to City of Jacksonville. Police lock. 1,643,930; Sept. 27.
- Micon, David, Benton Harbor, Mich. Mattress-beating machine. 1,622,287; Mar. 29.
- Micro Machine Company. (See Baumberger, William J., assignor.)
- Micro Machine Company. (See Yerk, H. H., and Baumberger, assignors.)
- Middendorf, David L., assignor to The Federal Glass Company, Columbus, Ohio. Apparatus for the manufacture of glassware. 1,642,741; Sept. 20.
- Middendorf, George, Newark, N. J. Compressor for refrigerators or the like. 1,626,621; May 8.
- Middlecoff, Edward P., St. Louis, Mo. Safety-razor-blade holder. 1,632,910; June 21.
- Middlemiss, George H., Birmingham, Ala. Automatic reclosing mechanism. 1,653,404; Dec. 20.
- Middlemiss, George H., Birmingham, Ala. Method and apparatus for determining the synchronism of alternating current circuits. 1,636,527; July 19.
- Middleton, Alfred, Lavender Bay, near Sydney, New South Wales, Australia. Coin-actuated liquid-dispensing machine. 1,630,203; May 24.
- Middleton, Alfred, Morro Bay, Calif. Glareless headlight. 1,615,336; Jan. 25.
- Middleton, Charles O., sr. (See Scully, George H., assignor.)
- Middleton, Frank L., Darien, Ga. Domestic steam-generating apparatus. 1,621,736; Mar. 22.
- Middleton, George R., Tampa, Fla. Slip-cover fastener. 1,619,265; Mar. 1.
- Middleton, John H. (See Jones, E. P., and Middleton.)
- Middleton, Norman E. (See Whitaker, C. L., and Middleton.)

- Midgley, Albert H., Uxbridge, England. Loud speaker and other sound-receiving, sound-reproducing, or sound-transmitting apparatus. 1,615,644; Jan. 25.
- Midgley, Joseph, Brainerd, assignor of one-third to J. L. Chesbrough, Duluth, Minn., and one-third to T. L. R. Chesbrough, Chicago, Ill. Shackle bolt. 1,632,663; June 14.
- Midgley, Roy A., Mount Dora, Fla. Cam shaft. 1,651,402; Dec. 6.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire mold. 1,615,470; Jan. 25.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making tire molds. 1,615,471; Jan. 25.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire mold. 1,615,472; Jan. 25.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire mold and making the same. 1,615,473; Jan. 25.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire mold. 1,615,474; Jan. 25.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Calendar. 1,615,475; Jan. 25.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making tire casings. 1,624,615; Apr. 12.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Beveling and sealing clamp. 1,624,616; Apr. 12.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Beveling and sealing clamp. 1,624,617; Apr. 12.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire construction. 1,637,799; May 10.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Pulley-band-tire construction. 1,633,342; June 21.
- Midgley, Thomas, Jr. (See Kettering, C. F., and Midgley.)
- Midgley, Thomas, Jr., Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Making organic lead compounds. 1,622,223; Mar. 22.
- Midland Company, The. (See Nourse, Clair P., assignor.)
- Midland Metal Manufacturing Company. (See Buckles, E. C., Henri, and Clow, assignors.)
- Midland Steel Products Company, The, et al. (See Putnam, Alden L., assignor.)
- Mid-State Gummed Paper Company. (See Huempfer, Ferdinand W., assignor.)
- Midulla, Benjamin, New York, N. Y. Electric water heater. 1,627,335; May 3.
- Midulla, Benjamin, Wilkensburg, Pa. Electric heater. 1,651,753; Jan. 4.
- Midwest Air Filters, Incorporated. (See Carlstedt, Ragnar, assignor.)
- Mid-West Box Company. (See Fairchild, Walter H., assignor.)
- Mid-West Box Company. (See Heinrichs, Berg, assignor.)
- Mid-West Box Company. (See Maston, Edward B., assignor.)
- Midwest Cabinet Company, The. (See Burke, Edwin, assignor.)
- Midwest Steel & Supply Co. Inc. (See Goodloe, Alfred M., assignor.)
- Miech, Otto. (See Bartels, A., and Miech.)
- Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Jacobson, Arthur G., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Zimmerman, Anthony, assignor.)
- Miehle, Robert F., assignor to The Bell & Howell Company, Chicago, Ill. Reel. 1,619,952; Mar. 8.
- Mele, Adolph, Pittsburgh, Pa. Pick container. 1,645,918; Oct. 18.
- Mele, Ralph J., New York, N. Y. Dispensing device. 1,650,459; Mar. 29.
- Melke, William A., Bancroft, Nebr. Tire spreader. 1,622,661; Mar. 29.
- Miesner, Martin D., Oakland, Calif. Davenport. 1,649,719; Nov. 15.
- Miesner, Benjamin J., Chicago, Ill. Radio communication device. 1,622,389; Mar. 29.
- Miesner, Benjamin F., South Orange, N. J. Sound-amplifying device. 1,639,048; Aug. 16.
- Mietz, Herman F., Franklinville, N. J. Banjo resonator. 1,623,884; Apr. 5.
- Misud, Jose L. (See Schaubman, K. O., Yancey, and Misud.)
- Migliaccio, Arnold, Brooklyn, N. Y. Electrical flag. 1,640,282; Aug. 23.
- Mignogne, Francesco, Greensburg, Pa. Automatic train-stopping device. 1,644,346; Oct. 4.
- Mignot, Paul L. J., assignor to Societe Electrometallurgique de Montricher, St-Julien-de-Maurienne, France. Open electric furnace. 1,654,139; Dec. 27.
- Mihalj, Joseph, Washington, D. C. Photographic camera. 1,642,935; Sept. 20.
- Mik, Johann, assignor, by mesne assignments, to J. Modern, Vienna, Austria. Walking toy. 1,649,910; Nov. 22.
- Mikaelson, Erik W., Easton, Pa., assignor to Treadwell Engineering Company. Die head. 1,618,668; Feb. 22.
- Mikeash, Martin A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Quick-detachable dam for the molds of centrifugal casting machines. 1,643,253; Sept. 20.
- Mikile, Louis. (See Martin, W. F., and Mikile.)
- Mikotits, Joseph, Greenwood, Wis. Sawing attachment for tractors. 1,645,096; Oct. 11.
- Mikulle, Milos N., Kansas City, Mo. Automatic alternating-current cut-out device for polyphase circuits. 1,620,483; Mar. 8.
- Milam, William A., Seymour, Tex. Swing. 1,646,160; Oct. 18.
- Milbrath, Arthur F., Milwaukee, Wis. Mounting for valve tappets. 1,631,218; June 7.
- Mild, William E., Mount Vernon, Ohio. Rotary compressor. 1,653,814; Dec. 27.
- Mildenberg, Julius, Dusseldorf-Oberkassel, Germany. Massage bandage and the like. 1,640,590; Oct. 25.
- Mildren, Lory J. (See Ivey, John H., assignor.)
- Mileometer Company. (See Joseph, Arthur H., assignor.)
- Mileometer Company, The. (See Lea, John M., assignor.)
- Miles, Eugene P., Hobart, Okla. Fireplace. 1,649,037; Nov. 15.
- Miles, Frederick H., and J. D. Switzer, Portland, Oreg. Reversible window. 1,632,906; Dec. 13.
- Miles, Frederick J. and D. C. Thompson, assignors to Automotive Devices, Inc., Newark, N. J. Relay for electric systems. 1,622,042; Mar. 22.
- Miles, George A., Seattle, Wash. Lawn-mower sharpener. 1,617,536; Feb. 15.
- Miles, Grace B. (See Miles, Milo T. and G. B.)
- Miles, James C. (See Seelbach, Kurt L., assignor.)
- Miles, James C. (See Teare, Albert R., assignor.)
- Miles, Milo T., and G. B. Miles, San Leandro, Calif. Piano. 1,647,186; Nov. 1.
- Miles, Orville L. (See Jensen, J. C., and Miles.)
- Miller, Robert R., Los Angeles, Calif. Metallic closure structure. 1,636,008; July 19.
- Miles, William B., assignor of one-half to J. R. King, Downers Grove, Ill. Child's vehicle. 1,646,161; Oct. 18.
- Millette, William J., Winnipeg, Manitoba, Canada. File clip. 1,644,193; Oct. 4.
- Miller, William J., Providence, R. I. Antiskid device. 1,643,167; Sept. 20.
- Milford, Floyd M., Burkburnett, Tex. Retread mold. 1,641,499; Sept. 6.
- Milinare, James. (See Perry, H. A., and Milinare.)
- Miltz, Albert R. (See Graham, Elmer R., assignor.)
- Milk Bottle Crate Company. (See Foreman, Amos L., assignor.)
- Milker, Herbert, Queens, N. Y., assignor to American Schaeffer & Budenberg Corporation. Temperature-control system. 1,630,755; May 31.
- Miller, Garrett W., Fort Worth, Tex. Milk cooler. 1,632,494; June 14.
- Miller, James C., De Pere, Wis. Oil burner. 1,622,963; Mar. 29.
- Miller, John R., assignor to California Cotton Mills Company, Oakland, Calif. Padding material. 1,650,086; Nov. 22.
- Miller, Margaret B., South Orange, N. J. Sleeping bag. 1,633,815; Dec. 27.
- Miller, William H., Toronto, Kans. Collar pad. 1,653,816; Dec. 27.
- Millard, James, Steubenville, Ohio. Gate. 1,630,204; May 24.
- Millard, Raymond B., assignor to Southwestern Engineering Corporation, Los Angeles, Calif. Condenser. 1,616,701; Feb. 8.
- Milhauro, Orazio, London, England. Window latch. 1,636,782; July 26.
- Milleman, Alfred, Swissvale, Pa. Attachment for combination squares. 1,617,453; Feb. 15.
- Millen, Stanley S., assignor of one-half to M. M. Mumford, Los Angeles, Calif. Polishing mitt. 1,643,722; Sept. 27.
- Miller, A. N., Co. (See Miller, Adolph N., assignor.)
- Miller, Adolph, Kirkwood, Mo. Storage battery. 1,613,617; Jan. 11.
- Miller, Adolph, Kirkwood, Mo. Chair. 1,629,630; May 24.
- Miller, Adolph H., Minneapolis, Minn. Ash-sifting shovel. 1,619,268; Mar. 1.
- Miller, Adolph N., assignor to A. N. Miller Co., Milwaukee, Wis. Fabric stretcher. 1,653,919; Dec. 27.
- Miller, Albert B., and W. H. Kellner, Green Bay, Wis. Gas heater. 1,623,487; Apr. 5.
- Miller, Albert B., assignor to Sinclair Refining Company, Chicago, Ill. Handling crude oil and residuals. 1,646,760; Oct. 25.
- Miller, Albert L., et al., trustees. (See Rogers, Harry R., assignor.)
- Miller, Albert W., Nokomis, Ill. Wire-crimping tool. 1,619,964; Mar. 1.
- Miller, Alfred, Dessau in Anhalt, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Making photographic copies by reversal. 1,632,740; June 14.

- Miller, Alfred, Dessau in Anhalt, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Photographic copying by the reflection method. 1,645,112; Oct. 11.
- Miller, Alfred E., Kansas City, Mo. Educational device. 1,641,773; Sept. 6.
- Miller, Anthony P. (See Ferry, J. V., and Miller.)
- Miller, Archibald R., Helensburgh, Scotland. Pressure-regulating valve. 1,636,919; July 26.
- Miller, Arthur, Astoria, N. Y. Ventilator. 1,638,698; Aug. 9.
- Miller, Arthur E., Sacramento, Calif. Automatically-variable crank motion. 1,622,919; Mar. 29.
- Miller, Arthur E., Sacramento, Calif. Signal switch. 1,641,538; Oct. 4.
- Miller, Arthur B., Oakland, Calif. Garment hanger. 1,652,870; Dec. 13.
- Miller, Arthur N., Henryetta, Okla. Standing valve. 1,626,549; Apr. 26.
- Miller Beauty Mirror Company. (See Miller, William E., assignor.)
- Miller, Benjamin, Chicago, Ill. Mouthpiece for reed instruments. 1,615,549; Jan. 25.
- Miller, Carl K., Alvarado, Minn. Combined ladder and board. 1,615,715; Jan. 25.
- Miller, Charles, Long Island City, N. Y. Rotary drier. 1,637,831; Aug. 2.
- Miller, Charles, Long Island City, N. Y. Shoe last. 1,652,286; Dec. 13.
- Miller, Charles C., Fort Wayne, Ind. Display carton. 1,620,673; Mar. 15.
- Miller, Charles E., McSherrystown, Pa. Package. 1,631,048; May 31.
- Miller, Charles E., Detroit, Mich. Sugar gauge. 1,633,343; June 21.
- Miller, Charles F. (See Osborne, R., and Miller.)
- Miller, Charles F., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lower ram for stokers. 1,616,865; Feb. 8.
- Miller, Charles F., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Air-control means for mechanical stokers. 1,620,672; Mar. 15.
- Miller, Charles F., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mechanical stoker. 1,624,004; Apr. 12.
- Miller, Charles F., Cedar Rapids, Iowa. Mold box for butter and the like. 1,643,508; Sept. 27.
- Miller, Charles H., San Jose, Calif. Clock. 1,650,878; Oct. 29.
- Miller, Charles J. (See Thomson, C. H., Cumminskey, Miller, and Jones.)
- Miller, Charles R., Wilkinsburg Borough, Pa. Guard-rail structure for railways. 1,650,953; Nov. 29.
- Miller, Charles W., Long Beach, Calif. Window. 1,612,934; Jan. 16.
- Miller, Clyde M., Madison, Ind. Welding-rod holder. 1,621,745; Mar. 22.
- Miller Company, The. (See Cummings, Helen J., assignor.)
- Miller Company, The. (See Doane, Leroy C., assignor.)
- Miller Company, The. (See Roby, Sheldon S., assignor.)
- Miller Company, The. (See Runge, Richard M., assignor.)
- Miller Company, The. (See West, Otto, assignor.)
- Miller Company, The. (See Wolter, Herman H., assignor.)
- Miller, Daniel D., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching device. 1,628,991; May 17.
- Miller, Daniel D., assignor to Western Electric Company, Incorporated, New York, N. Y. Relay. 1,641,285; Sept. 6.
- Miller, Daniel D., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic device. 1,652,900; Dec. 13.
- Miller, Daniel D., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic relay. 1,652,491; Dec. 13.
- Miller, David, Los Angeles, Calif. Quick-closure ball cock. 1,616,698; Feb. 8.
- Miller, Doris S., Los Angeles, Calif. Automobile body. Des. 72,561; May 3.
- Miller, Edward, New York, N. Y. Fishing-tackle case. 1,615,229; Jan. 25.
- Miller, Edward J., assignor to St. Louis Screw Company, St. Louis, Mo. Metal-heating apparatus. 1,652,371; Dec. 13.
- Miller, Elias N., Amarillo, Tex. Die mechanism. 1,646,550; Oct. 25.
- Miller, Ernest B., assignor to The Silica Gel Corporation, Baltimore, Md. Obtaining sweet doctor test. 1,647,459; Nov. 1.
- Miller, Erwin E., Fullerton, Calif. Expandible packing. 1,613,355; Jan. 4.
- Miller, Erwin E., Fullerton, Calif. Expandible packer for plungers. 1,622,043; Mar. 22.
- Miller, Erwin E., Fullerton, Calif. Expandible packing. 1,641,547; Sept. 6.
- Miller, Esch, Newark, N. J. Signaling-mechanism circuit closer for vehicles. 1,652,449; Dec. 13.
- Miller, Ferdinand, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Power-transmission unit. 1,634,376; July 6.
- Miller, Francis H. (See Laing, William V., assignor.)
- Miller, Frank A., assignor to San Francisco-Sacramento Railroad Co., Oakland, Calif. Signaling system. 1,630,962; May 31.
- Miller, Frank B., Norwalk, Ohio. Toy or article of similar nature. Des. 73,534; Sept. 27.
- Miller, Frank C., Auburndale, Mass. Cylinder drainage and relief valve. 1,629,354; May 17.
- Miller, Frank E., Boston, Mass. Condiment shaker. 1,640,005; Aug. 23.
- Miller, Frank E., and R. M. Lacey, assignors to Frank E. Miller Radio Corporation, New York, N. Y. Push-pull reproducer. 1,642,124; Sept. 13.
- Miller, Frank E., Radio Corporation. (See Miller, F. E., and Lacey, assignors.)
- Miller, Frank E., Chicago, Ill. Accessory container for railway use. 1,620,376; Mar. 8.
- Miller, Frank R. (See Lents, J. M., and Miller.)
- Miller, Frank R., assignor to The Graham Glass Company, Evansville, Ind. Bottle. Des. 72,908; June 21.
- Miller, Frank R., assignor to The Graham Glass Company, Evansville, Ind. Bottle. Des. 73,234; Aug. 9.
- Miller, Frank R., assignor to The Graham Glass Company, Evansville, Ind. Bottle. Des. 73,573; Oct. 4.
- Miller, Frank W., assignor to Franciere Company, Chicago, Ill. Boiler washing and refilling system. 1,652,179; Dec. 13.
- Miller, Frederick R., Jersey City, N. J., assignor to Artcolor Motion Picture Company, New York, N. Y. Apparatus for printing motion-picture films. 1,634,297; July 5.
- Miller, Frederick B., Scottdale, Pa. Controller. 1,634,677; July 5.
- Miller, Frederick B., Scottdale, Pa. Apparatus for mining. 1,643,000; Sept. 20.
- Miller, Frederick H., Portland, Oreg. Potato slicer. 1,619,746; Mar. 1.
- Miller, Frederick H., Portland, Oreg. Vegetable cutter. 1,650,450; Apr. 26.
- Miller, Frederick V., and F. M. Crawford, assignors to Rex Manufacturing Company, Connerville, Ind. Auto top. 1,644,025; Oct. 4.
- Miller, George A., Tamaroa, Ill. Poultry roost. 1,643,079; Sept. 20.
- Miller, George C. (See Blomquist, H. F., and Miller.)
- Miller, George E. (See Polindexter, George B., assignor.)
- Miller, George F., and F. Keith, Menomonee, Wis.; said Keith assignor to said Miller. Camp stove. 1,633,707; June 28.
- Miller, George J., Douglas, Ark. Reclaiming rubber. 1,641,598; Sept. 6.
- Miller, George L., assignor to Farles Manufacturing Company, Decatur, Ill. Lighting bracket. Des. 73,618; Oct. 11.
- Miller, George L., assignor, by mesne assignments, to The Timken Roller Bearing Company, Canton, Ohio. Die. 1,625,131; Apr. 19.
- Miller, George L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Antifriction bearing drive and hanger box. 1,632,495; June 14.
- Miller, George W., Waynesville, N. C. Mechanically-operated pump toy. 1,635,948; July 12.
- Miller & Goldsmith. (See Goldsmith, Elmer P., assignor.)
- Miller, Gordan, Moneta, Calif. Automobile signal. 1,652,039; Dec. 6.
- Miller, Grace V., San Francisco, Calif. Hanger for ear clamps. 1,620,674; Mar. 15.
- Miller, Grant H., New York, N. Y. Method of and apparatus for treating beef carcasses. 1,614,312; Jan. 11.
- Miller, Grover C., Los Angeles, Calif. Machine for treating the casings. 1,636,825; July 26.
- Miller, H. Fancourt. (See Hoover, Sidney L., assignor.)
- Miller, H. H., Industries Company, The. (See Broadfield, Ward, assignor.)
- Miller, Hannibal E., Charlotte, N. C. Cutlery. 1,630,627; May 31.
- Miller, Harmon J., Defiance, Ohio. Device for lining railway tracks. 1,618,019; Feb. 15.
- Miller, Harold G., Homer, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Collapsible vehicle. 1,626,551; Apr. 26.
- Miller, Harry. (See Swingle, C. W., and Miller.)
- Miller, Harry A., Los Angeles, Calif. Drive mechanism for vehicles. 1,649,361; Nov. 15.
- Miller, Harry H., assignor to Miller-Smythe Electric Company, Youngstown, Ohio. Power hammer. 1,633,995; July 23.
- Miller, Harry H., assignor to Miller-Smythe Electric Company, Youngstown, Ohio. Power hammer. 1,634,623; July 5.
- Miller, Henry, Grafton, W. Va. Violin mandolin. 1,635,429; July 12.
- Miller, Henry, assignor to American Can Company, San Francisco, Calif. Attachment for handles. 1,617,493; Feb. 15.
- Miller, Henry, assignor to American Can Company, San Francisco, Calif. Apparatus for attaching handles to cleat plates. 1,642,458; Sept. 13.
- Miller, Henry, assignor to Hazeltine Corporation, Jersey City, N. J. Electron-emitting cathode and preparing the same. 1,640,710; Aug. 30.
- Miller, Henry C., deceased; First Wisconsin Trust Company, executor, Milwaukee, Wis. Temporary binder. 1,631,049; May 31.

- Miller, Henry C., deceased; First Wisconsin Trust Company, executor, Milwaukee, Wis. Unit for holding the leaves in visible record systems. 1,634,956; July 5.
- Miller, Henry C., deceased, Milwaukee, Wis., First Wisconsin Trust Company of Milwaukee, executor. Loose-leaf binder. 1,639,395; Aug. 18.
- Miller, Henry C., deceased; First Wisconsin Trust Company, Milwaukee, Wis., executor. Sheet inserter. 1,640,132; Aug. 23.
- Miller, Henry C., Watertown, N. Y. Forming stitched buttonholes. 1,640,283; Aug. 23.
- Miller, Henry C., Watertown, N. Y. Auxiliary locomotive. 1,647,460; Nov. 1.
- Miller, Henry H., River Edge, N. J. Shovel. 1,645,656; Oct. 18.
- Miller, Henry J. (See Buell, O. D., and Miller.)
- Miller, Herman. (See Gladd, George, assignor.)
- Miller, Howard L., Twin Branch, W. Va. Mechanically-operated figure toy. 1,616,462; Feb. 8.
- Miller Improved Gas Engine Company, The. (See Watts, Elmer A., assignor.)
- Miller, Ingie W., and L. E. Miller, Darke County, Ohio. Cultivator. 1,639,463; Aug. 16.
- Miller, Isidor, Union City, N. J. Amusement gravity suspension railway. 1,651,961; Dec. 6.
- Miller, Ivan, Onaway, assignor to Lobdell-Emery Manufacturing Company, Alma, Mich. Mortising machine. 1,635,723; July 12.
- Miller, J. W., Co. (See Hare, Franklin C., assignor.)
- Miller, J. W., Company. (See Miller, Roy G., assignor.)
- Miller, Jacob C., Milwaukee, Wis. Cushioned valve tap-pet. 1,613,117; Jan. 4.
- Miller, Jacob C., assignor to A. O. Smith Corporation, Milwaukee, Wis. Weld rod and arc welding with the same. 1,643,254; Sept. 20.
- Miller, James M., Washington, D. C. Airplane. 1,650,954; Nov. 29.
- Miller, James M., Perry, Okla. Underreamer. 1,654,463; Dec. 27.
- Miller, James S., Bedford, Ind. Clutch. 1,647,879; Nov. 1.
- Miller, Jane R., Los Angeles, Calif. Necklace or similar article. Des. 72,180; Mar. 8.
- Miller, Jesse P., assignor of one-half to J. H. Thatcher, Houlton, La. Explosive drill bit for cable tools and the like. 1,637,268; July 26.
- Miller, John, jr., Beloit, Wis., assignor to Charles H. Besly and Company, Chicago, Ill. Grinding machine. 1,621,553; Mar. 22.
- Miller, John A., Greenwood, Ill. Pleasure-railway structure. 1,613,118; Jan. 4.
- Miller, John A., Homewood, Ill. Pleasure-railway structure. 1,629,520; May 24.
- Miller, John A., Homewood, Ill. Roof structure. 1,645,202; Oct. 11.
- Miller, John A., Chicago, Ill. Brake mechanism and the like. 1,638,145; July 19.
- Miller, John A., Mount Crawford, assignor of one-half to G. N. Conrad, Harrisonburg, Va. Speed governor. 1,639,265; Aug. 16.
- Miller, John C., Chicago, Ill. Necktie holder. Des. 73,798; Nov. 8.
- Miller, John C., and R. H. Fayfield, assignors to Fayfield-Knoll Company, Buffalo, N. Y. Tie device for snow skates and the like. 1,612,874; Jan. 4.
- Miller, John D., Newton, N. C. Collapsible tube closure. 1,621,801; Mar. 22.
- Miller, John E., Marseilles, Ill., assignor to Certain-teed Products Corporation, New York, N. Y. Manufacture of prepared roofings. 1,636,750; July 26.
- Miller, John H., Rising Sun, Ohio. Concrete-block machine. 1,636,102; July 19.
- Miller, John J. A., Denver, Colo. Carburetor. 1,640,711; Aug. 30.
- Miller, John M., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Radio receiving system. 1,639,411; Aug. 16.
- Miller, John O., Chicago, Ill., assignor to The Brunswick-Balke-Collider Company, Wilmington, Del. Game-table cushion. 1,613,403; Jan. 4.
- Miller, John S., Jr., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Waterproof fabric and its manufacture. 1,640,795; Aug. 30.
- Miller, John S., Jr., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Plastic floor and bearing therefor. 1,640,796; Aug. 30.
- Miller, John T., and M. Hanley, Chicago, Ill. Switch. 1,619,148; Mar. 1.
- Miller, John T., and M. Hanley, Chicago, Ill. Circuit controller. 1,622,044; Mar. 22.
- Miller, John T., and M. Hanley, Chicago, Ill. Circuit-controlling mechanism. 1,624,059; Apr. 12.
- Miller, John W., El Dorado, Ark. Pulling device for gears and the like. 1,633,453; June 21.
- Miller, Jonas M., Plain City, Ohio. Fruit-jar lifter. 1,632,664; June 14.
- Miller, Joseph, Walnut Hill, Me. Air tunnel for aeroplane fuselages. 1,645,612; Oct. 18.
- Miller, Joseph A., assignor to Draper Corporation, Hopedale, Mass. Bobbin-clutching means for rotatable spindles. 1,628,054; May 10.
- Miller, Joseph A., assignor to Draper Corporation, Hopedale, Mass. Bobbin-clutching means for rotatable spindles. 1,647,109; Oct. 25.
- Miller, Joseph H., Harrisburg, Tex. Dispensing can. 1,638,778; Aug. 9.
- Miller, Joseph H., Harrisburg, Tex. Dispensing receptacle. 1,638,779; Aug. 9.
- Miller, Joseph N. (See Ball, Joseph S., assignor.)
- Miller, Joseph N. (See Stoffel, Martin, assignor.)
- Miller, Kinney I., Lancaster, Mo. Feeder shipping box for chicks, etc. 1,632,033; June 14.
- Miller, Lauritz N., Eugene, Oreg. Car construction. 1,642,504; Sept. 13.
- Miller, Lawrence P., Philadelphia, Pa. Resilient wheel. 1,640,613; Aug. 30.
- Miller, Lenard P. (See Akers, E., Mims, Moutray, and Miller.)
- Miller, Levi B., Lynn, Mass. assignor to General Electric Company. Molding silica. 1,628,417; May 10.
- Miller, Levi B., Lynn, Mass., assignor to General Electric Company. Producing vitreous silica. 1,628,468; May 10.
- Miller, Lida E. (See Miller, Ingie W. and L. E.)
- Miller, Martin J., Alhambra, Calif. Baby chair for automobiles. 1,629,854; May 24.
- Miller, Mary A., Lancaster, Pa. Support for baking crusts. 1,641,090; Aug. 30.
- Miller, Matt. (See Miller, Walter M., assignor.)
- Miller, Max, New York, N. Y. Vehicle parking system. 1,619,380; Mar. 1.
- Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Driving mechanism for knitting machines. 1,616,633; Feb. 8.
- Miller, Max C., Cumberland Hill, R. I., assignor of two-thirds to K. H. Wyner, Boston, and one-third to H. T. Gammas, Natick, Mass. Feed mechanism for knitting machines. 1,622,249; Mar. 22.
- Miller, Max P. (See Cashin, W. D., and Miller.)
- Miller, Michael A., Long Island City, N. Y. Fastening device for papers. 1,637,832; Aug. 2.
- Miller, Minnie W., Salt Lake City, Utah. Label for livestock. 1,635,723; July 12.
- Miller, Monroe E., Washington, D. C., assignor, by mesne assignments, to Union Simplex Train Control Co., Inc., Rochester, N. Y. Run-down and reset locomotive-control apparatus. 1,635,584; July 12.
- Miller, Milton, assignor of one-third to B. W. Colman, Chicago, Ill. Cigar-banding machine. 1,613,046; Jan. 4.
- Miller, Nathan, assignor of one-half to H. Lehman, Brooklyn, N. Y. Fur stretcher. 1,645,961; Oct. 18.
- Miller, Otis A., assignor to A. G. Bush, Davenport, Iowa. Treatment of leather. 1,632,471; Apr. 26.
- Miller, Otto, Cincinnati, Ohio. Brake-lever-releasing device. 1,622,530; Mar. 29.
- Miller, Otto, Cincinnati, Ohio. Automatic take-up bolt. 1,631,878; June 7.
- Miller, Otto, Cincinnati, Ohio. Engine-lubricating system. 1,643,040; Sept. 27.
- Miller, Otto, assignor to The Cincinnati Specialty Manufacturing Company, Cincinnati, Ohio. Extension reel for electric lamps, portable drills, and the like. 1,642,938; Sept. 20.
- Miller, Paul C., Jacksonville, Fla. Swimming pool. 1,637,423; Aug. 2.
- Miller, Penn, Monmouth, Ill. Polishing machine. 1,641,984; Sept. 13.
- Miller, Peter J. O., Peoria, Ill. Steam generator. 1,639,953; Aug. 23.
- Miller, P. C., et al. (See Rayon, Joseph D., assignor.)
- Miller, Ralph, (See Gunnell, F. I., and Miller.)
- Miller, Ralph, Los Angeles, Calif., assignor to H. H. Gunnell. Spray attachment for hose nozzles. 1,645,814; Oct. 18.
- Miller, Ralph, assignor to H. H. Gunnell, Los Angeles, Calif. Spray attachment for hose nozzles. 1,644,072; Oct. 4.
- Miller, Raymond J. (See O'Neill, T. F., and Miller.)
- Miller, Raymond S., Detroit, Mich. Torque-transmission mechanism. 1,636,009; July 19.
- Miller, Raymond W., Linden, Calif. Budding knife. 1,649,318; Nov. 15.
- Miller, Richard W., Milwaukee, Wis. Pipe bender. 1,650,955; Nov. 29.
- Miller, Robert B., Jackson Heights, assignor to Western Electric Company, Incorporated, New York, N. Y. Dial-testing circuit. 1,624,422; Apr. 12.
- Miller, Robert E., Ridgefield Park, N. J. Device for holding monogram plates. 1,645,919; Oct. 18.
- Miller, Robert F. (See Kelly, B. F., Miller, and Winler.)
- Miller, Robert J., Oakland, Calif. Wall-louver-ventilator installation. 1,613,047; Jan. 4.
- Miller, Roy G., assignor to J. W. Miller Company, Rockford, Ill. Egg-turning device for incubators. 1,617,920; Feb. 15.
- Miller, Roy J., Milwaukee, Wis. Dispensing receptacle. 1,642,453; Sept. 13.
- Miller, Roy J., Crafton, Pa. Electromagnetic element. 1,648,460; Nov. 8.
- Miller Rubber Company, The. (See Balch, Burdge M., assignor.)
- Miller Rubber Company, The. (See Brundage, James W., assignor.)
- Miller Rubber Company, The. (See Bulley, George W., assignor.)
- Miller Rubber Company, The. (See Collins, Arthur, assignor.)

- Miller Rubber Company, The. (See Fenton, Frank, assignor.)
- Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)
- Miller Rubber Company, The. (See Hensel, Winfield L., assignor.)
- Miller Rubber Company, The. (See Lehr, John, assignor.)
- Miller Rubber Company, The. (See Steele, Charles W., assignor.)
- Miller Rubber Company, The. (See Steele, C. W., and Griffiths, assignors.)
- Miller Rubber Company. (See Warner, Raymond M., assignor.)
- Miller Rubber Company, The. (See Weimer, Roy B., assignor.)
- Miller Safe Company. (See Le Compte, O. P., and Cahn, assignors.)
- Miller, Samuel C., Louisville, Ky. Bottle. Des. 73,096; July 19.
- Miller, Samuel L., Chicago, Ill. Contact device. 1,632,709; June 14.
- Miller Saw-Trimmer Company. (See Belluche, Frank R., assignor.)
- Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
- Miller, Theodore A. (See Fletcher, A. J., and Miller.)
- Miller, Theodore T. (See Dewey, B., and Miller.)
- Miller, Thomas D., Clarksville, Md. Shingle. 1,645,767; Oct. 18.
- Miller, Thomas S., South Orange, N. J. Winding engine. 1,621,554; Mar. 22.
- Miller, Thomas S., South Orange, N. J. Engine. 1,634,912; July 5.
- Miller, Thomas W., Ashland, Ohio. Golf ball and making the same. 1,622,601; Mar. 29.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Vulcanizing rubber and the like. 1,617,411; Feb. 15.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Pencil holder. 1,647,536; Nov. 1.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Ornamented rubber article. 1,649,770; Nov. 15.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Toy. 1,651,980; Dec. 6.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Toy. 1,651,982; Dec. 6.
- Miller, Turner, Fayetteville, Ark. Oiling device. 1,632,741; June 14.
- Miller, Wallace W., Steubenville, Ohio. Heating apparatus. 1,635,379; July 12.
- Miller, Walter E., assignor to Silmo Chemical Company, Inc., Vineland, N. J. Producing fish-oil powder. 1,622,390; Mar. 29.
- Miller, Walter M., Cedar Falls, assignor to M. Miller, Des Moines, Iowa. Fluid-delivery-controlling means. 1,616,634; Feb. 8.
- Miller, Walter M., Cedar Falls, Iowa. Piston-valve oiler. 1,650,291; Nov. 22.
- Miller, William, Blair, Nebr. Boat. 1,635,854; July 12.
- Miller, William, Portland, Ore. Dental floss holder. 1,644,390; Oct. 4.
- Miller, William, Manchester, England. Apparatus for storing or storing and filing tailors' patterns and the like. 1,652,450; Dec. 13.
- Miller, William A., Pittsburgh, Pa. Silica-brick gun. 1,617,959; Feb. 15.
- Miller, William A., Pittsburgh, Pa. Intermittent grip mechanism for rotary converter. 1,627,046; May 3.
- Miller, William C., assignor to The Interstate Folding Box Company, Middletown, Ohio. Paper folding box. 1,614,205; Jan. 11.
- Miller, William E., Mullan, Idaho, assignor to Miller Beauty Mirror Company. Adjustable mirror. 1,633,120; June 21.
- Miller, William G., assignor to The R. C. Mahon Company, Detroit, Mich. Elevator door. 1,624,964; Apr. 19.
- Miller, William J. (See Cary, W. E., and Miller.)
- Miller, William J. (See Perkins, Charles W., assignor.)
- Miller, William J., Saginaw, Mich. Truck. 1,621,555; Mar. 22.
- Miller, William J., assignor of one-third to G. E. Creed, Logansport, Ind. Nailing machine. 1,613,473; Jan. 4.
- Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for producing mold charges of molten glass. 1,621,426; Mar. 15.
- Miller, William J., Swissvale Borough, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Process and apparatus for feeding glass. 1,628,324; May 10.
- Miller, William J., Swissvale Borough, assignor, by mesne assignments, to William J. Miller, Inc., Swissvale, Pa. Glass-fabricating apparatus. 1,626,455; May 17.
- Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for producing mold charges of molten glass. 1,642,966; Sept. 20.
- Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for producing mold charges of molten glass. 1,642,967; Sept. 20.
- Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for producing mold charges of molten glass. 1,642,968; Sept. 20.
- Miller, William J., Swissvale Borough, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding glass. 1,651,036; Nov. 23.
- Miller, William J., Inc. (See Miller, William J., assignor.)
- Miller, William L., St. Paul, Minn. Radio tuning device. 1,631,380; June 7.
- Miller, William L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Apparatus for forming tungsten filaments. 1,638,868; Aug. 16.
- Miller, William O., Detroit, Mich. Wind and tide motor. 1,647,461; Nov. 1.
- Miller, William R., Medford, and I. Gordon, Malden, Mass. Connecting link. 1,633,539; June 21.
- Miller, William R. H., et al. (See Dobbins, George R., assignor.)
- Miller, William W., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Strain relief for terminal connections of electrical devices. 1,646,098; Oct. 18.
- Millbolland, James H., assignor to John S. Clement Company, Inc., Philadelphia, Pa. Floor waxer. 1,638,500; Aug. 9.
- Millice, Paul S., Hamilton, Ohio, assignor to Herring-Hall-Marvin Safe Company, New York, N. Y. Safe vault. 1,642,522; Sept. 18.
- Millice, Paul S., Hamilton, Ohio, assignor to Herring-Hall-Marvin Safe Company, New York, N. Y. Combination-lock mechanism. 1,644,650; Oct. 4.
- Millie Patent Holding Co. Inc. (See Allatt, Thomas, assignor.)
- Millie, Frank A. and J. A. Los Angeles, Calif. Process of and apparatus for refining petroleum. 1,620,163; Mar. 8.
- Millie, Frank A. and J. A., Los Angeles, Calif. Adjustable weir. 1,620,164; Mar. 8.
- Millie, Frank A. and J. A., Los Angeles, Calif. Vaporizer. 1,644,937; Oct. 11.
- Millie, John A. (See Millie, Frank A. and J. A.)
- Milligan, Andrew J., Hoopston, Ill. Broom holder. 1,637,782; Aug. 2.
- Milligan, Archibald, Hamilton, Ontario, Canada, assignor to Skelton Shovel Co. Inc. Making shovels. 1,616,273; Feb. 1.
- Milligan, Charles H., Wyoming, Ohio. Recovery of sodium compounds from waste sulphite liquors. 1,652,725; Dec. 13.
- Milligan, George R., E. Los Angeles, Calif. Pad for vernia trussel. 1,650,641; Nov. 29.
- Milligan, John F. (See Christianson, A. W., and Milligan.)
- Milligan, Lowell H., and C. H. Quick, assignors to Norton Company, Worcester, Mass. Abrasive article and manufacturing the same. 1,635,981; July 12.
- Milligan, Robert, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tube-splicing mandrel. 1,616,981; Feb. 8.
- Milligan, Seaton K., assignor to Amalgamated Roofing Company, Chicago, Ill. Roofing. 1,629,287; May 17.
- Milliken, John A., Ambler, Pa., assignor to J. E. Marsden, Atlantic City, N. J. Glass-cutting machine. Re16,550; Feb. 15.
- Milliken, John A., Ambler, assignor to J. E. Marsden, Philadelphia, Pa. Method of and apparatus for severing plastic material. 1,617,891; Feb. 15.
- Milliken, John A., Ambler, assignor to J. E. Marsden, Philadelphia, Pa. Glass-grinding machine. 1,635,491; July 12.
- Milliken, John A., Egg Harbor City, N. J., assignor to J. E. Marsden, Mount Airy, Philadelphia, Pa. Glass-cutting machine. 1,650,375; Nov. 29.
- Mills, Linn W., Kansas City, Mo. Heater. 1,634,265; July 5.
- Mills, B. A., Fort Worth, Tex. Automatic liner safety. 1,642,590; Sept. 13.
- Mills, Bertie E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Controlling tension and tremolo effects. 1,621,125; Mar. 15.
- Mills, Bertie E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Tremolo device. 1,621,126; Mar. 15.
- Mills, Chester B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electromagnetic power-transmitting means. 1,633,454; June 21.
- Mills, Clarence A., assignor to The William S. Merrell Company, Cincinnati, Ohio. Blood-coagulation medium. Re16,639; May 31.
- Mills, Edward, assignor to Whitin Machine Works, Whitinsville, Mass. Attachment for cotton lappers. 1,628,797; May 17.
- Mills, Ernest R., and C. J. Hazelton, Worcester, Mass. Making fabric for corsets, bandeaux, brassieres, and the like. 1,617,604; Feb. 15.

- Mills, Fred L., Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill. Vending-machine casing. Des. 73,753; Nov. 1.
- Mills, Fred L., Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill. Fortune-telling-machine casing. Des. 73,754; Nov. 1.
- Mills, Fred L., assignor to Mills Novelty Company, Chicago, Ill. Combined vending machine and game. 1,650,026; Nov. 22.
- Mills, Henry C., Cleveland, Ohio. Sash frame. 1,621,332; Mar. 15.
- Mills, Herbert, San Antonio, Tex. Railway crossing. 1,627,800; May 10.
- Mills, Herbert E. (See Herwig, C., Jr., and Mills.)
- Mills, Herbert S., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Tremolo device for viol machines. 1,621,127; Mar. 15.
- Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave-transmission circuit. 1,613,240; Jan. 4.
- Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System for location of a source of sound vibrations. 1,628,992; May 17.
- Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording and reproducing system. 1,647,242; Nov. 1.
- Mills, John A., Lancaster, Tex. Agricultural implement. 1,621,933; Mar. 22.
- Mills, John, and K. R. Tiskilwa, Ill. Garment fastener. 1,612,935; Jan. 4.
- Mills, Joseph, Coalhurst, Alberta, Canada. Pump. 1,619,149; Mar. 1.
- Mills, Kate B. (See Mills, John M. and K. R.)
- Mills, Louis D., Redwood City, and T. B. Crowe, Palo Alto, assignors to The Merrill Company, San Francisco, Calif. Apparatus for precipitating and filtering. 1,634,720; July 5.
- Mills, Mortimer B., Chicago, Ill. Toy race course. 1,626,420; Apr. 26.
- Mills Novelty Company. (See Mills, Bertie E., assignor.)
- Mills Novelty Company. (See Mills, Fred L., assignor.)
- Mills, Oscar L., Los Angeles, Calif. Welding rod. 1,650,995; Nov. 29.
- Mills, Ralph H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective signaling circuits. 1,616,192; Feb. 1.
- Mills, Robert W., Benton Harbor, Mich. Hammer or the like. 1,628,897; May 17.
- Mills, Ronald V. A., Sandy Spring, Md., assignor to P. Q. Nyce, Washington, D. C. Electrochemical method for preventing corrosion. 1,646,735; Oct. 25.
- Mills, Ronald V. A., Sandy Spring, Md., assignor to P. Q. Nyce, Washington, D. C. Electrochemical means for preventing corrosion. 1,646,736; Oct. 25.
- Mills, Roy, Clarksville, Tenn. Stave-jointing machine. 1,645,920; Oct. 18.
- Mills, Thomas R., Washington, D. C. Average-speed-recording means for railway trains. 1,627,522; May 3.
- Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Receptacle closure. 1,620,825; Mar. 15.
- Mills, William, Painesville, Ohio. Cultivator. 1,648,738; Nov. 8.
- Mills, William L. (See Pratt, L. S., Wetz, and Mills.)
- Mills, William W., Compton, Calif. Drilling bit. 1,645,962; Oct. 18.
- Millsap, David L., Powersville, Mo. Gambrel. 1,636,751; July 26.
- Millsbaugh, William H., assignor to The Paper and Textile Machinery Co., Sandusky, Ohio. Breast roll for paper machines and the like. 1,653,817; Dec. 27.
- Millville Manufacturing Company. (See Jones, Aaron R., assignor.)
- Millville Manufacturing Company. (See Skedgell, David E., assignor.)
- Millward, George, Marquette, Mich. Automobile ladder. 1,629,377; Mar. 8.
- Milmo, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Folding and filling mechanism for wrapping machines. 1,621,516; Mar. 22.
- Milmo, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Blank-feeding mechanism. 1,627,920; May 10.
- Milmo, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Apparatus for assembling articles to be packed. 1,628,596; May 10.
- Milne, William, Barre, Vt. Stone-polishing wheel. 1,651,217; Nov. 29.
- Milson, Charles E. (See Milson, John R., assignor.)
- Milson, John R., Mansfield, Mass., assignor to one-fourth to C. E. Milson, Providence, R. I. Oiler for spinning machines. 1,625,488; Apr. 19.
- Milton, George E. (See Turner, C. E., and Milton.)
- Milton, Ivan L., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Adjusting electrical inductances. 1,615,130; Jan. 18.
- Milton, John L., Louisville, Ky. Air cleaner and humidifier. 1,616,593; Feb. 8.
- Milton, John L., Louisville, Ky. Internal-combustion-engine equipment. 1,616,594; Feb. 8.
- Milton, John L., Louisville, Ky. Oscillating device. 1,625,132; Apr. 19.
- Milton, Melvin L., Denver, Colo. Submerged pumping unit. 1,624,423; Apr. 12.
- Milton, Robert L., St. Paul, Minn. Automatic brake control. 1,646,306; Oct. 18.
- Milwaukee Air Power Pump Company. (See Rogers, Homer S., assignor.)
- Milwaukee Manufacturing Company. (See Van Ewyck, William F., assignor.)
- Milwaukee Gas Specialty Company. (See Claus, Emil L., and W. E., assignors.)
- Milwaukee Gas Specialty Company. (See Leins, Oscar J., assignor.)
- Milwaukee Gas Specialty Company. (See Spahr, Otto, assignor.)
- Mims, Charley C. (See Akers, E., Mims, Moutray, and Miller.)
- Minneff, Michael G., New York, assignor, by mesne assignments, to The Larver Corporation, Brooklyn, N. Y. Mothproofing composition. 1,634,791; July 5.
- Minaeff, Michael G., New York, assignor, by mesne assignments, to The Larver Corporation, Brooklyn, N. Y. Mothproofing composition. 1,634,792; July 5.
- Minaeff, Michael G., assignor, by mesne assignments, to The Larver Corporation, Brooklyn, N. Y. Mothproofing. 1,634,793; July 5.
- Minaeff, Michael G., and A. P. Sachs, New York, assignors, by mesne assignments, to The Larver Corporation, Brooklyn, N. Y. Mothproofing. 1,634,790; July 5.
- Minneff, Michael G., Brooklyn, and A. P. Sachs, New York, assignors, by mesne assignments, to The Larver Corporation, Brooklyn, N. Y. Mothproofed articles. 1,634,794; July 5.
- Minard, Ernest E., Detroit, Mich. Shade guide. 1,632,742; June 14.
- Minard, Ernest E., Detroit, Mich. Feed collet. 1,646,925; Oct. 25.
- Minard, Ernest E., Detroit, Mich. Collet. 1,646,926; Oct. 25.
- Minch, Walter B., Jackson, assignor to General Motors Corporation, Detroit, Mich. Wheel. 1,623,355; Apr. 5.
- Miner, Joseph P., Milwaukee, Wis., assignor to The Fish Rubber Company, Chicopee Falls, Mass. Vulcanizing apparatus. 1,621,595; Mar. 12.
- Minck, Paul, Petersdorf, Germany. Electrically-driven spinning centrifugal apparatus. 1,641,091; Aug. 30.
- Mindlin, Samuel, New York, N. Y. Recorder for dial telephones. 1,647,142; Nov. 1.
- Mine Appliances Company. (See Shanaberger, Carl V., assignor.)
- Mine Safety Appliances Company. (See McCaa, George S., assignor.)
- Miner, Carl S., assignor to The Quaker Oats Company, Chicago, Ill. Synthetic perfume. 1,617,412; Feb. 15.
- Miner, Carl S., Glencoe, and G. Steerup, Chicago, Ill., assignors to The Quaker Oats Company, Chicago, Ill. Producing feed stuff. 1,627,921; May 10.
- Miner, Carl S., and O. C. Stanger, Chicago, assignors to Moorman Mfg. Co., Quincy, Ill. Alimentary product. 1,649,123; Nov. 15.
- Miner, Claude G., Berkeley, Calif. Producing phosphorous nitride and certain readily-volatile halides. 1,634,795; July 5.
- Miner, Claude G., Berkeley, Calif. Continuously producing phosphorous nitride and certain halides from raw materials. 1,634,796; July 5.
- Miner, Claude G., Berkeley, assignor, by mesne assignments, to Anglo-California Trust Company, trustee, San Francisco, Calif. Production of metallic magnesium and fixed nitrogen. 1,631,544; June 7.
- Miner, Daniel P. (See Pribe, E. B., and Miner.)
- Miner, Edward G. (See Smith, A. H., and Miner.)
- Miner, Harry G. (See Jenney, T., and Miner.)
- Miner, Robert S., West Hartford, Conn., assignor, by mesne assignments, of one-half to The C. D. Miner Company. Circuit system for radio frequency currents. 1,630,859; May 31.
- Miner, W. H., Inc. (See Brenne, Arild M., assignor.)
- Miner, W. H., Inc. (See Dath, Charles E., assignor.)
- Miner, W. H., Inc. (See Dentler, Arnold E., assignor.)
- Miner, W. H., Inc. (See Dorey, George B., assignor.)
- Miner, W. H., Inc. (See Geiger, William A., assignor.)
- Miner, W. H., Inc. (See Harris, Joseph, assignor.)
- Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
- Miner, W. H., Inc. (See Johnson, George A., assignor.)
- Miner, W. H., Inc. (See Lewis, Wilbur S., assignor.)
- Miner, W. H., Inc. (See O'Connor, John F., assignor.)
- Miner, W. H., Inc. (See Williams, Keith, assignor.)
- Miner, W. H., Inc. (See Withall, Albert P., assignor.)
- Miner, William E. (See Dietrich, Frank and J., and Miner.)
- Minerals Separation North American Corporation. (See Keller, Cornelius H., assignor.)
- Minerals Separation North American Corporation. (See Stephens, Rudolph R., assignor.)
- Minnett, Wilfrid T. (See Barclay, W. R., and Minnett.)
- Minnett, Wilfrid T. (See Goudbourn, J., and Minnett.)
- Minich, Frank W., Port Washington, N. Y. Tilting-sash window. 1,621,851; Mar. 22.
- Minich, Ernie E., assignor to The American Foundry Equipment Company, New York, N. Y. Apparatus for cutting and mixing sand. 1,632,746; June 14.

- Milneh, Verne E., New York, N. Y., and R. H. Moore, Chicago, Ill. assignors to The American Foundry Equipment Company, New York, N. Y. Sand-treating machine. 1,647,243; Nov. 1.
- Minier, William, Milo Township, Ill. Yieldable coupling. 1,629,041; May 17.
- Minimax Utilities Corporation. (See Routson, Howard)
- Minister, Herbert F., Fernwood, Idaho. Swivel. 1,616,325; Feb. 1.
- Minneapolis Dredging Co. (See Casey, Vasco F., assignor.)
- Minneapolis Heat Regulator Company. (See Denison, Frederick S., assignor.)
- Minneapolis Knitting Works. (See Rambo, James H., assignor.)
- Minnesota Mining & Manufacturing Company. (See Olie, Francis G., assignor.)
- Minnesota Specialty Company, The. (See Wulging, Daniel T., assignor.)
- Minnesota Wax Paper & Envelope Co. (See Nienhauser, Bernard A., assignor.)
- Minnich, Harry E., Three Oaks, Mich. Exercising device. 1,620,910; Mar. 15.
- Minnich, Walter, Montreux, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Preparation of solutions of compounds insoluble or sparingly soluble in water. 1,632,306; June 14.
- Minnick, Howard W., McKeesport, Pa. Ash-spraying apparatus. 1,617,921; Feb. 15.
- Minnier, Elveth J., and C. A. Campbell, Watertown, N. Y., said Campbell assignor to The New York Air Brake Company. Triple valve. 1,621,944; Mar. 22.
- Minnis, Henry M., assignor of one-third to E. A. Thomas and one-third to J. H. Finch, Wylie, Tex. Valve-actuating means for fire-extinguishing systems. 1,618,462; Feb. 22.
- Minnis, Henry M., assignor of one-third to E. A. Thomas and one-third to J. H. Finch, Wylie, Tex. Automatic fire-sprinkler system. 1,637,621; Aug. 2.
- Minoff, Charles L., Brooklyn, N. Y. Electric lamp. Des. 1,615,845; Feb. 22.
- Minogue, Roland E., assignor of one-third to H. Vanderwerp, Manitowoc, Wis. Agitator. 1,633,708; June 28.
- Minor, Edward M., Los Angeles, Calif., assignor, by mesne assignments, of forty-nine per cent to W. B. Rardin, Elmwood, Ohio. Garment hanger. 1,618,886; Feb. 22.
- Minsky, Nicolas, Philadelphia, Pa., assignor to General Electric Company. System of motor control. 1,633,822; June 28.
- Mintel, William F., Pawtucket, R. I., assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. 1,651,384; Nov. 29.
- Minto, Fred, Edmonton, Alberta, Canada. Coin receptacle. 1,644,539; Oct. 4.
- Minton, Gustave M., Jr., New York, N. Y. Perfume atomizer. Des. 73,535; Sept. 27.
- Minton, Ogden, Greenwich, Conn. Vacuum seal and apparatus. 1,633,121; June 21.
- Minton, Richard C., East Boston, assignor to A. Reyrolle & Company Limited, Highbury-on-Tyne, England. Switching arrangement for electric substations. 1,633,490; June 21.
- Minty, Robert F., Montreal, Quebec, Canada. Hair waver. 1,646,162; Jan. 18.
- Minunno, Saverio, New York, N. Y. Hand fan. 1,632,556; June 14.
- Minuth, Gustave W., assignor to M. I. Heldman, Chicago, Ill. Vacuum cleaner. 1,621,596; Mar. 22.
- Minuth, Wilhelm G., Celle, Germany. Sinking shaft and boreholes. 1,636,313; July 19.
- Minutello, Francesco, New York, N. Y. Auxiliary motor-drive mechanism for player pianos. 1,620,484; Mar. 8.
- Mioliati, Arturo, Padova, assignor to Rene Leprestre, Rome, Italy. Peroxide of lead, zinc, and sulphuric-acid accumulators. 1,632,307; June 14.
- Miotke, Joseph, Milwaukee, Wis. Digging device. Des. 73,777; Dec. 27.
- Miozza, Umberto, Washington, D. C. Electric barber's scissors. 1,614,379; Jan. 11.
- Mirande, Frank A., San Leandro, Calif. Automobile clutch lock. 1,635,797; July 12.
- Mirand, Joseph C., Baton Rouge, La. Pneumatic-tire armor. 1,622,161; Mar. 22.
- Mires, Alfred C. (See Davies, G., and Mires.)
- Mirgon, Frank J., San Francisco, Calif. Razor-hone holder. 1,634,881; July 5.
- Mirkin, Max, New York, N. Y. Bathtub. 1,650,720; Nov. 29.
- Mironuck, Andrew, Max, N. Dak. Grain sifter. 1,623,356; Apr. 5.
- Mirosav, Samuel J., Dallas, Tex. Saving bank. 1,638,404; Aug. 9.
- Mirra, Albert, Paris, France. Linking device. 1,642,969; Sept. 20.
- Mirrey, James. (See Coates, F., and Mirrey.)
- Mirskel, Aaron J., New York, N. Y. Manifold record book. Des. 73,156; July 26.
- Mirzan, Richard A., Syracuse, N. Y. Anchoring bolts. 1,623,880; May 24.
- Miscampbell, Hugh, Duluth, Minn. Hydrator. 1,641,347; Sept. 6.
- Miscampbell, Hugh, Duluth, Minn. Dust collector. 1,650,292; Nov. 22.
- Misch, Augustus, New York, N. Y. Oil burner. 1,616,916; Feb. 8.
- Misch, Augustus, New York, N. Y. Oil burner. 1,639,744; Aug. 23.
- Misch, Gustav. (See Newsham, A. S., Viersen, and Misch.)
- Mische, Frank and K. Roschitsch, Cleveland, Ohio. Buffer or bumper for automobiles. 1,638,501; Aug. 9.
- Misener & Irving Manufacturing Co. Inc. (See Misener, John I., assignor.)
- Misener, John I., assignor to Misener & Irving Manufacturing Co. Inc., Syracuse, N. Y. Woodworking tool. 1,615,818; Jan. 25.
- Mishawaka Rubber and Woolen Manufacturing Company. (See Blair, George W., assignor.)
- Mishawaka Rubber and Woolen Manufacturing Company. (See Ferrettie, Conrad, assignor.)
- Miskin, Arthur R., Ucon, Idaho. Road scraper. 1,627,857; May 10.
- Mislowitzer, Ernst, Berlin, Germany. Apparatus for measuring ion concentration. 1,648,739; Nov. 8.
- Misner, Lawrence, Hoboken, N. J., assignor to Gurney Elevator Company, Inc., Honesdale, Pa. Elevator-guide lubricator. 1,614,844; Jan. 18.
- Mitchell, Glass Company. (See Kingsley, Charles B., assignor.)
- Mistretta, Antonio, New York, N. Y. Trimming device for embroidery machines. 1,620,378; Mar. 8.
- Mitcham, Eldon H., Chariton, Iowa. Rotary-valve structure. 1,635,880; July 12.
- Mitchell, Charles B., Tacoma, Wash. Cord holder. 1,645,250; Oct. 11.
- Mitchell, Alfred H., deceased, Plumstead, by H. O. Burge, executor, Brentwood, assignor to Henry Simon Limited, Manchester, England. Pneumatic elevator. 1,624,424; Apr. 12.
- Mitchell, Amos, Kirksville, Mo. Metallic railway tie. 1,620,730; Mar. 15.
- Mitchell, Arthur L., Dallas, Tex. Automatic drain device. 1,630,623; May 31.
- Mitchell, Arthur L., Dallas, Tex. Two-way drain valve. Des. 73,444; Aug. 23.
- Mitchell, Arthur M., Washington, Conn. Cleansing milking-machine units. 1,613,185; Jan. 4.
- Mitchell, Benjamin A. (See Kyle, G. R., and Mitchell.)
- Mitchell, Benjamin A., Tompkinsville, N. Y. Vibrating screen. 1,645,613; Oct. 18.
- Mitchell Camera Corporation. (See Mitchell, G. A., assignor.)
- Mitchell Camera Corporation. (See Mitchell, George A., assignor.)
- Mitchell, Charlie B., Los Angeles, Calif. Direction signal for motor vehicles. 1,620,379; Mar. 8.
- Mitchell, Charlie B., Los Angeles, Calif. Door-holding device. 1,626,007; Apr. 26.
- Mitchell, Clarence C. (See Gregory, B., and Mitchell.)
- Mitchell, Clifford E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone transmitter. 1,647,244; Nov. 1.
- Mitchel, David W., Chicago, Ill. Book soap. 1,648,778; Nov. 8.
- Mitchell, David W., and G. O. Robinson, Port Dover, Toronto, Ontario, Canada. Cone-making machine. 1,639,097; Aug. 16.
- Mitchell, David W., Quincy, Ill. Trap nest and front therefor. 1,637,005; July 26.
- Mitchell, Edward J. (See Mitchell, Mark M., assignor.)
- Mitchell, Edwin C., Greenville, Pa. Hopper-car door-operating device. 1,627,801; May 10.
- Mitchell, Floyd A., Portland, Oreg. Tool for removing collars and the like. Rec'd. 6,646; May 31.
- Mitchell, Frank B., Regina, Saskatchewan, Canada. Revolving store fixture. 1,635,334; July 12.
- Mitchell, Frank P., Wilmington, Ill. Pocket attachment for belts. 1,629,404; May 17.
- Mitchell, Frederick G., London, England. (See Dempsey, Thomas.)
- Mitchell, Frederick G., London, England. Unloading apparatus for railway cars. 1,628,732; May 17.
- Mitchell, Frederick W., Cleveland, Ohio. Pump for elevating and dispensing liquids. 1,629,115; May 17.
- Mitchell, G. F., & Son. (See Mitchell, Harry W., assignor.)
- Mitchell, George A., Los Angeles, Calif., assignor to Mitchell Camera Corporation. Focusing instrument for cameras and the like. 1,637,529; Aug. 2.
- Mitchell, George A., assignor to Mitchell Camera Corporation, Los Angeles, Calif. Movement mechanism for cameras and the like. 1,648,559; Nov. 8.
- Mitchell, George A., Huntington Park, assignor to Mitchell Camera Corporation, Los Angeles, Calif. Viewing device for cameras. 1,648,829; Oct. 25.
- Mitchell, George F., Washington, D. C. Radio receiver attachment for telephones. 1,622,335; Mar. 29.
- Mitchell, George L. (See Scott, Louis R., assignor.)
- Mitchell, George W. (See Marshall, Andrew J., assignor.)
- Mitchell, Harry G., Baltimore, Md., assignor to U. S. Industrial Alcohol Co., Manufacture of alkyl carbamate. 1,638,014; Aug. 9.
- Mitchell, Harry W., assignor to G. F. Mitchell & Son, Cleveland, Ohio. Washing machine. 1,629,958; May 24.
- Mitchell, Harry W., assignor to G. F. Mitchell & Son, Cleveland, Ohio. Washer drive mechanism. 1,632,091; June 14.

- Mitchell, Harry W., assignor to G. F. Mitchell & Son, Cleveland, Ohio. Fluid-tight closure member for washer drums. 1,636,192; July 19.
- Mitchell, Harry W., assignor to G. F. Mitchell & Son, Cleveland, Ohio. Washing machine. 1,646,972; Oct. 25.
- Mitchell, John, and J. C. G. Cossey, London, England. Removable bolt head. 1,621,162; Mar. 22.
- Mitchell, John, and J. C. G. Cossey, London, England. Brake-slack adjuster for vehicles. 1,624,752; Apr. 12.
- Mitchell, John A., Newark, N. J., and L. J. Zahn, Long Island City, assignors to International Postal Supply Company, Brooklyn, N. Y. Automatic inker for mail-marking machines. 1,612,936; Jan. 4.
- Mitchell, John A., Newark, N. J., and L. J. Zahn, Long Island City, assignors to International Postal Supply Company, Brooklyn, N. Y. Moistener and sealer device. 1,621,078; Mar. 15.
- Mitchell, John E., St. Louis, Mo. Refrigerating system for water-cooling apparatus. 1,612,241; Jan. 4.
- Mitchell, John E., St. Louis, Mo. Cotton cleaning and reclaiming machine. 1,613,242; Jan. 4.
- Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. 1,640,420; Aug. 30.
- Mitchell, John G. (See Heeney, J. P., and Mitchell.)
- Mitchell, John H., Habana, Cuba. Composition, paper or pulp board and making the same. 1,648,237; Nov. 8.
- Mitchell, John S., Minneapolis, Minn. Cuff link. 1,616,699; Feb. 8.
- Mitchell, Jonas, Washington, D. C. Detachable ladder for railway cars. 1,626,145; Apr. 26.
- Mitchell, Joseph I. (See Mitchell, C. C., and Mitchell.)
- Mitchell, Joseph S., Chicago, Ill. assignor to Sullivan Machinery Company. Core drill. 1,634,506; July 5.
- Mitchell, Joseph S., Chicago, Ill. assignor to Sullivan Machinery Company. Core drill. 1,654,223; Dec. 27.
- Mitchell, Julie M., Denver, Colo. Radiator cap. Des. 72,562; May 3.
- Mitchell, Julius, Cleveland, Ohio. Pencil. 1,621,945; Mar. 22.
- Mitchell, Leon W., assignor to Rock Island Stove Co., Rock Island, Ill. Heating stove. Des. 73,799; Nov. 8.
- Mitchell, Lewis J., (See Haas, C. H., and Mitchell.)
- Mitchell, Lewis J., Warren, Ohio. Water heater or boiler. 1,640,284; Aug. 23.
- Mitchell, Lorin E., and A. J. White, East Cleveland, Ohio, assignors to General Electric Company. Vacuum tube. 1,632,615; June 14.
- Mitchell Machine Company. (See Mitchell, R. J., Babbitt, and Alderman, assignors.)
- Mitchell Manufacturing Company. (See Mitchell, William, assignor.)
- Mitchell, Marion W., Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio. Conveyor. 1,647,870; Nov. 1.
- Mitchell, Mark M., assignor to E. J. Mitchell, Cleveland, Ohio. Belt fastener. 1,614,751; Jan. 18.
- Mitchell, Raymond H. (See Sager, L. R., and Mitchell.)
- Mitchell, Raymond P., Danville, Va. Electrically-heated windshield wiper. 1,642,756; Sept. 26.
- Mitchell, Reginald J., assignor to The Supermarine Aviation Works Limited, Southampton, England. Flying boat and like aircraft. 1,642,686; Sept. 20.
- Mitchell, Robert B., Hillsdale, Mich. Dishwashing machine. 1,617,021; Feb. 8.
- Mitchell, Robert B., assignor to Union Steel Products Company, Albion, Mich. Display rack. 1,612,937; Jan. 4.
- Mitchell, Robert C. (See Irvin, Russe J., assignor.)
- Mitchell, Robert C., Mount Vernon, N. Y. Smoker's stand. 1,646,099; Oct. 18.
- Mitchell, Robert, Company Limited, The. (See Holland, St. Clair C., assignor.)
- Mitchell, Robert J., Baltimore, Md., Z. B. Babbitt, and Z. W. Alderman, assignors, by mesne assignments, to Mitchell Machine Company, Washington, D. C. Mailing-distributing machine. 1,618,303; Feb. 22.
- Mitchell, Robert M. (See Johnson, A. L., and Mitchell.)
- Mitchell, Robert M., assignor to International Harvester Company, Chicago, Ill. Separating mechanism for corn shellers and the like. 1,651,037; Nov. 29.
- Mitchell, Sidney W., J. Naud, and C. F. Goldman, St. Petersburg, Fla. Dog race track. 1,619,150; Mar. 1.
- Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Treating alcohol. 1,623,174; May 10.
- Mitchell, W. C., et al. (See Boone, D. C., and Burkett, assignors.)
- Mitchell, Walter A., Dundee, Scotland. Chain roller bearing and the like. 1,615,809; Jan. 25.
- Mitchell, Walter C., St. Louis, Mo. Smoke consumer. 1,620,826; Mar. 15.
- Mitchell, Walter E., Seattle, Wash. Short-turn device for motor vehicles. 1,632,665; June 14.
- Mitchell, Walter J. (See Bjørke, Peter O., assignor.)
- Mitchell, Walter L., Newark, N. J. assignor to Tiffany & Company, New York, N. Y. Silver alloy and making same. 1,614,752; Jan. 15.
- Mitchell, William, assignor to Mitchell Manufacturing Company, Milwaukee, Wis. Swing bob. 1,642,740; Sept. 20.
- Mitchell, William A., Denison, Tex. Friction draft gear. 1,644,391; Oct. 4.
- Mitchell, William A., Denison, Tex., assignor to Universal Draft and Attach Co., Chicago, Ill. Railway truck. 1,639,348; Aug. 16.
- Mitchell, William E., Anderson, Mo. Indicating device for gasoline tanks. 1,636,752; July 26.
- Mitchell, William F., Passaic, N. J. Locomotive lubricator sight. 1,640,512; Aug. 30.
- Mitchell, William M., Grenada, Miss. Speed-change mechanism. 1,623,695; Apr. 5.
- Mitkewich, Wiadimir W., Brooklyn, assignor of thirty-three and one-third per cent to R. Vitale and thirty-three and one-third per cent to D. A. Rodionoff, New York, N. Y. Air writing with searchlight beams. 1,638,051; Aug. 9.
- Mitnick, Jacob J., and J. L. Silverstine, Chicago, Ill. Hub cap. 1,621,556; Mar. 22.
- Mittag, Paul T., Los Angeles, Calif. Exercising cot. 1,643,583; Sept. 6.
- Mittelland Gummiwerke Aktiengesellschaft. (See Hergershausen, Katharina, assignor.)
- Mittendorf, William R., Cincinnati, assignor, by mesne assignments, to The Watson Experimental Laboratory Company, Dayton, Ohio. Computing scale. 1,650,224; Nov. 22.
- Mittendorf, William R., Cincinnati, assignor, by mesne assignments to The Watson Experimental Laboratory Company, Dayton, Ohio. Computing scale. 1,650,225; Nov. 22.
- Mittendorf, William R., Cincinnati, assignor, by mesne assignments to The Watson Experimental Laboratory Company, Dayton, Ohio. Computing scale. 1,650,226; Nov. 22.
- Mittendorf, William R., Cincinnati, assignor to The Watson Experimental Laboratory Company, Dayton, Ohio. Calculating scale. 1,650,227; Nov. 22.
- Mittendorf, William R., Cincinnati, assignor to the Watson Experimental Laboratory Company, Dayton, Ohio. Computing scale. 1,650,225; Nov. 22.
- Mittlinger, George, E., Cleveland, Ohio. Metal keg. 1,648,859; Nov. 8.
- Mitton, Robert E., Salt Lake City, Utah. Diaphragm valve. 1,623,126; Apr. 5.
- Mitton, Robert E., Salt Lake City, Utah. Valve. 1,626,045; Apr. 26.
- Mitton, Robert E., Salt Lake City, Utah. Piston valve for the control of fluids. 1,638,405; Aug. 9.
- Mitton, Robert E., Salt Lake City, Utah. Cylinder air compressor. 1,653,920; Dec. 27.
- Mits & Merrill. (See Mits, Philip S., assignor.)
- Mitts, Philip S., assignor to Mits & Merrill, Saginaw, Mich. Cutting machine. 1,618,048; Jan. 4.
- Mitsulski, John B., Detroit, Mich. Automatic water feed for hot-air-furnace humidors. 1,652,451; Dec. 13.
- Mix, Edwin S. (See Beck, A. H., and Mix.)
- Mix, Edwin S., Rochester, N. Y. assignor to Hickok Manufacturing Company, Inc. Belt buckle. 1,635,135; July 5.
- Mix, Edwin S., Rochester, N. Y. assignor to Hickok Manufacturing Company, Inc. Belt and loop fastener used in connection with the same. 1,644,845; Oct. 11.
- Mix, Gustave B. (See Lough, H. V., and Mix.)
- Mix, William J. (See Mueller, R. H., and Mix.)
- Miyasaka, Yuske, Kansas City, Mo. Hand-brake mechanism for railway cars. 1,624,425; Apr. 12.
- Miyasaka, Yuske, Kansas City, Mo. Hand-brake mechanism for railroad cars. 1,652,576; Dec. 13.
- Mizer, Fred N., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Low-speed governor for spring motors and the like. 1,631,324; June 7.
- Mjolsness, Haakon, Chaffee, N. Dak. Grain separator. 1,625,088; Apr. 19.
- Miecoch, Thomas V., St. Cloud, Minn. Vegetable slicer. 1,645,113; Oct. 11.
- Moan, Thomas Y., Belvidere, Ill. Headlight control. 1,620,675; Mar. 15.
- Moats, Allen A., Philadelphia, Pa. Curtain-draping device. 1,637,704; Aug. 2.
- Moats, De Witt T., Columbus, Ohio. Attaching means. 1,627,802; May 10.
- Mobley, Arthur M., Hawkinsville, Ga. Antirattler. 1,614,845; Jan. 18.
- Mobley, George W., Heath Springs, S. C. Combined statement and ledger sheet. 1,624,618; Apr. 12.
- Mobley, George W., Waynesboro, Ga. Cultivator. 1,616,595; Feb. 8.
- Mobley, James C., Des Moines, Iowa. Feed-chute plate for hot-air furnaces. 1,646,209; Oct. 18.
- Mobley, Lewis K., assignor of one-half to J. R. Littell, New York, N. Y. Applying liquid medicaments under pressure action. 1,614,532; Jan. 18.
- Mobley, Ormonde O. (See Goulas, Henry, assignor.)
- Moburg, Almer L., Palms, Calif. Underground antenna. 1,638,699; Aug. 9.
- Möbus, Wilhelm, Dusseldorf, Germany. Cutting and work-treating machine. 1,640,513; Aug. 30.
- Mock, Frank C., assignor to Mock Research Corporation, Chicago, Ill. Shock absorber. 1,650,087; Nov. 22.
- Mock, Frank C., C. J. Gustafson, and M. E. Chandler, assignors to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. 1,615,398; Jan. 25.
- Mock, Frank C., C. J. Gustafson, and M. E. Chandler, assignors to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. 1,620,827; Mar. 15.

- Mock, Frank C., C. J. Gustafson, and M. E. Chandler, assignors to Stromberg Motor Devices Company, Chicago, Ill. Altitude control for airplane-engine throttles. 1,635,492; July 12.
- Mock, Frank C., C. J. Gustafson, and M. E. Chandler, assignors to Stromberg Motor Devices Company, Chicago, Ill. Mixture control for airplane carburetors. 1,636,459; July 19.
- Mock, Frank C., C. J. Gustafson, and M. E. Chandler, assignors to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. 1,642,378; Sept. 13.
- Mock, Hugo, New York, N. Y. Bill posting. 1,634,333; July 5.
- Mock, Hugo, New York, N. Y. Fireless cooker. 1,647,742; Nov. 1.
- Mock, Hugo, New York, N. Y. Method and means of embossing. 1,648,461; Nov. 8.
- Mock, Hugo, New York, N. Y. Moth bag. 1,648,657; Nov. 8.
- Mock, Hugo, New York, N. Y. Electric sign. 1,648,957; Nov. 15.
- Mock, John F., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Centralizer for drill steels. 1,644,026; Oct. 4.
- Modern Brasserie Co. (See Johnson, Augusta S., assignor.)
- Modern Foundry and Pattern Works. (See Cameto, Leon, assignor.)
- Modern Household Appliance Company. (See McKeown, William C., assignor.)
- Modern, Julius. (See Mik, Johann, assignor.)
- Modern Utilities Company. (See Frantz, Grover C., assignor.)
- Modine, Arthur B., Racine, Wis. Maintaining the temperature of the fluid in circulating systems. 1,645,338; Oct. 11.
- Modlitz, Thomas, Hamtramck, Mich. Artificial Christmas tree. 1,654,427; Dec. 27.
- Modlin, Clarence A., et al. (See Modlin, Frank E., assignor.)
- Modlin, Frank E., Jr., et al. (See Modlin, Frank E., assignor.)
- Modlin, Frank E., assignor of one-eighth to F. E. Modlin, Jr., Glendale, Calif., one-eighth to C. A. Modlin, Kansas City, Mo., and three-eighths to D. L. Walker, Oklahoma City, Okla. Wrapping machine. 1,632,344; June 14.
- Modra, William, and A. W. Meier, St. Louis, Mo. Siphon pump. 1,648,238; Nov. 8.
- Moelndre, J. J., Detroit, Wash. Cleaning machine for fruit, vegetables, or the like. 1,646,701; Oct. 25.
- Moegelin, Erich, Moosen, Germany. One-way plow. 1,639,049; Aug. 16.
- Moeller, Albert. (See Cornwell, V. O., and Moeller.)
- Moeller, Heinrich, Cologne Bayenthal, Germany, assignor to Westinghouse Electric & Manufacturing Company. Induction motor. 1,626,622; May 3.
- Moeller, Karoline, Eberswalde, Germany. Hand carrying device. 1,639,266; Aug. 16.
- Moeller, Max, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, and elsewhere. Measuring instrument. 1,627,106; May 3.
- Moeller, Max E., Brooklyn, N. Y. Thermometer. 1,633,599; June 28.
- Moelling, Ralph E., Clayton, Ill. Poultry-feed trough. 1,642,293; Oct. 4.
- Moening, Frank H., Coe Township, Isabella County, Mich. Huller. 1,631,426; June 7.
- Moers, Kurt. (See Koref, F., and Moers.)
- Moffat, Frederick W., Weston, Ontario, Canada. Electric heating element. 1,639,382; Aug. 16.
- Moffat, Henry E., Detroit, Mich. Water heater and purifier. 1,624,557; Apr. 12.
- Moffat, Walter A., Meridian, Miss. Fireplace construction. 1,646,307; Oct. 18.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Reversible-feed chain-stitch sewing machine. 1,618,213; Feb. 22.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Looper-thread-controlling mechanism for sewing machines. 1,635,493; July 12.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Tripping mechanism for sewing machines. 1,643,820; Sept. 27.
- Moffett, Ernest C., Woodbridge, N. J., assignor to American Cyanamid Company, New York, N. Y. Fumigating. 1,613,186; Jan. 4.
- Moffett, Marcus H., Lakewood, assignor to The Bankers Savings & Credit System Company, Cleveland, Ohio. Money receptacle. 1,631,934; June 7.
- Moffitt, Frank, Middletown, N. Y. Handhole plate. 1,649,720; Nov. 15.
- Moffitt, Roy M., Maumee, Ohio. Electrical heating device. 1,622,034; Jan. 14.
- Mogford, Edmund C., Buchanan, and F. W. Burger, Niles, assignors to Clark Equipment Company, Buchanan, Mich. Making rear-axle housings for motor vehicles. 1,652,630; Dec. 13.
- Mokoryos, Stephen, and S. Visi, East Pittsburgh, Pa. Fireplaces. 1,629,223; May 17.
- Mohawk Brush Company. (See Aufesser, Gates B., assignor.)
- Mohawk Brush Company. (See Weber, Frank R., assignor.)
- Mohawk Carpet Mills, Inc. (See Crossland, George, assignor.)
- Mohawk Corporation of Illinois. (See Chamberlain, Paul A., assignor.)
- Mohawk Corporation of Illinois. (See De Mare, Douglas, assignor.)
- Mohawk Electric Corporation. (See Chamberlain, Paul A., assignor.)
- Mohawk Rubber Company, The. (See Moore, Howard P., assignor.)
- Mohawk Textile Mills, Inc. (See Oberstebrink, August, assignor.)
- Mohler, Charles M., Ypsilanti, Mich. Creeper for automobile mechanics. 1,649,721; Nov. 15.
- Mohler, Thomas B., Burlingame, Calif. Fuel and making Same. 1,625,133; Apr. 19.
- Mohr, John, Detroit, Mich. Siphon starter and automatic shut-off. 1,623,260; Apr. 5.
- Mohr, Rudolf, Sulgen, assignor to W. Müller, Thal Canton St. Gallen, Switzerland. Envelope-closing machine. 1,613,243; Jan. 4.
- Mohr, Rudolf, Sulgen, assignor to W. Müller, Thal, St. Gallen, Switzerland. Machine for closing and sealing envelopes. 1,633,750; June 28.
- Mohr, Rudolf, Sulgen, assignor to W. Müller, Thal, Canton St. Gallen Switzerland. Letter-franking machine. 1,645,388; Oct. 11.
- Mohnkern, Carl A., Curtis, Ark. Mail crane. 1,625,272; Apr. 19.
- Mohnkern, Carl A., Curtis, Ark. Pouch-holding clamp for mail cranes. 1,625,273; Apr. 19.
- Mohnkern, Carl A., Curtis, Ark. Mail crane. 1,625,274; Apr. 19.
- Mohr, Bernard A., New York, N. Y. Machine for straightening and grooving cans. 1,621,079; Mar. 15.
- Mohr, Franklin, New York, N. Y. assignor, by means assignments, to Western Electric Company, Incorporated. Modulating system. 1,624,498; Apr. 12.
- Mohr, Franklin, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control of electric waves. 1,636,146; July 19.
- Mohr, George A., Detroit, Mich. Testing device for cored castings. 1,622,602; Mar. 29.
- Mohr, Heinrich, Hagen, Germany. Buffer for railway and like cars. 1,629,224; May 17.
- Mohr, John K. (See Wieland, William, assignor.)
- Möhrlein, Emil, Stuttgart-Degerloch, assignor to the Firm Möhrlein & Co. H., Stuttgart, Germany. Tube bender. 1,620,776; Mar. 15.
- Möhrlin G. m. b. H. (See Möhrlin, Emil, assignor.)
- Mohun, John L., Omaha, Nebr. Locomotive. 1,618,293; Feb. 22.
- Mohun, John L., Omaha, Nebr. Dust guard for the journal boxes of railway cars. 1,621,893; Mar. 22.
- Moir, William A., Halifax, Nova Scotia, Canada. Conditioning apparatus for chocolate and the like. 1,630,714; May 31.
- Moisan, Edmond, Paris, France. Forceps for use in the manufacture of plates used in dental prosthesis. 1,618,380; Jan. 15.
- Moisseile, David B., Philadelphia, Pa. Rail joint. 1,626,349; Apr. 26.
- Mojé, Herman A., and I. E. McCabe, Chicago, Ill. Oil-burner construction. 1,642,937; Sept. 20.
- Mola, Donato, Rome, Italy. Self-sucking silencer for motor cars generally. 1,651,145; Nov. 29.
- Moland, William G., Philadelphia, Pa. Boot jack. 1,636,010; July 19.
- Moland, William G., Philadelphia, Pa. Boot-tree. 1,650,846; Nov. 29.
- Molberg, Albin E., Duluth, Minn. Sash adjuster and fastener. 1,633,645; June 28.
- Molby, Edgar C., Brooklyn, assignor to Iron Products Corporation, New York, N. Y. Heater. 1,643,026; Sept. 20.
- Moldenke, Richard, Watchung, N. J. Treating aluminous ores. 1,637,451; Aug. 2.
- Molner, Peter, Jr., Schenectady, N. Y., assignor to General Electric Company. Feed for arc lamps. 1,626,472; Apr. 26.
- Moler, Jesse R., Oakland, Calif. Water bag. 1,629,723; May 24.
- Mollié, François F., Genoa, Italy. Separation of caramels. 1,635,136; July 5.
- Molloy, Louis A., New York, N. Y. Colloid mill. 1,650,088; Nov. 22.
- Moline, Carl H., Waterloo, Iowa. Adjustable marking guide. 1,633,122; June 21.
- Moline, Charles, Multnomah, Ore. Plug. 1,653,724; Dec. 27.
- Moline Implement Company. (See Corbin, Henry P., assignor.)
- Moline Implement Company. (See Lindgren, Hugo T., assignor.)
- Moline Implement Company. (See Palmer Nathan W., assignor.)
- Moline Implement Company. (See Seaholm, John P., assignor.)
- Moline Tool Company. (See Hunt, Wilson P., assignor.)
- Moline, Walter E., London, England. Device for feeding cigarettes. 1,618,214; Feb. 22.
- Mollins, Walter E., London, England. Cigarette-making machine. 1,630,182; May 24.
- Mollins, Walter E., London, England. Machine for automatically cutting moving webs of paper or other materials into sheets. 1,631,879; June 7.

- Molins, Walter E., Deptford, London, England. Mechanism for severing moving webs into lengths. 1,651,096; Nov. 29.
- Molins, Walter E., Deptford, London, England. Printing machinery. 1,651,097; Nov. 29.
- Molins, Walter E., London, England. Gumming device. 1,651,146; Nov. 29.
- Molins, Walter E., London, England. Machine for applying stamps, labels and the like. 1,652,040; Dec. 6.
- Molins, Walter E., Deptford, London, England. Packing machinery. 1,652,871; Dec. 13.
- Molique, George J. A., Roxana, Ill. Clothesline holder. 1,632,616; June 14.
- Moll, Hermann, Hasselstein, near Neuwed, Germany. Arrangement of the van and air passages in reverberatory furnaces. 1,653,405; Dec. 20.
- Mollard, Thomas A., Oakland, assignor to Pacific Fire Extinguisher Co., San Francisco, Calif. Signaling system. 1,613,802; Jan. 11.
- Möller, Adolf D. (See Matthesen, P. and Möller.)
- Möller, Edward M. (See Benedict, H. A., and Möller.)
- Möller, Fritz, assignor to Schloemann Aktiengesellschaft, Düsseldorf, Germany. Rolling mill. 1,628,175; May 10.
- Möller, Gustav, Dortmund, Germany. Sack closure. 1,625,772; Apr. 19.
- Molnow, Edward A., assignor to Buffalo Bolt Company, North Tonawanda, N. Y. Bolt nutting and automatic chucking apparatus and method. 1,642,379; Sept. 13.
- Molloy, David J., Company. (See Persons, Ernest L., assignor.)
- Moloy, William L., Grand Rapids, Mich. Display device. 1,648,025; Nov. 8.
- Molnar, Zoltan, Port Robinson, Ontario, assignor of one-fourth to M. S. Czorboj and one-fourth to H. A. Fifield, Welland, Ontario, Canada. Rail-switch-locking device. 1,642,380; Sept. 13.
- Molsky, David, assignor to Silmo Chemical Company, Inc., Vineland, N. J. Fish-oil product and making the same. 1,638,700; Aug. 9.
- Moloney, William. (See Jensen, A. C., Moloney, and Blitgen.)
- Molony, Donald P., assignor to Marvel Carburetor Company, Flint, Mich. Automatic charge heating control for internal-combustion engines. 1,625,134; Apr. 19.
- Molony, Donald P., assignor to Marvel Carburetor Company, Flint, Mich. Automatic charge-heating control for internal-combustion engines. 1,625,135; Apr. 19.
- Molony, Martin C., San Francisco, Calif. High-frequency vesical electrode. 1,620,828; Mar. 15.
- Molony, Stuart B., Conshohocken, Pa., and Y. Nikaido, Bay City, Mich., assignors, by mesne assignments, to C. W. Brown, W. L. Clause, and E. Pitcairn, Pittsburgh, Pa. Rubber vulcanization and products thereof. 1,632,667; June 14.
- Molony, Stuart B., Wellesley Hills, Mass., and Y. Nikaido, Bay City, Mich., assignors, by mesne assignments, to C. W. Brown, W. L. Clause, and E. Pitcairn, Pittsburgh, Pa. Rubber vulcanization and product thereof. 1,632,666; June 14.
- Molony, Stuart B., Wellesley Hills, Mass., and Y. Nikaido, Bay City, Mich., assignors, by mesne assignments, to C. W. Brown, W. L. Clause, and E. Pitcairn, Pittsburgh, Pa. Rubber vulcanization and product thereof. 1,632,667; June 14.
- Molten, Louis A. (See Strong, Albin L., assignor.)
- Moltrup, Ellen, et al., administrators. (See Moltrup, Stephen.)
- Moltrup, J. T., et al., administrators. (See Moltrup, Stephen.)
- Moltrup, Stephen, deceased, Beaver Falls, Pa.; Ellen and J. T. Moltrup, administrators. Jack. 1,648,188; Nov. 8.
- Molybdenum Corporation of America. (See Weitzenkorn, Joseph W., assignor.)
- Molyneux, George E., Bayonne, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-tip machine. 1,644,388; Oct. 11.
- Molyneux, George E., Bayonne, assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for handling cloth blanks and the like. 1,649,319; Nov. 15.
- Mombur, Georges, Versailles, France. Device for indicating speed. 1,647,116; Oct. 25.
- Mombur, Georges, Versailles, France. Speed-indicating apparatus. 1,651,345; Nov. 29.
- Mommsen, Ernst, executor. (See Carbone, Tito L.)
- Monaco, Frederico, Cosenza, Italy. Guitar. 1,617,454; Feb. 15.
- Monaghan, James F., Waltham, Mass. Apparatus and process for condensing soluble gases. 1,614,313; Jan. 11.
- Monahan, James B., assignor to Litho Etching Corporation, New York, N. Y. Safety device for clutch mechanism. 1,625,045; Apr. 19.
- Monahan, James B., assignor to Litho Etching Corporation, New York, N. Y. Safety device. 1,630,402; May 31.
- Monahan, Ormond B., Des Moines, Iowa. Agitator. 1,645,614; Oct. 18.
- Monahan, R. H., et al. (See Auger, Joseph T., assignor.)
- Monarch Brush Co., The. (See Nilsson, Freeman, assignor.)
- Monarch Machine and Manufacturing Company. (See Mathews, William P., assignor.)
- Monarch Machine Tool Company, The. (See Whipp, Wendell E., assignor.)
- Monarch Manufacturing Works, Inc. (See Murphy, T. W., and Czarneski, assignor.)
- Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)
- Monard, Alfred, assignor to Societe l'aster, Paris, France. Liquid meter. 1,625,459; Apr. 19.
- Monard, Philip H., New York, N. Y. Display device. 1,651,536; Dec. 6.
- Monckmeier, Gustav C., Chicago, Ill. Wear-compensating bolt. 1,624,499; Apr. 12.
- Monckmeier, Gustav C., Tipton, Iowa. Wear-compensating bolt. 1,627,401; May 3.
- Monckmeier, Gustav C., Tipton, Iowa. Automatic thrust bearing. 1,646,416; Oct. 25.
- Monckton, Charles E. (See Ball, Everett R., assignor.)
- Moncreiffe, Malcolm, Big Horn, Wyo. Tractor. 1,624,110; Apr. 12.
- Mondi, James V. (See Shaughnessy, John L., assignor.)
- Monie, Francis X., et al. (See La Roche, Olivier, assignor.)
- Money, Roland H. (See Hull, M. R., and Money.)
- Monfee, Andrew J. (See Sleeman, W. C., and Monfee.)
- Monfils, Napoleon A., Haverhill, Mass., assignor to United States Machine Corporation, Paterson, N. J. Wood-beel-turning machine. 1,647,574; Nov. 1.
- Mongelli, Giuseppe A., Philadelphia, Pa. System of tailoring. 1,624,894; Apr. 12.
- Monheimer, Henry F., assignor to Campe Corporation, New York, N. Y. Union suit. 1,638,592; Aug. 9.
- Monroe, Edward D., Harrison, N. Y. Doorbell and light-control switch. 1,647,708; Nov. 1.
- Monich, Alex., Forestville, Conn. Curtain supporter. 1,631,219; June 7.
- Monier, Hector. (See Dackmine, D., and Monier.)
- Monigan Machine Co. (See Martinson, Oscar J., assignor.)
- Monitor Controller Company. (See Whittingham, George H., assignor.)
- Monkhouse, Allan, Roseleigh, England, assignor to Westinghouse Electric & Manufacturing Company. Machine for mowing roads. 1,645,289; Oct. 11.
- Monks, Charles H., Ridgewood, N. J. Mouthpiece attachment for telephones. 1,633,491; June 21.
- Monnig, Hugo, Jefferson City, Mo. Time-recording indicator. 1,618,774; Feb. 22.
- Monogram Lens Corporation. (See Arbuckle, Samuel F., assignor.)
- Monongab Glass Company. (See Mayers, Wilbur S., assignor.)
- Monro, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Method and apparatus for annealing and cooling sheet glass. 1,641,596; Sept. 6.
- Monroe, Edward R., Bay City, Mich. Therapeutic chair. 1,645,399; Oct. 11.
- Monroe, Harry L., and W. Cramer, St. Louis, Mo. Supporting and concealing folding beds. 1,628,418; May 10.
- Monroe, Kenneth P., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of a tetra-alkyl lead. 1,645,389; Oct. 11.
- Monroe, Kenneth P., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making tetra-alkyl lead. 1,645,390; Oct. 11.
- Monroe-Louisville Carbon Company. (See Matlock, Chauncey, assignor.)
- Monroe, William S., assignor to Sargent & Lundy, Chicago, Ill. Condenser-tube nipple and mounting. 1,640,576; Aug. 30.
- Monsanto Chemical Works. (See Conover, Courtney, assignor.)
- Monson, Hugh J., Lakewood, assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Lamp for motor vehicles. 1,613,841; Jan. 11.
- Monson, Martin B., Jefferson County, near Wheatridge, assignor to The Moro Plow & Manufacturing Company, Denver, Colo. Tractor-supported plowing attachment. 1,630,576; May 31.
- Montag, Christopher F., assignor to Blue Island Specialty Co., Blue Island, Ill. Jacket-crown grinder. 1,614,144; Jan. 11.
- Montag, Solomon. (See Sokol, A., and Montag.)
- Montague, John H., Independence, Mo. Clamp. 1,648,695; Nov. 8.
- Montague Range and Furnace Co. (See Troiel, Arthur E., assignor.)
- Montalbano, Dominick, Winfield, N. Y. Combined curtain and shade holder. 1,617,022; Feb. 8.
- Montan, Adolf, Montclair, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Slide. 1,643,746; Sept. 27.
- Montan, Adolf, Montclair, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Slide. 1,643,747; Sept. 27.
- Montan, Adolph, Montclair, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Cyl. for fountain pens and clip therefor. 1,629,835; May 24.
- Montan, Adolph, Montclair, and H. W. Falstrom, Newark, assignors to Eastern Tool & Mfg. Company, Bloomfield, N. J. Hanger. 1,634,377; July 5.
- Montan, Adolph, Montclair, and H. W. Falstrom, Newark, assignors to Eastern Tool & Mfg. Company, Bloomfield, N. J. Clip. 1,653,465; Dec. 20.
- Montan, Inc. (See Coolidge, Joseph R., 3d, assignor.)
- Monte, Joseph T., Chisholm, Minn. Insect exterminator. 1,642,306; Sept. 13.

- Montelius, John E., Los Angeles, Calif. Aerial. 1,617,023; Feb. 8.
- Montellhet, Antonin, assignor to Société Anonyme des Telegraphes Edouard Belin, Paris, France. Electric transmission arrangement. Re16,773; Oct. 18.
- Monte, Carlos, Habana, Cuba. Aeroplane. 1,636,320; July 19.
- Monterubio, Taide, St. Louis, Mo. Tropical house. 1,620,776; Mar. 15.
- Montfort, Adolph, Chicago, Ill. Stringed musical instrument. Des. 72,433; Apr. 12.
- Montgomerie, John A., Glasgow, Scotland. Bituminous emulsion. 1,643,675; Sept. 27.
- Montgomery, Alonzo B. (See McCrery, H. E., Jesser, and Montgomery.).
- Montgomery Bros. Inc. (See Montgomery, Hugh E., assignor.).
- Montgomery, Earl T. (See Jeffery, J. A., and Montgomery.).
- Montgomery, Gustavus A., Titusville, Pa. Weight-indicating device for well-drilling apparatus. 1,616,194; Feb. 1.
- Montgomery, Gustavus A., Titusville, Pa. Casing slp. 1,628,580; Apr. 5.
- Montgomery, Gustavus A., assignor to Titusville Forge Company, Titusville, Pa. Temper screw. 1,641,189; Sept. 6.
- Montgomery, Gustavus A., Titusville, Pa., and D. L. Driscoll, Alhambra, Calif., assignors to Titusville Forge Company, Titusville, Pa. Controlling apparatus for oil wells. 1,651,537; Dec. 6.
- Montgomery, Harley A., Highland Park, Mich. Making lubricants. 1,617,455; Feb. 15.
- Montgomery, Hugh E., assignor to Montgomery Bros. Inc. Detroit, Mich. Spotlight. 1,652,452; Dec. 13.
- Montgomery, Knowlton D., Lansdale, Pa. Grease cup. 1,634,114; June 28.
- Montgomery, Leon F. (See Mayers, Horace C., assignor.).
- Montgomery, Louis W., Indianapolis Ind. Camper's stove. 1,650,529; Nov. 22.
- Montgomery Tool and Machinery Company, The. (See Dover, George W., assignor.).
- Montgomery Tool and Machinery Company, The. (See Dover, George W., assignor.).
- Montgomery, Walter. (See Finley, Clyde A., assignor.).
- Montgomery Ward & Company. (See Robertson, Charles A., assignor.).
- Monthe, William. (See Densmore, William M., assignor.).
- Montour, Athanasie, La Trappe, Quebec, Canada. Incubator. 1,613,049; Jan. 4.
- Montsinger, Vincent M., Pittsfield, Mass., assignor to General Electric Company. Decorative lighting outfit. 1,637,046; July 26.
- Montreman, John H., Hartford, Conn. Cutting tool. 1,631,641; June 7.
- Monty, Henry J. (See Bumstead, R. W., and Robertson, assignors.).
- Moody, Dan O. (See Avery, C. W., and Moody.).
- Moody, Joseph F., and V. L. Du Bois, assignors to A. H. Newell, Okla. Safety hook. Re16,613; May 3.
- Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. 1,614,250; Jan. 11.
- Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. 1,622,531; Mar. 29.
- Moody, William O., La Grange, Ill. Driving box and spring saddle. 1,643,312; Sept. 27.
- Mook, Clarence A., Erie, Pa. Securing tire-stem pads to tubes. 1,652,726; Dec. 13.
- Mooney, Joseph G., Erie, Pa. Tire-molding apparatus. 1,649,843; Nov. 22.
- Moon, Alonzo L., Mitchell, Nebr. Potato digger. 1,635,710; Jan. 25.
- Moon, Charles L., assignor to The Cecil R. Lambert Company, Detroit, Mich. Trolley switch. 1,632,557; June 14.
- Moon, Charles L., assignor to The Cecil R. Lambert Company, Detroit, Mich. Rotary crossover switch. 1,632,558; June 14.
- Moon, George A., San Francisco, Calif. Door catch. 1,642,167; Sept. 13.
- Moon, John W., Lansdowne, Pa. Manufacturing metal tubing. 1,629,724; July 24.
- Moon, John W., assignor to Fretz-Moon Tube Company, Butler, Pa. Apparatus for manufacturing continuous tubing from separate reels of shep. 1,622,336; Mar. 29.
- Moon, Walter T., Baltimore, Md. Buckle holder. 1,616,866; Feb. 8.
- Moonbeam Manufacturing Company. (See David, Bruce Moon, assignor.).
- Moone, Albert E. F., assignor to The Lehon Company, Chicago, Ill. Roofing. 1,623,127; Apr. 5.
- Moone, Albert E. F., assignor of one-third to J. M. Coughlin, Chicago, Ill. Reel for electric conductors. 1,638,193; July 19.
- Moone, Albert E. F., Chicago, Ill., assignor to The Lehon Company. Roofing. 1,646,551; Oct. 25.
- Moone, Albert E. F., assignor of one-third to J. M. Coughlin, Chicago, Ill. Switching mechanism for reels for electric conductors. 1,648,009; Nov. 15.
- Mooney, Ernest, York, England. Lubricating device for railway vehicle axles. 1,638,640; Aug. 9.
- Mooney, Jerome H., New York, N. Y. Funnel. 1,651,963; Dec. 6.
- Mooney, William, assignor of one-half to S. F. McGinn, Waterloo, Iowa. Combination heating apparatus. 1,621,640; Mar. 22.
- Moornight Helt Company. (See Sinclair, C. C., and Phelps, assignors.).
- Moor, Emanuel, Mont Pelerin, Switzerland. Keyboard for key instruments. 1,618,546; Feb. 22.
- Moor, Emmanuel, Mont Pelerin, Switzerland. Keyboard for musical instruments. 1,618,547; Feb. 22.
- Moore, Edith H., assignor of one-half to W. L. Phillips, Kansas City, Mo. Food product and making same. 1,634,113; June 28.
- Moore, Ambrose C., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam support. 1,642,080; Sept. 13.
- Moore, Ambrose C., assignor to Chicago Railway Equipment Company, Chicago, Ill. Connecting-rod safety loop. 1,644,481; Oct. 4.
- Moore, Anna B., R. New Orleans, La. Cover holder. 1,646,792; Oct. 26.
- Moore, Arlington. (See Moore, Harry S., assignor.).
- Moore, Arlington, New York, N. Y. Infolding paper container bodies and the like. 1,627,049; May 4.
- Moore, Arlington, New York, N. Y., assignor, by mesne assignments, to Maxmoor Corporation. Progressive-impulse internal-combustion engine. 1,633,385; June 24.
- Moore, Arlington, New York, N. Y., assignor to Moore Inventions Corporation, Worcester, Mass. Internal-combustion-engine decarbonizer. 1,633,791; June 28.
- Moore, Arlington, New York, N. Y., assignor to Moore Inventions Corporation, Worcester, Mass. Process of and apparatus for making sanitary metal cans. 1,636,103; July 19.
- Moore, Arlington, New York, N. Y., assignor to Moore Inventions Corporation, Worcester, Mass. Combined emergency ash tray and match-box lock. 1,636,147; July 19.
- Moore, Arlington, New York, N. Y., assignor to Moore Inventions Corporation, Worcester, Mass. Sanitary metal can. 1,645,016; Oct. 11.
- Moore, Arlington, assignor to Moore Inventions Corporation, Worcester, Mass. Removable locking dental bridge. 1,645,340; Oct. 11.
- Moore, Arlington, New York, N. Y., assignor to Moore Inventions Corporation, Worcester, Mass. Manifold game apparatus. 1,646,973; Oct. 25.
- Moore, Arlington, Boston, Mass. Paper dish. 1,627,050; May 3.
- Moore, Arlington, Boston, Mass. Paper dish. 1,627,051; May 3.
- Moore, Arlington, assignor to Moore Inventions Corporation, Worcester, Mass. Gyrul wheel. 1,625,327; Apr. 19.
- Moore, Arlington, Worcester, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Paper container. 1,627,047; May 3.
- Moore, Arlington, Worcester, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Paper container. 1,627,048; May 3.
- Moore, Benjamin F., Parkersburg, W. Va. Swinging book. 1,637,047; July 26.
- Moore, Benton, assignor of one-half to J. F. Rogers, Fresno, Calif. Door and window screen catch and fastener. 1,629,725; May 24.
- Moore Brothers Company. (See Dibble, Claude M., assignor.).
- Moore Bros. Co. (See Lurcott, Winfred N., assignor.).
- Moore, Callie F., et al. (See Gallagher, George D., assignor.).
- Moore, Chaffin C., Winston-Salem, N. C. Drying cabinet. 1,642,830; Dec. 13.
- Moore, Charles A., St. Paul, Minn. Combination refrigerator, heater, ventilator, and humidifier. 1,612,827; Jan. 4.
- Moore, Charles A., St. Paul, Minn. Ventilating, heating, and humidifying apparatus. 1,643,346; Sept. 27.
- Moore, Charles A., St. Paul, Minn. Temperature-changing and air-circulating appliance. 1,643,346; Sept. 27.
- Moore, Chas. A., St. Paul, Minn. Refrigerating appliance. 1,644,073; Oct. 4.
- Moore, Charles A., St. Paul, Minn. Atmospheric condenser for rooms. 1,654,342; Dec. 27.
- Moore, Charles A., St. Paul, Minn. Precooling structure. 1,654,343; Dec. 27.
- Moore, Charles B., Mattoon, Ill. Tread attachment for wheels. 1,638,449; Aug. 9.
- Moore, Charles C., San Francisco, Calif. Sulphurizing, dehydrating, and desulphurizing fruit. 1,633,823; June 28.
- Moore, Charles R., Newport, Vt. Hanger for storm windows and the like. 1,613,284; Jan. 4.
- Moore, Charles R., Newport, Vt. Fastener for storm windows and the like. 1,613,285; Jan. 4.
- Moore, Charles R., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone transmitter. 1,624,351; Apr. 12.
- Moore, Charles R., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone transmitter. 1,624,352; Apr. 12.
- Moore, Charles R., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. 1,644,788; Oct. 11.

- Moore, Charles B., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone transmitter. 1,628,898; May 17.
- Moore, Charles R., Maplewood, N. J., and J. M. Hayward, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y. Double-diaphragm transmitter. 1,624,353; Apr. 12.
- Moore, Charles S., Grand Rapids, Mich. Extension-drawer support. 1,640,664; Aug. 30.
- Moore, Charles W. (See Ryder, P. H., and Moore.)
- Moore, Charles W., South Bend, Ind., assignor to Oliver Chilled Plow Works, Plow. 1,632,287; Dec. 13.
- Moore, Chester M., Wakefield, Mass., assignor to Moore Shank Company, Everett, Mass. Shank stiffener. 1,649,414; Nov. 15.
- Moore, Dorsey E., Bruceton, assignor of one-half to O. A. Harker, Jr., Puryear, Tenn. Fire-box arch. 1,641,043; Aug. 30.
- Moore Dry Kiln Company. (See Bundrick, David D., assignor.)
- Moore, Edgar D., Cleveland, Ohio. Automatic circuit breaker. 1,643,415; Sept. 27.
- Moore, Edward C., Los Angeles, Calif. Ice card. 1,617,164; Feb. 5.
- Moore, Elias S., and A. L. Garner, Lynchburg, Va., assignors to Draper Corporation, Hopedale, Mass. Cloth-guiding means for looms. 1,649,612; Nov. 15.
- Moore, Ernest R., Gadsden, Ala. Revolving grate. 1,631,427; June 7.
- Moore, F. Thomas. (See Rosenberg, A., and Ollinger, assignors.)
- Moore, Francis J., Minneapolis, Minn. Roof jacket. 1,647,414; Nov. 1.
- Moore, Francis K. (See Rodgers, T. T., Giblin, and Moore.)
- Moore, Frank J., North Tonawanda, N. Y. Method and machine for shredding wood. 1,623,261; Apr. 5.
- Moore, Frank J., North Tonawanda, N. Y. Wall board and forming the same. 1,614,199; Oct. 4.
- Moore, Frank L., Trumansburg, N. Y. Piston-ring compressor. 1,615,768; Jan. 25.
- Moore, Frank S., Queens Village, N. Y. Lock clip for nipples. 1,645,963; Oct. 18.
- Moore, Frank W., Redlands, Calif. Gas cock or valve. 1,628,263; May 10.
- Moore, Fred C., Spokane, Wash. Plate-bolting-up machine. 1,629,925; May 24.
- Moore, Fred E., Los Angeles, Calif. Furniture. 1,634,551; July 5.
- Moore, Frederick E. (See Fairweather, Charles B., assignor.)
- Moore, George, Toronto, Ontario, Canada. Railway-crossing-gate-operating device. 1,627,052; May 3.
- Moore, George A., Wilmington, N. C. Automatic cut-off and drainage valve. 1,638,052; Aug. 9.
- Moore, George E., Muskegon, Mich., assignor to Manning Maxwell & Moore, Inc., New York, N. Y. Trolley construction for cranes. 1,627,746; May 10.
- Moore, George L., Chicago, Ill. Lubricating system. 1,618,655; June 14.
- Moore, George L., Bethlehem, Pa. Rail anchor. 1,620,275; Mar. 8.
- Moore, George L., Bethlehem, Pa., assignor to Moore & Steele Corporation. Rail anchor. 1,650,228; Nov. 22.
- Moore, George T. (See Rodgers, T. T., Giblin, and Moore.)
- Moore, Harold J., assignor to The Russell Manufacturing Company, Middletown, Conn. Fabric. 1,622,250; Mar. 22.
- Moore, Harry S., Atlantic City, N. J., assignor to Arlington Moore, New York, N. Y. Composite candy. 1,652,789; Dec. 13.
- Moore, Harvey G., Buffalo, N. Y. Junction box for portable lights. 1,647,187; Nov. 1.
- Moore, Henry N. (See Le Munyon, E. C., and Moore.)
- Moore, Herbert B., assignor of one-half to E. L. Feitch, Los Angeles, Calif. Slush-pump piston. 1,646,927; Oct. 25.
- Moore, Howard P., Cuyahoga Falls, assignor to The Mohawk Rubber Company, Akron, Ohio. Machine for removing air bags from tires. 1,631,281; June 7.
- Moore, Hugh K., assignor to Brown Company, Berlin, N. H. Producing calcium arsenate. 1,619,267; Mar. 1.
- Moore Inventions Corporation. (See Moore, Arlington, assignor.)
- Moore, Ira A., and T. M. Ely, Cedar Rapids, Iowa. Railway-crossing gate. 1,638,502; Aug. 9.
- Moore, Isaac C., Cleo Springs, Okla. Drag. 1,641,348; Sept. 6.
- Moore, Jacob L. (See Reichart, James H., assignor.)
- Moore, Jacob L., Muncie, Ind. Bed. 1,624,965; Apr. 19.
- Moore, James. (See Allan, H. L., and Moore.)
- Moore, James S., assignor to The Edwin F. Guth Company, St. Louis, Mo. Lighting fixture. Des. 72,909; June 21.
- Moore, James W., and S. D. Moxley, assignors to American Cast Iron Pipe Company, Birmingham, Ala. Cupola charger. 1,647,648; Nov. 1.
- Moore, John, Berkeley, Calif. Toilet-flushing means. 1,621,737; Mar. 22.
- Moore, John A., Gervais, Oreg. Shock-absorbing snubbing device for vehicles. 1,615,993; Feb. 1.
- Moore, John D., Massillon, Ohio. Spark-plug protector. 1,615,289; Jan. 25.
- Moore, John E., Manchester, England. Spinning, twisting, cabling, and proving of yarns. 1,647,303; Nov. 1.
- Moore, John E., Blackburn, England. Apparatus for selecting and separating warp threads. 1,652,316; Dec. 13.
- Moore, John L., Alexandria, Minn. Oar lock. 1,621,946; Mar. 22.
- Moore, John R. (See Baker, H. G., and Moore.)
- Moore, John S., Springfield, Mo. Signal box. Des. 73,574; Oct. 4.
- Moore, Karl W., Cynthia, Ky. Tail-docking machine. 1,629,042; May 17.
- Moore, Lee R., Kansas City, Mo. Tire patch. 1,624,619; Apr. 12.
- Moore, Mary B., et al. (See Moore, Samuel M., assignor.)
- Moore, Max J., Newark, N. J., assignor to W. H. Collins, Summit, N. J. Trap-net attachment. 1,619,527; Mar. 1.
- Moore, Merle M. (See Chappell, M. L., Davis, and Moore.)
- Moore, Miles F., and J. M. Smith, San Francisco, Calif. Micrometer. 1,648,497; Nov. 8.
- Moore, Monte G., Prairie City, Oreg. Animal trap. 1,645,444; Oct. 11.
- Moore, Philip W., Hubbard Woods, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,613,404; Jan. 4.
- Moore Press, Inc., The. (See Faulkner, David C., assignor.)
- Moore, R. W., et al. (See Benson, Samuel C., assignor.)
- Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Latch. 1,630,270; May 31.
- Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Automobile hood clamp. 1,637,530; Aug. 2.
- Moore, Raymond H. (See Beetham, M. F., and Moore.)
- Moore, Raymond H. (See Minich, V. E., and Moore.)
- Moore, Robert, Montclair, N. J. Marking tape for tennis courts. 1,632,799; June 21.
- Moore, Roscoe, assignor to Vulcan Iron Works, Wilkes-Barre, Pa. Brake engine. 1,613,474; Jan. 4.
- Moore, Roswell A., and W. F. Murtha, assignors to Waterbury Buckle Co., Waterbury, Conn. Buckle. 1,616,745; Sept. 27.
- Moore, Roy S., Chicago, Ill., assignor, by mesne assignments, to Manitowoc Ship Building Corporation, Manitowoc, Wis. Automotive crane. 1,629,521; May 24.
- Moore, Samuel, and F. O. Sheets, assignors of part interest to D. Scruggs, C. Morgan, J. Gorbam, and R. Thompson, Fairmont, and H. L. Kuhn, Shinnston, said F. O. Sheets, said Samuel Moore, and W. M. Keener, said F. O. Sheets, said W. W. Va. Headlight. 1,633,450; Aug. 9.
- Moore, Samuel M., assignor of one-sixth to W. J. Moore, Summer, and one-sixth to R. A. Welton, one-sixth to M. B. Moore, one-sixth to B. R. Sagers, and one-sixth to E. Sagers, Lawrenceville, Ill. Dancing figure toy. 1,625,565; Apr. 26.
- Moore Shank Company. (See Moore, Chester M., assignor.)
- Moore Shoe Company, The. (See Rohrer, Arthur M., assignor.)
- Moore & Steele Corporation. (See Moore, George L., assignor.)
- Moore, Theodore A., Davenport, Iowa. Floor-strip clip-setting device. 1,632,242; June 14.
- Moore, Thomas F., Morris Plains, N. J. Well point. 1,648,587; Nov. 8.
- Moore, Thomas J., McLean County, Ill. Gate-latching mechanism. 1,650,146; Nov. 22.
- Moore, Thomas W., Dallas, Tex. Motor-vehicle luggage carrier. 1,646,163; Oct. 15.
- Moore, Tom, Cincinnati, Ohio. Rectifying radio shield. 1,641,395; Sept. 6.
- Moore, Ward H., Des Moines, Iowa. Wood-turning lathe. 1,653,223; Dec. 20.
- Moore, William D., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Centrifugal pipe head core. 1,613,899; Jan. 11.
- Moore, William D., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Making metal castings. 1,614,846; Jan. 18.
- Moore, William D., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Charging device for tilting molds. 1,620,831; Mar. 15.
- Moore, William D., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Method and apparatus for freeing centrifugally-cast castings from molds or flasks. 1,624,354; Apr. 12.
- Moore, William D., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Mold facing device. 1,634,266; July 5.
- Moore, William D., and W. Morgan, Birmingham, Ala., assignors, by mesne assignments, to Sand Spun Patents Corporation, New York, N. Y. Method of and apparatus for centrifugally casting metal bodies. 1,620,829; Mar. 15.
- Moore, William D., and W. Morgan, Birmingham, Ala., assignors, by mesne assignments, to Sand Spun Patents Corporation, New York, N. Y. Method of and apparatus for centrifugally casting metal bodies. 1,620,830; Mar. 15.
- Moore, William J., et al. (See Moore, Samuel M., assignor.)

- Moore, William J. P., New York, N. Y. Interlock for pneumatic-tire casings, inner tubes, and wheel rims. 1,645,921; Oct. 18.
- Moore, William M. Palmerston North, New Zealand. Draw-off appliance for liquid containers. 1,618,720; Feb. 22.
- Moore, William N., Abilene, Tex. Casing puller. 1,621,947; Mar. 22.
- Moore, William T., Peoria, Ill. Terminal puller. 1,615,717; Jan. 25.
- Moore, Acolian B., Dallas, Tex. Gas stove. R16,530; Jan. 11.
- Moore, Charles F. (See Ryder, C. D. and Moore.)
- Moore, Joel, assignor to The J. H. Day Company, Cincinnati, Ohio. Transfer device. 1,623,357; Apr. 5.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,620,731; Mar. 15.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,635,855; July 12.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,639,892; Aug. 23.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Carburetor. 1,645,341; Oct. 11.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,645,342; Oct. 11.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,645,343; Oct. 11.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,647,838; Nov. 1.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,647,839; Nov. 1.
- Moorman, Charles L., Chicago, Ill. Brake mechanism for railway cars. 1,639,306; Aug. 16.
- Moorman Mfg. Co. (See Miner, C. S., and Stanger, assignors.)
- Moore, L. O., et al. (See Ruffy, Verdie C., assignor.)
- Morabito, Luigi, Port Chester, N. Y. Gas burner for heating purposes. 1,636,643; July 19.
- Moran, Frank B., Dallas, Tex. Driving shield. 1,643,509; Sep. 27.
- Moran, George R., Sandusky, Ohio. Bearing for railroad trucks and similar structures. 1,635,685; July 12.
- Moran, John G., Brooklyn, assignor to A. Kimball Company, New York, N. Y. Marking ticket. 1,640,006; Aug. 8.
- Moran, Lawrence, Chicago, Ill. Adjustable droplight-cord holder. 1,633,344; June 21.
- Moran, May, Westmont, Quebec, Canada. Sewing-machine attachment. 1,653,115; Dec. 20.
- Moran, Robert B., and A. F. Spengler, assignors to Spengler Core Drilling Company, Los Angeles, Calif. Rotary core drill. 1,626,249; Apr. 26.
- Moran, Robert C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitroglucoside explosive. 1,630,577; May 31.
- Moran, Robert C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitroglucoside explosive. 1,630,578; May 31.
- Moran, Robert C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Acceleration of gelatinization of cellulose nitrate. 1,640,712; Aug. 30.
- Moran, Stanislaus J. (See Knapp, Sydney H., assignor.)
- Morano, Sam. (See Brown, W. and Morano.)
- Moratta, Mathew M., Princeton, Ind. Piston ring. 1,627,107; May 3.
- Moravec, John, Vancouver, British Columbia, Canada. Log-barking apparatus. 1,619,151; Mar. 1.
- Moravec, John, Vancouver, British Columbia, Canada. Paper-making machine. 1,640,007; Aug. 23.
- Moravec, Joseph E. (See Vorel, Frank, assignor.)
- Morberg, Emil, Oslo, Minn. Cotter. 1,623,488; Apr. 5.
- Mordin, Ralph, assignor to The Relay Automatic Telephone Company, Limited, London, England. Automatic and semiautomatic telephone system. 1,626,206; Apr. 26.
- Mordt, Erik J., Evanston, Ill. Jumping rope. Des. 73,755; Nov. 1.
- Moreau, Henri, Paris, France. Apparatus for central heating. 1,629,043; May 17.
- Moreau, Jean, Noyelles-sur-Escaut-Nord, France. Beet root slicer. 1,635,494; July 12.
- Morcroft, Frederick L., Syracuse, N. Y. Cut-glass bowl. Des. 74,019; Dec. 6.
- Morehead, George L., and F. S. O'Neill, Indianapolis, Ind., assignors to Link-Belt Company, Chicago, Ill. Steel conveyor chain and link. 1,635,267; Aug. 9.
- Morehouse, Eugene, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Safety catch for pin stems. Des. 73,536; Sept. 27.
- Morehouse, Eugene, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Clasp. 1,615,476; Jan. 25.
- Morehouse, Eugene, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Form for the body member of a safety catch. 1,635,188; July 12.
- Morehouse, Frank B., and F. Haase, San Francisco, Calif., assignors to Trayway Mfg. Co. Washing machine. 1,627,053; May 3.
- Morehouse, Harold E. (See Angle, G. D., and Morehouse.)
- Morehouse, Harold E., Dayton, Ohio. Aircraft engine. 1,627,108; May 3.
- Morehouse, Samuel C., New Haven, Conn. Sleeping mat. 1,624,797; Apr. 12.
- Morel-Révoil, Jules J. H., Paris, France. Safety device for railways. 1,633,906; June 28.
- Moreland, George E., assignor to Western Drop Forge Company, Los Angeles, Calif. Sucker-rod centralizer. 1,614,381; Jan. 11.
- Moreland, Lester A., assignor to The de Laski & Thropp Circular Woven Tire Company, Trenton, N. J. Collapsible core and chuck. 1,633,263; June 21.
- Morell, Elgin, East Orange, N. J. Vending machine. 1,641,860; Sept. 6.
- Morell, Peter J. (See Wilcott, F. G., and Morell.)
- Morelli, Sam, Gaston, Ore. Animal trap. 1,630,708; May 31.
- Morello, John, assignor of one-half to F. Scaglione, Salt Lake City, Utah. Rail joiner. 1,627,987; May 10.
- Moreno, Juan de D., San Francisco, Calif. Reversible cone. 1,624,763; Apr. 12.
- Moreno, Vicente G., Ensenada, Lower California, Mexico. Gear-shaft mechanism. 1,652,951; Dec. 13.
- Moreshead, John, Brookline, Mass. Angle dividers or bisecting bevels. 1,631,830; Dec. 6.
- Morton, Charles J., London, England. Waterproofing tents and other materials. 1,625,672; Apr. 19.
- Moretti, Cosimo P., and E. Mezzera, Leavenworth, Kans. Belt. 1,639,383; Aug. 16.
- Morey, Frank A. (See Poeton, L. and Morey.)
- Morey, James B., et al. (See Hanson, Roy E., assignor.)
- Morley, William, assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car-control mechanism. 1,625,089; Apr. 19.
- Morey, Worthle W., and E. R. Armstrong, assignors to F. O. Schoedinger, Columbus, Ohio. Hospital furniture. 1,650,293; Nov. 22.
- Morgal, John P., Springfield, Ohio. Chuck. 1,631,499; June 7.
- Morgal, John F., Springfield, Ohio, assignor, by mesne assignments, to B. E. Crabbs. Grinding machine. 1,627,858; May 10.
- Morgan, A. K. (See Bacon, George M., assignor.)
- Morgan, Arthur A., et al. (See Fenner, George E., assignor.)
- Morgan, Arthur L., Montreal, Quebec, Canada. Chain grate for furnaces. 1,631,282; June 7.
- Morgan, Benjamin, Shadyside, Ohio. Automobile headlight. 1,640,011; Oct. 25.
- Morgan Blodgett Morgan, Inc. (See Morgan, Porter S., assignor.)
- Morgan, Bruce F., Seattle, Wash. Mechanically-operated figure toy. 1,647,537; Nov. 1.
- Morgan Canning Company, The. (See Eddington, William B., assignor.)
- Morgan, Charles F., Jackson, Tenn. Grain door. 1,638,503; Aug. 9.
- Morgan, Charles W. (See Lyen, A. C., and Morgan.)
- Morgan, Clifton O., Youngstown, Ohio. Electrical heating device for smoothing and drying hair on a person's head. 1,638,268; Aug. 9.
- Morgan, Clyde, et al. (See Moore, S., and Sheets, assignors.)
- Morgan Construction Company. (See George, Jerome R., assignor.)
- Morgan Construction Company. (See Isley, George H., assignor.)
- Morgan Construction Company. (See Keller, Alfred R., assignor.)
- Morgan Construction Company. (See Lewis, K. B., and Ellsworth, assignors.)
- Morgan Construction Company. (See Sheperdson, John W., assignor.)
- Morgan Crucible Company Limited. (See Speirs, Charles W., assignor.)
- Morgan, Daniel. (See Swanson, A. E., and Morgan.)
- Morgan, Daniel H. (See Adams, A. S., and Morgan.)
- Morgan, Edmund C., deceased, New York, N. Y.: O. E. Morgan, executrix. Mining machine. 1,637,531; Aug. 2.
- Morgan, Edmund C., deceased, New York, N. Y.: O. E. Morgan, executrix. Mining and loading machine. 1,637,733; Aug. 2.
- Morgan, Edmund C., deceased, New York, N. Y.: O. E. Morgan, executrix. Mining machine. 1,639,050; Aug. 16.
- Morgan, Edmund C., deceased, New York, N. Y.: O. E. Morgan, executrix. Mining apparatus. 1,642,885; Sept. 20.
- Morgan, Edmund C., deceased, O. E. Morgan, executrix. New York, N. Y. Coal-mine roof-supporting mechanism and operating the same. 1,646,417; Oct. 25.
- Morgan, Edmund C., deceased, New York, N. Y.: O. E. Morgan, executrix. Drilling apparatus. 1,649,911; Nov. 22.
- Morgan, Edmund C., deceased; O. E. Morgan, executrix, assignor to American Morgan Company, New York, N. Y. Mining and loading machine. 1,650,027; Nov. 22.
- Morgan, Edwin G., Flushing, N. Y. Electric screw-driving guide. 1,644,074; Oct. 4.
- Morgan, Emerson E., Yonkers, and W. H. Day, New Rochelle, N. Y. Lip stick. 1,631,283; June 7.
- Morgan, Everett C. and J. E., Camden, and G. P. Pinzka, Mantua, N. J. Leather-glazing machine. 1,654,428; Dec. 27.

- Morgan, Evor P., et al. (See Anthony, Daniel L., assignor.)
- Morgan, George S., Toledo, Ohio. Removing detergent salts from pickling liquids. 1,626,623; May 3.
- Morgan, Harry D., and F. P. Bushey, San Francisco, Calif.; said Bushey assignor to said Morgan. Dosage spoon. 1,619,878; Mar. 8.
- Morgan, Harry J. (See Poindexter, R. W., jr., and Morgan.)
- Morgan, Howard H., Hollywood, Calif. Mechanical toy. 1,623,886; Apr. 5.
- Morgan, Ira D., assignor of one-half to J. S. Morgan, Pittsburgh, Pa. Back-draft damper. 1,652,790; Dec. 13.
- Morgan, J. Scott. (See Morgan, Ira D., assignor.)
- Morgan, John A., Machinery Company. (See Morgan, John A., assignor.)
- Morgan, John A., assignor to The John A. Morgan Machinery Company, Los Angeles, Calif. Pump. 1,636,826; July 26.
- Morgan, John A., assignor to The John A. Morgan Machinery Company, Los Angeles, Calif. Pump. 1,652,317; Dec. 13.
- Morgan, John A., Machinery Company, The. (See Morgan, John A., assignor.)
- Morgan, John E. (See Morgan, Everett C. and J. E., and Pinkza.)
- Morgan, John F., Pittsburgh, and W. A. Jones, Hays, Pa. Medicinal spraying device. 1,650,460; Nov. 22.
- Morgan, John I., Farmville, N. C. Mattress. 1,644,600; Oct. 4.
- Morgan, John R. (See Jandus, H. S., and Morgan.)
- Morgan, John S., assignor to Thermal Industrial and Chemical (T. I. C.) Research Company Limited, London, England. Distillation. 1,622,964; Mar. 29.
- Morgan, John S., and D. Rider, assignors to Thermal Industrial and Chemical (T. I. C.) Research Company Limited, London, England. Distillation of tar. 1,635,896; July 12.
- Morgan, Lauret R., Salt Lake City, Utah. Can closure. 1,644,939; Oct. 11.
- Morgan, Lewis J., Syracuse, N. Y. Latch for automobile doors and the like. 1,639,434; Aug. 16.
- Morgan, Lewis J., Syracuse, N. Y. Latch for automobile doors and the like. 1,651,724; Dec. 6.
- Morgan, Mathew E., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Differential mechanism. 1,641,190; Sept. 6.
- Morgan, Merle, Steubenville, Ohio. Extension handle for wrenches. 1,643,027; Sept. 20.
- Morgan, Norris G., Galva, Ill. Grading apparatus. 1,640,365; Aug. 30.
- Morgan, Olive E., executrix. (See Morgan, Edmund C., assignor.)
- Morgan, Olive E., executrix. (See Morgan, Edmund C., assignor.)
- Morgan, Philip. (See Holden, A. P., Morgan, and Williams.)
- Morgan, Porter S., Norwalk, Conn., assignor to Morgan Blodgett Morgan, Inc., New York, N. Y. Shock-absorbing mechanism. 1,616,540; Feb. 8.
- Morgan, Ralph L., Worcester, assignor, by mesne assignments, to Greenfield Tap and Die Corporation, Greenfield, Mass. Fluid-pressure operating mechanism for reciprocating members. 1,633,837; June 21.
- Morgan, Ralph L., Worcester, assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Grinding machine. 1,633,558; June 21.
- Morgan, Rees C., assignor to Bethlehem Steel Company, Bethlehem, Pa. Gear-cutting machine. 1,651,614; Dec. 6.
- Morgan, Susanna. (See Reynolds, W. B., and Jackson, assignors.)
- Morgan, Walter. (See Moore, W. D., and Morgan.)
- Morgan, William A. (See Lauver, George A., assignor.)
- Morgan, William C., Everett, Wash. Plastic composition. 1,626,859; May 3.
- Morgan, William H., jr. (See Morgan, William H., sr., assignor.)
- Morgan, William H., sr., assignor to W. H. Morgan, jr., Alliance, Ohio. Apparatus for disintegrating sugar cane. 1,648,761; Oct. 25.
- Morgan, William H., sr., assignor to W. H. Morgan, jr., Alliance, Ohio. Apparatus for and method of extracting juice from cane stalks. 1,646,762; Oct. 25.
- Morgan, William T., New Bedford, assignor to Whittin Machine Works, Whitinsville, Mass. Punch-building mechanism for spinning frames. 1,627,615; May 10.
- Morgan, Woods F., Bishopville, S. C. Scissors. 1,648,498; Nov. 8.
- Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
- Morgan & Wright. (See Cadwell, S. M., and Smith, assignors.)
- Morgan & Wright. (See Coffin, Joseph G., assignor.)
- Morgan & Wright. (See Fisher, George F., assignor.)
- Morgan & Wright. (See Hopkinson, E., and Coe, assignors.)
- Morgan & Wright. (See Lough, H. V., and Mix, assignors.)
- Morgan & Wright. (See Seiberling, George W., assignor.)
- Morgenroth, Charles R. (See Morgenroth, Edwin and C.)
- Morgenroth, Edwin L., Kewaskum, and C. R. Morgenroth, Milwaukee, Wis. Quack-grass-root rake. 1,626,046; Apr. 26.
- Morgenstern & Brosseau, Inc. (See Boffuss, Maurice, assignor.)
- Morgenthaler, William. (See Lewis, L. P., and Morgenthaler.)
- Mori, Charles R., New York, N. Y. Basket. 1,628,176; May 10.
- Moriarty, John H., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Testing apparatus. 1,637,956; Aug. 2.
- Moriarty, John J. (See Davis, Ralph C., assignor.)
- Mordland, Jean H. A., Amsterdam, Netherlands. Device for graphically indicating information on plans, maps, charts, or the like. 1,628,677; May 17.
- Morimura Bros., Inc. (See Tomita, Urasaburo, assignor.)
- Morin, Charles A., Boston, Mass. Making welt shoes. 1,617,132; Feb. 8.
- Morin, Charles A., Boston, Mass. Waterproofed insole. 1,638,504; Aug. 9.
- Morin, George S., Minneapolis, Minn. Attachment for shampoo boards. 1,617,537; Feb. 15.
- Morin, Henry L., Springfield, Mass. Safety device for feeding clothes to wringers. 1,651,615; Dec. 6.
- Morin, Leon J., Taunton, Mass. Amusement device. 1,637,124; July 26.
- Morin, Louis H., assignor to A. S. Phillips, New York, N. Y. Machine for making pyjama frogs. 1,639,098; Aug. 16.
- Morin, Louis H., assignor to A. S. Phillips, New York, N. Y. Machine for making pyjama frogs. 1,639,099; Aug. 16.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Company. Vending machine. 1,652,540; Dec. 13.
- Morin, Phyrne, and F. D. Lorenz, Burlingame, Calif. Shipping box and holder for flowers and the like. 1,640,797; Aug. 30.
- Morison, Thomas, Philadelphia, Pa. Shock absorber. Re1,652; J. 5.
- Morissette, Frank J., and A. Schinckz, Detroit, Mich. Assembling automobile springs. 1,652,791; Dec. 13.
- Morison, George S., assignor to Morison Incorporated, Pittsburgh, Pa. Ball transmission. 1,634,507; July 5.
- Morison Incorporated. (See Morison, George S., assignor.)
- Morkrum-Kleinschmidt Corporation. (See Faller, E. A., and Kleinschmidt, assignors.)
- Morkrum-Kleinschmidt Corporation. (See Kleinschmidt, Edward E., assignor.)
- Morkrum-Kleinschmidt Corporation. (See Krum, Charles L., and H. L., assignors.)
- Morkrum-Kleinschmidt Corporation. (See Krum, Howard L., assignor.)
- Morkrum-Kleinschmidt Corporation. (See Nelson, Carl E., assignor.)
- Morkrum-Kleinschmidt Corporation. (See Reiber, Albert H., assignor.)
- Morlan, Ernest E., Los Angeles, Calif. Stencil duplicating device. 1,643,028; Sept. 20.
- Morland and Impey, Limited. (See Horsfield, Walter R., assignor.)
- Morley, Charles F. (See Fairchild, E. E., Adamson, and Morley.)
- Morley, Denys W., Victoria, Hongkong, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,614,012; Jan. 11.
- Morley, Earl M., Delta, Ohio, assignor to The Air-Scale Company, Toledo, Ohio. Air-pressure regulator. 1,632,618; June 14.
- Morley, Earl M., Delta, Ohio, assignor to The Air-Scale Company, Toledo, Ohio. Tire-inflation mechanism. 1,632,619; June 14.
- Morley, Earl M., Delta, assignor to The Air-Scale Company, Toledo, Ohio. Pneumatic-tire-charging equipment. 1,633,492; June 21.
- Morley, Guilford S., University City, assignor to Majestic Manufacturing Company, St. Louis, Mo. Gas stove. 1,626,047; Apr. 26.
- Morley, Michael, Brooklyn, N. Y. Bolter. 1,625,046; Apr. 19.
- Morlock, Heinrich, Pforzheim, Germany. Magazine pencil. 1,644,740; Oct. 11.
- Moro Bros & Manufacturing Company, The. (See Monson, Martin L., assignor.)
- Morong, Alton E. (See Greene, W. E., and Morong.)
- Moroso, Bruno, New Orleans, La. Paper winder. 1,652,041; Dec. 6.
- Moross, Joseph A., Detroit, Mich. Producing imitation marb. 1,623,967; Apr. 12.
- Morrall, Samuel E. (See Morrall, William W., assignor.)
- Morrall, William W., assignor of one-half to S. E. Morrall, Morrall, Ohio. Corn-busking machine. 1,628,325; May 10.
- Morreall, Herbert W., Pine Grove, Pa. Furnace-door fastener. 1,642,621; Sept. 13.
- Morse, Charles G., Oak Park, Ill. Bumper. 1,614,251; Jan. 11.
- Morrell, Jacques C., Oak Park, Ill. Making covering material. 1,618,102; Feb. 15.
- Morrell, Jacques C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of petroleum residue. 1,618,669; Feb. 22.
- Morrell, Jacques C., and S. Comay, assignors to Universal Oil Products Company, Chicago, Ill. Purifying hydro-like bodies from cracked hydrocarbon products. 1,627,054; May 3.

- Morrell, Jacques C., and G. Egloff, assignors to Universal Oil Products Company, Chicago, Ill. Obtaining resin-carbon oils. 1,627,055; May 3.
- Morrell Mills, Inc. (See Holmes, Benjamin, assignor.)
- Morrill, Alfred R. (See Topham, L. E., and Morrill.)
- Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,635,556; July 12.
- Morrill, Charles H., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last. 1,627,661; May 10.
- Morrill, Richard R., Palo Alto, Calif., assignor, by mesne assignments, to Oliver Oil-Gas Burner and Machine Company, St. Louis, Mo. Drier. 1,634,882; July 5.
- Morrill, William C., New York, N. Y. Liquid-soap dispenser. 1,647,245; Nov. 1.
- Morrill, William V. (See Morrill, William W., and W. V.)
- Morrill, William W., and W. V., Spokane, Wash. Velocipede. 1,632,092; June 14.
- Morris, Adrian K., Atlanta, Ga. Face mask. 1,627,523; May 3.
- Morris, Alexander, and V. L. Morris, San Francisco, Calif. Set-shift parallel ruler. 1,633,493; June 21.
- Morris, Archibald W., Kulara, via Cairns, Queensland, Australia. Brook. 1,635,724; July 12.
- Morris, Carl, Brooklyn, N. Y. Faucet-bulb connection. 1,628,733; May 17.
- Morris, Charles E., Philadelphia, Pa. Toy wagon. 1,642,591; Sept. 13.
- Morris, Daniel, St. Petersburg, Fla. Traffic signal. 1,647,012; Oct. 25.
- Morris, Earl V., Big Lake, Tex. Air washer for internal-combustion engines. 1,619,029; Mar. 1.
- Morris, Edmund, assignor to Grand Rapids Store Equipment Corporation, Grand Rapids, Mich. Furniture construction. 1,633,345; June 21.
- Morris, Edward M., Rochester, N. Y. Lifting tongs. 1,625,524; May 3.
- Morris, Fred C., San Francisco, Calif. Bushing for steering columns. 1,636,528; July 19.
- Morris, George A., and C. S. Pallot, Port Haney, British Columbia, Canada. Recording device for farm use. 1,626,473; Apr. 26.
- Morris, George D., assignor to New Castle Refractories Company, New Castle, Pa. Refractory body. 1,642,886; Sept. 20.
- Morris, George D., New Castle, Pa., assignor to American Dresser Tunnel Kins, Inc., Cleveland, Ohio. Kilm car. 1,620,338; Sept. 20.
- Morris, George E. (See Morris, George J., assignor.)
- Morris, George J., Omaha, Nebr., assignor to G. E. Morris, Los Angeles, Calif. Mixing valve. 1,632,450; June 14.
- Morris, George M., Richmond, Calif. Bow guide for violins and the like. 1,623,633; Apr. 5.
- Morris, George T., Missoula, Mont. Pet-cock and priming-cup cleaner. 1,633,264; June 21.
- Morris, Guy T. (See Richard, C. D., and Morris.)
- Morris, Harry A., Marietta, Ohio. Ratchet-operating device. 1,630,403; May 31.
- Morris, Harry J., Pasadena, Calif. Orthopedic appliance. 1,635,793; July 12.
- Morris, Herbert, South Valley, N. Y. Stone picker. 1,625,560; Apr. 19.
- Morris, Herbert, Incorporated. (See Parrish, Donald E., assignor.)
- Morris, Howard A. (See Aldrich, J. P., and Morris.)
- Morris, Howard I., Lakewood, assignor to Cord Tire Machine Company, Cleveland, Ohio. Apparatus for winding material. 1,624,272; Apr. 12.
- Morris, Howard I., assignor to The Yoder-Morris Company, Cleveland, Ohio. Stripping machine. 1,650,147; Nov. 22.
- Morris, Howard K. (See Wolfram, George H., assignor.)
- Morris, I. P., Corporation. (See Larner, Chester W., assignor.)
- Morris, James W., New Holland, Ohio. Wire-fence guard. 1,644,846; Oct. 11.
- Morris, John J., Audubon, N. J., and L. N. Gulick, Germantown, assignors, by mesne assignments, to R. C. Schroeder, Philadelphia, Pa. Internal-combustion engine. 1,651,147; Nov. 29.
- Morris, John O., Washington, D. C., assignor to Eclipse Cigar Stemming Machinery Company, Tobacco-stemming machine. 1,612,938; Jan. 4.
- Morris, Jolly L., Crafton, Pa. Combination table and food cabinet. 1,642,687; Sept. 20.
- Morris, Jolly L., Crafton, and C. H. Allen, Pittsburgh, assignors of one-half to W. F. E. H., and E. B. Fried, Pittsburgh, Pa. Sausage-twisting machine. 1,621,994; Mar. 22.
- Morris, Leonard D., Chicago, Ill. Sound amplifier. Des. 72,181; Mar. 8.
- Morris, Mary, New London, Conn. Savings bank. 1,653,553; Dec. 27.
- Morris, Mathias J., Lennox, S. Dak. Washing-machine attachment for purpose of making ice cream. 1,649,968; Nov. 22.
- Morris, Newton, Fond du Lac, Wis. Drain trap. 1,625,681; Apr. 19.
- Morris, Percival S., Brooklyn, N. Y. Fountain pen and pencil. 1,632,710; June 14.
- Morris, Raymond C., Kalamazoo, Mich. Garment fastener or pin. 1,618,384; Feb. 22.
- Morris, Raymond L., assignor to Lewers & Cooke, Ltd., Honolulu, Hawaii. Building block. 1,634,157; June 28.
- Morris, Robert W., Roslyn, N. Y., assignor to American Telephone & Telegraph Company. Ambulatory repeating system. 1,624,966; Apr. 19.
- Morris, Roger T., Seattle, Wash. Self-serving-store equipment. 1,625,490; Apr. 19.
- Morris, Roy H., Oakland, Calif. Direction indicator. 1,641,774; Sept. 6.
- Morris, Ruston L., Tulsa, Okla. Self-locking liquid-level gauge. 1,627,058; May 3.
- Morris, Thomas W., Liverpool, England. Preservation of bacon or ham. 1,627,057; May 3.
- Morris, Troy, Morehead City, N. C. Oil pan for oil stoves. 1,642,592; Sept. 13.
- Morris, Victoria L. (See Morris, Alexander and V. L.)
- Morris, Warren A., Wyoming, assignor to The Richardson Company, Lockland, Ohio. Carton. 1,630,497; May 31.
- Morris, Warren A., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Carton. 1,654,140; Dec. 27.
- Morris, Wilfred, and C. Wyrostok, Trenton, N. J. Traffic guide marker. 1,617,720; Feb. 15.
- Morris, William L., Oak Park, Ill. Hydraulic draft controller. 1,645,713; Oct. 18.
- Morris, William L., assignor to Gulbrandsen Company, Chicago, Ill. Reproduction of music. 1,623,968; Apr. 12.
- Morrisey, George, Joliet, assignor of one-half to T. A. Banning, Jr., Wilmette, Ill. Internal-combustion engine. 1,649,246; Nov. 15.
- Morrison, Andrew M., Dubuque, Iowa. Gate valve. 1,636,427; May 3.
- Morrison, Andrew M., Dubuque, Iowa. Crank-case and pit drainer. 1,651,616; Dec. 6.
- Morrison, Benjamin R., Wilmington, N. C. Container for cosmetics and like materials. 1,650,028; Nov. 22.
- Morrison, Budd L. (See Everett, William J., assignor.)
- Morrison, Frank E., assignor to The Power Manufacturing Company, Marion, Ohio. Governor. 1,640,713; Aug. 30.
- Morrison, George A., Park Ridge, assignor to Torchwell Equipment Co., Chicago, Ill. Torch. 1,633,265; June 21.
- Morrison, J. L., Company, The. (See Allen, Howard G., assignor.)
- Morrison, James, assignor to The Highland Body Manufacturing Company, Cincinnati, Ohio. Vehicle body door. 1,621,802; Mar. 22.
- Morrison, Joe W., Washington, D. C., assignor to General Motors Corporation, Detroit, Mich. Engine-starting apparatus. 1,640,714; Aug. 30.
- Morrison, Lewis E., Newark, N. J. Malted-milk dispenser. 1,617,922; Feb. 15.
- Morrison, Margaret, administratrix. (See Morrison, Wilhelmina.)
- Morrison, Max P., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Aerial tramway bucket. 1,652,209; Dec. 13.
- Morrison, Montford, New York. Electrode and degasifying the same. 1,615,994; Feb. 1.
- Morrison, Montford, Chicago, Ill. Electron-discharge apparatus. 1,616,792; Feb. 8.
- Morrison, Montford, Chicago, Ill. X-ray apparatus. 1,617,267; Feb. 8.
- Morrison, Montford, New York, N. Y. X-ray tube. 1,621,852; Mar. 22.
- Morrison, Montford, New York, N. Y. X-ray-tube radiator. 1,626,687; May 3.
- Morrison, Montford, New York, N. Y. Current-regulating apparatus. 1,628,678; May 17.
- Morrison, Montford, New York, N. Y. X-ray apparatus. 1,639,464; Aug. 16.
- Morrison, Peter B., Arlington, assignor to Henry Cole & Company, Boston, Mass. Electric-lamp socket. 1,635,688; July 12.
- Morrison, Robert A., and F. L. Oswald, Portland, Oreg. Ironing board. 1,626,624; May 3.
- Morrison, Samuel E., Lynn, Mass. Gradometer. 1,620,380; Mar. 9.
- Morrison, Shirley J., San Fernando, Calif. Air-washer attachment. 1,615,337; Jan. 25.
- Morrison, Simon, Brooklyn, N. Y. Double-swinging-mirror compact case. 1,626,474; Apr. 26.
- Morrison, Theodore S., Chicago, Ill. Davenport bed. 1,631,600; July 12.
- Morrison, Walter L. (See Brant, Joseph S., assignor.)
- Morrison, William, deceased, Chicago, Ill., M. Morrison, administratrix. Electrolytic rectifier. 1,647,649; Nov. 1.
- Morrison, William, deceased, Chicago, Ill., M. Morrison, administratrix. Electrolytic rectifier. 1,647,650; Nov. 1.
- Morrison, William, assignor to Vesta Battery Corporation, Chicago, Ill. Battery grid. 1,650,530; Nov. 22.
- Morrison, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Safety device for oil-injecting engines. 1,651,066; Nov. 29.
- Morrison, William E., Granite City, Ill., assignor of one-half to I. R. Hurwitz. Window fastener. 1,637,910; Aug. 2.
- Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Thermostatically-controlled gas valve. 1,648,910; Nov. 15.

- Morrow, Cornelius G., and S. H. Oakes, Thomasville, N. C. Combined wardrobe and dresser. Des. 72,718; May 24.
- Morrow, Dwight S., Milan, Ohio. Plural liquid-distributing system. 1,635,381; July 12.
- Morrow, Forrest L., Chicago, Ill. Automatic potato-chip machine. 1,629,355; May 17.
- Morrow, Frank C., Wellston, Ohio. Feeding apparatus. 1,652,250; Dec. 13.
- Morrow, Grant, (See Ramsey, Henry W., assignor.)
- Morrow, Howard W. (See Bayles, L. C. and Morrow.)
- Morrow, James B., Oakland, Calif. Pocket construction. 1,615,516; Jan. 26.
- Morrow, Louis, Ontario, Calif. Railway-track-crossing structure. 1,626,146; Apr. 26.
- Morrow, Robert B., Brunswick, Victoria, Australia. Agricultural implement. 1,637,424; Aug. 2.
- Morse, Albert W., Long Island City, N. Y. Burner support. 1,628,470; May 10.
- Morse, Albert W., Long Island City, N. Y. Liquid and gas mixer. 1,629,288; May 17.
- Morse, Albert W., Long Island City, N. Y. Oil-fired kiln. 1,632,143; June 14.
- Morse Chain Company. (See Morse, Frank L., assignor.)
- Morse, Clyde S., De Kalb, Ill. Resilient tire. 1,630,350; May 31.
- Morse, Delbert F., Lakeport, N. H. Motor-driven shears. 1,642,259; Sept. 13.
- Morse, Edgar, Rock Island, Ill. Lock nut. 1,629,726; May 24.
- Morse, Edward J. (See Dawson, Sidney, assignor.)
- Morse, Frank L., Ithaca, N. Y., assignor to Morse Chain Company. Power drive chain. 1,624,058; Apr. 12.
- Morse, Frank L., Ithaca, N. Y., assignor to Morse Chain Company. Drive chain. 1,634,334; July 5.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Chain-adjusting device. 1,648,911; Nov. 15.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Chain-adjusting device. 1,651,831; Dec. 6.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Drive chain. 1,651,832; Dec. 6.
- Morse, Frank W., San Fernando, Calif. Quick-releasing key holder. 1,622,532; Mar. 29.
- Morse, Lawrence H., assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feeding mechanism. 1,621,678; Mar. 22.
- Morse, Lawrence H., Cleveland, assignor to The American Multigraph Company, Cleveland, Ohio. Addressing machine. 1,627,662; May 10.
- Morse, Lawrence H., Cleveland, Ohio, assignor to The American Multigraph Company. Printing machine with changeable form. 1,627,663; May 10.
- Morse, Lawrence H., assignor to The American Multigraph Company, Cleveland, Ohio. Printing press. 1,638,543; Aug. 9.
- Morse, Lawrence H., assignor to The American Multigraph Company, Cleveland, Ohio. Printing press. 1,638,544; Aug. 9.
- Morse, Lawrence H., assignor to The American Multigraph Company, Cleveland, Ohio. Paper detector for printing machines. 1,640,368; Aug. 30.
- Morse, Ora A. (See Blackden, Perry D., assignor.)
- Morse, Raymond P., Scarsdale, N. Y., assignor to Cantilever Corporation. Shoe-fitting device. 1,644,075; Oct. 4.
- Morse, Robert V., Ithaca, N. Y. Electromagnetic brake. 1,629,084; May 17.
- Morse, Tally W., New York, N. Y. Transfer sheet. 1,620,981; Mar. 15.
- Morse, William J., Attleboro, Mass. Belt buckle. 1,616,195; Feb. 1.
- Morser, Harry, assignor to Harry Morser & Company (Wireless) Limited, London, England. Earpiece for sound receivers. 1,615,028; Jan. 18.
- Morser, Harry, & Company (Wireless) Limited. (See Morser, Harry, assignor.)
- Morshend, Howard, and H. H. Wiggleworth, assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. 1,620,120; Mar. 8.
- Mortag, Edward H., assignor to Koehring Company, Milwaukee, Wis. Extension side loader. 1,617,820; Feb. 15.
- Morten, Joseph, Jr., Hartington, Nebr. Mail-box support. 1,645,768; Oct. 18.
- Morten, Louis G., Jersey City, N. J. Tennis racket. 1,621,746; Mar. 22.
- Mortensen, Frantz, Helsingfors, Finland. Speed indicator. 1,630,963; May 31.
- Mortensen, Jens, Freeport, and L. Tropp, Brooklyn, N. Y., assignors, by mesne assignments, to Steiner Sales Company. Pawl mechanism. 1,614,847; Jan. 13.
- Mortensen, Niels L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. 1,643,127; Sept. 20.
- Mortensen, Niels L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor control. 1,652,831; Dec. 13.
- Morter, Harvey B., Ainsworth, Nebr. Prairie-fire fighter. 1,629,044; May 17.
- Morthland, George W., Lead, S. Dak. Ore-grinding machine. 1,620,276; Mar. 8.
- Mortimer, Albert, Chicago, Ill. Money tray for bankers and the like. 1,619,528; Mar. 1.
- Mortimer, John N., Lakewood, assignor to The Central Brass Manufacturing Company, Cleveland, Ohio. Valve for plumbing fixtures. 1,630,351; May 31.
- Mortimer, John N., Lakewood, assignor to The Central Brass Manufacturing Company, Cleveland, Ohio. Waste valve for bathtubs and lavatories. 1,630,352; May 31.
- Mortimer, Louis A., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,617,413; Feb. 15.
- Mortimer, Stockton H., Philadelphia, Pa. Roller clutch. 1,634,202; June 28.
- Morka, John, Poughkeepsie, N. Y. Sanitary-toilet-seat-perforating machine. 1,640,285; Aug. 23.
- Morka, Alexander, Glen Ridge, N. J. Audion-bulb socket. 1,649,969; Nov. 22.
- Morton, Alexander K., and J. A. Halloran, South Norwalk, assignors to The Norwalk Lock Company, Norwalk, Conn. Hotel lock. 1,628,264; May 10.
- Morton, Allen W., Baltimore, Md. Face-grinding machine. 1,640,715; Aug. 30.
- Morton, Charles, Pawtucket, R. I. Spinning frame. 1,619,985; Mar. 8.
- Morton, Charles, Pawtucket, R. I. Spinning frame. 1,619,986; Mar. 8.
- Morton, Charles A., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. 1,632,035; June 14.
- Morton, Charles P., Cincinnati, Ohio. Last lathe. 1,630,304; May 31.
- Morton, Frank M., Phoenix City, Ala. Calendar rack. 1,627,958; May 10.
- Morton, Harry D., New York, N. Y., assignor to Automatic Arc-Welding Company, Detroit, Mich. Arc-welding system. 1,620,219; Mar. 8.
- Morton, Harry D., New York, N. Y. Guide and conductor for welding electrodes. 1,620,220; Mar. 8.
- Morton, Harry D., New York, N. Y. Automatic electric arc welding device and operating the same. 1,634,624; July 5.
- Morton, Harry D., New York, N. Y., assignor to Automatic Arc-Welding Company, Detroit, Mich. Electric-arc welding. 1,648,560; Nov. 8.
- Morton, Harry D., New York, N. Y., assignor to Automatic Arc-Welding Company, Detroit, Mich. Apparatus for arc welding. 1,648,561; Nov. 8.
- Morton, Harry D., New York, N. Y., assignor to Automatic Arc-Welding Company, Detroit, Mich. Electric-arc welding control method and means. 1,648,562; Nov. 8.
- Morton, Harry D., New York, N. Y., assignor to Automatic Arc-Welding Company, Detroit, Mich. Electric-arc welding apparatus. 1,648,563; Nov. 8.
- Morton, Harry U., Chicago, Ill., assignor to Morton Manufacturing Co. Car diaphragm and forming the same. 1,626,048; Apr. 26.
- Morton, Laszlo. (See Nagy, Louis, assignor.)
- Morton Machine Works. (See Brown, Oscar, assignor.)
- Morton Manufacturing Co. (See Morton, Harry U., assignor.)
- Morton, Marshall J., Stockton, Calif. Grease-dispensing device. 1,652,318; Dec. 13.
- Morton, Ralph H., Weymouth, Mass. Bowling game apparatus. 1,650,029; Nov. 22.
- Morton, Theodore S., St. Louis, Mo. Refrigerator. 1,623,802; Apr. 6.
- Morton, Thomas, Moseley, England. Stud-and-socket-type fastenings. 1,631,880; June 7.
- Morton, William A., assignor to The Amsler-Morton Company, Pittsburgh, Pa. Recuperator. 1,619,747; Mar. 1.
- Morton, William A., assignor to The Amsler-Morton Company, Pittsburgh, Pa. Recuperator. 1,652,210; Dec. 13.
- Morton, William P. (See Green, T. L., Morton, and Williams.)
- Mosaic Tile Company, The. (See Jordan, Roy E., assignor.)
- Moscate, Guy, Salamanca, N. Y. Tire alarm. 1,646,164; Oct. 18.
- Moschel, Wilhelm, and P. Siedler, Griesheim-on-the-Main, assignors to the Firm I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Desiccation of molten-metal chlorides. 1,650,531; Nov. 22.
- Moscini, Antonio, Brooklyn, N. Y. Rhinestone-setting machine. 1,649,840; Nov. 15.
- Moscini, John, St. Louis, Mo. Multicolor printing, drying, and embossing machine. 1,651,928; Dec. 6.
- Moscovitz, Samuel H., New Haven, Conn. Clock-spring support. 1,621,894; Mar. 22.
- Moscovitz, Benjamin, Brooklyn, N. Y. Undergarment. 1,618,991; Mar. 1.
- Moscip, L. S., et al. (See Benson, Samuel C., assignor.)
- Mose, Carl C., Chicago, Ill., assignor to The Studebaker Corporation, South Bend, Ind. Automobile radiator-cum ornament. Des. 72,182; Mar. 8.
- Mosebach Electric & Supply Company. (See Schenk, Eduard, assignor.)
- Mosebach, Karl J., Pittsburgh, Pa. Terminal structure for rail bonds. 1,634,678; July 5.
- Mosel, Joseph E., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Discharge mechanism for mixers. 1,619,626; Mar. 1.
- Mosel, Joseph H., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Driving mechanism for track-laying vehicles. 1,646,552; Oct. 25.

- Moseley, James F., Manchester, England. Deterative compound. 1,627,446; May 8.
- Moseley, Lyon M. (See Joiner, George F., assignor.)
- Moseley, William S. (See Bergendahl, O. E., and Rimel, assignors.)
- Mosen, Carl, and W. J. Coleman, Bend, Oreg. Transfer table for sawmills. 1,629,225; May 17.
- Moser, Alexander, Bayside, N. Y. Umbrella. 1,613,287; May 8.
- Moser, Alexander, Bayside, N. Y. Automatic valve. 1,626,147; Apr. 26.
- Moser, Felix, Holland, Mich. Wrench for screw-top jars. 1,631,689; June 7.
- Moser, Otto, Industrie-Mombach, assignor to Verein für Chemische Industrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Extracting of gualacol. 1,651,617; Dec. 6.
- Moser, William A., St. Louis, Mo. Clamp. 1,615,338; Jan. 25.
- Moss, Abram, Baltimore, Md. Draft-actuated circulating pump and indicator. 1,622,662; Mar. 29.
- Moses, Ashleigh S., New York, N. Y. Apparatus for thickening and washing materials. 1,626,951; May 8.
- Moses, Edmund Q. (See Iserman, S., Vernet, and Orosz, assignors.)
- Moses, Edmund Q., New York, N. Y., G. E. Terwilliger, deceased (L. E. M. Terwilliger, executrix), Newark, and W. P. Hammond, Passaic, N. J. Indicating device. 1,621,995; Mar. 22.
- Moses, Wade, Cleveland, Ohio. Guard for poison bottles. 1,642,397; Sept. 6.
- Mosseson, Sidney, Chicago, Ill. Picture frame. 1,649,415; Nov. 15.
- Moshelm, Albert, East Orange, N. J. Dispensing receptacle. 1,636,063; July 19.
- Moshier, Charles D., Hyde Park, Mass. Air-heating apparatus. Reib. 651; Jan. 11.
- Moshier, George M., Jenkins Township, Mitchell County, Iowa. Combination power-transmission device. 1,624,145; Apr. 12.
- Moshier, Peter W., Stockton, Calif. Train-control system. 1,649,970; Nov. 22.
- Mosier, Sherman L., Coffeeville, Miss. Seed-gathering device. 1,626,207; Apr. 26.
- Mosier, Peter, Grand Rapids, Mich. Cart. 1,649,170; Nov. 15.
- Moskovics, F. E. (See Crawford, C. S., and Wall, assignors.)
- Moskovics, Frederic E. (See Bastien, P., and Crawford, assignors.)
- Moskovics, Fredric E., Indianapolis, Ind. Engine hood. Des. 72,677; May 17.
- Mosler, Arthur R., New York, N. Y. Spark timer. 1,632,413; Jan. 14.
- Mosler Safe Company, The. (See Bartels, Carl, assignor.)
- Mosler Safe Company, The. (See Bartels, C., and Goebel, assignors.)
- Mosler Safe Company, The. (See Bates, Charles J., jr., assignor.)
- Mosler Safe Company, The. (See Bellamore, David H., assignor.)
- Mosler Safe Company, The. (See Benham, Edgar M., assignor.)
- Mosler Safe Company, The. (See Goldsmith, G. M., and Bartels, assignors.)
- Moss, Arthur, assignor to Electrad, Inc., New York, N. Y. Fixed condenser. 1,642,688; Sept. 20.
- Moss Brothers. (See Moss, Fred J., assignor.)
- Moss, Charles M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,649,038; Nov. 15.
- Moss, Charles M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic transformer-switching system. 1,654,303; Dec. 27.
- Moss, David H., Brooklyn, assignor by mesne assignments, to Brandes Laboratories, Inc., Newark, N. J. Mounting for acoustic horns. 1,647,462; Nov. 1.
- Moss, David H., assignor to Brandes Laboratories, Inc., Newark, N. J. Phonograph attachment. 1,650,089; Nov. 22.
- Moss, Fred J., assignor to Moss Brothers, Conneaut Lake, Pa. Septic tank. 1,638,869; Aug. 16.
- Moss, James W. S. (See Kinsley, L., and Moss.)
- Moss, Roy M., and O. B. Pulls, assignors to Metal Forms Corporation, Milwaukee, Wis. Curb and gutter form. 1,615,178; Jan. 18.
- Moss, Samuel, New York, N. Y. Display box. 1,641,861; Sept. 8.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Turbine rotor. 1,614,145; Jan. 11.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Feed-water heater. 1,628,471; May 10.
- Moss, Sanford A., and M. G. Robinson, Lynn, Mass., assignors to General Electric Company. Centrifugal pump and compressor. 1,617,133; Feb. 8.
- Mossbach, Henry, Seattle, Wash. Gasoline gauge. 1,635,382; July 12.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Connecting two members which are not adapted to be welded together. 1,630,668; May 31.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Carrier for braiding machines. 1,630,669; May 31.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel. 1,630,670; May 31.
- Mossberg, Frank, Providence, R. I., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Carrier for braiding machines. 1,633,346; June 21.
- Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
- Mosser, Edward B., Trooper, Pa. Stocking. Des. 74,118; Dec. 20.
- Mosshart, Donald J., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Stoker. 1,619,480; Mar. 1.
- Mossmann, Orron P., Eldora, Iowa, and F. R. Niven, Rochester, N. Y. Horseshoe. 1,646,627; Oct. 25.
- Motherwell, Joseph W., Melrose, and H. S. Baker, Arlington, assignors to The Ashton Valve Company, Cambridge, Mass. Retard device. 1,621,738; Mar. 22.
- Motobile Products Company, The. (See Bauerle, Charles E., assignor.)
- Motobile Products Company, The. (See Peterson, Elmer C., assignor.)
- Motogram Corporation. (See Wilde, Francis E. J., assignor.)
- Motor Car Advertising Device Co. (See Dobrowsky, Emmanuel, assignor.)
- Motor Improvements, Inc. (See Liddell, Robert P. F., assignor.)
- Motor Improvements, Inc. (See Ward, Marshall H., assignor.)
- Motor Industries, Inc. (See Bendix, Vincent, assignor.)
- Motor Industries, Inc. (See La Brie, Ludger E., assignor.)
- Motor Industries, Inc. (See White, D'Orsay M., assignor.)
- Motor Patents Corporation. (See Hutchinson, Uriah, assignor.)
- Motor Payer Corporation, The. (See Hanson, Clinton H., assignor.)
- Motor Products Corporation. (See Pritchard, William S., assignor.)
- Motor Terminals Company. (See Bates, Albert H., assignor.)
- Motor Terminals Company. (See Borkes, Francis W., assignor.)
- Motor Wheel Corporation. (See Forsyth, George H., assignor.)
- Motor Wheel Corporation. (See Huber, Matthew W., assignor.)
- Motor Wheel Corporation et al. (See Putnam, Alden L., assignor.)
- Motor Wheel Corporation. (See Winter, John R., assignor.)
- Motschman, Henry H., assignor to Union Bed and Spring Company, Chicago, Ill. Hinge. 1,636,529; July 19.
- Mott, Abram C., jr., assignor to Abram Cox Stove Company, Lansdale, Pa. Tank heater. 1,635,052; July 5.
- Mott, Abram C., jr., assignor to Abram Cox Stove Company, Philadelphia, Pa. Grate bar. 1,637,957; Aug. 2.
- Mott, Carl W., Rock Falls, assignor to The Rich Manufacturing Company, Sterling, Ill. Animal toy. 1,621,803; Mar. 22.
- Mott, Chester, assignor to Compressed Gas Corporation, Denver, Colo. Producing oxygen and ammonia. 1,613,405; Jan. 4.
- Mott, Chester, assignor, by mesne assignments, to Purox Company, Denver, Colo. Cartridge for use with liquid oxygen and producing same. 1,650,768; Nov. 29.
- Mott, Darwin. (See Blanchard, E. H., and Mott.)
- Mottier, Walter F., El Campo, Tex. Hayrake. 1,623,062; Apr. 5.
- Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic switch. 1,645,290; Oct. 11.
- Mougey, Harry C., assignor to General Motors Research Corporation, Dayton, Ohio. Uniting dissimilar metals. 1,647,741; Oct. 11.
- Mougey, Harry C., assignor to General Motors Research Corporation, Dayton, Ohio. Bonding dissimilar metals. 1,651,403; Dec. 6.
- Mougin, Valerie J., Springfield, Mass. Hair-waving device. 1,622,798; Mar. 29.
- Mould, Albert B., Toronto, Ontario, Canada. Vehicle signal. 1,651,618; Dec. 6.
- Mould, James A., assignor to Evinrude Motor Company, Milwaukee, Wis. Antitilting lock for reversible outboard motors. 1,621,747; Mar. 22.
- Moulthrop, Lambert H., South Norwalk, Conn. Fusing material and delivering the same. 1,652,409; Dec. 13.
- Moulton, Harley C., Maplewood, Mo., assignor, by mesne assignments, to Lewis Invisible Stitch Machine Co. Garment and like article of manufacture. Reib. 686; July 19.
- Moulton, Harold R. (See Tillyer, E. D., and Moulton.)
- Mound City Wood Heel & Mfg. Co. (See Marshall, David G., assignor.)
- Mt. Carmel Mfg. Co., The. (See Goodman, Joseph, assignor.)
- Mount Clemens Pottery Company. (See Markert, Franz, assignor.)
- Mountford Bros. (See Mountford, Sidney O., assignor.)
- Mountford, Sidney O., assignor to Mountford Bros., Newark, N. J. Ring gauge. 1,634,378; July 5.

- Mountford, William S., Dumont, N. J., assignor to W. Dublier, New York, N. Y. Mousetrap. 1,630,241; May 24.
- Mourer, Sarah M., Philadelphia, Pa. Toy vehicle. 1,632,308; June 14.
- Moushon, Richard S., Peoria Heights, assignor of one-half to W. G. Hiller, Peoria, Ill. Fireworks holder. 1,634,232; June 28.
- Moutier, Ernest A., Paris, France. Brake for railway trains. 1,641,092; Aug. 30.
- Moutray, Fred L. (See Akers, E., Mims, Moutray, and Miller.)
- Mowbray, James W., Windsor, Ontario, Canada, assignor, by mesne assignments, to The Automotive Corporation, Fort Wayne, Ind. Line-control tractor. 1,632,911; June 21.
- Mowbray, Robert T., Waterloo, Iowa. Road grader. 1,617,538; Feb. 15.
- Mowitz, Albert C., Philadelphia, Pa., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Cabinet for sound reproducing mechanism. Des. 72,106; Mar. 1.
- Mowies, Cecil A., Drill, assignor of one-half to W. H. McIlhenny, Bluefield, W. Va. Portable mounting for electric drills. 1,630,205; May 24.
- Mowry, Harold B., Sterling, Conn. assignor to The United States Finishing Company, New York, N. Y. Method and mechanism for marking materials. 1,630,271; May 31.
- Mowry, Preston W., assignor to The Nu-Idea Company, Inc., Boston, Mass. Demonstrating machine. 1,638,406; Aug. 9.
- Mowry, Robert D., assignor to Universal Battery Company, Chicago, Ill. Indicator for storage batteries. 1,625,047; Apr. 18.
- Moxley, Stephen D. (See Moore, J. W., and Moxley.)
- Moxley, William M., Marceline, Mo. Automatic controlling mechanism for automobiles, trucks, trailers, and the like. 1,636,064; July 19.
- Moyer, Amos F., assignor to Precision Balancing Machine Company, Minneapolis, Minn. Computing instrument for balance corrections. 1,615,339; Jan. 25.
- Moyer, Edward A., West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Tailstock clamp. 1,616,136; Feb. 1.
- Moyer, Edward A., West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Thread-chaser-grinding machine. 1,619,361; Mar. 1.
- Moyer, Fredella H., Canton, Ohio. Joining serrated steel structural units. 1,644,940; Oct. 11.
- Moyer, Fredella H., Canton, Ohio. Welding structural members. 1,646,974; Oct. 25.
- Moyer, Guy H., and R. F. Aucker, Freeburg, Pa. Folding piano-shipping case. 1,642,381; Sept. 13.
- Moyer, James M., and H. C. Kofoed, Yuma, Colo. Cultivator. 1,645,507; Oct. 11.
- Moyer, Paul S., assignor to The Aridor Company, Chicago, Ill. Dehydrating unit. 1,644,753; Jan. 18.
- Moyer, Paul S., assignor to The Aridor Company, Chicago, Ill. Container. 1,646,702; Oct. 25.
- Moyers, George F., Osceola, Iowa. Poultry feeder. 1,620,607; Mar. 8.
- Moyzhan, Free, Chicago, Ill. Interchangeable sign. 1,644,742; Oct. 15.
- Muelle, Andrew, Eureka, Calif. Massaging machine. 1,612,981; Jan. 4.
- Mross, Edward, assignor to Hamilton Beach Mfg. Co., Racine, Wis. Motor mounting. 1,647,743; Nov. 1.
- Mross, Edward, and W. Ernst, assignors to Hamilton Beach Mfg. Co., Racine, Wis. Motor bracket. 1,628,855; May 17.
- Mrozek, Gustav, Chicago, Ill. Cooftop attachment. 1,654,185; Dec. 27.
- Muar, George H., New York, N. Y. Garter. Des. 71,846; Jan. 11.
- Mucci, Frank, New York, N. Y. Toy. Des. 73,328; Aug. 23.
- Mucher, John J., Brooklyn, N. Y. Combination terminal. 1,627,447; May 3.
- Muckin, Henry B., Atchison, Kans. Engine. 1,634,335; July 5.
- Muckenfuss, Anthony M., Woodbridge, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Producing aqueous solutions of free cyanamid. 1,622,731; Mar. 22.
- Mudd, Garrett W., Chicago, Ill. Machine for making compacts, tablets, wafers, and the like. 1,626,860; May 3.
- Mudd, Garrett W., assignor of one-half to H. R. Baker, Chicago, Ill. Can-cover feeding and applying machinery. 1,648,003; Nov. 8.
- Muddman, Ernest W. (See Davidson, W. B., Michie, and Muddman.)
- Mudge, Charles A., Elizabeth, assignor to Electro Dynamic Company, Bayonne, N. J. Electrical machine. 1,612,828; Jan. 4.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Transferring the matrices from the first elevator to the second elevator of a matrix-composing and line-casting machine. 1,645,615; Oct. 18.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Transferring the matrices from the first elevator to the second elevator of a matrix-composing and line-casting machine. 1,645,616; Oct. 18.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Slug-ejecting mechanism for matrix-composing and line-casting machines. 1,649,844; Nov. 22.
- Muehlman, Henry J., Hamilton, Ontario, Canada. Clamp. 1,646,355; Oct. 18.
- Muehlenbeck, Fred P., assignor to E. C. Gmelin, Chicago, Ill. Heater. 1,629,116; May 17.
- Muehlhause, Gerhard F., Bartlett, Tex. Flow. 1,632,345; June 14.
- Muelberger, Walter, Maplewood, N. J., assignor to Nathan & Cohen, Compay, Inc., New York, N. Y. Textile fabric and treating the same. 1,615,205; Jan. 18.
- Mueller, Adolph, trustee. (See Hathaway, Chester W., assignor.)
- Mueller, Adolph, trustee. (See Mueller, Lucien W., assignor.)
- Mueller, Adolph, trustee. (See Mueller, Lucien W., and R. H., assignors.)
- Mueller, Adolph, trustee. (See Mueller, P., and Hill, assignors.)
- Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
- Mueller, Adolph, trustee. (See Mueller, R., and Mix, assignors.)
- Mueller, Adolph, trustee. (See Mueller, Robert H., assignor.)
- Mueller, Adolph, trustee. (See Wagenseller, Charles N., assignor.)
- Mueller, Adolph, trustee. (See Wilkins, James M., assignor.)
- Mueller, Adolph, trustee. (See Wilkins, J. M., and Rohr.)
- Mueller, Adolph H. C., et al. (See Fassler, Peter, assignor.)
- Mueller Brass Foundry Company. (See Granade, Fred C., assignor.)
- Mueller, Charles C., Jr. (See Mueller, Elsie A. and C. C., Jr.)
- Mueller, Charles W., Jersey City, N. J. Bird perch. 1,627,448; May 3.
- Mueller, Edward H., Pittston, Pa. Device for candleing eggs. 1,638,870; Aug. 16.
- Mueller, Elsie A., Chestertown, N. Y., and C. C. Mueller, Jr., Newark, N. J. Tire patch. 1,629,289; May 17.
- Mueller, Emil C., Jr. (See Curran, S. T., and Mueller.)
- Mueller, Emil C., Jr., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Test plug. 1,641,286; Sept. 6.
- Mueller, Emil C., Jr., Elizabeth, and S. T. Curran, Mountain Lakes, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Call indicator. 1,632,093; July 12.
- Mueller, Emil L., Rutherford, assignor to D. A. McIntyre, Newark, N. J. Feeding mechanism. 1,637,835; Aug. 2.
- Mueller, Ernst. (See Ritter, George, assignor.)
- Mueller, Ernst, Brooklyn, N. Y. Toy. 1,646,330; Oct. 25.
- Mueller, Godfrey. (See Gradolph, W. F., and Mueller.)
- Mueller, Herman G., assignor to Skinner Engine Company, Erie, Pa. Steam engine. 1,650,642; Nov. 29.
- Mueller, Herman G., assignor to Skinner Engine Company, Erie, Pa. Steam engine. 1,650,643; Nov. 29.
- Mueller, Hilmar, Trenton, N. J. Lawn. 1,616,917; Feb. 8.
- Mueller, John. (See Lasker, W. W., and Mueller.)
- Mueller, John G., Dayton, Ohio. Rail brace. 1,631,325; June 7.
- Mueller, John G., C. A., and H. M. Granzow, Dayton, Ohio. Lubricating cup. 1,621,129; Mar. 15.
- Mueller, Lucien W., assignor to Adolph Mueller, trustee, Decatur, Ill. Valve for built-in plumbing fixtures. 1,637,230; July 26.
- Mueller, Lucien W., and R. H., assignors to A. Mueller, trustee, Decatur, Ill. Bath or basin outlet-valve mechanism. 1,647,183; Nov. 1.
- Mueller, Moritz L., assignor to Northwest Blower Kilm Company, Seattle, Wash. Heating unit and heating system for kilns. 1,621,338; Mar. 15.
- Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kilm Company, Portland, Oreg. Drying system. 1,624,754; Apr. 12.
- Mueller, Otto L. (See Mueller, Rudolph and O. L.)
- Mueller, Philip, Decatur, Ill., and C. A. Hill, Port Huron, Mich., assignors to Adolph Mueller, trustee, Decatur, Ill. High-pressure gas valve and shipping plug. 1,636,065; July 19.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Slip-joint coupling. 1,626,952; May 3.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Inclined nozzle drinking fountain. 1,630,206; May 24.
- Mueller, Philip, and A. C. Schuermann, assignors to Adolph Mueller, trustee, Decatur, Ill. Swivel connection. 1,637,231; July 26.
- Mueller, Philip, Decatur, and A. C. Schuermann, deceased, by A. C. Schuermann, executor, assignors to A. Mueller, trustee, Decatur, Ill. Self-cleaning flushing valve. 1,647,189; Nov. 1.
- Mueller, Robert H. (See Mueller, Lucien W. and R. H.)
- Mueller, Robert H., assignor to A. Mueller, trustee, Decatur, Ill. Laundry-tab faucet. 1,647,190; Nov. 1.
- Mueller, Robert H., and W. J. Mix, assignors to A. Mueller, trustee, Decatur, Ill. Ball valve. 1,614,800; Jan. 18.

- Mueller, Rudolph and O. L., Chicago, Ill. Trap. 1,638,545; Aug. 9.
- Muend, Charles J., Philadelphia, Pa., assignor to Haines, Jones & Cadbury Company. Valve construction. 1,619,748; Mar. 1.
- Muenzenmayer, Henry, Junction City, Kans. Service bin. 1,621,775; Sept. 2.
- Muffy, Glenn, Cleveland Heights, Ohio. Hydropneumatic controller for water systems. 1,628,265; May 10.
- Mugdan, Martin, (See Meingast, R. and Mugdan.)
- Mugdan, Martin, and J. Wimmer, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Preparation of methyl formate. 1,642,680; Sept. 20.
- Mühle, Joseph, Oelsnitz, Germany, assignor to G. Liebender, Oelsnitz 1 Vgtl., Saxony. Automatically manufacturing knotted or tufted carpets. 1,615,029; Jan. 18.
- Muhlisen, Henry W., assignor to W. S. Rush & Co., Los Angeles, Calif. Emergency brake for automobiles. 1,612,982; Jan. 4.
- Muhleman & Kayhoe, Incorporated. (See Beale, Frank A., assignor.)
- Muhlfeld, John E., Scarsdale, N. Y. Baffle wall. 1,622,288; Mar. 29.
- Muhlfeld, John E., Scarsdale, N. Y. Locomotive frame. 1,630,901; May 31.
- Muhlfeld, John E., Scarsdale, N. Y., and A. G. Sandman, Baltimore, Md. Steam locomotive. 1,627,402; May 3.
- Muinich, Ida M., Rock Port, Mo. Jelly strainer. 1,622,800; Mar. 29.
- Muir, Thomas R., Sunnyside, Wash. Potato-sorting table. 1,650,532; Nov. 22.
- Muir, Wellington W., Lockport, N. Y. Cooling system. 1,616,676; July 12.
- Muir, Wellington W., Lockport, N. Y. Cooling system for internal-combustion engines. 1,623,804; Sept. 20.
- Muir, Wellington W., Lockport, N. Y. Cooling system for internal-combustion engines. 1,623,804; Apr. 5.
- Muir, Wellington W., Lockport, N. Y. Cooling internal-combustion engines. 1,625,737; Apr. 19.
- Muir, Wellington W., Lockport, N. Y. Cooling system. 1,630,068; Mar. 24.
- Muir, Wellington W., Lockport, N. Y. Cooling system. 1,630,069; May 24.
- Muir, Wellington W., Lockport, N. Y. Process of and apparatus for cooling internal-combustion engines. 1,630,070; May 24.
- Muir, Wellington W., Lockport, N. Y. Piston. 1,634,037; June 28.
- Muir, Wellington W., Lockport, N. Y. Cooling system for internal-combustion engines. 1,634,844; July 5.
- Muir, Wellington W., Lockport, N. Y. Cooling internal-combustion engines. 1,639,745; Aug. 23.
- Muir, Wellington W., Lockport, N. Y. Variable-temperature cooling system for internal-combustion engines. 1,643,510; Sept. 27.
- Muir, Wellington W., Lockport, N. Y. Cooling system for internal-combustion engines and operating the same. 1,643,511; Sept. 27.
- Muir, Wellington W., Lockport, N. Y. Cooling system for internal-combustion engines. 1,649,247; Nov. 15.
- Muir, Wellington W., Lockport, N. Y. Automatic cooling system. 1,649,248; Nov. 15.
- Muirhead, David P. (See Muirhead, James and D. P.)
- Muirhead, James and D. P., Glasgow, Scotland. Ventilator. 1,651,464; Dec. 6.
- Mulconroy Company. (See Mulconroy, Joseph J., assignor.)
- Mulconroy, Joseph J., Germantown, assignor to Mulconroy Company, Inc., Philadelphia, Pa. Steam iron coupling and hose. 1,619,593; Mar. 1.
- Mulder, Jentje, Detroit, Mich. Timing device. 1,640,716; Aug. 30.
- Muldoon, Bernard F., Mountain View, N. J., assignor to H. Hyman, Brooklyn, N. Y. Display stand or similar article. Des. 73,412; Sept. 6.
- Mulford, Henry K., assignor to National Drug Co., Philadelphia, Pa. Hypodermic-solution container. 1,616,274; Feb. 1.
- Mulford, Henry K., assignor to National Drug Co., Philadelphia, Pa. Combined stopper and bulb syringe. 1,654,267; Dec. 27.
- Mulhern, James A., assignor, by direct and mesne assignments, to H. Delkeskamp, St. Louis, Mo. Composition shoe heel and making the same. 1,614,989; Jan. 18.
- Mulhern, Frederick J., Troy, N. Y. Garbage receptacle. 1,643,897; Sept. 27.
- Mulhern, James F., Columbus, Ohio. Toy balloon. Des. 72,381; Apr. 5.
- Mulholland, John, Whitley Bay, England. Incandescent gas fire. 1,639,780; Aug. 23.
- Mulholland, John B., and A. F. Borschel, Buffalo, N. Y. Safety target attachment for air rifles. 1,625,956; Apr. 26.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Guiding device for molten glass. 1,619,432; Mar. 1.
- Mulholland, Vergil, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for annealing glassware. 1,622,663; Mar. 29.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for conveying plastic glass. 1,638,593; Aug. 9.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Liquid-fuel burner. 1,646,703; Oct. 25.
- Mullally, Walter J., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Heavy-tension lap-link chains. 1,624,111; Apr. 12.
- Mullen, Harry D., Milwaukee, Wis. Reflecting lamp mountings for motor vehicles. 1,647,651; Nov. 1.
- Mullan, Joseph E. (See Kitchel, R. R., Lippard, and Mullan.)
- Mullan, Joseph E. (See Kitchel, R. R., and Mullan.)
- Mullane, John F., Colorado Springs, Colo. Molding machine. 1,643,392; Sept. 27.
- Müllen, C. H. F., Röntgenröhrenfabrik. (See Daumann, Wilhelm, assignor.)
- Mullen, Charles P., Conshohocken, Pa. Eaves-trough support. 1,632,086; June 14.
- Mullen, Daniel J. (See Murphy, F. K., Mullen, and Retterer.)
- Mullen, James, jr., Newark, N. J. Amusement device. 1,653,921; Dec. 27.
- Mullen, John E., San Francisco, Calif. Assignor of one-half to H. L. Judell and one-half to Company. Show case. 1,613,187; Jan. 2.
- Mullen, John E., assignor of one-half to H. L. Judell and Company, San Francisco, Calif. Show case. 1,613,188; Jan. 4.
- Mullen, Leo, and J. Jackevich, Collingdale, Pa. Life belt. 1,629,290; May 17.
- Mullendore, Harvey, assignor to Perfection Biscuit Company, Fort Wayne, Ind. Packaging machine. 1,642,587; Sept. 20.
- Mullens, Clarence E., Albany, N. Y. Bone clamp. 1,635,137; July 5.
- Müller, Arthur H., Blankensee, near Hamburg, Germany. Plant for towing vessels on inland waterways. 1,651,538; Dec. 6.
- Müller, August, assignor of one-half to K. Schieder, Nuremberg, Germany. Direction indicator for vehicles. 1,644,847; Oct. 11.
- Muller, Bruno. (See Jacobsohn, Isaak, assignor.)
- Muller, Carl, Brooklyn, N. Y. Safety attachment for gas cocks. 1,651,038; Nov. 29.
- Müller, Carl J. (See Thiess, K., Müller, Runne, and Schaeffer.)
- Muller, Carl W., Hostertwitz, near Dresden, assignor to "Universelle" Cigaretten-Maschinen-Fabrik J. C. Müller & Co., Dresden, Germany. Feeding mechanism for cigarette machines. 1,645,067; Oct. 11.
- Müller-Cunrad, Martin, Ludwigshafen-on-the-Rhine, assignor to G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of iron carbonyl. 1,614,625; Jan. 18.
- Müller-Cunrad, Martin, Ludwigshafen-on-Rhine, and W. Wilke, Mannheim, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-Rhine, Germany. Manufacture of liquid fuel. 1,645,014; Oct. 18.
- Müller, Erich. (See Müller, Karl, assignor.)
- Müller, Ernst, Berlin, Germany. Fur testing and cutting device. 1,645,391; Oct. 11.
- Müller, Ferdinand C. H., assignor to The Findlay Electric Plastics Company, Findlay, Ohio. Press for forming plastic materials. 1,640,514; Aug. 30.
- Muller, Frank G. D. (See Schmitt, G. C. and Muller.)
- Muller, Franklin R., Inc. (See Muller, Franklin R., assignor.)
- Muller, Franklin R., Lake Bluff, assignor to Franklin R. Muller, Inc., Waukegan, Ill. Manufacturing mastic tile and the like. 1,651,284; June 7.
- Müller, Fred W., Eoboken, N. J., and E. H. Weatherhead, Cleveland Heights, assignors to The Bishop & Babcock Company, Cleveland, Ohio. Bottle-filling machine. 1,614,485; Jan. 18.
- Müller, Frederick, assignor to The Whitney Mfg. Co., Hartford, Conn. Chain and part therefor. 1,649,845; Nov. 22.
- Müller, Friedrich, Elizabeth, N. J., assignor to Pratt & Whitney Company, New York, N. Y. Tool post. 1,626,953; May 3.
- Müller, Friedrich, Vienna, Austria. Multiple-cylinder internal-combustion engine. 1,613,618; Jan. 11.
- Müller, Friedrich, Vienna, Austria. Four-cycle internal-combustion engine working with an injection air compressor. 1,634,468; July 5.
- Müller, Georg, Frankfurt-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Recovering adsorbed material from adsorptive material. 1,643,150; Feb. 15.
- Müller, Gustav W., Charlottenburg, Germany, assignor to General Electric Company. Control system. 1,614,146; Jan. 11.
- Müller, Gustav W., Charlottenburg, Germany, assignor to General Electric Company. Automatic substation. 1,614,147; Jan. 11.
- Müller, Hans, Munich, Germany. Box for storing furs. 1,610,529; Mar. 1.
- Müller, Hermann, assignor to T. R. Geigy A. G., Basel, Switzerland. Printing paste and preparation thereof. 1,615,908; Feb. 1.
- Müller, Jakob, Budesheim-Bingen, assignor of one-half to V. H. Bingen, Bingen, Germany. Railway signaling device. 1,617,268; Feb. 8.
- Müller, Jens. (See Herz, R., and Müller.)

- Muller, John, Brooklyn, N. Y. Needle cam for flat-knitting machines. 1,613,050; Jan. 4.
- Müller, Joseph, Dayton, N. J. Water regulator. 1,638,053; Aug. 9.
- Müller, Karl, assignor to E. Muller, Kreienssen, Germany. Free-wheel device and back-pedal brake for cycles. 1,618,215; Feb. 22.
- Muller, L. J. Furnace Company. (See Wagner, Charles H., assignor.)
- Muller, Louis E., Los Angeles, Calif. Electrode holder. 1,634,957; July 5.
- Muller, Otto, assignor of one-half to J. G. Kneher, Richmond Hill, N. Y. Banding machine. 1,640,465; Aug. 30.
- Müller, Otto A., Ambler, Pa. Plant support. 1,639,781; Aug. 25.
- Muller, Paul F. W., Hoboken, N. J. Perfume dispenser. 1,644,452; Oct. 4.
- Müller, Peter. (See Heldtkamp, P., and Müller.)
- Müller, Wilhelm, assignor to Sociedad Electroquímica de Flix, Flx, Spain. Electric arc for melting and pulverizing metals. 1,615,995; Feb. 1.
- Müller, Wilhelm, Bitterfeld, assignor to the Firm I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Method and agent for drying gases. 1,644,439; Oct. 4.
- Müller, Willy. (See Mohn, Rudolf, assignor.)
- Muller-Thym, Bernard, Kansas City, Mo. Sanctuary lamp. 1,626,008; Apr. 26.
- Mulligan, Francis M., Butte, Mont. Figure wheel walking toy. 1,621,996; Mar. 22.
- Mulligan, Leonard A., assignor to Joseph N. Smith Co., Detroit, Mich. Windshield-regulating device. 1,634,592; July 5.
- Mulligan, Paul C. (See Swartz, H., and Mulligan.)
- Mullin, Edwin M., Brooklyn, N. Y. Foldable display rack. 1,654,088; Dec. 27.
- Mullin, Minton L. (See Blocker, H. A., and Mullin.)
- Mullin, Royal J. (See Mero, R. M., and Mullin.)
- Mullinack, George H., assignor of twenty-three one-hundredths to A. B. Simpson, and twenty-three one-hundredths to J. Isaacs, West Frankfort, Ill. Emergency repair for pipes. 1,638,269; Aug. 9.
- Mullineaux, Richard H., Los Angeles, Calif. Interliner for pneumatic tires. 1,632,496; June 14.
- Mullins, Arch, et al. (See Mullins, Ed. and O. B., assignors.)
- Mullins, Claude S., Flushing, N. Y. Loose-leaf binder. 1,636,428; July 10.
- Mullins, Ed., Cincinnati, Ohio, and O. B. Mullins, assignors of one-fourth to T. E. Mullins and one-fourth to A. Mullins, South Covington, Ky. Car-wheel clamp. 1,625,186; Apr. 19.
- Mullins, John A., Sweetwater, Tex. Spring hanger for vehicles. 1,615,340; Jan. 25.
- Mullins, Oscar B. (See Mullins, Ed. and O. B.)
- Mullins, Robert T. (See Fitzpatrick, K., and Mullins.)
- Mullins, Robert T., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Golf bag. 1,636,194; July 19.
- Mullins, Robert T., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Football helmet. 1,652,288; Dec. 15.
- Mullins, Thomas E., et al. (See Mullins, Ed. and O. B., assignors.)
- Mullor, Alvaro, Sceaux, France, and L. Carriol, Ghent, Belgium. Weft-feeding device for weaving looms. 1,632,912; June 21.
- Mulloy, William H., St. Louis, Mo. Safety fender for automobiles. 1,652,872; Dec. 13.
- Mulock, Fred S., San Gabriel, Calif., assignor to United States Smelting, Refining & Mining Company, Portland, Me. Thawing ground. 1,614,013; Jan. 11.
- Mulot, Marcel C. E., Paris, France. Shock-absorbing device for vehicles. 1,616,504; Feb. 8.
- Mulroney, Frank M., Fort Dodge, Iowa. Bow tie. 1,613,524; Jan. 4.
- Mulroney, John E., deceased, Chicago, Ill.; M. B. Mulroney, executrix, assignor to E. M. Brackett and F. Brackett, copartners doing business as The Brackett Stripping Machine Company, Topeka, Kans. Paper-cutting machine and gauge therefor. 1,653,303; Dec. 20.
- Mulroney, John E., deceased, Chicago, Ill.; M. B. Mulroney, executrix, assignor to E. M. Brackett and F. Brackett, copartners doing business as The Brackett Stripping Machine Company, Topeka, Kans. Paper-cutting machine. 1,653,304; Dec. 20.
- Mulroney, Margaret B., executrix. (See Mulroney, John E.)
- Multipost Company. (See Schweiger, William F., assignor.)
- Multiposter Company. (See Schweiger, William F., assignor.)
- Multi-Print System Co., The. (See Kimberly, Alfred K., assignor.)
- Multisize Rotary Press Co. (See Wells, John H., assignor.)
- Multi Vane Construction Company. (See Bullard, Herbert A., assignor.)
- Mulvehill, John D., Seattle, Wash. Golf tee guard. 1,616,050; Feb. 1.
- Mulvihill, Daniel C., Hannibal, Mo. Wheel-cleaning device. 1,625,137; Apr. 19.
- Munaw, John H., J. B. Schnleders, and W. G. Haas, assignors, by mesne assignments, to Universal Specialty Company, Dayton, Ohio. Brush holder. 1,624,426; Apr. 12.
- Mumbower, Leonard E. (See Abernethy, J. L., and Mumbower.)
- Mumbrauer, William, New York, N. Y. Closure for peep-holes and the like. 1,648,279; Nov. 8.
- Mumford, Edward G., et al. (See Brooks, Roscoe A., assignor.)
- Mummert-Dixon Company. (See Mummert, Ervin S., assignor.)
- Mummert, Ervin S., assignor to Mummert-Dixon Company, Hanover, Pa. Wire loom. 1,643,347; Sept. 27.
- Mummert, Harvey C., Hammondsport, N. Y., assignor to Aerial Service Corporation. Wing skid. 1,613,842; Jan. 11.
- Mummert, Harvey C., Hammondsport, N. Y., assignor to Aerial Service Corporation. Airplane fuselage. 1,645,964; Oct. 18.
- Mummert, Harvey C., Hollis, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Company, Inc., Garden City, N. Y. Temperature-regulating system for aeronautical motors. 1,623,128; Apr. 5.
- Mummert, Harvey C., Hollis, and J. F. Meade, Freeport, assignors, by mesne assignments, to Curtiss Aeroplane and Motor Company, Inc., Garden City, N. Y. Aeroplane radiator. 1,613,619; Jan. 11.
- Mummert, Harvey C., and J. F. Meade, Hammondsport, N. Y., assignors to Aerial Service Corporation. Tail skid. 1,613,843; Jan. 11.
- Mummert, M. A. (See Smith, Leonard, assignor.)
- Mummert, Maurice M. (See Millen, Stanley S., assignor.)
- Mummery, Clyde W., Detroit, Mich. Liquid-fuel burner. 1,653,018; Dec. 20.
- Munce, Robert. (See Smith, G. L., and Munce.)
- Munday, Reginald L., Bath, England. Heat-exchange apparatus. 1,639,051; Aug. 16.
- Mundell, Herbert J., Summerville, Oreg. Aeroplane. 1,638,358; Aug. 9.
- Mundell, James I. (See Bamber, J., and Mundell.)
- Mundet, L., & Son, Inc. (See Nueske, Julius, Jr., assignor.)
- Mundorf, Emil, Aachen, Germany. Filled woven fabric. 1,615,517; Jan. 25.
- Munger, Earl A., assignor to Acme Machine Products Company, Kalamazoo, Mich. Punching machine. 1,621,130; Mar. 15.
- Munger, Eugene, Birmingham, Ala., assignor to Continental Gin Company. Cotton-gin lint fue. 1,646,656; Oct. 25.
- Munger, Howard, assignor to The Bradley Motor Products Company, Fostoria, Ohio. Trunk rack. 1,613,406; Jan. 4.
- Munitex Corporation. (See Leemann, H., and Tagliani, assignors.)
- Munn, Ralph T., Melrose Highlands, Mass. Rim tool. 1,616,726; Aug. 30.
- Munro, Alfred H., Regina, Saskatchewan, Canada. Power-transmission gear. 1,613,525; Jan. 4.
- Munro, Donald, Montreal, Quebec, Canada. Stock car. 1,641,287; Sept. 6.
- Munro, Harold W., Providence, R. I. Voice device. 1,649,722; Nov. 15.
- Munro, Hugh, Glasgow, Scotland. Device for cleaning interdenal spaces. 1,627,525; May 8.
- Munro, Roy C., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline. 1,654,304; Dec. 27.
- Munroe, Alexander. (See Burmester, L., and Munroe.)
- Munroe, Treadway B. (See Lathrop, E. C., and Munroe.)
- Munroe, Treadway B., assignor to Dahlberg & Company, Inc., Chicago, Ill. Flooring material. 1,626,117; Apr. 26.
- Munroe, Treadway B., assignor to Dahlberg & Company, Inc., Chicago, Ill. Slitting sheet material. 1,629,522; May 24.
- Munroe, Treadway B., assignor to Dahlberg & Company, Inc., Chicago, Ill. Apparatus for slitting continuously moving material. 1,642,081; Sept. 13.
- Munsch, Hans, Berlin, Germany. Loud-speaker casing. Des. 73,938; Nov. 22.
- Munsell, Alexander E. O., Baltimore, Md., and M. E. Bond, Rochester, assignors to Munsell Color Company, Incorporated, New York, N. Y. Color chart. 1,617,024; Feb. 8.
- Munsell Color Company. (See Munsell, A. E. O., and Bond, assignors.)
- Munsen, Oswald G. (See Helvig, G. O., and Munsen.)
- Munsingwear Corporation, The. (See Chatfield, Franklin, assignor.)
- Munsingwear Corporation, The. (See Spillsbury, Benlah G., assignor.)
- Munson, Charles A., New Britain, Conn. Forming hinges. 1,620,603; Mar. 8.
- Munson, Mandius J., Los Angeles, Calif. Mechanical face with movable features. 1,617,687; Feb. 15.
- Munson, Sweney, Scammon, Kans. Lubricator. 1,620,381; Mar. 8.
- Munters, Carl G. (See von Platen, B. C., and Munters.)

- Munters, Carl G., Dala-Jarna, and B. C. von Platen, Ystad, Sweden, assignors, by mesne assignments, to Electrolux Serval Corporation. Absorption refrigerating apparatus. 1,645,017; Oct. 11.
- Munyon, Alice G., assignor of one-third to E. M. Butler, San Francisco, and one-third to J. P. Carr, Oakland, Cal. Composition for removing paint and varnish. 1,614,929; Jan. 18.
- Munzner, Max, Jersey City, N. J., assignor to The Torsion Balance Company, New York, N. Y. Adjustable frame or truss for instruments of precision. 1,632,631; Dec. 13.
- Murakami, Rin N., assignor to H. W. Bolens, Port Washington, Wis. Fuel economizer. 1,638,015; Aug. 9.
- Murch, John H., Portland, Oreg., assignor to American Can Company, New York, N. Y. Can. 1,616,965; Feb. 8.
- Murch, John H., Portland, Oreg., assignor to American Can Company, New York, N. Y. Preparing interiorly-coated containers. 1,622,533; Mar. 29.
- Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Soldering machine. 1,639,955; Aug. 23.
- Murdoch, Charles A., New York, N. Y. Combined sink and dishwashing machine. 1,645,815; Oct. 18.
- Murdoch, Charles A., New York, N. Y. Household washing machine. 1,645,816; Oct. 18.
- Murdoch, Charles E., New York, N. Y. Washing machine. 1,645,869; Oct. 18.
- Murdoch, Charles E. (See Gray, O. H., and Murdoch.)
- Murdoch, Edwin F., New York, N. Y. Wire-strip fastener. 1,622,878; Mar. 29.
- Murdoch, John C., Binghamton, N. Y. Paper holder. 1,624,427; Apr. 12.
- Murdoch Manufacturing and Supply Company, The. (See Bart, Thomas E., assignor.)
- Murdoch, S. D. (See Burke, H. C., and Friberg, assignors.)
- Murphy, William, Deeth, Nev. Headgate. 1,621,748; Mar. 22.
- Murlin, John R., Rochester, N. Y. Preparation of anti-diabetic material from pancreas. 1,646,553; Oct. 25.
- Murlin Manufacturing Company. (See Lindsay, Donald E., assignor.)
- Murn, Basil J., Foley, Minn. Steering coupling for trailers. 1,644,264; Oct. 4.
- Murnan, Frederick C., Princeville, Ill. Adjustable cap. 1,651,929; Dec. 6.
- Murphy, Audley. (See Welch, P., and Murphy.)
- Murphy, Cornelius G., Long Beach, Calif. Miner's hand tool. 1,640,089; Aug. 23.
- Murphy, Daniel C., Scooby, Mont. Receptacle. 1,624,273; Apr. 12.
- Murphy, Daniel R., Newark, Ohio. Piston valve. 1,630,133; May 24.
- Murphy, Daniel R., assignor of one-fourth to W. G. Hanna, Newark, Ohio, and one-fourth to W. H. Trueschel, Wheeling, W. Va. Reciprocating valve. 1,635,369; Dec. 20.
- Murphy, Edward J., Framingham, Mass. Valve cap. 1,631,050; May 31.
- Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Arc lamp. 1,623,848; Apr. 5.
- Murphy, Edwin J., and L. P. Hutt, Schenectady, N. Y., assignors to General Electric Company. Searchlight. 1,618,103; Feb. 15.
- Murphy, Francis, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing apparatus. 1,649,912; Nov. 22.
- Murphy, Frank J., assignor to Krafft-Murphy Co., Washington, D. C. Hoisting apparatus. 1,650,847; Nov. 29.
- Murphy, Fred K., D. J. Mullen, and R. W. Retterer, Indianapolis, Ind. Boiler plug. 1,614,754; Jan. 18.
- Murphy, Fred K., and R. W. Retterer, Indianapolis, Ind. Fluid-operable lubricator for engines. 1,620,121; Mar. 8.
- Murphy, Fred K., and R. W. Retterer, Indianapolis, Ind. Fluid-operable lubricator and feeder for engines. 1,621,811; Mar. 15.
- Murphy, Fred K., and R. W. Retterer, Indianapolis, Ind. Fluid-operable lubricator and feeder for engines. 1,621,804; Mar. 22.
- Murphy, G. W. J., Company. (See Bourque, David, assignor.)
- Murphy, G. W. J., Company. (See McGinley, George M., assignor.)
- Murphy, George S., assignor to The Armand Company, Des Moines, Iowa. Holding and shipping insert. 1,635,430; July 12.
- Murphy, Gerald H., Flushing, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,623,063; Apr. 5.
- Murphy, Gilbert, and W. A. Simond, assignors to Acme Knitting Machine & Needle Company, Franklin, N. H. Knitting hosiery. 1,626,049; Apr. 26.
- Murphy, Gilbert O., and D. Wenhams, Hamilton, New Zealand. Cutting blade of lawn mowers. 1,644,889; Oct. 11.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bessick Manufacturing Company, Chicago, Ill. Pressure lubricating system and apparatus. 1,637,826; July 26.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bessick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,647,538; Nov. 1.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bessick Manufacturing Company, Chicago, Ill. Lubricating system and apparatus. 1,649,177; Nov. 15.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bessick Manufacturing Company, Chicago, Ill. Pressure lubricating system and apparatus. 1,651,218; Nov. 29.
- Murphy, Howard M., Philadelphia, Pa. Pipe-cleaning means. 1,624,755; Apr. 12.
- Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Cylinder lock. 1,628,172; May 17.
- Murphy, James L., and E. J. Roney, assignors, by mesne assignments, of one-third to Chicago Mill and Lumber Company, Chicago, Ill. Beating engine. 1,614,486; Jan. 18.
- Murphy, John F., assignor to J. M. Robinson, Louisville, Ky. Portable bathroom. 1,632,568; June 14.
- Murphy, John H., and E. A. Lotz, St. Louis, Mo. Air lock. 1,636,572; July 19.
- Murphy, John J., Norwich, Conn., assignor, by mesne assignments, to Peerless Handcuff Company. Handcuff. 1,634,114; June 28.
- Murphy, Joseph E., et al. (See Hall, William, assignor.)
- Murphy, Joseph W. (See Cook, J. T., Jr., Murphy, Brunsnick, and Goldsmith.)
- Murphy, Morton, Indianapolis, Ind. Electric vulcanizer. 1,628,899; May 17.
- Murphy, Moses J., San Leandro, Calif. Fuel-regulating apparatus for explosion engines. 1,615,996; E. L. 1.
- Murphy, Nicholas E., Wauwatosa, Wis. Switch lock. 1,642,820; Sept. 20.
- Murphy, Orville E., Seminole, assignor of forty-nine per cent to American Iron & Machine Works, Inc., Oklahoma City, Okla. Rotary well drill. 1,647,740; Nov. 1.
- Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
- Murphy, P. H., Company. (See Gilpin, Garth G., assignor.)
- Murphy, P. H., Company. (See Murphy, Walter P., assignor.)
- Murphy, Peter J., New York, N. Y. Window portal. 1,641,044; Aug. 30.
- Murphy, Peter S., Washington, D. C. Process and apparatus for producing continuous strip elements of printing forms. 1,614,626; Jan. 18.
- Murphy, Pierce T., New Orleans, La. Funnel. 1,622,801; Mar. 29.
- Murphy, Ralph L., assignor of one-half to I. L. Robinson, Miera, New Mex. Wrench. 1,633,455; June 21.
- Murphy, Robert N., assignor of twenty-eight and three-fourths per cent to J. S. Wilson and eleven and one-fourth per cent to H. R. Meredith, Ottawa, Ontario, Canada. Sanitary trap fitting. 1,644,941; Oct. 11.
- Murphy, Robert S., assignor to The Electrophotograph Company, Detroit, Mich. Printing press. 1,638,600; June 28.
- Murphy, Thomas J., Astoria, N. Y. Transformer. 1,629,836; May 24.
- Murphy, Thomas W., Delair, N. J., and W. Czarnecki, assignors to Monarch Manufacturing Works, Inc., Philadelphia, Pa. Spraying nozzle. 1,654,381; Dec. 27.
- Murphy, Walter A., Wilkes-Barre, Pa. Wire reducer. 1,652,577; Dec. 13.
- Murphy, Walter J. (See Kerrigan, E. L., and Murphy.)
- Murphy, Walter P. (See Goldinger, Carl M., assignor.)
- Murphy, Walter P. (See Nicholas, Charles W., assignor.)
- Murphy, Walter P., New York, N. Y. Sheet-metal car body. 1,635,101; July 19.
- Murphy, Walter P., assignor to Union Metal Products Company, Chicago, Ill. Railway-hopper-car door. 1,638,126; Aug. 9.
- Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,643,891; Oct. 4.
- Murphy, William, St. Louis Park, Minn. Tire chain. 1,631,754; June 7.
- Murphy, William H., Milwaukee, Wis. Vending machine. 1,613,244; Jan. 4.
- Murray, Albert F., Boston, Mass., assignor to J. H. Hammond, Jr., Gloucester, N. J. Transmitting system for radiant energy. 1,623,745; Apr. 5.
- Murray, Albert L., Auburn, Ind. Composite rubber sole. 1,624,500; Apr. 12.
- Murray, Albert L., Auburn, Ind. Shoe bottom. 1,630,445; May 31.
- Murray, Alexander. (See Beebe, M. C., and Murray.)
- Murray, Charles H. (See Hatfield, Roy H., assignor.)
- Murray, Charles W., Jr., Cincinnati, Ohio. Valve. 1,652,453; Dec. 13.
- Murray Company, The. (See Hancock, William L., assignor.)
- Murray Company, The. (See Leech, I., and Bradley, assignors.)
- Murray, Donald G., assignor to Bessemer Gas Engine Company, Grove City, Pa. Compressor. 1,630,799; May 31.
- Murray, Ethelbert T. R. and L. E. R., Hertfordshire, England. Illuminated indicating device. 1,648,763; Oct. 25.

- Murray, Frank, Los Angeles, Calif. Newspaper-core-stripping machine. 1,640,090; Aug. 23.
- Murray, Harry, Ross, Calif. Adjustable pulley-block hanger. 1,626,861; May 5.
- Murray, Henry, Jersey City, N. J. Combination plumb line and level. 1,635,557; July 12.
- Murray, Henry L., Somerstown, assignor to The Te Aroha Dairy Company Limited, Te Aroha, Auckland, New Zealand. Deodorizing, cooling, and dehydrating fluids and apparatus therefor. 1,641,349; Sept. 6.
- Murray, Howard J., Brooklyn, N. Y. Electric-wave producing and changing device. 1,629,727; May 24.
- Murray, Howard J., Brooklyn, N. Y. Electrical instrument. 1,641,945; Sept. 6.
- Murray, Howard J., Brooklyn, N. Y. Movable dielectric condenser. 1,641,948; Sept. 6.
- Murray, Howard J., Brooklyn, N. Y. Electric-current-affecting device. 1,647,652; Nov. 1.
- Murray, Howard J., Brooklyn, N. Y. assignor to R. M. Company Inc., East Pittsburgh, Pa. Burglar alarm. 1,653,568; Dec. 27.
- Murray, J. L., et al. (See Shay, Harry E., assignor.)
- Murray, James R. (See Cleage, T. D., Smith, and Murray.)
- Murray, John, London, England. Rotary printing machine. 1,617,342; Feb. 16.
- Murray, John, London, England. Rounding books. 1,648,860; Nov. 8.
- Murray, John C. (See Lewis, W. S., and Murray.)
- Murray, John D., San Francisco, Calif. Spray nozzle and tip. 1,636,314; July 19.
- Murray, John D., San Francisco, Calif. Air brush. 1,636,315; July 19.
- Murray, John G. S., the Duke of Atholl, Dunkeld, Scotland. Building construction. 1,640,091; Aug. 23.
- Murray, John F., assignor of one-half to W. Irvin, Otterbein, Ind. Straw press. 1,631,881; June 7.
- Murray, John J., Yonkers, N. Y. Booklet. 1,640,246; Aug. 23.
- Murray, Joseph F., and J. Smith, Mayfield, Pa. Composition for preventing the accumulation of raindrops on windows. 1,640,092; Aug. 23.
- Murray, Leland S., Yuba City, Calif. Fluid-pressure transmission and brake structure. 1,615,341; Jan. 25.
- Murray, Leslie E. B. (See Murray, Ethelbert T. B. and L. E. B.)
- Murray Manufacturing Company, The. (See Howe, James M., assignor.)
- Murray, Richard, New York, N. Y. Clamp. 1,619,746; Mar. 1.
- Murray, Richard H., Manchester, England. Light-reflecting device or unit. 1,625,905; Apr. 26.
- Murray, Sarah L., Los Angeles, Calif. Combination desk and table. 1,645,769; Oct. 18.
- Murray, Thomas E., jr. (See Blackwood, William C., assignor.)
- Murray, Thomas E. (See Hoffer, Le Roy H., assignor.)
- Murray, Thomas E. (See Holmes, Henry S., assignor.)
- Murray, Thomas E., jr. (See Murray, Thomas E. and T. E., jr.)
- Murray, Thomas E. (See Torchio, Philip, assignor.)
- Murray, Thomas E. (See Williams, Herbert H., assignor.)
- Murray, Thomas E. (See Woodrow, Harry R., assignor.)
- Murray, Thomas E., jr., Brooklyn, N. Y. Producing certain sheet-metal articles. Re16,691; Aug. 2.
- Murray, Thomas E., Brooklyn, N. Y. Electric fuse. 1,614,014; Jan. 11.
- Murray, Thomas E., Brooklyn, N. Y. Withdrawing cores from molded conduits. 1,619,362; Mar. 1.
- Murray, Thomas E., Brooklyn, N. Y. Furnace and cooling device. 1,623,746; Apr. 5.
- Murray, Thomas E., Brooklyn, N. Y. Wheel and brake drum. 1,624,112; Apr. 12.
- Murray, Thomas E., Brooklyn, N. Y. Radiator. 1,633,601; June 28.
- Murray, Thomas E., Brooklyn, N. Y. Boiler. 1,633,674; June 28.
- Murray, Thomas E., jr., Brooklyn, N. Y. Wheel with drum. 1,635,385; July 12.
- Murray, Thomas E., Brooklyn, N. Y. Valve and the like and method of manufacture. 1,638,546; Aug. 9.
- Murray, Thomas E., jr., Brooklyn, N. Y. Electric welding. 1,640,798; Aug. 30.
- Murray, Thomas E., Brooklyn, N. Y. Flanged coupling. 1,648,026; Nov. 8.
- Murray, Thomas E., New York, N. Y. Disk wheel. 1,614,567; Jan. 18.
- Murray, Thomas E. and T. E., jr., Brooklyn, N. Y. Hollow structure and making the same. 1,622,664; Mar. 26.
- Murray, Thomas E., Brooklyn, and J. H. Lawrence, New York, N. Y.; said Lawrence assignor to the said Murray. Coal pulverizer and burner. 1,614,314; Jan. 11.
- Murray, Thomas E., and H. R. Woodrow, New York, N. Y.; said Woodrow assignor, said Murray. Arc-welding machine. 1,636,104; July 19.
- Murray, Timothy J., Covington, Ind. Folding crate. 1,626,009; Apr. 26.
- Murray, Vincent J., Jr., Philadelphia, Pa. Nursing-bottle holder. 1,624,355; Oct. 4.
- Murray, Walter. (See Riordan, J. P. P., and Murray.)
- Murray, William, Woodhaven, assignor to General Chemical Company, New York, N. Y. Carboy bottle. 1,617,456; Feb. 15.
- Murrie, William F. R., Hershey, Pa. Manufacturing white sugar. 1,615,846; Feb. 1.
- Murrill, Paul I., Plainfield, N. J., assignor to R. T. Vanderbilt Co., Inc., New York, N. Y. Organic selenium compound and making the same. 1,622,534; Mar. 29.
- Murrill, Paul I., Plainfield, N. J., assignor to R. T. Vanderbilt Co., Inc., New York, N. Y. Vulcanization process and product. 1,622,535; Mar. 29.
- Murrill, Paul I., Plainfield, N. J., assignor to R. T. Vanderbilt Co., Inc., New York, N. Y. Vulcanization process and product. 1,622,536; Mar. 29.
- Murtaugh, William C., Chicago, Ill. Calibrating device for gauge sticks. 1,619,363; Mar. 1.
- Murphy, S. R., et al. (See Moore, E. A., and Murtha.)
- Murton, Crawford B., Chicago Heights, assignor to Inland Steel Company, Chicago, Ill. Post driver. 1,646,039; Oct. 18.
- Muscate, A. Henry, Manitou, Colo. Automobile memo. 1,629,291; May 17.
- Muscente, Fausto A., Providence, R. I. Flapping-shoe-ornament holder. 1,640,665; Aug. 30.
- Muse, Peter C., Johnson City, Tenn. Cabinet for type. 1,645,445; Oct. 11.
- Musgrave, Joseph L. (See Crittall, R. G., and Musgrave.)
- Musica Master Corporation. (See Zillger, Arno, assignor.)
- Musical Manufacturers' Corporation. (See Burdwise, Aaron, assignor.)
- Musical Products Distributing Co. Inc. (See Colen, Bernard D., assignor.)
- Muskegon Machine Company. (See Linderman, Bert A., assignor.)
- Mutcher, Arthur W., Denver, Colo. Automatic railway gate. 1,654,010; Dec. 27.
- Musselman, Joseph E., Bronxville, N. Y., and P. West, Newark, N. J., assignors, by mesne assignments, to Elliott Company, Pittsburgh, Pa. System for rendering liquids noncorrosive. 1,614,148; Jan. 11.
- Musshall, E. B., Toronto, Ontario, Canada. Indicator for setting steam-engine valves. 1,631,285; June 7.
- Mustain, John E. (See Sullins, H. L., and Mustain.)
- Muter, Leslie F., Chicago, Ill. Variable high-resistance element and making the same. 1,626,421; Apr. 26.
- Muther, Lorenz. (See Lautenschlager, William F., assignor.)
- Muther Manufacturing Company. (See Cowdrey, Charles F., assignor.)
- Muttsbaugh, Charles A., Plant City, Fla. Latch. 1,626,422; Apr. 26.
- Mutscheller, Arthur, New York, N. Y. Electric phonograph record and making the same. 1,620,122; Mar. 8.
- Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Co., Inc. Therapy X-ray system. 1,620,732; Mar. 15.
- Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Co., Inc. Convertible X-ray machine. 1,625,328; Apr. 19.
- Mutual Electric and Machine Company. (See Frank, Harrison J. L., assignor.)
- Muzzio, James A., assignor to R. S. Muzzio, Cleveland, Ohio. Locking mechanism. 1,639,144; Aug. 16.
- Muzzio, James A., assignor to R. S. Muzzio, Cleveland, Ohio. Locking mechanism. 1,649,913; Nov. 22.
- Muzzio, Rosa S. (See Muzzio, James A., assignor.)
- Muzzy, William H., Chicago, Ill. Liquid-level indicator. 1,612,829; Jan. 4.
- Myer, Albert P., assignor to Simplex Heat Regulator Company, Minneapolis, Minn. Electric thermostat casing. Des. 73,667; Oct. 18.
- Myer, Ulrich, Linden, Mo. Fencepost. 1,626,862; May 3.
- Myers, Agnes W., et al. (See Myers, Joseph W., assignor.)
- Myers, August G., Cleveland, Ohio. Lamp fixture. 1,647,741; Nov. 1.
- Myers, Bon E., Sioux City, Iowa. Store-front construction. 1,624,620; Apr. 12.
- Myers, Charles E., Vancouver, Wash. Signaling device. 1,643,868; Mar. 28.
- Myers, Clarence W., St. Marys, Mo. Opening bed-spring packages. 1,614,568; Jan. 18.
- Myers, Cornelius T., Avenel, N. J. Magazine lubricating means. 1,620,277; Mar. 8.
- Myers, Cornelius T., Avenel, N. J. Magazine lubricating means. 1,620,278; Mar. 8.
- Myers, Don D., assignor to The Sozonian Burial Vault Company, Toledo, Ohio. Automatic latching device for burial vaults. 1,632,243; June 14.
- Myers, Ebenezer, assignor of one-half to E. Hicks, Concord, N. C. Removable brush head. 1,638,054; Aug. 9.
- Myers, Eugene Y., East Orange, N. J. Golf club. 1,644,392; Oct. 4.
- Myers, Eugene V., East Orange, N. J. Lubrication indicator. 1,644,848; Oct. 11.
- Myers, F. E., & Bro. Company, The. (See Myers, Philip A., assignor.)
- Myers, Genevieve H., assignor of one-half to M. C. Frank, Oakland, Calif. Fancy handkerchief. 1,650,030; Nov. 22.
- Myers, George W., Philadelphia, Pa. Ratchet-wrench outfit. 1,644,347; Oct. 4.
- Myers, Hubert A., Toledo, Ohio. Clutch device. Re16,565; Mar. 1.
- Myers, Hubert A., Toledo, Ohio. Candy confection. Des. 72,777; May 31.

- Myers, Hubert A., assignor to The Myers Regulator Company, Toledo, Ohio. Automatic gear lock for window regulators. 1,636,105; July 19.
- Myers, Hubert A., assignor to The Myers Regulator Company, Toledo, Ohio. Window regulator. 1,645,617; Oct. 18.
- Myers, Hubert A., assignor to The Myers Regulator Company, Toledo, Ohio. Clutch lock for window regulators. 1,653,654; Dec. 27.
- Myers, Iden B., Kimball, S. Dak. Lister-cultivator hitch. 1,616,700; Feb. 8.
- Myers, John, Oroville, Calif. Parking device for motor vehicles. 1,622,802; Mar. 29.
- Myers, John S., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear pump. 1,654,048; Dec. 27.
- Myers, John W., Quincy, Ill. Multiple hens' nest. 1,637,346; Aug. 2.
- Myers, John W., Van Nuys, Calif. Gas brooder. 1,642,787; Sept. 20.
- Myers, Joseph H., et al. (See Myers, Joseph W., assignor.)
- Myers, Joseph W., et al. (See Myers, Joseph W., assignor.)
- Myers, Joseph W., Jackson, Mich. Suspension for vehicles. 1,641,640; Sept. 6.
- Myers, Joseph W., assignor of one-third to J. H. Myers, Jackson, and one-third to A. J. Tuttle, Detroit, and one-third to A. W. and J. W. Myers, Jackson, Mich. Flatiron. 1,627,922; May 10.
- Myers, Joseph W., assignor of one-third to J. H. Myers, Jackson, one-third to A. J. Tuttle, Detroit, and one-third to A. W. Myers and J. W. Myers, Jackson, Mich. Thermostatic apparatus. 1,634,379; July 5.
- Myers, Joseph W., assignor of one-third to J. H. Myers, Jackson, one-third to A. J. Tuttle, Detroit, and one-third to A. W. and J. W. Myers, Jackson, Mich. Flatiron. 1,634,431; July 5.
- Myers, Leo, Kirkwood, Mo. Nut-cracking machine. 1,653,019; Dec. 20.
- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,619,530; Mar. 1.
- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,627,058; May 3.
- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,635,431; July 12.
- Myers, Lewis C., Freeport, and G. F. Handley, Glendale, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,614,252; Jan. 11.
- Myers, Marcus A., Gloversville, N. Y., assignor to Myers' Woolly Animals, Inc. Carrying bag. Des. 73,619; Oct. 11.
- Myers, Marcus A., assignor to Myers' Woolly Animals, Inc., Gloversville, N. Y. Purse. 1,638,594; Aug. 9.
- Myers, Mark C., San Francisco, Calif.; Mercantile Trust Company of California, executor. Surgical instrument. 1,621,212; Mar. 15.
- Myers, Milton C., St. Joseph, Mo. Harrow. 1,629,356; May 17.
- Myers, Oren G., San Mateo, Calif. Thermostat switch. 1,642,742; Sept. 20.
- Myers, Parke G., Cairo, assignor to The Automatic Signal & Sign Company, Canton, Ohio. Danger signal. 1,616,310; Jan. 25.
- Myers, Philip A., assignor to The F. E. Myers & Bro. Company, Ashland, Ohio. Pressure valve. 1,648,499; Nov. 8.
- Myers, Ralph E., East Orange, N. J., assignor to Westinghouse Lamp Company. Evacuated device and exhaust. 1,648,958; Nov. 15.
- Myers Regulator Company, The. (See Myers, Hubert A., assignor.)
- Myers, Richard T., Corvallis, Oreg. Machine for the filing and setting of saws. 1,652,454; Dec. 13.
- Myers, Robert C., Hutchinson, Kans. Spark plug. 1,623,432; Apr. 5.
- Myers, Steve, Ruffsedale, Pa. Rail joint. 1,622,238; Mar. 22.
- Myers, Walter S., Portland, Oreg. Diamond gauge. 1,610,060; Feb. 1.
- Myers, Warren M., Saginaw, Mich. Safety water gauge. 1,643,467; Sept. 27.
- Myers, Wayne E., and C. E. Young, Benton Harbor, Mich. Automatic paper feed. 1,653,305; Dec. 20.
- Myers, Wesley. (See Sheedy, J. M., and Myers.)
- Myers, William S., St. Petersburg, Fla. Line-chalking device. 1,632,713; June 14.
- Myers, William W., Stony Point, N. C. Meat tenderer. 1,635,053; July 5.
- Myers, Wilson R., Portland, Oreg. Stock-food preparing and feeding apparatus. 1,651,725; Dec. 6.
- Myers, Wm. W., Brooklyn, assignor to Austral Window Company, New York, N. Y. Locking mechanism for window sashes. 1,638,547; Aug. 9.
- Myers' Woolly Animals, Inc. (See Myers, Marcus A., assignor.)
- Myhre, John S. (See Bowman, E. J., and Myhre.)
- Mylnous, Carl, Plettenberg, Germany. Adjustable support for branches. 1,618,718; Jan. 11.
- Mylius, Walter G. (See Bradshaw, W. M., and Mylius.)
- Myrberg, Sven O., East Providence, assignor to Providence Stock Company, Providence, R. I. Bracelet end hook. 1,654,344; Dec. 27.
- Myrdal, John M., Trail, Ontario, Canada. Dowelling machine. 1,614,274; Apr. 12.
- Myre, James H., Detroit, Mich. Slide game mechanism. 1,644,890; Oct. 11.
- Myrland, James H., Detroit, Mich. Platform release. 1,644,891; Oct. 11.
- Myrick, Ralph E., Montgomery, Ala. Display container. 1,638,208; Aug. 9.
- Myrurgia, S. A. (See Prat, Esteban M., assignor.)
- Mystic Washer Company. (See Hegarty, Daniel A., assignor.)
- N. D. Q. Specialty Corporation. (See Knorpp, Philip J., assignor.)
- N. I. C. D. Limited. (See Snow, Charles S. H., assignor.)
- N. S. T. Automobile Polish Mfg. Co. (See Trout, Charles W., assignor.)
- N. V. Constructie Ateller der Vorstenlanden. (See Jan Meesters, Abraham M., assignor.)
- N. V. Industrie- en Handelsmaatschappij v. H. Harms & Co. (See Ezendam, Jan H., assignor.)
- N. V. Machine Maatschappij v. Handel en Industrie. (See Fischer, Oskar, assignor.)
- N. V. Nederlandsche Installatie Maatschappij Therna. (See Petersen, Alfred O. H., assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See Bouwers, Albert, assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See Jonas, Gottfried B., assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See Schoonenberg, Pancras, assignor.)
- Naab, Julius, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor unloader. 1,623,489; Apr. 5.
- Naamlooze Vennootschap Algemeene Norit Maatschappij. (See Lourens, Cornelis, assignor.)
- Naamlooze Vennootschap de Vereenigde IJzerfabrieken "de Vijf." (See Hofstede-Crull, Rento, W. H., assignor.)
- Naamlooze Vennootschap Financieele Maatschappij "Driebergen." (See Groenebaum, Wilhelm, assignor.)
- Naamlooze Vennootschap Financieele Maatschappij "Driebergen." (See Hase, Rudolf, assignor.)
- Naamlooze Vennootschap Kamatec. (See Stuivenberg, Cornelis H., assignor.)
- Naamlooze Vennootschap Kopergieterij, Appendage- en Pompen-Fabriek van G. Dikkers & Co. (See Cordijn, Cornelius, jr., assignor.)
- Naamlooze Vennootschap Machinerleen en Apparaten Fabrieken. (See Dannehl, Otto, assignor.)
- Naamlooze Vennootschap Nederlandsche Kunstzijdefabriek. (See Janssen, Hendrik J., assignor.)
- Naamlooze Vennootschap Nederlandsche Seintoestellen Fabriek. (See Reijnders, Franciscus H., assignor.)
- Naamlooze Vennootschap: Octrooi Maatschappij "Vedé." (See Van Diggelen, Johannes, C. M., assignor.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See David, G. and Von Leves, assignors.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See de Jong, Hendrik, assignor.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Holst, G., and Bouwers, assignors.)
- Naamlooze Vennootschap Philips' Gloeilampen-Fabrieken. (See Holst, G., Oosterhuis, and Bouwers, assignors.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Schoonenberg, Pancras, assignor.)
- Naamlooze Vennootschap Vereenigde Touwfabrieken. (See Hoos, Willem, assignor.)
- Nabors, William C., Mansfield, La. Winch attachment for automobile rear axle. 1,618,900; Jan. 11.
- Nabob. (See Lee, W. S., Fischer, and Nabow.)
- Nabstedt, Arthur T., New Haven, Conn. Reversing gear. 1,624,756; Apr. 12.
- Nacey, Harry M., Chicago, Ill. Automatic sprinkler head for sprinkling systems. 1,626,863; May 3.
- Nachdahl, David, Hibbing, Minn. Can opener. 1,618,304; Feb. 22.
- Nadollack, Malva, New York, N. Y. Wreath. Des. 72,563; May 3.
- Nadworney, Charles, assignor of two-thirds to L. Borack, Bayonne, N. J. Coin-controlled vending machine. 1,625,139; Apr. 19.
- Naef, Ernest E., Paris, France, assignor to Tubize Artificial Silk Company of America. Producing alkali-metal sulphhydrates. 1,636,106; July 19.
- Naef, M., & Co. (See Ruzicka, Leopold, assignor.)
- Nagai, Kiyoshi, San Francisco, Calif. Sanitary fine-tooth comb. 1,643,512; Sept. 27.
- Nagel, August, Stuttgart, Germany. Switch for electrical fuel-feeding apparatus. 1,637,425; Aug. 2.
- Nagel, Carl, Glesmarode, near Brunswick, Germany. Method and apparatus for compressing loose material in bags. 1,649,422; Nov. 6.
- Nagel-Chase Mfg. Co., The. (See Nagel, Theodore, assignor.)
- Nagel-Chase Mfg. Co. (See Schultz, Edward, assignor.)
- Nagel, Frederick J., Buffalo, N. Y. Barrel bung. 1,653,818; Dec. 27.
- Nagi, Robert, et al. (See Langan, William B., assignor.)
- Nagel, Theodore, Brooklyn, N. Y. Binding fuel material and producing same. 1,626,208; Apr. 26.

- Nagel, Theodore, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Vapor burner. 1,620,123; Mar. 8.
- Nagel, W. G., Electric Company, The. (See Adams, Harry E., assignor.)
- Nagel, W. G., Electric Company, The. (See Adams, H. E., and Decker, assignors.)
- Nagel, W. G., Electric Company, The. (See Decker, Hugh L., assignor.)
- Nagel, W. G., Electric Company, The. (See Featherstone, Edward B., assignor.)
- Nagin, Harry, Brooklyn, N. Y., assignor to the Grating Company of America, Pittsburgh, Pa. Connected bar structure. 1,631,691; June 7.
- Nagle, Perry L., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Rotary pump with liner plate. 1,638,055; Aug. 9.
- Nagle, William R. (See Bingaman, J. R., and Nagle.)
- Nagler, Floyd A., Iowa City, Iowa. Flow-increasing attachment for culverts. 1,643,953; Oct. 4.
- Nagy, Louis. (See Patus and Nagy.)
- Nagy, Louis, assignor of one-half to L. Morton, Hamilton, Ontario, Canada. Gravity table. 1,634,267; July 5.
- Nagy, Louis, assignor of one-half to M. Daradics, Hamilton, Ontario, Canada. Multiple writing table. 1,652,792; Dec. 13.
- Nahrstedt, Hermann. (See Mayer, S., and Nahrstedt.)
- Neiman, Julius, Chicago, Ill., assignor to J. W. Dana, Kansas City, Mo. Control system for mechanically-fired boilers. 1,643,640; Sept. 27.
- Neismith, William G., assignor to The Denver Rock Drill Mfg. Co., Denver, Colo. Fluid-operated motor. 1,629,226; May 17.
- Nario, Hilde, Portland, Oreg. Hair clip. 1,624,428; Apr. 12.
- Nakagawa, Shoichi, San Jose, Calif. Combined side wing and sun and rain shield for automobiles. 1,619,879; Mar. 8.
- Nakayama, Takasuke, assignor to Seimei Hata and Goshikaisha Co., Ltd., Tokyo, Japan. Gyro-Sho, Osaka, Japan. Rock drill. 1,617,025; Feb. 8.
- Nall, Torrey O., and E. J. Beauvais, St. Paul, Minn. Flour sifter. 1,631,105; May 31.
- Namet, Julius. (See McManaman, P., and Namet.)
- Namiot, Charles B., New York, N. Y. Combined lamp stand and arm tray. Dec. 73,683; Oct. 18.
- Namiot, Charles B., New York, N. Y. Garter. 1,636,107; July 19.
- Nance, Sidney A., Canfield, Ark. Flue. 1,615,909; Feb. 1.
- Nanfield, Ernest F., New Haven, Conn. Cleaning asbestos. 1,632,620; June 14.
- Nangano, Joseph C., San Pedro, Calif. Oil indicator. 1,619,531; Mar. 1.
- Nanji, Dinshaw B., Birmingham, and F. J. Paton, Smithwick, England. Manufacture of pectin products. 1,634,879; July 5.
- Nanney, Casey. (See Reiter, J. M., Nanney, and Payne.)
- Nanni, Menotti, Tivoli, near Rome, Italy. Pneumatic connecting device. 1,625,372; Apr. 19.
- Nanterme, Joseph, Lyon, France. Machine for inspecting a piece of tissue, measuring its length, and folding it. 1,624,080; Apr. 12.
- Napier, Archibald S., St. Paul, assignor to J. N. Collins Company, Minneapolis, Minn. Advertising and display carton. 1,636,066; July 19.
- Napier, Charles H., Milwaukee, Wis. Oven grid. 1,621,595; Mar. 22.
- Napier Co., The. (See Ross, J., and Schuelke, assignors.)
- Napier Co., The. (See Schuelke, E. A., and Ross, assignors.)
- Napier, D., and Son Limited. (See Napier, M. S., and Wilkinson, assignors.)
- Napier, D., and Son Limited. (See Napier, M. S., Wilkinson, and Tryon, assignors.)
- Napier, Frank L., St. Joseph, Ohio. Road machine. 1,613,051; Jan. 4.
- Napier, George R., Cleveland, Ohio. Cleaning meat stuffers. 1,622,045; Mar. 22.
- Napier, James W., McKeenport, Pa. Coupling and making the same. 1,623,064; Apr. 5.
- Napier, Montague S., Cannes, France, G. S. Wilkinson and H. C. Tryon, assignors to D. Napier & Son Limited, London, England. Locking device for adjustable rods, handles, and the like. 1,622,203; Mar. 22.
- Napier, Montague S., Cannes, France, and G. S. Wilkinson, assignors to D. Napier & Son Limited, London, England. Cylinder for internal-combustion engines. 1,622,965; Mar. 29.
- Narayan, Prem, Bijnor, India. Monogrammic advertising apparatus. 1,635,827; July 26.
- Nardin, William T., Moorestown, N. J., assignor to G. J. Campbell, Philadelphia, Pa. Coupling for tire chains. 1,635,975; July 12.
- Narragansett Machine Company. (See Thornley, Albert E., assignor.)
- Narrow, Anton H., Memphis, Tenn. Saw gauge. 1,633,996; June 28.
- Nascivera, Cesare. (See Bambini, A., and Nascivera.)
- Nasett, John I., Fergus Falls, Minn. Rest and holder for watch movements. 1,621,805; Mar. 22.
- Nash, Arthur W., Inc. (See Collins, Cornelius, assignor.)
- Nash, David H., Petersburg, Va. Speedometer drive. 1,627,616; May 10.
- Nash Engineering Company. (See Wright, George B., assignor.)
- Nash, George F., Santa Ana, Calif. Combination dolly and jack. 1,650,031; Nov. 22.
- Nash, George W., Denver, Colo. Brake dressing compound and making same. 1,639,611; Aug. 16.
- Nash, James O., Duke, Okla. Pump. 1,639,956; Aug. 23.
- Nash, Mary B., Pasadena, Calif. Holder for containers. 1,645,392; Oct. 11.
- Nash Motors Co. (See Schnell, William, assignor.)
- Nash Motors Company. (See Wahlberg, Nils E., assignor.)
- Nash, Ralph, assignor to C. M. Lovsted, Seattle, Wash., doing business as C. M. Lovsted & Co. Drawhead and coupling link. 1,650,533; Nov. 22.
- Nash, Ronald E., and H. Von Sprecken, Montgomery, Iowa; said Nash assignor to said Von Sprecken. End gate. 1,632,747; June 14.
- Nash, William C., Neenah, Wis. Antifrost vision glass. 1,638,505; Aug. 9.
- Nash, William H., Sault Ste. Marie, Ontario, Canada. Hauling attachment for Fordson tractors. 1,616,463; Feb. 8.
- Nashua Brass Company. (See Dennis, W. J., and Perry, assignors.)
- Nashua Gummed & Coated Paper Company. (See Carter, Winthrop L., assignor.)
- Nashua Gummed & Coated Paper Company. (See O'Clair, Edward J., assignor.)
- Nashua Manufacturing Company. (See Cafray, William E., assignor.)
- Nashua Youngblood Company. (See Youngblood, Knowles, assignor.)
- Naske, Carl, Berlin-Charlottenburg, Germany. Kiln for burning of cement. 1,622,337; Mar. 29.
- Nastasia, John. (See Nastasia, Romeo M., assignor.)
- Nastasia, Romeo M., assignor of one-fifth to J. Nastasia, Long Branch, N. J. Mantle. 1,651,219; Nov. 29.
- Naterman, Henry C., Los Angeles, Calif. Resilient package-holding device. 1,625,275; Apr. 19.
- Nathan, Albert E. (See De Leeuw, Adolph L., assignor.)
- Nathan, Alfred, Leipzig, Germany. Treating cheap skulls in imitation of more expensive furs. 1,642,505; Sept. 13.
- Nathan, Benjamin, New York, N. Y. Textile fabric. Des. 73,575; Oct. 4.
- Nathan & Cohen Company. (See Muelberger, Walter, assignor.)
- Nathan, Edwin B., Yonkers, N. Y. Receptacle. 1,629,837; May 24.
- Nathan Manufacturing Company. (See Reynolds, H. W., assignor.)
- Nathan, Samuel, assignor of one-fourth to W. Klingenstein and one-fourth to D. Hart, Los Angeles, Calif. Campstove burner. 1,640,148; Nov. 22.
- Nathansohn, Alexander, Bad Harzburg, Germany. Producing lead compounds of chromic acids. 1,633,948; July 28.
- Nathanson, Matthew A., Boston, Mass. Mirror. 1,652,673; Dec. 13.
- National Acme Company, The. (See Drissner, Alfred E., assignor.)
- National Acme Company, The. (See Wheeler, Earl H., assignor.)
- National Acrolein Burner Company. (See Straitz, John F., assignor.)
- National Aniline & Chemical Company. (See Churchman, John W., assignor.)
- National Aniline & Chemical Co. (See Crowell, Joyce H., assignor.)
- National Aniline & Chemical Company. (See Field, Crosby, assignor.)
- National Aniline & Chemical Co. (See Flett, Lawrence H., assignor.)
- National Aniline & Chemical Co. (See Leaming, Thomas D., assignor.)
- National Aniline & Chemical Company. (See Lewis, Harry F., assignor.)
- National Aniline & Chemical Company. (See Nelson, Ralph A., assignor.)
- National Aniline & Chemical Company. (See Nelson, R. A., and Prall, assignors.)
- National Aniline & Chemical Co. (See Penny, James P., assignor.)
- National Aniline & Chemical Company. (See Rogers, Donald G., assignor.)
- National Aniline & Chemical Co. (See Wait, Justin F., assignor.)
- National Aniline and Chemical Co. (See Wenker, Henry, assignor.)
- National Aniline & Chemical Company. (See Zeller, O., and Waldman, assignors.)
- National Assorting Company. (See Cox, George W., Jr., assignor.)
- National Auto Body Works. (See Stone, George W., assignor.)
- National Automatic Tool Company, The. (See Burton, Paul C., assignor.)
- National Automatic Tool Company, The. (See Galloway, Robert M., assignor.)
- National Automatic Tool Co., The. (See Galloway, R. M., and Meloy, assignors.)
- National Automatic Tool Co., The. (See Peters, Frebert J., assignor.)
- National Automatic Tool Company, The. (See Stickney, Charles A., assignor.)

- National Biscuit Company. (See Taylor, George A., assignor.)
- National Blank Book Company. (See Schade, John, assignor.)
- National Brake Company. (See Brewster, William D., assignor.)
- National Brake and Electric Company. (See Aikman, Burton S., assignor.)
- National Brake & Electric Company. (See Beimling, William A., assignor.)
- National Brass Company, The. (See Knapp, Edward L., assignor.)
- National Brick Company. (See Weber, Clarence J., assignor.)
- National Bundle Tye Company. (See Saxton, Albert H., assignor.)
- National Carbon Company. (See Armstrong, George W., assignor.)
- National Carbon Company. (See Birdsall, Charles G., assignor.)
- National Carbon Company. (See Briggs, Arthur J., assignor.)
- National Carbon Company. (See Heise, G. W., and Schumacher, assignors.)
- National Carbon Company. (See Heise, G. W., Thompson, and Chaney, assignors.)
- National Carbon Company. (See Hendry, William F., assignor.)
- National Carbon Company. (See Holt, Francis A., assignor.)
- National Carbon Company. (See Hopkins, Nevil M., assignor.)
- National Carbon Company. (See Kerlin, J. F., and Rosenhofer, assignors.)
- National Carbon Company. (See Osean, Charles, assignor.)
- National Carbon Company. (See Reich, Edwin J., assignor.)
- National Carbon Company. (See Roberg, Philip, assignor.)
- National Carbon Company. (See Schumacher, Erwin A., assignor.)
- National Carbon Company. (See Voorhees, Lee J., assignor.)
- National Carbon Company. (See Wendel, Edmund, assignor.)
- National Card Mounting Company. (See List, Frank X., assignor.)
- National Carton Company. (See Yngve, Victor, assignor.)
- National Cash Register Company, The. (See Block, Abraham, assignor.)
- National Cash Register Company, The. (See Bowman, William W., assignor.)
- National Cash Register Company, The. (See Brand, Samuel, assignor.)
- National Cash Register Company, The. (See Christian, R. A., and Gates, assignors.)
- National Cash Register Company, The. (See Dement, Isaac S., assignor.)
- National Cash Register Company. (See Fuller, F. L., and Robertson.)
- National Cash Register Company, The. (See Goldberg, Maximilian M., assignor.)
- National Cash Register Company, The. (See Klostermann, Joseph J., assignor.)
- National Cash Register Company, The. (See Kreider, Walter J., assignor.)
- National Cash Register Company, The. (See Kuhlman, Edward H., assignor.)
- National Cash Register Company. (See Robertson, William H., assignor.)
- National Cash Register Company, The. (See Scott, H. B., Wildmont, and Huey, assignors.)
- National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
- National Cash Register Company, The. (See Von Pein, Edward J., assignor.)
- National Casket Company. (See Falck, Joseph E., assignor.)
- National Concrete Metal Forms Corporation. (See Seelye, Elwyn E., assignor.)
- National Conveyor Company, The. (See Gerdeman, Frank H., assignor.)
- National Drug Co. (See Mulford, Henry K., assignor.)
- National Dump Car Company. (See Nelkirk, John O., assignor.)
- National Electric Door Company. (See Petersen, William G., assignor.)
- National Electric Manufacturing Company. (See Fox, Harold E., assignor.)
- National Enameling and Stamping Company. (See Richman, Solomon, assignor.)
- National Enameling and Stamping Co. Inc. (See Sladky, Alexander C., and J., assignors.)
- National Equipment Company. (See Bausman, Alonzo L., assignor.)
- National Fire Proofing Company. (See Bevier, Philip H., assignor.)
- National Fire Proofing Company. (See Wallace, Robert G., assignor.)
- National Folding Box Company. (See Ryan, J. J., and McFadyen, assignors.)
- National Form & Fixture Co. (See Glaberman, Harry, assignor.)
- National Formetal Company, The. (See Raus, John, assignor.)
- National Fruit Flavor Company. (See McBride, Howard R., assignor.)
- National Fruit Juice Extractor Company. (See Davis, Frederick E., assignor.)
- National Graphite Lubrication Company. (See Watres, Lewis S., assignor.)
- National Grave Vault Co., The. (See Brick, Perry A., assignor.)
- National Gum Company. (See Blendow, A. W., and Blendorn, assignors.)
- National Labeling Machine Company. (See Cereghino, Joseph A., assignor.)
- National Lace & Embroidery Company. (See Schmid, Werner, assignor.)
- National Lead Company. (See Behr, Gustave E., Jr., assignor.)
- National Lead Company. (See Newnam, William E., assignor.)
- National Lead Company. (See Walker, Edward C., assignor.)
- National Lock Co. (See Aldeen, Gedor W., assignor.)
- National Lock Co. (See Aldeen, Wilhelm G., assignor.)
- National Lock Washer Company, The. (See Armstrong, John L., assignor.)
- National Lock Washer Company, The. (See Loutrel, Cyrus H., assignor.)
- National Machine Tool Co. (See Heinrich, R., and Kramer, assignors.)
- National Machinery Co., The. (See Clouse, William L., assignor.)
- National Malleable and Steel Castings Company. (See Anliker, F., and Wittmer, assignors.)
- National Malleable and Steel Castings Company. (See Arthur, Arthur J., assignor.)
- National Malleable and Steel Castings Company. (See Blackmore, W., Bazeley, and Robinson, assignors.)
- National Malleable and Steel Castings Company. (See Blackmore, William, assignor.)
- National Malleable and Steel Castings Company. (See Blackmore, William, assignor.)
- National Malleable and Steel Castings Company. (See Eler, John L., assignor.)
- National Malleable and Steel Castings Company. (See Madison, David, assignor.)
- National Malleable and Steel Castings Company. (See Madder, Harold B., assignor.)
- National Malleable and Steel Castings Company. (See Rabinson, David, assignor.)
- National Malleable and Steel Castings Company. (See Schmidt, Ernest H., assignor.)
- National Malleable and Steel Castings Company. (See Schwartz, Harry A., assignor.)
- National Malleable and Steel Castings Company. (See Wilson, John, assignor.)
- National Malleable and Steel Castings Company. (See Wittmer, Russell J., assignor.)
- National Manufacturing Company. (See Pemberton, Harold, assignor.)
- National Manufacturing Company Inc. (See Ferris, Walton C., assignor.)
- National Manufacturing Company of America. (See Walker, Harry, assignor.)
- National Marking Machine Company. (See Faust, Alexander L., assignor.)
- National Marking Machine Company, The. (See Osborne, R., and Miller, assignors.)
- National Metal and Chemical Bank Limited. (See Mackay, Philip A., assignor.)
- National Metal Molding Company. (See Calderwood, Hugh A., assignor.)
- National Metal Molding Company. (See Renshaw, Clarence, assignor.)
- National Paper Box Company. (See Newton, Edwin H., assignor.)
- National Paper Can Company, The. (See Annen, James E., assignor.)
- National Paper Products Company. (See Nelson, Clarence M., assignor.)
- National Pneumatic Company. (See Conklin, Roscoe D., assignor.)
- National Pneumatic Company. (See Dapron, Joseph M., assignor.)
- National Pneumatic Company. (See Forman, Paris R., assignor.)
- National Pneumatic Company, The. (See Hockley, Horace R., assignor.)
- National Pneumatic Company. (See Meyers, George W., assignor.)
- National Pneumatic Company. (See Quinn, James L., assignor.)
- National Pneumatic Company. (See Rowntree, Harold, assignor.)
- National Pneumatic Company. (See Rowntree, H., and Conklin, assignors.)
- National Pole & Treating Company. (See Valentine, Robert D., assignor.)
- National Products Incorporated. (See Bossard, Theodore, assignor.)
- National Pump and Compressor Company. (See Wilson, Edward, assignor.)
- National Recording Pump Company. (See Hatmaker, W. T., and Elckmeyer, assignors.)
- National Recording Pump Company, The. (See Hatmaker, W. T., and Elckmeyer, assignors.)

- National Refining Company, The. (See Setzler, Horace B., assignor.)
 National Refining Process Corporation. (See Kirkpatrick, William C., assignor.)
 National Refrigerating Company. (See Ensign, Emory S., assignor.)
 National Refrigerating Company. (See Johnson, Philip M., assignor.)
 National Refrigerating Company. (See Keyes, Frederick G., assignor.)
 National Regulator Company. (See Larson, John M., assignor.)
 National Safety Devices Company. (See Lamb, William G., assignor.)
 National Safety Devices Company. (See Woodring, Alberto L., assignor.)
 National Sales Company. (See Cowan, Frank, assignor.)
 National Screen & Manufacturing Company, The. (See Stickle, Frederick A., assignor.)
 National Screen Service, Inc. (See Reichmann, Willy, assignor.)
 National Screw and Manufacturing Company, The. (See Tolin, Albert E., assignor.)
 National Smeiting Company, The. (See Frost, John G. G., assignor.)
 National Spun Silk Co. (See Frieder, L. P., Huntley, and Hollas, assignors.)
 National Spun Silk Co. (See Roe, E. O., and Frieder, L. P., assignors.)
 National Standard Company. (See Hopkins, Arthur C., assignor.)
 National Standard Company. (See Staley, Joseph H., assignor.)
 National Standard Threadless Coupling Corporation. (See Schawrow, Ralph, assignor.)
 National Store Specialty Co., The. (See Henwood, Lloyd S., assignor.)
 National Supply Company, The. (See Archer, Merton T., assignor.)
 National Supply Company, The. (See Mahan, Joseph R., assignor.)
 National Supply Company, The. (See Schwimmer, F. J., and Wright, assignors.)
 National Supply Company, The. (See Wright, Clyde S., assignor.)
 National Supply Company of Delaware, The. (See Timbs, Edward, assignor.)
 National Surety Company. (See Kirkegaard, Georg, assignor.)
 National Title Company, The. (See Jones, L. S., Fisher, and Henrikson, assignors.)
 National Tool Company, The. (See Simmons, Oliver G., assignor.)
 National Tube Company. (See Bosle, J. P., and Telfer, assignors.)
 National Tube Company. (See Burge, Alfred, assignor.)
 National Tube Company. (See Cook, Howard D., assignor.)
 National Tube Company. (See Webb, Samuel, assignor.)
 Nations, Samuel O., Snyder, Tex. Casing for computing devices. Des. 73,329; Aug. 23.
 Naud, Jack. (See Mitchell, S. W., Naud, and Goldman.)
 Naugatuck Chemical Company, The. (See Bradley, C. E., and Gibbons, assignors.)
 Naugatuck Chemical Company, The. (See Cadwell, Sidney M., assignor.)
 Naugatuck Chemical Company, The. (See Gibbons, Willis A., assignor.)
 Naugatuck Chemical Company, The. (See Hopkinson, E., and Gibbons, assignors.)
 Naugatuck Chemical Company, The. (See McGavack, John, assignor.)
 Naugatuck Chemical Company, The. (See Ostromslensky, Iwan, assignor.)
 Naugatuck Chemical Company, The. (See Smith, Omar H., assignor.)
 Naugatuck Chemical Company, The. (See Teague, Merwyn C., assignor.)
 Naugle, Albert E., Pitman, N. J. Envelope and making same. 1,632,669; June 14.
 Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors, to Forged Steel Wheel Company, Pittsburgh, Pa. Making strip sheets. Re16,652; June 14.
 Naugle, Ingle R., Anna, Ohio. Ash tray. 1,624,621; Apr. 12.
 Naugle, John J., Brooklyn, N. Y. Filtering element. 1,633,709; June 25.
 Naujoks, William, and E. E. McLaughlin, Los Angeles, Calif. Support for musical instruments. 1,646,165; Oct. 18.
 Naul, James M., Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electric motor and transmitter unit. 1,652,319; Dec. 13.
 Naul, James M., Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electric motor and transmitter unit. 1,652,492; Dec. 13.
 Naumburg, Robert E., Winchester, Mass. Piece-up mechanism for textile machines. 1,626,954; May 8.
 Naunton, William J. S. (See Cronshaw, C. J. T., and Naunton.)
 Nauts, Frank A., assignor to Gendron Wheel Company, Toledo, Ohio. Sprocket. 1,638,871; Aug. 16.
 Nava, Genaro M., New York, N. Y. Protractor and using same. 1,628,266; May 10.
 Navarre, Placide, Paris, assignor to Société Fraïsse Freres, Cavaillon, and Société P. Navarre et Fils, Paris, France. Apparatus for continuous extraction by pressure. 1,620,967; Mar. 8.
 Navrogonis, Aristotle, Milwaukee, Wis. Electron-discharge device. 1,629,171; May 17.
 Nawarynski, John, Cleveland, Ohio. Antitheft alarm device. 1,653,778; Dec. 27.
 Nawiasky, Paul, Ludwigshafen-on-the-Rhine, K. Zahn, Höchst-on-the-Main, and K. Saurwein, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktien-gesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of vat dyestuffs. 1,633,997; June 28.
 Nawiasky, Paul, Ludwigshafen-on-the-Rhine, O. Braunsdorf, and E. Holzapel, Höchst-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of isodithionitriles. 1,644,849; Oct. 11.
 Naylor, Howard W., Morris, N. Y. Dilator. 1,625,906; Apr. 26.
 Naylor, Norman C., Chicago, Ill. Journal box. 1,651,619; Dec. 6.
 Naylor, Oris M., Toledo, Ohio. Automatic reversible double-acting socket wrench. 1,613,328; Jan. 4.
 Naylor, Richard T., et al. (See McMullen, Joseph B., assignor.)
 Naylor, William B., London, England. Sound-box for gramophones and similar instruments. 1,634,350; July 5.
 Neahr, Jacob E., Hartsdale, N. Y. Match safe. 1,637,496; Aug. 5.
 Neahr, Jacob B., Hartsdale, assignor to Underwood Typewriter Company, New York, N. Y. Typewriter stand. 1,624,196; Apr. 5.
 Neal, Frank F., assignor of one-half to F. W. Neal, Chicago, Ill. Money-changer holder. 1,619,880; Mar. 8.
 Neal, Frank W. (See Neal, Frank F., assignor.)
 Neal, Franklin G. (See Leard, F. C., and Neal.)
 Neal, Franklin G. (See Welcker, Randolph, assignor.)
 Neal, Franklin G., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Oil-burning furnace. 1,637,269; July 26.
 Neal, Ralph J., Durham, N. C. Heating device for automobiles. 1,613,550; Jan. 4.
 Neal, William E., Middletown, Ohio. Tire chain. 1,618,020; Feb. 15.
 Neal, William P., Louisville, Ky. Costumer. Des. 73,576; Oct. 4.
 Neal, Zearl E. (See Erickson, E. A., and Neal.)
 Neale, Robert M. (See Nelson, Lewis D., assignor.)
 Neale, Robert M., et al. (See Nelson, Lewis D., assignor.)
 Neasham, John W., Des Moines, Iowa. Riner attachment for meat-slicing machines. 1,626,093; Apr. 26.
 Neath, Jephthah, Staines, England. Construction of tennis courts. 1,628,679; May 17.
 Nebel, Ernst O., Philadelphia, Pa. Stocking. Des. 72,302; Mar. 22.
 Nebel, Ernst O., Philadelphia, Pa. Stocking. Des. 73,620; Oct. 11.
 Nebergall, Loran E., Denver, Colo. Drill collar for hydraulic rotary drills. 1,616,666; Feb. 6.
 Neckles, George, assignor of one-half to G. N. Callis, Zanesville, Ohio. Powder dispenser. 1,635,139; July 5.
 Nedds, Merle L., Sandpoint, Idaho. Game. 1,713,526; Jan. 4.
 Neebe, Lawrence L., Woodbury, N. J. Locomotive-cross-head guide. 1,635,054; July 5.
 Neebe, Lawrence L., Woodbury, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Locomotive-driving mechanism. 1,646,210; Oct. 18.
 Neebel, Elmer, et al. (See Frambach, Mathew J., assignor.)
 Neederman, Stephen A., assignor of forty per cent to H. M. Smith, Dallas, Tex. Novelty toothbrush. 1,619,212; Mar. 1.
 Needham, William H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Finger for loom bobbies. 1,647,709; Nov. 1.
 Needles, John W., assignor of one-half to M. M. House, Kansas City, Mo. Dental grinding device and process. 1,636,321; July 19.
 Neef, Arthur B., St. Louis, Mo. Protecting attachment for repeating guns. 1,614,755; Jan. 18.
 Neeldans, Abram R., and G. Damry, Doncaster, England. Construction of concrete piles or foundation elements. 1,642,213; Sept. 13.
 Neeldans, Abram R., Doncaster, assignor to The Francois Cementation Company, Limited, London, England. Sealing or fixing of casing tubes in bore holes, wells, or the like. 1,649,846; Nov. 22.
 Neeley, George S., Wood River, Ill. Leather-treating process and apparatus for same. 1,623,943; Apr. 5.
 Neelmeier, Wilhelm, Leverkusen, T. Noeken, Wiesdorf, near Cologne-on-the-Rhine, and W. Rehner, Cologne-Mühlheim, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Chromable brown disazo dyestuffs. 1,643,222; Sept. 20.
 Neelmeier, Wilhelm, Leverkusen, near Cologne-on-the-Rhine, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Brown substituted benzidine wool dyestuffs. 1,646,793; Oct. 25.

- Neelmeier, Wilhelm, Leverkusen, near Cologne, and T. Nocken, Wiesdorf, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparation of azo dyestuffs. 1,650,090; Nov. 22.
- Neely, Kenneth D., Rising Star, Tex. Elevator for oil-well drilling stems. 1,637,270; July 26.
- Necan, Joseph M., Shreveport, La., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Glass furnace. 1,641,898; Sept. 6.
- Neer, Amy C., et al., executors. (See Garber, Daniel H.)
- Neff, David, et al. (See Taylor, Charles W., assignor.)
- Neff, John W., Easton, Pa. Safety paper. 1,652,042; Dec. 6.
- Neff, Joseph. (See Abrams, S., and Neff.)
- Neff, Joseph P., Bradford, Ohio, assignor of one-half to W. W. Neff, Dayton, Ohio. Merry-go-round. 1,652,993; Dec. 13.
- Neff, William W. (See Neff, Joseph P., assignor.)
- Negbauer, Harry, New York, N. Y., assignor to E & J Bass, Incorporated. Pocket flask. Des. 72,525; Apr. 26.
- Negly, Laurel A., and P. S. Black, Fort Worth, Tex. Cereal beverage compound. 1,631,829; June 7.
- Negly, Laurel A., and P. S. Black, Fort Worth, Tex. Preparing cereal beverage compounds. 1,631,830; June 7.
- Neher, Noah N., Los Angeles, Calif. Manifold cut-off for internal-combustion engines. 1,624,275; Apr. 12.
- Neib, Inc. (See Hatcher, Claude A., assignor.)
- Neihring, Paul. (See Witter, W., and Neihring.)
- Neidich, Samuel A. (See Mendel, William, assignor.)
- Neidich, Samuel A., Edgewater Park, N. J. Viscose-treating apparatus. 1,616,918; Feb. 8.
- Neidich, Samuel A., Edgewater Park, N. J. Ribbon-spool clutch. 1,620,279; Mar. 8.
- Neidich, Samuel A., Edgewater Park, N. J. Filament-dyeing apparatus. 1,627,059; May 3.
- Neidich, Samuel A., Edgewater Park, N. J. Renewing ink ribbon. 1,636,573; July 19.
- Neidich, Samuel A., Edgewater Park, N. J. Ink-ribbon stop mechanism. 1,639,746; Aug. 23.
- Neidich, Samuel A., Edgewater Park, N. J. Braid hank winding mechanism. 1,641,288; Sept. 6.
- Neidich, Samuel A., Edgewater Park, N. J. Forming cold products. 1,643,080; Sept. 20.
- Neidich, Samuel A., Edgewater Park, N. J. Ink-ribbon-winding mechanism. 1,643,313; Sept. 27.
- Neidich, Samuel A., Edgewater Park, N. J. Viscose product. 1,651,404; Dec. 6.
- Neidich, Samuel A., Edgewater Park, N. J. Viscose-filament-dyeing product. 1,651,832; Dec. 6.
- Neidig, Roy D., Moscow, Idaho. Cleaning composition for type and the like. 1,613,620; Jan. 11.
- Neighbour, Arthur G. L., Brighton, Victoria, Australia. Starting device for magneto-electric ignition machines. 1,613,052; Jan. 4.
- Neighbour, Arthur G. L., Brighton, Victoria, Australia. Magneto-electric ignition machine. 1,613,053; Jan. 4.
- Neighbour, Leonard B., East Moline, Ill., assignor to Deere & Company, Moline, Ill. Axle connection for vehicles. 1,625,139; Apr. 19.
- Neighbour, Leonard B., East Moline, assignor to Deere & Company, Moline, Ill. Traction motor. 1,636,828; July 26.
- Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Manure spreader. 1,638,829; July 26.
- Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Manure spreader. 1,637,232; July 26.
- Neikirk, John O., Lombard, assignor to National Dump Car Company, Chicago, Ill. Car. 1,626,010; Apr. 26.
- Neikirk, John O., Lombard, Ill., assignor to Wine Railway Appliance Co., Toledo, Ohio. Rail-way-door latch. 1,637,911; Aug. 2.
- Neikirk, John O., Lombard, assignor to National Dump Car Company, Chicago, Ill. Door-control mechanism. 1,643,081; Sept. 20.
- Neil, Alexander, S. Jones, and D. Neil, Barry Dock, Wales. Spragging device for colliery trams or other vehicles. 1,644,976; Oct. 4.
- Neil, Charles, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric snap switch. 1,652,541; Dec. 13.
- Neil, David. (See Neil, A., Jones, and Neil.)
- Neil, James, Anniesland, Glasgow, Scotland. Exhaust silencer for internal-combustion engines. 1,635,780; Aug. 9.
- Neil, Joseph B., York, assignor of one-third to C. L. Cobb, Rock Hill, and one-third to J. C. Wilborn, York, S. C. Cotton-picking machine. 1,635,725; July 12.
- Neil, William, assignor to William Neil & Company, Chicago, Ill. Control. 1,619,935; Jan. 17.
- Neil, William, & Company. (See Neil, William, assignor.)
- Nelhan, John J., Cleveland, Ohio. Punch press. 1,639,100; Aug. 16.
- Nelson, Emil J., assignor to Phenolic Products Corporation, Rockford, Ill. Toilet-seat-hinge mounting. 1,633,281; June 21.
- Nelson, Karl P., Long Beach, Calif. Deep-well gas and oil separator. 1,628,900; May 17.
- Nelson, Karl P., Long Beach, Calif. Pump-plunger assembly. 1,628,901; May 17.
- Nelson, Karl P., Long Beach, Calif. Oil pump. 1,649,971; Nov. 22.
- Nelson, Albert H. (See Moody, J. F., and Du Bois, assignors.)
- Nelson, Albert H., Tulsa, Okla. Sucker-rod elevator. 1,622,587; Mar. 29.
- Nelson, Albert H., Tulsa, Okla. Packing for oil-well pumps. 1,624,798; Apr. 12.
- Nelson, Albert H., Tulsa, Okla. Sucker-rod elevator. 1,624,799; Apr. 12.
- Nelson, Albert H., Tulsa, Okla. Multiple sucker-rod socket. 1,640,847; Aug. 30.
- Nelson, Albert H., Tulsa, Okla. Clevis. 1,645,714; Oct. 18.
- Nelson, James P., sr., Tulsa, Okla. Combination releg and jack clamp. 1,626,864; May 3.
- Nelson, Robert E., Tulsa, Okla. Safety hook. 1,626,865; May 3.
- Nelson, Robert E., Tulsa, Okla. Safety hook. 1,626,866; May 3.
- Nelson, Robert M., Montreal, Quebec, Canada. Mattress case. 1,641,231; Sept. 6.
- Nelman, Howard S., Brooklyn, N. Y. Filling device. 1,615,997; Feb. 1.
- Neln, Charles L. (See Reid, J. E., and Neln.)
- Neln, Charles L., assignor to International Motor Company, New York, N. Y. Dump body. 1,615,131; Jan. 18.
- Nelss, Oskar H. L., assignor to Elektrotrennmaschinen Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Method and apparatus for electrically cutting metal. 1,619,627; Mar. 1.
- Nelisz, A. J., administrator. (See Philbin, Loren A.)
- Nelisz, Anthony J. (See Philbin, Loren A., assignor.)
- Neitzel, Conrad T., Dallas, Tex. Well-testing tool. 1,625,140; Apr. 19.
- Nelz, Oscar A., and H. N. Holm, Minneapolis, Minn. Control for swinging doors, windows, and the like. 1,612,939; Jan. 4.
- Nelis, Joseph J., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Superheater boiler. 1,632,805; Apr. 5.
- Nell, Gustav M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock drill. 1,633,551; June 21.
- Nell, Gustav M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock drill. 1,643,563; Sept. 27.
- Nell, Gustav M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Opening the bores of steels for rock-drilling purposes. 1,651,930; Dec. 6.
- Nell, Gustav M., and W. G. Kale, assignors to The Cleveland Rock Drill Company, Cleveland, Ohio. Drill-stem retainer. 1,637,912; Aug. 2.
- Nellenstein, Frederik J. (See Pataky, W. C. H., and Nellenstein.)
- Nelles, Russell E., assignor to Reading Chain & Block Corporation, Reading, Pa. Adjustable end truck. 1,637,545; June 7.
- Nelles, Winand H. (See Kranz, Michael, assignor.)
- Nellis, Charles P., and A. W. Scott, assignors to The Inland Manufacturing Company, Dayton, Ohio. Steering wheel. 1,645,446; Oct. 11.
- Nellis, Edwin L., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Manufacture of nitric acid. 1,635,949; July 12.
- Nelson, A. L. (See Gammell, Clifton O., assignor.)
- Nelson, Albert, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Retarder. 1,647,575; Nov. 1.
- Nelson, Albert, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake shoe. 1,648,696; Nov. 8.
- Nelson, Albin J., Brooklyn, N. Y., assignor to American Scheffer and Buerkenberg Corporation. Humidity-control. 1,650,149; Nov. 22.
- Nelson, Alfred N., Long Beach, Calif. Waterproofing composition and making the same. 1,628,370; May 10.
- Nelson, Andrew F., Seattle, Was. Furnace. 1,616,196; Feb. 1.
- Nelson, Arthur A., assignor of one-fourth to L. Palmer, Burlington, Iowa. Door-control means. 1,639,747; Aug. 23.
- Nelson, Arthur P., Minneapolis, Minn. Rope-securing device. 1,643,676; Sept. 27.
- Nelson, Arvid R., Medlapots, Iowa. Jiffy-band tool. 1,648,964; Nov. 8.
- Nelson, Arvid R., Brooklyn, and J. E. Burgess, New York, N. Y. Car-display card. 1,652,907; Dec. 13.
- Nelson, Axel W., Chicago, Ill. Sanitary garbage container. 1,651,220; Nov. 29.
- Nelson Brothers Co. (See Nelson, Harry B., assignor.)
- Nelson, Charles G., Brooklyn, N. Y., assignor by mesne assignments, to Morckrum-Kleinschmidt Corporation, Chicago, Ill. Splicing mechanism for telegraph printers. 1,652,320; Dec. 13.
- Nelson, Charles A., assignor to Savage Arms Corporation, Utica, N. Y. Firearm. 1,626,867; May 3.
- Nelson, Charles G., assignor to Savage Arms Corporation, Utica, N. Y. Firearm. 1,628,798; May 17.
- Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Metal window sash. 1,649,914; Nov. 22.
- Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Support for window panes. 1,649,915; Nov. 22.

- Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Glass-fastening device. 1,649,916; Nov. 22.
- Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Metal window-pane holder. 1,649,917; Nov. 22.
- Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Self-supporting sash. 1,649,918; Nov. 22.
- Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Self-supporting window sash. 1,649,919; Nov. 22.
- Nelson, Charles O. (See Witt, B. V., and Nelson.)
- Nelson, Charles O., Greeley, assignor to United Fly Salt Company, Omaha, Nebr. Treating livestock. 1,621,131; Mar. 15.
- Nelson, Charles S., Cocolalla, Idaho. Vacuum tank. 1,627,293; May 3.
- Nelson, Charles S., assignor of one-half to Malvern L. Bruce, Sandpoint, Idaho. Puncturing machine. 1,622,588; Mar. 29.
- Nelson, Charles S., assignor to M. L. Bruce, Sandpoint, Idaho. Turning device. 1,639,856; Aug. 23.
- Nelson, Christian K., Onawa, Iowa, assignor to Eskimo Pie Corporation, Chicago, Ill. Confection and process for making confections. 1,638,548; Aug. 9.
- Nelson, Christy, Square Butte, Mont. Sanitary cover and trainer for milk pails. 1,624,276; Apr. 12.
- Nelson, Clarence M., assignor to National Paper Products Company, San Francisco, Calif. Coating tubes internally. 1,612,119; Jan. 4.
- Nelson, Crescent F., New Dorp, assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph system. 1,616,326; Feb. 1.
- Nelson, Edward L. (See Oswald, A. A., and Nelson.)
- Nelson, Elving O., assignor to The Dow Chemical Company, Midland, Mich. Bag construction. 1,652,679; Dec. 13.
- Nelson, Emil, Gary, Ind. Beam compass. 1,619,750; Mar. 1.
- Nelson, Emil A., Detroit, Mich. Welding. 1,624,501; Apr. 12.
- Nelson, Emil A., Detroit, Mich. Self-cleaning dump body. 1,627,336; May 3.
- Nelson, Emil A., Halfway, Mich. Carburetor. 1,625,141; Apr. 19.
- Nelson, Emil A., Detroit, Mich., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,623,262; Apr. 5.
- Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Lifting lever for disk wheels. 1,624,356; Apr. 12.
- Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Automobile wheel structure. 1,627,193; May 3.
- Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Vehicle wheel. 1,646,867; Oct. 25.
- Nelson, Eric, Wilmington, Calif., assignor, by mesne assignments, to Pacific Door and Sash Company. Wall seat. 1,642,125; Sept. 13.
- Nelson, Ernest B., Burchinal, Iowa. Corncrib construction. 1,646,308; Oct. 18.
- Nelson, Ernest G., Jr., assignor to Hartford-Empire Company, Hartford, Conn. Delivery apparatus for molten glass. 1,637,452; Aug. 2.
- Nelson, Ernst W., Ong, Nebr. Demountable rim. 1,634,203; June 28.
- Nelson, Frederick A., Worcester, Mass. Muffler for internal-combustion engines. 1,637,347; Aug. 2.
- Nelson, Fyan L., and J. A. Harmon, Uvalde, Tex. Equalizer for four-wheel brakes. 1,620,221; Mar. 8.
- Nelson, George M., Escalon, Calif. Marble coaster. 1,615,342; Jan. 25.
- Nelson, George W. (See Stewart, D. H., and Nelson.)
- Nelson, Gilbert, Clear Lake, Wis. Lollipop. Des. 74,119; Dec. 20.
- Nelson, Gordon W., Philadelphia, Pa. Newspaper-inserting apparatus. 1,616,061; Feb. 1.
- Nelson, Gust, assignor of one-half to F. R. Pendleton, Vancouver, British Columbia, Canada. Choker hook. 1,642,622; Sept. 13.
- Nelson, Gust W., Cloquet, Minn. Disintegrator. 1,628,419; May 10.
- Nelson, Hans J., Palo Alto, Calif. Aeroplane. 1,635,897; July 12.
- Nelson, Harry B., assignor to Nelson Brothers Co., Saginaw, Mich. Ratchet mechanism for pump handles and the like. 1,637,125; July 26.
- Nelson, Heber S., assignor of one-fourth to R. M. Stewart, Salt Lake City, Utah. Phonograph reproducer. 1,649,483; Nov. 15.
- Nelson, Henry F. (See Nelson, Nels M. and H. F.)
- Nelson, Horace O. (See Stokes, Thomas J., assignor.)
- Nelson, Horace O., assignor to J. A. Harmon, Uvalde, Tex. Caster mounting. 1,614,894; Jan. 18.
- Nelson, Ira I., Boston, Mass. Relief valve. 1,650,150; Nov. 22.
- Nelson, Jabez C., and P. E. Geldhof, assignors to Syracuse Washing Machine Corporation, Syracuse, N. Y. Nelson, Jennie M., St. Paul, Minn. Hand bandeau. 1,637,126; July 26.
- Nelson, John. (See Glanzer, R. W., and Nelson.)
- Nelson, John, Blooming Prairie, Minn. Valve-spring compressor. 1,613,475; Jan. 4.
- Nelson, John, Chicago, Ill. Power equalizer for power presses. 1,633,266; June 21.
- Nelson, John, Chicago, Ill. Cushioning means for power presses. 1,633,267; June 21.
- Nelson, John, Chicago, Ill. Air compressor. 1,651,964; Dec. 6.
- Nelson, John, assignor to Automatic Electric Washer Co., Newton, Iowa. Hydrolisk for washing machines. 1,615,952; Feb. 1.
- Nelson, John A., Bertrand, Nebr. Tongs. 1,637,388; Aug. 2.
- Nelson, John E. (See Tanner, Inos B., assignor.)
- Nelson, John H., Chicago, Ill., assignor to H. A. Douglas, Bronson, Mich. Locking mechanism. 1,622,732; Mar. 29.
- Nelson, John H., Chicago, Ill., assignor, by mesne assignments, to Ecco Manufacturing Company. Timing switch. 1,626,475; Apr. 26.
- Nelson, John H., Chicago, Ill., assignor to Caskey-Dupree Manufacturing Company, Coldwater, Mich. Electric switch. 1,634,432; July 6.
- Nelson, John H., Chicago, Ill., assignor to H. A. Douglas, Bronson, Mich. Electric switch. 1,640,614; Aug. 30.
- Nelson, John N., assignor to Universal Optical Corporation, Providence, R. I. Spectacle temple. 1,630,964; May 31.
- Nelson, John V., Maywood, assignor to F. K. Krag, Chicago, Ill. Swivel-head drill holder. 1,623,747; Apr. 5.
- Nelson, Jons, Los Angeles, Calif. Automobile license plate and theft indicator. 1,629,959; May 24.
- Nelson, Joseph E., & Sons. (See Tanner, Inos B., assignor.)
- Nelson, Joseph F., Los Angeles, Calif. Filter. 1,610,584; Mar. 2.
- Nelson, Joseph H. (See Tweedale, E., and Nelson.)
- Nelson, Karl O., and H. J. Nunnemacher, Milwaukee, Wis. Two-way valve. 1,640,093; Aug. 23.
- Nelson, Kenneth R., Olney, Ill. Crank shaft. 1,651,465; Dec. 6.
- Nelson, Lewen R., Peoria, Ill. Nozzle. 1,622,733; Mar. 29.
- Nelson, Lewen R., Peoria, Ill. Sprinkler. 1,631,381; June 7.
- Nelson, Lewis D., Coldwater, Mich. Bag-filling machine. 1,628,693; May 10.
- Nelson, Lewis D., Coldwater, assignor of one-half to R. M. Neale, Union City, Mich. Filling machine. 1,628,177; May 10.
- Nelson, Lewis D., Coldwater, assignor of one-half to R. M. Neale, Union City, Mich. Weighing and filling machine. 1,628,178; May 10.
- Nelson, Lewis D., Coldwater, assignor of one-half to R. M. Neale, Union City, Mich. Bag-filling machine. 1,628,179; May 10.
- Nelson, Lewis D., Coldwater, assignor of two-thirds to R. M. Neale and W. M. Hinch, Union City, Mich. Filling machine. 1,628,267; May 10.
- Nelson, Lewis D., Coldwater, assignor of one-half to R. M. Neale, Union City, Mich. Filling machine. 1,628,268; May 10.
- Nelson, Magda E., administratrix. (See Sundquist, Karl A.)
- Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multi-office telephone system. 1,614,678; Jan. 18.
- Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multifield telephone system. 1,615,998; Feb. 1.
- Nelson, Melven E., Fremont, Nebr. Fishhook extractor. 1,629,533; May 24.
- Nelson, Nels H., Minneapolis, Minn. Shoe tread. 1,653,059; Dec. 20.
- Nelson, Nels H., Minneapolis, Minn. Vehicle signal. Des. 72,183; Mar. 8.
- Nelson, Nels J. (See Rettedal, O., and Nelson.)
- Nelson, Nels J., Milwaukee, Wis., assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Clock-case. Des. 71,808; Jan. 4.
- Nelson, Nels J., Milwaukee, Wis., assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Clock-case. Des. 71,809; Jan. 4.
- Nelson, Nels J., Milwaukee, Wis., assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Clock-case. Des. 72,327; Mar. 29.
- Nelson, Nels M., and H. P. White Bird, Idaho. Portable sawing machine. 1,616,505; Feb. 8.
- Nelson, Nels T., Attleboro, assignor to J. F. Sturdy's Sons Co., Attleboro Falls, Mass. Bracelet hook. 1,653,058; Dec. 20.
- Nelson, Nelson L., et al. (See Corlew, C. M., and Nelson, assignors.)
- Nelson, Norris C., Rock Island, Ill. Automatic elevator control. 1,653,306; Dec. 20.
- Nelson, Ollie T., Waukegan, Ill. Manhole construction. 1,652,043; Dec. 6.
- Nelson, Oscar, Breckenridge, Minn. Automobile headlight. 1,630,880; May 31.
- Nelson, Oscar T., assignor to The Nemi Products Company, Cleveland, Ohio. Apparatus for indicating the level of liquid. 1,613,245; Jan. 4.
- Nelson, Oscar V., Racine, Wis. All-metal window sash. 1,655,336; July 26.
- Nelson, Otto, and P. Lignell, assignors to Hercules Motor Corporation, Chicago, Ill. Internal-combustion engine. 1,640,958; Aug. 30.

- Nelson, Paul A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Automatic lubricator. 1,650,091; Nov. 22.
- Nelson, Paul D., and B. C. Lammers, Venango, Nebr. Halter. 1,633,268; June 21.
- Nelson, Ralph A., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of benzidine and derivatives. 1,635,123; June 21.
- Nelson, Ralph A., and A. Prasil, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Reduction of nitro compounds. 1,644,483; Oct. 4.
- Nelson, Ralph A., and A. Prasil, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Reduction of nitro compounds. 1,644,484; Oct. 4.
- Nelson, Stanley F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. 1,620,733; Mar. 15.
- Nelson, Sven T., Chicago, Ill., assignor to Sullivan Machinery Company. Forging machine. 1,614,040; Jan. 11.
- Nelson, Sven T., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor. 1,649,297; Nov. 15.
- Nelson, Sven T., Michigan City, Ind., assignor to Sullivan Machinery Company. Metal-working machine. 1,650,580; Nov. 22.
- Nelson, Sven T., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,650,581; Nov. 22.
- Nelson, Sven T., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,650,582; Nov. 22.
- Nelson, Sven T., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,650,583; Nov. 22.
- Nelson, Sven T., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,650,584; Nov. 22.
- Nelson, Theodore J., assignor to Colonial Lamp & Fixture Works, Inc., Chicago, Ill. Lighting fixture. Des. 73,235; Aug. 8.
- Nelson, Verner A., Lynden, Wash. Hydraulic clutch. 1,619,751; Mar. 1.
- Nelson, Verner A., Oakland, Calif. Internal-combustion engine. 1,640,552; Aug. 30.
- Nelson, Victor A., Portland, Oreg. Electric-arc-welding machine. 1,622,251; Mar. 22.
- Nelson, Victor B., Rockford, Ill. Starting device for internal-combustion engines. 1,622,239; Mar. 29.
- Nelson, Victor E., Redford, Mich. Packing ring. 1,624,671; Apr. 12.
- Nelson, Virginia P., New York, N. Y. Canopy holder. 1,625,773; Apr. 19.
- Nelson, William E. (See Busha, Leon, assignor.)
- Nelson, William E., and T. B. Hennessey; said Hennessey assignor to said Nelson, Minneapolis, Minn. Insulating and plaster-holding wall and ceiling covering. 1,616,753; Oct. 4.
- Nelson, William H. (See Tanner, Inos B., assignor.)
- Nelson, William K., assignor to Insulex Corporation, Chicago, Ill. Composition construction or heat insulating material. 1,641,641; Sept. 6.
- Nemcovsky, Louis A., New York, N. Y., assignor to Voices, Incorporated. Sound producing and controlling device. 1,638,687; Oct. 18.
- Nemec, Josef, Mstislov, Czechoslovakia. Thermostatic apparatus. 1,632,144; June 14.
- Nemethy, Frank J., Jr., Detroit, Mich. Automobile shipping device. 1,651,405; Dec. 6.
- Nemf Products Company, The. (See Nelson, Oscar T., assignor.)
- Nenninger, Lester F. (See Einstein, S., and Nenninger.)
- Nenninger, Lester F., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Machine-tool clutch. 1,625,738; Apr. 19.
- Nenno, Herbert J., Rochester, N. Y. Distributing block. 1,618,021; Feb. 15.
- Nentwig, Ernest B., Jefferson City, Mo. Rocking toy. 1,638,951; Aug. 16.
- Nenzel, George, Herischdorf, near Warmbrunn, Germany. Apparatus for feeding mechanical grinding machines for producing wood pulp. 1,652,044; Dec. 6.
- Nepel, Joseph R., Reno, Nev. Lamp. 1,619,213; Mar. 1.
- Neptune Manufacturing Company. (See Wright, Oliver S., assignor.)
- Neptune Meter Company. (See Marden, William L., assignor.)
- Nerby, Edgar A., Milwaukee, Wis. Animal trap. 1,620,777; Mar. 15.
- Nerel, Elmer B. (See Emard, Wilfred O., assignor.)
- Neresheimer, Heinrich. (See Lüttringhaus, A., Neresheimer, and Wolff.)
- Neresheimer, Heinrich, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of isodimethantrone. 1,644,889; Oct. 11.
- Neresheimer, Heinrich, Ludwigshafen-on-the-Rhine, and H. Emmer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of benzanthrone derivatives containing sulphur. 1,644,851; Oct. 11.
- Nes, Morris, assignor to A. M. Werner, Hayden, Ariz. Electrical water-heating unit. 1,648,558; Nov. 8.
- Nerney, Edwin D., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,635,799; July 12.
- Nerney, George E., Attleboro, Mass. Eyeglass frame. Des. 73,142; July 26.
- Nerney, George E., Attleboro, assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass frame. Des. 73,097; July 19.
- Nerney, George E., Attleboro, Mass., assignor to Bay State Optical Company. Eyeglass construction. 1,613,765; Jan. 11.
- Nerney, George H., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,614,848; Jan. 18.
- Nerney, George B., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,635,138; July 5.
- Nerney, George B., Attleboro, Mass. Eyeglass construction. 1,645,658; Oct. 18.
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,632,670; June 14.
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Switch handle. 1,637,913; Aug. 2.
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,645,393; Oct. 11.
- Nesbit, John F., Wilkinstown, Pa. Dust collector. 1,633,602; June 28.
- Nesbitt, John J., Inc. (See Henshall, Percival P., assignor.)
- Nesbitt, Milton H., Asheville, N. C. Electric drilling machine. 1,652,833; Dec. 13.
- Nesbitt, Orville W., Chicago, Ill. Antiskid device for motor vehicle wheels. 1,644,077; Oct. 11.
- Nesdahl, Elbert, Camden, N. J. System of ventilating and humidifying. 1,641,899; Sept. 6.
- Neslo Holding Company. (See Olsen, Robert E., assignor.)
- Nesmith, Mrs. Mary E., et al. (See Nesmith, Samuel D., assignor.)
- Nesmith, Samuel D., assignor of part interest to A. S. Bridges, J. B. Osborn, Mrs. K. Osborn, J. H. Bulmer, and Mrs. M. E. Nesmith, San Diego, Calif. R. Welles and R. R. Richardson, U. S. Navy, E. J. Callahan, Guadalajara, Mexico, and G. H. Schmidt, W. C. Stitt, F. F. Grant, H. M. Sammis, P. J. Hartley, and R. C. Easom. Electric water heater. 1,616,715; Aug. 23.
- Nesmith, Samuel D., assignor of part interest to A. S. Bridges, J. B. Osborn, Mrs. K. Osborn, J. H. Bulmer, and Mrs. M. E. Nesmith, San Diego, Calif. R. Welles and R. R. Richardson, U. S. Navy, E. J. Callahan, Guadalajara, Mexico, and G. H. Schmidt, W. C. Stitt, F. F. Grant, H. M. Sammis, P. J. Hartley, and R. C. Easom. Electric water heater. 1,616,716; Aug. 23.
- Nesmith, Samuel D., assignor of part interest to A. S. Bridges, J. B. Osborn, Mrs. K. Osborn, J. H. Bulmer, and Mrs. M. E. Nesmith, San Diego, Calif. R. Welles and R. R. Richardson, U. S. Navy, E. J. Callahan, Guadalajara, Mexico, and G. H. Schmidt, W. C. Stitt, F. F. Grant, H. M. Sammis, P. J. Hartley, and R. C. Easom. Electric water heater. 1,640,047; Aug. 23.
- Nesmith, Samuel D., San Diego, Calif., assignor of part interest to G. H. Schmidt, W. C. Stitt, F. F. Grant, H. M. Sammis, P. J. Hartley, and R. C. Easom. Electrically-operated water heater. 1,640,048; Aug. 23.
- Nesmith, Samuel D., San Diego, Calif., assignor of part interest to G. H. Schmidt, W. C. Stitt, F. F. Grant, H. M. Sammis, P. J. Hartley, and R. C. Easom. Electrically-operated water heater or boiler for heating purposes. 1,640,049; Aug. 23.
- Ness, Irving E., Wetaskiwin, Alberta, Canada. Battery terminal upright post. 1,614,383; Jan. 11.
- Ness, Fred, Lake Andes, S. Dak. Tourist's combination bed. 1,644,852; Oct. 11.
- Ness, Martin, Latouche, Alaska. Receptacle. 1,618,548; Feb. 22.
- Ness, William H., C. Los Angeles, Calif. Fan or blower. 1,637,652; Aug. 2.
- Nesset, E. Kar. P. Elizabeth, N. J. Musical instrument. 1,624,061; Apr. 12.
- Nessler, Charles G., New York, N. Y. Apparatus for waving hair. 1,614,756; Jan. 18.
- Nessler, Charles G., New York, N. Y. Hair-waving device. 1,614,757; Jan. 18.
- Nessler, Charles G., New York, N. Y. Hair-waving device. 1,614,758; Jan. 18.
- Nessler, Charles G., New York, N. Y. Hair-waving device. 1,643,239; Nov. 8.
- Nestler, Emil, New York, N. Y. Sand bag. 1,635,094; July 5.
- Nestler, Nathan. (See Goldstein, Isidore M., assignor.)
- Nestle's Food Company. (See Garrett, Richard M., assignor.)
- Nestor Manufacturing Company. (See Geissenhainer, F. W., and Cummer, assignors.)
- Nestor, William E. (See Dally, C. A., and Nestor.)
- Neth, George J., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,615,953; Feb. 1.
- Nethercut, Edgar S. (See Colman, Howard D., assignor.)

- Netschert, Franz, Glendale, assignor to Technical Glass Company, Inc., Los Angeles, Calif. Lock spindle. 1,634,845; July 5.
- Nettenstrom, David, Chicago, Ill. Hydraulic brake. 1,635,835; July 12.
- Netter, Jacob, assignor to Theonett & Co., Chicago, Ill. Bottle. Des. 72,434; Apr. 12.
- Nettes, Isaac, Cleveland, Ohio. Velocipede. 1,638,781; Aug. 9.
- Nettleton, Lewis L., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Adjusting electrical contacts. 1,634,381; July 5.
- Nettleton, Lewis L., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,636,067; July 19.
- Nettleton, Lewis L., Edgewood Borough, and L. O. Grandahl, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,638,056; Aug. 9.
- Neu, Joseph, Los Angeles, Calif. Signal faceplate. Des. 73,413; Sept. 6.
- Neu, Peter, Bayard, Nebr. Crust breaker. 1,639,307; Nov. 16.
- Neubert, Robert L., Superior, Wis. Door latch and holder. 1,653,406; Dec. 20.
- Neuendorf, Edward C., Wyandotte, Mich. Headlight shield. 1,625,621; Apr. 19.
- Neufang, Henry J., assignor of one-third to H. C. Hatch and one-third to B. W. Hatch, Atlanta, N. Y. Coupling device. 1,648,317; Nov. 8.
- Neufeld, Oscar, Union City, N. J. Brush. 1,652,834; Dec. 13.
- Neufeldt & Kuhnke Betriebsgesellschaft m. b. H. (See Thoma, Hans, assignor.)
- Neufeldt & Kuhnke Betriebsgesellschaft m. b. H. (See Wasserkampff, Frederick R., assignor.)
- Neugebauer, Wilhelm. (See Schmidt, M. P., and Neugebauer.)
- Neuengien, Alexander J., assignor to Wm. Glader Machine Works, Chicago, Ill. Metal-working machine. 1,647,653; Nov. 1.
- Neuls, Joseph D., Los Angeles, Calif. assignor, by mesne assignments, to California Cyanide Company, incorporated. Apparatus for fumigating. 1,614,016; Jan. 11.
- Neuls, Joseph D., Los Angeles, Calif. assignor to California Cyanide Company, Inc. New York, N. Y. Fumigating apparatus. 1,618,775; Feb. 22.
- Neuman, George W., assignor, by mesne assignments, to Wilson-Jones Company, Chicago, Ill. Loose-leaf binder. 1,614,080; Jan. 11.
- Neuman, Jacob J. (See Andrews, N. R., and Neuman.)
- Neumann, August, Reppen, Germany, assignor to J. Astrom, Fort Wayne, Ind. Filter. 1,647,808; Nov. 1.
- Neumann, August, Reppen, Germany, assignor to J. Astrom, Fort Wayne, Ind. Floating filter. 1,647,809; Nov. 1.
- Neumann, Bruno, Nuremberg, Germany. Appliance for bodily exercise. 1,638,008; Aug. 2.
- Neumann, Ewald, Brunswick, Germany. Cooking utensil with hinged and removable lid. 1,633,494; June 21.
- Neumann, Fritz, assignor to Armaturen- & Maschinenfabrik A.-G. vorm. J. A. Hilpert, Nuremberg, Germany. Fire pump. 1,636,382; July 19.
- Neumann, R., Hardware Co., The. (See Stuart, Frank T., assignor.)
- Neumann, Theodore L., Dayton, Ohio. assignor to The Dayton Paper Novelty Company. Paper box for golf clubs and the like. 1,623,547; Apr. 5.
- Neumerkel, Gertrude, Mount Vernon, N. Y. Toothbrush. 1,645,995; Oct. 18.
- Neumever, Albert E., Morris, Okla. Tubing cleaner. 1,639,680; Aug. 23.
- Neumeyer, Charles H. (See Larzelere, C. F., and Neumeyer.)
- Neuner, Frederick W. C., assignor, by mesne assignments, to Indiana Lamp Corporation, Connersville, Ind. Electric connecting socket. 1,630,272; May 31.
- Neuschotz, Robert A., New York, N. Y. Signaling mechanism. 1,640,258; Aug. 23.
- Neusser, Peter, Aachen, Germany. Heater. 1,640,287; Aug. 23.
- Neuteboom, Boudewijn B. (See Taylor, C. H., and Neuteboom.)
- Neuzil, Emil S., Chicago, Ill. Game or puzzle. 1,639,893; Aug. 23.
- Neuzil, Emil S., Chicago, Ill. Game or puzzle. 1,639,894; Aug. 23.
- Neva-Clog Products, Inc. (See Hubbard, Franklin G., assignor.)
- Neven, Hippolyte, assignor to Y. de Paniagua, Paris, France. Apparatus for the solidification of liquid hydrocarbons. 1,636,644; July 19.
- Neviere, Louis A., Chateau de Mere, near Artaimes, France. Automatic fire-producing device. 1,627,923; May 10.
- Nevill, Phillip W., Perth, Western Australia, Australia. Manufacture of sponge iron. 1,635,950; July 12.
- Neville, John H., Walville, Wash. Cross arm. 1,648,462; Nov. 8.
- Nevills, John J., Sacramento, Calif. assignor to Libby McNeill & Libby, Chicago, Ill. Feeder. 1,624,175; Apr. 12.
- Nevin, Chester L., Honolulu, Hawaii. Fire extinguisher. 1,647,880; Nov. 1.
- Nevin, George P., and J. Goodland, jr., Butte, Mont. Rock drill bit. 1,652,579; Dec. 13.
- Nevius, James R., assignor to The De Laski & Thorpe Circular Woven Tire Company, Trenton, N. J. Tire. Des. 72,274; Mar. 22.
- Nevius, John C., Trenton, N. J. Cable-clamping device for guard rails. 1,651,835; Dec. 6.
- Nevius, John F., New York, N. Y. Locking device for motor controls. 1,639,612; Aug. 16.
- Nevotti, William M., Omaha, Nebr. Electrical hair waver. 1,643,168; Sept. 20.
- New, Thomas E., assignor to The Teleforce Radio Laboratories Company, Cincinnati, Ohio. Radio apparatus. 1,650,032; Nov. 22.
- Newark Concrete Pipe Co. (See Sherrerd, Francis II., assignor.)
- Newark Gear Cutting Machine Co. (See Eberhardt, Frank E., assignor.)
- New Beeman Tractor Company. (See Donald, Forrest V., assignor.)
- New Beeman Tractor Company. (See Mader, Joseph, assignor.)
- Newbill, Willard D. (See Howeth, George O., assignor.)
- Newbold, Robert, Brooklyn, N. Y. Cap and liner assembly for a tire. 1,648,779; Nov. 8.
- New Britain Machine Company, The. (See Brown, Robert S., assignor.)
- New Britain Machine Company, The. (See Brown, R. S., and Victory, assignors.)
- Newburger, Morton B. (See Gray, G. A., and Newburger.)
- Newburn, John F., Electra, Tex. Sand-testing tool. 1,625,674; Apr. 19.
- New Business Corporation. (See Halverson, H. J., and Youngstrom, assignors.)
- Newby, Edward E., Indianapolis, Ind. Fluid-tank indicator. 1,648,959; Nov. 15.
- New Bottle Manufacturers Company. (See Morris, George D., assignor.)
- Newcomb, Alconzo D., Whitman, assignor to North Land Cedar Chest Company, Acushnet, Mass. Fastening device for sealed containers. 1,639,661; Aug. 23.
- Newcomb, August, Denver, Colo. Base for flagpoles. Des. 73,939; Nov. 22.
- Newcomb, Harry B., et al. (See Savage, Basil H., assignor.)
- Newcomb, William, New York, N. Y. Refrigerating apparatus. 1,650,230; Nov. 22.
- Newcomer, Edward M., Newburg, Iowa. Flytrap. 1,635,951; July 12.
- Newcomer, Ernest J., et al. (See Gillis, Lyle N., assignor.)
- New-Comer Trailer Mfg. Co. (See Culver, Lagar R., assignor.)
- New Departure Manufacturing Company, The. (See Delaval-Crow, Thomas C., assignor.)
- New Departure Manufacturing Co., The. (See Vuilleumier, Albert, assignor.)
- Newdick, Norton A., assignor to The Colader Company, Columbus, Ohio. Loading machine. 1,627,247; May 3.
- Newell, George T., Jr., Beverly, N. J., assignor to Westinghouse Electric & Manufacturing Company. Thermostat. 1,621,023; Mar. 15.
- Newell, Howard J., and F. V. Fermoli, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Gauge. 1,648,500; Nov. 8.
- Newell Mfg. Co. Inc., The. (See Acker, Aaron C., assignor.)
- Newell, Norman A. (See Fetzler, K. M., and Newell.)
- Newell-Thompson Company, The. (See Reid, James S., assignor.)
- Newell Thompson Mfg. Co., The. (See Reid, James S., assignor.)
- New England Enameling Company. (See Hoopes, Penrose R., assignor.)
- New England Gild, The. (See Levy, Harry, assignor.)
- New England Paper Box Company. (See Peirce, Clarence A., assignor.)
- New England Paper Box Company, The. (See Peirce, Clarence A., assignor.)
- New England Wood Heel Co. (See Shaw, Wesley J., assignor.)
- New Era Products Company. (See Mattison, Hans S., assignor.)
- New Favorite Manufacturing Company, The. (See Fraizer, Frank L., assignor.)
- Newhall, Henry B. (See Karitzky, John, assignor.)
- Newhall, Henry B. (See Pleister, Henry W., assignor.)
- Newhall, Henry B., Plainfield, and H. W. Pleister, Westfield, N. J.; said Pleister assignor to said Newhall. Cabinet amplifier. 1,623,065; Apr. 5.
- Newhall, Henry B., Corporation. (See Goewey, James E., assignor.)
- Newhall, Herbert B., Saugus, and H. R. Underwood, Beverly, Mass. Oil burner. 1,647,810; Nov. 1.
- Newhaus, Claus R., Benson, Nebr. Snowplow. 1,622,338; Mar. 29.
- New Haven Clock Co. (See Porter, Wilson E., assignor.)
- New Haven Clock Co., The. (See Porter, Wilson E., assignor.)
- New Haven Clock Co. (See Whitehead, Richard II., assignor.)
- New Haven Clock Co., The. (See Whitehead, R. H., and Porter, assignors.)

- New Holland Machine Company. (See Fackler, John M., assignor.)
- Newhouse, George A., assignor of one-half to E. E. Prillman, Yorktown, Ind. Cultivating implement. 1,643,898; Sept. 27.
- Newhouse, Ray C., Chicago, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting mill. 1,620,982; Mar. 15.
- Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fluid-pressure-actuated pump. 1,628,608; May 10.
- Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Treating combustible material. 1,628,609; May 10.
- Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Crusher. 1,641,776; Sept. 6.
- Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Roll grizzly. 1,641,777; Sept. 6.
- Newhouse, Walter F., assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich. Machine for making baskets. 1,643,287; Sept. 20.
- New Idea Spreader Co. (See Oppenheim, T. H., and Selhorst, assignors.)
- New Idea Spreader Company, The. (See Synck, Henry, assignor.)
- Newitt, Harry R. (See Herman, J., Allen, and Newitt.)
- New Jersey Chain Corporation. (See Lichtenfels, William, assignor.)
- New Jersey Chain Corporation. (See Prestinari, Eugen, assignor.)
- New Jersey Machine Corporation. (See Feysbuch, M., and Fleischer, assignors.)
- New Jersey Zinc Company, The. (See Freyer, F. G., and Farber, assignors.)
- Newkirk, William B., Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del. Manufacture of large-grained dextrose. 1,640,717; Aug. 30.
- Newland, John D., Los Angeles, Calif. Combination lamp and clock case. Des. 72,489; Apr. 19.
- Newlands, Alexander F., and E. Fosbery, Ottawa, Ontario, Canada. Adjustable finder. 1,646,868; Oct. 25.
- Newman, A. L., Company. (See Eddy, Albert H., assignor.)
- Newman, A. L., Company. (See Newman, Almyr L., assignor.)
- Newman, Almyr L., Warwick, assignor, by mesne assignments, to A. L. Newman Company, Cranston, R. I. Flexible and expensible bracelet and the like. 1,645,894; Oct. 11.
- Newman, Arthur, Los Angeles, Calif. Making fruit pudding and the like. 1,648,359; Nov. 8.
- Newman, Charles, Newtown, New South Wales, Australia. Resilient wheel for motor and other vehicles. 1,616,506; Feb. 8.
- Newman, Frances M., Whiteagle, Okla. Tie spacer. 1,617,539; Feb. 15.
- Newman, Herman F., Rosenberg, Tex. Pliers. 1,653,779; Dec. 27.
- Newman, Hugo, New York, N. Y. Foldable supporting stand for optical projecting machines. 1,637,705; Aug. 2.
- Newman, I., & Sons, Inc. (See Kispert, Joseph J., assignor.)
- Newman, Isidor, New York, N. Y. Key holder. 1,634,115; June 28.
- Newman, Jesse F., Los Angeles, Calif. Making a rice product. 1,631,145; June 7.
- Newman, Nathan E., Bronxville, N. Y. Multiple scoring machine. 1,628,680; May 17.
- Newman, Nathan E., Bronxville, N. Y. Plastic sheet or slab. 1,628,681; May 17.
- Newman, Samuel, Cincinnati, Ohio. Suspender. 1,646,975; Oct. 25.
- Newman, Ulysses B., Lamesa, Tex. Highway marker and sign. 1,649,249; Nov. 15.
- Newmark, Aaron S., Brooklyn, N. Y. Power-transmission device. 1,631,500; June 7.
- New Martinsville Glass Mfg. Co. (See McEldowney, Robert E., assignor.)
- New Metal Products Company. (See Harford, Albert K., assignor.)
- New Metallurgy Limited. (See Ashcroft, Edgar A., assignor.)
- New Method Stove Company, The. (See Harter, Sherman, assignor.)
- New Method Stove Company, The. (See Hoffman, George H., assignor.)
- Newmeyer, William L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,626,688; May 3.
- Newmeyer, William L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,638,872; Aug. 16.
- New Monarch Machine & Stamping Company. (See Anderson, Sigurd E., assignor.)
- Newnam, William E., Collinsville, Ill., assignor to National Lead Company, Jersey City, N. J. Pig-lead. 1,626,358; Apr. 20.
- Newport Company, The. (See Adams, R., Davidson, and Gubelmann, assignors.)
- Newport Company, The. (See Gubelmann, Ivan, assignor.)
- Newport Company, The. (See Gubelmann, I., Weiland, and Stallman, assignors.)
- Newport Company, The. (See Oesch, Joseph B., assignor.)
- Newport Company, The. (See Ulich, L. H., and Goodrich, assignors.)
- Newport News Shipbuilding and Drydock Company. (See Terry, Roger V., assignor.)
- Newport News Shipbuilding & Dry Dock Company. (See Healy, W. L., and Fitz Hugh, assignors.)
- New Process Burner Corporation. (See Lundquist, Frank A., assignor.)
- Newquist, Carl V. (See Noreen, G., and Newquist.)
- Newrock, Meyer, Philadelphia, Pa. Sesquicentennial badge. Des. 71,647; Jan. 11.
- Newsham, Frank J., Detroit, Mich., and J. M. Lonn, La Porte, Ind., assignors to International Amusement Corporation, Detroit, Mich. Racing amusement device. 1,636,481; July 19.
- Newsham, Arthur S., P. A. Viersen, Chicago, Ill., and G. Misch, assignors of one-third to H. O. Swoboda, Inc., Pittsburgh, Pa., and two-thirds to Westinghouse Electric & Manufacturing Company. Ironing machine. 1,632,094; June 14.
- Newsom, Reeves J., Lynn, Mass. Method of and apparatus for making cement lined pipe. 1,629,292; May 17.
- Newsom, Willard, Montgomery, Ala. Sawmill dog. 1,641,900; Sept. 6.
- Newsom, Frederick M., Salt Lake City, Utah. Internal-combustion engine. 1,637,958; Aug. 2.
- Newth, Basil and O., Sydney, New South Wales, Australia. Electric clock. 1,617,217; Feb. 8.
- Newth, Basil and O., Sydney, New South Wales, Australia. Electric battery for clocks. 1,617,218; Feb. 8.
- Newth, Basil and O., Sydney, New South Wales, Australia. Mechanism-controlling alarm in clocks. 1,630,207; May 24.
- Newth, Octavia. (See Newth, Basil and O.)
- Newton, Albert E. (See Tewksburg, D. S., and Newton.)
- Newton, Albert E., Providence, R. I. Lace. Des. 73,191; Aug. 2.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 71,922; Jan. 25.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 71,923; Jan. 25.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 72,435; Apr. 12.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 72,436; Apr. 12.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 72,437; Apr. 12.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 72,438; Apr. 12.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 72,478; May 3.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 72,679; May 17.
- Newton, Albert E., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 72,680; May 17.
- Newton, Albert E., Providence, assignor to The Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 73,537; Sept. 27.
- Newton, Albert E., Providence, assignor to The Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 73,757; Nov. 1.
- Newton, Albert E., Providence, assignor to The Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 73,757; Nov. 1.
- Newton, Albert S., Providence, R. I. Desk bumper device. 1,635,755; May 3.
- Newton, Charles T., Glendale, Calif. Dispenser. 1,620,280; Mar. 8.
- Newton, Daniel L., Fullerton, Calif. Apparatus for absorption and distilling of hydrocarbons. 1,628,055; May 10.
- Newton, Earle R., assignor to Curtis Gas Engine Corporation, New York, N. Y. Power plant. 1,634,797; July 5.
- Newton, Edward G., Pittsfield, Mass., assignor to General Electric Company. Reactance coil. 1,629,293; May 17.
- Newton, Edwin E., Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Grid-winding machine. 1,632,095; June 14.
- Newton, Edwin H., assignor to National Paper Box Company, Kansas City, Mo. Core for yarn balls. 1,614,759; Jan. 18.
- Newton, Frank H., assignor to Duplex Dilator Corporation, Los Angeles, Calif. Vaginal applicator. 1,636,482; July 19.
- Newton, Frank H., Los Angeles, Calif. Shoe-shining machine. 1,654,049; Dec. 27.
- Newton, George F., assignor to United States Fire Protection Company, Providence, R. I. Automatic sprinkler. 1,628,887; Apr. 5.

- Newton, Harry B., assignor to Rockford Machine Tool Company, Rockford, Ill. Tool-feed mechanism. 1,616,463; Feb. 22.
- Newton, Henry, Darley, near Derby, England. Trench mortar and the like. 1,633,710; June 28.
- Newton, Herbert B., Brookline, Mass. Lawn mower. 1,623,433; Apr. 5.
- Newton, James A. (See Newton, Noel D. and J. A.)
- Newton, James F., assignor to Primrose Tapestry Co., Inc., Philadelphia, Pa. Table cover or similar article. Des. 73,860; Nov. 15.
- Newton, John M., Sioux Falls, S. Dak. Tire-repair knife. 1,646,166; Oct. 18.
- Newton, Noel D. and J. A., assignors of one-fourth to J. P. Harrington, Winchester, and one-fourth to P. S. Seamans, McGeehe, Ark. Tractor attachment. 1,641,005; Aug. 30.
- Newton Process Manufacturing Co. (See Kobernik, Julius E., assignor.)
- Newton, Rex H., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating washer for brush-holder bracket arms. 1,632,096; June 14.
- Newton, Richard T., New York, N. Y. Stabilizer. 1,616,327; Feb. 1.
- Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Flush switch. 1,642,743; Sept. 20.
- Newton, William R., Hillsboro, Tex. Cultivator attachment for tractors. 1,618,464; Feb. 22.
- New Way Harvester Company. (See Christiansen, Christen, assignor.)
- New Wilson Electrical Manufacturing Co. Ltd. (See Adolph, Carl F., assignor.)
- New York Air Brake Company, The. (See Bickel, Henry F., assignor.)
- New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
- New York Air Brake Company, The. (See Campbell, C. A., and Vroman, assignors.)
- New York Air Brake Company, The. (See Minnier, B. J., and Campbell, assignors.)
- New York Air Brake Company, The. (See Vroman, Erwin C., assignor.)
- New York Air Brake Company, The. (See Wentworth, E. E., and Yyon, assignors.)
- New York Brick Handling Corporation. (See Fuller, Claude E., assignor.)
- New York Brick Handling Corporation. (See Wallace, William W., assignor.)
- New York Coil Company. (See Rhoades, Lewis T., assignor.)
- New York Last Company. (See Becker, William P., assignor.)
- New York Light Fixture Mfg. Co. (See Aglow, Harry, assignor.)
- New York Lighting Fixture Mfg. Co. (See Aglow, Harry, assignor.)
- New York Merchandise Co. (See Tauber, Fred G., assignor.)
- New York Mills Corporation. (See Hamilton, Charles S., assignor.)
- New York Mills Corporation. (See Lelper, John, assignor.)
- New York Wire & Spring Company. (See Wernig, Frederick A., assignor.)
- New, Andrew R., East Kew, assignor to Bryant and May Proprietary Limited, Richmond, Australia. Match-box-filling machine. 1,621,948; Mar. 22.
- Neylon, Austin J., Portland, Oreg. Waffle iron. 1,616,506; Feb. 8.
- Niaz, Henry, assignor to Public Service Cup Company, Brooklyn, N. Y. Dish holder. Des. 71,864; Jan. 18.
- Nibbs, Ernest, assignor to Electric Boat Company, New London, Conn. Cylinder construction for internal-combustion engines. 1,643,677; Sept. 27.
- Nice, Budd G., Ogontz, assignor to A. N. Goodfellow, Philadelphia, Pa. trustee. Making ball cone elements. 1,630,715; May 31.
- Nichol, Orr T., Omaha, Nebr., assignor to A. H. Becker, Council Bluffs, Iowa. Governor for tractor engines. 1,637,453; Aug. 2.
- Nichol, Thomas T. (See Corville, John E., assignor.)
- Nichols, Charles W., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncompiling lever. 1,626,956; May 3.
- Nicholas Copper Company. (See Hartley, H. J., Fowler, and Baird, assignors.)
- Nicholas, Edward S., Roscoe, Ill. Concrete-building block. 1,628,960; May 24.
- Nicholas, Edward S., Lanark, Ill. Mold for concrete building blocks. 1,652,180; Dec. 13.
- Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
- Nicholas, William, assignor to The Black Rock Manufacturing Company, Bridgeport, Conn. Rubber-tube trimming, wrapping, and rolling machine. 1,640,050; Aug. 23.
- Nicholls, Gilbert E., Edgewood, assignor to The Swingrite Co., Inc., Providence, R. I. Golf-club shaft. 1,626,476; Apr. 26.
- Nicholls, Gilbert E., Edgewood, assignor to The Swingrite Co., Inc., Providence, R. I. Golf-club shaft. 1,626,477; Apr. 26.
- Nicholls, William H., Brooklyn, N. Y. Molding machine. 1,614,966; Jan. 18.
- Nichols, William H., Brooklyn, N. Y. Molding machine. 1,636,383; July 19.
- Nichols, William H., Brooklyn, N. Y. Sand mulling and aerating machine. 1,636,384; July 19.
- Nichols, Aaron S., New York, N. Y. Humidifier. 1,634,553; July 5.
- Nichols, Andrew H., et al. (See Woodward, Jesse H., assignor.)
- Nichols, Arthur M., Tigard, Oreg. Pressure regulator. 1,637,085; July 26.
- Nichols, Charles S. (See Jordan, W. M., and Nichols.)
- Nichols, Eugene C., Sioux Falls, S. Dak. Game. 1,636,920; July 26.
- Nichols, George B., Akron, Ohio. Swimming device. 1,615,954; Feb. 1.
- Nichols, Gordon. (See Kesel, F., and Nichols.)
- Nichols, Guy, Mount Harris, Colo. Automobile chain tighten and fastener. 1,624,967; Apr. 19.
- Nichols, Henry, New York, N. Y. Vehicle wheel. 1,645,395; Oct. 11.
- Nichols, Henry, New York, N. Y. Vehicle wheel. 1,645,396; Oct. 11.
- Nichols, Herbert A., Robstown, Tex. Oil-drum hoist and the like. 1,641,385; Sept. 13.
- Nichols, Horace E., Baltimore, Md., assignor of one-half to C. H. Chase, Detroit, Mich. Portable electrocardiograph. 1,647,710; Nov. 1.
- Nichols, Horace E., Redford, assignor of one-half to C. H. Chase, Detroit, Mich. Portable electrocardiograph. 1,647,711; Nov. 1.
- Nichols, James B. (See Svedberg, T., and Nichols.)
- Nichols, John F., assignor to Crompton Company, Crompton, R. I. Pile fabric. Des. 72,439; Apr. 12.
- Nichols, John F., assignor to Crompton Company, Crompton, R. I. Pile fabric. Des. 72,440; Apr. 12.
- Nichols, Leonard O., assignor to R. E. Deenan, Kansas City, Mo. Combination pin and clasp. 1,640,205; Aug. 23.
- Nichols, Lewis P., Cleveland, Ohio. Game board. Des. 71,924; Jan. 25.
- Nichols, Paul, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Transformer casing. 1,620,983; Mar. 15.
- Nichols, Marion F. (See Hunter, William K., assignor.)
- Nichols, Paul F., assignor to Sun Maid Raisin Growers of California, Fresno, Calif. Apparatus and method for determining the moisture content of raisins and the like. 1,625,263; Apr. 5.
- Nichols, Samuel C., Waddington, N. Y. Sap evaporator. 1,614,016; Jan. 11.
- Nichols, Watt M., Ranger, Tex. Oil tank. 1,631,051; May 31.
- Nicholson, Clara S. (See Nicholson, Joshua B. and C. S.)
- Nicholson, Flora M., Washington, D. C. Receptacle for toilet articles or similar article. Des. 72,719; May 24.
- Nicholson, Frank H., Wilkensburg, Pa. assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,616,541; Feb. 8.
- Nicholson, Frank H., Edgewood, Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,621,679; Mar. 22.
- Nicholson, Frank H., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,632,037; June 14.
- Nicholson, Frank H., Lewistown, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,642,082; Sept. 13.
- Nicholson, Gustavo, Aquino, Paraguay. Firearm. 1,630,404; May 31.
- Nicholson, Howard M., Pittsburgh, Pa. Check valve. 1,629,961; May 24.
- Nicholson, Jacob P., Chicago, Ill. Vehicle washing pit. 1,633,280; June 21.
- Nicholson, John H., Dublin, Ireland, and W. S. Roberts, Ormskirk, assignors of one-third to The Railway Signaling Company, Limited, London, England. Railway point, signal, and the like. 1,635,068; Jan. 19.
- Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Fire-arch construction. 1,628,180; May 10.
- Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Expansion and contraction anchorage for check siphons. 1,643,128; Sept. 20.
- Nicholson, Joseph S., Steubenville, Ohio. Apparatus for scarfing plastic clay columns. 1,631,220; June 7.
- Nicholson, Joshua B. and C. S., Washington, D. C. Non-glare headlight. 1,640,288; Aug. 23.
- Nicholson, Robert. (See Rotstein, M., and Nicholson.)
- Nicholson, Stanley, Whitings, Ind., assignor to Standard Oil Company, Chicago, Ill. Candle. Des. 73,861; Nov. 15.
- Nicholson, Stanley W., assignor to The Duro Company, Toledo, Ohio. Window-controlling device. 1,619,633; Mar. 1.
- Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Mounting for window-control mechanism. 1,622,603; Mar. 29.
- Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Handle assembly. 1,636,011; July 19.
- Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Weather strip. 1,641,191; Sept. 6.

- Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Window-control mechanism. 1,644,485; Oct. 4.
- Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Window regulator. 1,647,654; Nov. 1.
- Nicholson, W. H. & Company. (See Curtis-Stanford, Eric L., assignor.)
- Nickel, Albert P., Hans Gerd, Charlottenburg, and J. J. Spanner, Berlin, Germany. Vacuum discharge tube. 1,644,601; Oct. 4.
- Nickell, Charles H., Los Angeles, Calif. Automatic pressure-controlled valve. 1,643,982; Sept. 20.
- Nickell, Thomas P., and W. H. Rodefeld, Richmond, Ind., said Nickell assignor to R. S. Blair, Stamford, Conn. Commutating mechanism for ignition systems and the like. 1,628,902; May 17.
- Nickels, Stanford B., Oakland, Calif. Fireplace heater. 1,653,466; Dec. 20.
- Nickerson, Gertrude L., assignor to The Warner Brothers Company, Bridgeport, Conn. Combination undergarment. 1,624,558; Apr. 12.
- Nickerson, William E., Boston, Mass. Finder. 1,650,376; Nov. 22.
- Nickerson, William E., assignor to Gillette Safety Razor Company, Boston, Mass. Knife with detachable blade. 1,626,778; Apr. 19.
- Nickerson, William H., Brookline, Mass. Foot bearing for shoes. 1,634,116; June 28.
- Nickle, Elizabeth A., administratrix. (See Nickle, Samuel L.)
- Nickle, Samuel L., deceased, Flint, Mich.; E. A. Nickle, administratrix. Heat-deflecting device for air registers, etc. 1,650,589; Nov. 22.
- Nicklin, Geoffrey, Walsall, England. Tray purse, tobacco pouch, or the like. 1,639,446; May 31.
- Nickolls, Edward O. (See Lees, John, assignor.)
- Nicks, Ira G., assignor to The Joy Toy Manufacturing Company, Denver, Colo. Toy aeroplane vehicle. 1,634,846; July 5.
- Nickum, Walter D., Los Angeles, Calif. Brake. 1,640,367; Aug. 30.
- Nicodemus, Otto. (See Ernst, O., and Nicodemus.)
- Nicolai, Albert R., assignor of one-half to E. J. Kreuchauf, Monroe, Mich. Door-holding device. 1,618,348; Feb. 22.
- Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Closed gas stove and valve therefor. 1,637,870; Aug. 2.
- Nicoll, Russell C., Wilmington, assignor of one-third to H. S. Benedict and one-third to J. W. Hadley, Los Angeles, Calif. Tank pump. 1,636,711; July 26.
- Nicolopoulos, Gustave P. (See Reeves, W. A., and Nicolopoulos.)
- Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Phonic diaphragm. 1,624,357; Apr. 12.
- Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Cement composition and preparation. 1,636,830; July 26.
- Nicolson, Alexander M., assignor to Wired Radio, Inc., New York, N. Y. Piezocouductor. 1,636,921; July 26.
- Nieberding, Frank A., deceased, Cleveland, Ohio, M. H. Nieberding, administratrix. Burner. 1,641,350; Sept. 6.
- Nieberding, Margaret H., administratrix. (See Nieberding, Frank A.)
- Nieblo Mfg. Co. Inc., The. (See Lowell, William, assignor.)
- Niebuhr, William C., St. James, Minn. Separable ring. 1,638,209; Aug. 9.
- Niece, Fred, Cleveland, Ohio. Coil for wireless apparatus. 1,647,744; Nov. 1.
- Nied, Fred A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. Des. 72,720; May 24.
- Niederbayerische Cellulosewerke. (See Schneider, Adolf, assignor.)
- Niederhe, Gustave, and W. E. Lawrence, Brooklyn, N. Y. Limit governor for internal-combustion engines. 1,640,615; Aug. 30.
- Niederer, John G., Hamilton, Ontario, Canada. Stencil for convex surfaces. 1,618,216; Feb. 22.
- Niederer, John G., Hamilton, Ontario, Canada. Stencil device for electric-light bulbs. 1,648,993; Nov. 15.
- Niedergassess, Wilhelm, Seattle, Wash. Reversible propeller. 1,633,824; June 28.
- Niederhauser, Charles, Woodhaven, N. Y. Liquid-dispersing device. 1,622,163; Mar. 22.
- Niederhauser, Frederick C., and A. E. Sunderland, Roanoke, Va., assignor to The Viscose Company, Marcus Hook, Pa. Manufacture of artificial silk and the like. 1,625,562; Apr. 19.
- Niedermann, Robert, Bonndorf, assignor to M. Bröninger, Wellendingen, Baden, Germany. Apparatus for dental surgery. 1,614,760; Jan. 18.
- Niegmann, George F. (See Erickson, Erick, assignor.)
- Niehaus, Frank, Butler, Ill. Line spreader. 1,643,748; Sept. 27.
- Nielsen, Emil J., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Socket. 1,653,869; Dec. 27.
- Nielsen, George P., Seattle, Wash. Internal-combustion engine. 1,620,124; Mar. 8.
- Nielsen, Hans P., Alameda, assignor to Eames Company, San Francisco, Calif. Wheel. 1,636,483; July 19.
- Nielsen, Heinrich V., Cardiff, Wales. Machine for filling bottles and other vessels. 1,652,994; Dec. 13.
- Nielsen, John. (See Gardner, E. B., Nielsen, and Gardner.)
- Nielsen, Niels C., Ebeltoft, Denmark. Drying apparatus. 1,614,258; Jan. 11.
- Nielsen, Ottó, assignor to Electrophone Record Corporation, New York, N. Y. Homogenizing procedure and apparatus therefor. 1,654,268; Dec. 27.
- Nielsen, Tekla, et al. (See Utenthal, Folmer S., assignor.)
- Niemann, Erich, Charlottenburg-Berlin, Germany, assignor to A.-G. für Handels- und Industriewerte Glarus, Glarus, Switzerland. Safety device for absorption refrigerating machines. 1,635,337; July 12.
- Niemann, Frank H., Philadelphia, Pa. Tremolo. 1,619,532; Mar. 1.
- Niemann, George T., assignor to Benjamin Electric Mfg. Co., Chicago, Ill. Winding transformers. 1,639,145; Aug. 16.
- Niemend, Walter, and T. Schult, St. Louis, Mo. Shoe. 1,647,807; Nov. 1.
- Niemeyer, Alfred H., Chicago, Ill. Casket. 1,637,271; July 26.
- Niemi, Andrew, Hancock, Mich. High shoe. 1,616,818; Feb. 8.
- Niemi, Isaac, Minneapolis, Minn. Scraper. 1,641,007; Aug. 30.
- Nienmeyer, Bernard A., assignor to Minnesota Wax Paper & Envelope Co., St. Paul, Minn. Tissue-paper package. 1,623,806; Apr. 5.
- Nier, Ernst B., Beierfeld, Germany. Lamp. 1,649,178; Nov. 15.
- Niers, Joseph, Milwaukee, Wis. Adjustable window ventilator. 1,646,040; Oct. 18.
- Nies, Frederick H., Brooklyn, N. Y. Artificial denture. 1,639,782; Aug. 23.
- Niesen, Joseph H., Grafton, Wis. Washing machine. 1,623,548; Apr. 5.
- Nieukirk, Chloe, Union Mills, Ind. Surgical device. 1,617,361; Feb. 15.
- Niewald, Walter C., Freedom, Mo. Locking device for mountable rims. 1,636,885; July 19.
- Niggeler, Walter. (See Jonas, J., and Niggeler.)
- Nightingale, Albert E., Whangarei, New Zealand. Motor-car hood repairing and building apparatus. 1,614,383; Jan. 11.
- Nightingall, Victor C. J., Heidelberg, near Melbourne, Victoria, Australia. Recording sound. 1,649,847; Nov. 22.
- Nigro, Gaetano, Thompsonville, Conn. Bumper for automobiles. 1,621,997; Mar. 22.
- Nigro, Julia, Kansas City, Mo. Embroidery-thread holder. 1,642,744; Sept. 20.
- Nihel, Homer L., Los Angeles, Calif. Signal. 1,630,405; May 31.
- Nisato, Shige, Los Angeles, Calif. Mordant paste. 1,647,539; Nov. 1.
- Nikaido, Yasujiro. (See Molony, S. B., and Nikaido.)
- Nikonov, John P., New York, N. Y. Electrically-operated ignition control. 1,630,629; Mar. 31.
- Niks, Nikolaus J., Chillicothe, Ohio. Paper-making mechanism. 1,641,986; Sept. 13.
- Niks, Nikolaus J., Chillicothe, Ohio. Paper machine and making paper. 1,641,987; Sept. 13.
- Niksic, Filipa, Port Richmond, N. Y. Trolley-reel casing. 1,613,258; Jan. 4.
- Niles-Bement-Pond Company. (See Cole, Lyndon C., assignor.)
- Niles-Bement-Pond Company. (See Deale, Robert C., assignor.)
- Niles-Bement-Pond Company. (See Fullerton, Herbert S., assignor.)
- Niles-Bement-Pond Company. (See Greenleaf, G. E., Blood, and Rausch, assignors.)
- Niles-Bement-Pond Company. (See Macdonald, John O., assignor.)
- Niles-Bement-Pond Company. (See Marcalus, Nicholas, assignor.)
- Niles-Bement-Pond Company. (See Miller, Ferdinand, assignor.)
- Niles-Bement-Pond Company. (See Parks, Albert W., assignor.)
- Niles-Bement-Pond Company. (See Randolph, Clifford F., assignor.)
- Niles-Bement-Pond Company. (See Randolph, C. F., and Marcalus, assignors.)
- Niles-Bement-Pond Company. (See Rausch, Roswell H., assignor.)
- Niles-Bement-Pond Company. (See Ricards, Charles L., assignor.)
- Niles, Frank and L., Santa Barbara, Calif. Building wall construction and making the same. 1,628,036; May 10.
- Niles, Harry F., Chicago, Ill. Package. 1,631,755; June 7.
- Niles, Jesse E., Pontiac, Mich. Attachment for internal-combustion engines. 1,621,376; Mar. 15.
- Niles, Lester. (See Niles, Frank and L.)
- Niles, Schuyler, Washougal, Wash. Gold separator. 1,646,309; Oct. 18.
- Niles, Walter L. C., Saugus, assignor to Excel Shoe Form Company, Lynn, Mass. Shoe display form. 1,628,734; May 17.

- Nill, Edward A. and F. C. Acker, Cleveland, assignors of one-third to P. E. Selby, Portsmouth, and two-thirds to J. H. Dall, Norwalk, Ohio. Lubricant. 1,617,077; Feb. 8.
- Nilson, A. H., Machine Co., The. (See Olson, Mauritz, assignor.)
- Nilson, Arthur R., Brooklyn, N. Y. Antenna device. 1,650,461; Nov. 22.
- Nilson, John L. and J. F. Prince, Chicago, Ill. Automatic windshield cleaner. 1,627,989; May 10.
- Nilson, Lars G., Hoboken, N. J., assignor of one-half to F. P. Fahy, New Rochelle, N. Y. Brake-winding mechanism. 1,654,089; Dec. 27.
- Nilson, Leonard D., Wayzata, Minn. Lifting jack. 1,627,526; May 8.
- Nilson, Leonard D., Wayzata, assignor to Marquette Manufacturing Company, St. Paul, Minn. Lifting jack. 1,619,304; Mar. 1.
- Nilson, Leonard D., Wayzata, assignor to Marquette Manufacturing Company, St. Paul, Minn. Crane. 1,641,351; Sept. 6.
- Nilson, Leonard D., Wayzata, assignor to Marquette Manufacturing Company, St. Paul, Minn. Crane. 1,643,348; Sept. 27.
- Nilson, Leonard D., Wayzata, assignor to Marquette Manufacturing Company, St. Paul, Minn. Lifting jack. 1,632,456; Dec. 13.
- Nilson, Olof G. (See Glasner, R. W., and Nilson.)
- Nilsson, August L., Sodertalje, Sweden. Carburetor. 1,637,272; July 26.
- Nilsson, Freeman, assignor to The Monarch Brush Co., Troy, N. Y. Knot picking machine. 1,641,686; Sept. 6.
- Nilsson, Holger A. E., Ockelbo, Sweden. Conveying and piling apparatus. 1,639,435; Aug. 16.
- Nilsson, Nils O., Worcester, Mass. Feed box. 1,638,270; Aug. 9.
- Nims, Fayette, Montour Falls, N. Y. Snow shovel. 1,634,204; June 28.
- Nims, Frank B. (See Nims, Voigt J. and F. B.)
- Nims, Voigt J. and F. B., Stockton, Calif. Pumpshaft-bearing structure. 1,649,320; Nov. 15.
- Nimtz, William A. (See Iding, M. P., and Nimtz.)
- Nineteen Hundred Washer Company. (See Behan, Thomas W., assignor.)
- Nirlder, Fred L., Loogootee, Ill. Fertilizer distributor. 1,648,658; Nov. 8.
- Nishi, Tsunegoro, Tokyo-Fu, Japan. Manufacturing wall boards composed of rice hulls and plaster. 1,634,079; June 28.
- Nishida, Sukefuro, Osaka-Fu, Japan. Governor for phonographs. 1,630,580; May 31.
- Nissen, Harry P., Oakland, Calif. Sleeve-holder fastener. 1,621,680; Mar. 22.
- Nissen, Harry P., Oakland, Calif. Fastener for sleeve holders. 1,643,627; Sept. 27.
- Nissen, J. N. (See Cheatham, Chester W., assignor.)
- Nissen, John P., Philadelphia, Pa. Sweater. 1,632,346; June 14.
- Nissen, Niels. (See Scoggin, Charles W., assignor.)
- Nissley, Jacob H., et al. (See Witmyer, Harry M., assignor.)
- Nist, John, Baltimore, Md. Candle cap. Des. 71,848; Jan. 11.
- Nistler, Sebastian, Buffalo, N. Y. Infant's conveyance. 1,631,546; June 7.
- Nitardy, Ferdinand W. (See Boyd, R., Nitardy, and Lewis.)
- Nitardy, Ferdinand W., Brooklyn, assignor to E. R. Squibb and Sons, New York, N. Y. Preservation of oils. 1,624,358; Apr. 12.
- Nitardy, Ferdinand W., Brooklyn, assignor to E. R. Squibb and Sons, New York, N. Y. Preservation of ether. 1,632,309; June 14.
- Nitardy, Ferdinand W., K. A. Bartlett, and F. F. Berg, Brooklyn, assignors to E. R. Squibb and Sons, New York, N. Y. Perfumice. 1,622,891; Mar. 29.
- Nitardy, Otto J., Minneapolis, Minn. Wind motor. 1,651,067; Nov. 29.
- Nitardy, Otto J., Minneapolis, Minn. Scarifier. 1,651,068; Nov. 29.
- Nitchie, Hubbard D., Cranford, N. J., assignor to The Watson-Stirling Co., New York, N. Y. Molding apparatus. 1,628,037; May 10.
- Nitchie, John A., Elm Creek, Neb. Power-transmission device for pumps. 1,623,490; Apr. 5.
- Nittel, Frederick W., Attleboro Falls, assignor to M S Company, Attleboro, Mass. Expandible bracelet. 1,630,286; May 24.
- Nittel, Frederick W., Attleboro Falls, assignor to M S Company, Attleboro, Mass. Hook. 1,637,315; July 26.
- Nitz, Emil W., Rochester, Minn. Vehicle signal. 1,635,898; July 12.
- Niven, Frank R. (See Mossman, O. P., and Niven.)
- Niven, Harry A., Boston, Mass. Dispensing apparatus. 1,642,623; Sept. 13.
- Nivison-Weiskopf Company. (See Edwards, Frank K., assignor.)
- Nix, George E., Phil Campbell, Ala. Cultivator fender. 1,622,665; Mar. 29.
- Nix, George E., Electra, Tex. Tonge and the like. 1,629,631; May 24.
- Nix, Linnie D., Dallas, Tex. Game. 1,616,328; Feb. 1.
- Nix, Neely, assignor of two-thirds to M. R. Humpton and one-third to B. A. Stove, Long Beach, Calif. Metering pump. 1,628,058; May 10.
- Nix, William H., and T. J. McDaniel, Greensboro, N. C., assignors to Draper Corporation, Hopedale, Mass. Combined weft fork and grid cleaner. 1,651,148; Nov. 29.
- Nixon, Clarence R. (See Dunnock, J. L., and Nixon.)
- Nixon, Clarence R., assignor to Swindell Brothers, Baltimore, Md. Device for bottle-polishing machines. 1,614,487; Jan. 18.
- Nixon, Clifton W., New York, N. Y. Coin-controlled vending and change-making machine. 1,634,679; July 5.
- Nixon, Clifton W., New York, N. Y. Vending machine. 1,634,680; July 5.
- Nixon, J. Hartley, Woodstown, N. J. Cultivator. 1,628,181; May 10.
- Nixon, Jedd, D., and G. R. Livergood, Houston, Tex. Pump. 1,620,222; Mar. 8.
- Nixon, John A. (See Slunicko, J., and Nixon.)
- Nixon, Leroy, Easton, Pa. Diaphragm pump. 1,650,377; Nov. 22.
- Nixon, Levi T., Jet, Okla. Windshield wiper. 1,649,848; Nov. 22.
- Nixon, Thomas M., Victoria, British Columbia, Canada. Spark arrester. 1,638,451; Aug. 9.
- Noack, Friederich. (See Winzenburg, W., and Noack.)
- Noack, Henry J., Spokane, Wash. Puller for battery terminals. 1,641,599; Sept. 6.
- Noack, William A., Oakland, Calif., assignor to Concalco Tire Company, Inc. Table-leaf hinge. 1,644,440; Oct. 4.
- Noah, Leroy H., Palco, Kans. Internal-combustion engine. 1,636,612; July 19.
- Nobbe, Morris O., Newark, N. J. Separable cuff button. 1,628,735; May 17.
- Nobel, Nicolaas, Paseroean, Java. Process of and apparatus for macerating sugar-containing materials. 1,617,962; Feb. 15.
- Nobile, Giuseppe. (See Silvestrin, Giovanni, assignor.)
- Nobl, Ronald B., Spokane, Wash. Bearing pulley. 1,640,904; Aug. 30.
- Noble, Arthur H., Pawtucket, assignor to Theodore W. Foster & Brother Company, Providence, R. I. Lip-stick holder. 1,632,764; June 14.
- Noble, Arthur H., Pawtucket, assignor to Theodore W. Foster & Brother Company, Providence, R. I. Lip-stick holder. 1,632,765; June 14.
- Noble, Arthur H., Pawtucket, R. I., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Vanity case. 1,635,631; July 12.
- Noble, Arthur H., Pawtucket, R. I., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Lip-stick holder. 1,649,357; Oct. 18.
- Noble, Arthur H., Pawtucket, R. I., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Lip-stick holder. 1,646,358; Oct. 18.
- Noble, Benjamin, assignor, by mesne assignments, to Michigan Smelting & Refining Company, Detroit, Mich. Safety valve. 1,644,265; Oct. 4.
- Noble, Clarence W. (See Coryell, W. C., and Noble.)
- Noble & Cooley Company. (See Hiers, Herbert A., assignor.)
- Noble, Ernest E., Yale City, Okla. Oil packing for in-losed axles or shafts. 1,626,957; May 8.
- Noble, Esther M., Boise, Idaho. Auxiliary toilet seat. 1,633,222; June 21.
- Noble, F. H., & Company. (See Shields, John M., assignor.)
- Noble, F. H., & Company. (See Wright, Elton A., assignor.)
- Noble, James M., Gustine, Calif. Automatic shut-off device for lawn sprinklers. 1,642,821; Sept. 20.
- Noble, Newell J., Nobleford, Alberta, Canada, assignor to The Dustless Thresher Promotion Company, Limited. Thrashing machine. 1,629,294; May 17.
- Noble, Oliver B., assignor to Tygart Valley Glass Company, Washington, Pa. Glass jar. Des. 71,885; Jan. 18.
- Noble, Victor A., Laurens, Iowa. Vehicle body construction. 1,644,892; Oct. 11.
- Noble, William, assignor, by mesne assignments, to Trophy-Lacite Brush Company, Northampton, Mass. Boxing machine. 1,627,449; May 3.
- Nobles, Edward, Pocatello, Idaho. Locomotive-cellar-box pulley. 1,629,632; May 24.
- Noek, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Plate or analogous article. Des. 72,107; Mar. 1.
- Noek, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Coffeepot or analogous article. Des. 72,328; Mar. 29.
- Noek, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Plate or analogous article. Des. 72,490; Apr. 19.
- Noek, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Plate or analogous article. Des. 73,330; Aug. 23.
- Noek, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Coffeepot or analogous article. Des. 74,153; Dec. 27.
- Noek, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Advertising device. 1,615,030; Jan. 18.

- Nock, John R., Brooklyn, N. Y. Spring heel. 1,625,048; Apr. 19.
- Nocken, Theodor. (See Neelmeyer, W., and Nocken.)
- Nocken, Theodor. (See Neelmeyer, W., Nocken, and Rebnier.)
- Noda, Ichiro, Brooklyn, N. Y. Amusement device. 1,636,645; July 19.
- Noddings, Henry S., Springfield, Mass. Safety-razor-blade holder. 1,627,664; May 10.
- Noe, Frank P., and S. M. Gooder, Chicago, Ill. Constructing concrete walls in deep trenches. 1,628,682; May 17.
- Noe, Frank P., and S. M. Gooder, Chicago, Ill. Jack. 1,646,591; Oct. 25.
- Noe, Harold C., East Orange, N. J., assignor to Wm. R. Noe & Sons, New York, N. Y. Lamp shade. Des. 73,709; Oct. 25.
- Noc, Roy H., Memphis, Tenn. Exercising apparatus. 1,633,124; June 21.
- Noe, Wm. R. & Sons. (See Noe, Harold C., assignor.)
- Noel, Allen, Columbus, Ohio. Cigar-making machine. 1,636,922; July 26.
- Noel, Ernest A., Paris, France. Wooden mosaic work. 1,632,497; June 14.
- Noel, Frank C., Roanoke, Va., assignor, by mesne assignments, to The Texas Company, Houston, Tex. Spraying apparatus. 1,644,486; Oct. 4.
- Noelting, Clarence B. (See Noelting, W. H., Smithfield, and Noelting.)
- Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Furniture-leg slide. 1,638,359; Aug. 9.
- Noelting, William H., Evansville, Ind., and A. I. Brokaw, Cincinnati, Ohio, assignors to Faultless Caster Company, Evansville, Ind. Furniture trim and keeper. 1,622,735; Mar. 29.
- Noelting, William H., E. A. Smithfield, and C. B. Noelting, assignors to Faultless Caster Company, Evansville, Ind. Top bearing caster. 1,622,734; Mar. 29.
- Noesske, George, Berlin-Steglitz, Germany. Swimming device. 1,636,816; July 19.
- Noga, Wladyslaw, Detroit, Mich. Silk and yarn thread tensioning and waxing devices. 1,624,844; Apr. 12.
- Noguera, Pedro. (See Cruz, J., and Noguera.)
- Nohlen, Carl L., Cleburne, Kans. Jetty and unit therefor. 1,635,899; July 12.
- Nohse, William R., New York, N. Y. Lubricating apparatus. 1,626,478; Apr. 26.
- Noishiki, Yoshitoshi, Tottori, Japan. Electrical instrument for medical treatment. 1,625,675; Apr. 19.
- Noke, Charles J., Stoke-on-Trent, England, assignor to William Pittman Corporation, New York, N. Y. Plate or similar article. Des. 73,577; Oct. 4.
- Nokes, Charles M. (See Hahn, A. W., and Nokes.)
- Nolan, Estle N., Louisville, assignor of one-fourth to J. W. Nolan, Harlan, Ky. Fan attachment for automobiles. 1,652,873; Dec. 13.
- Nolan, J. W. (See Nolan, Estle N., assignor.)
- Nolan, John W., deceased, Pawtucket; E. S. Thornley, executrix, assignor to William H. Thornley, Providence, R. I. Automatic fuse cut-out. 1,614,533; Jan. 18.
- Nolan, Kenneth W. (See Metters, G. J., and Nolan.)
- Nolan, Patrick J., Alliance, Nebr. Automatic control for windmills. 1,627,900; May 10.
- Nolde and Horst Company, The. (See Floyd, Earl T., assignor.)
- Nolde and Horst Company, The. (See Gosch, William H., assignor.)
- Nolen, James G., New York, N. Y. Vibration modifier for diaphragms. 1,646,628; Oct. 25.
- Nolet, Maurice D., Manchester, N. H., assignor, by mesne assignments, to Kitson Machine Shop. Counting mechanism. 1,647,143; Nov. 1.
- Nolte, Henry J., Schenectady, N. Y., assignor to General Electric Company. Vacuum condenser. 1,641,687; Sept. 6.
- Nolzen, Arthur, assignor to the Firm: Bergische Elektrizitäts-Gesellschaft Gebr. Nolzen, Ronsdorf, Germany. Fresh-air heater for internal-combustion engines. 1,637,006; July 26.
- Noma Electric Corporation. (See Dam, Henry M., assignor.)
- Nonas, Hiram T., Washington, D. C. Parachute fabric. 1,650,998; Nov. 29.
- Non-Explosive Corporation of America (New Corporation). (See Cohn, Jacob, assignor.)
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Machine for cutting pipe threads. 1,616,542; Feb. 8.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. 1,644,143; Oct. 4.
- Nonnenbruch, Otto. (See Bourne, P. E., and Nonnenbruch.)
- Non-Spl Company, The. (See Winters, Edgar W., assignor.)
- Noonan, Harry, White Plains, N. Y. Box or similar container. Des. 73,940; Nov. 22.
- Noonan, William J., Mansfield, Mass. Electrical heating and cooling apparatus. 1,622,803; Mar. 29.
- Nor, Allen, et al. (See Vaughan, John, assignor.)
- Norbeck, Emma T., Minneapolis, Minn. Window attachment for windshields. 1,630,208; May 24.
- Norberg, Clifford M., Maspeth, N. Y. Draft control. 1,627,194; May 8.
- Norberg, Hugo W., Flint, Mich. Figure toy. 1,633,456; June 21.
- Noreco Mfg. Co. (See Roginger, John, assignor.)
- Norcross, Daniel E., Dallas, Tex. Steering-wheel knob. 1,620,228; Mar. 8.
- Nordan, Monte E., West Frankfort, Ill. File. 1,631,882; June 7.
- Nordberg, Bruno V., deceased, Milwaukee, Wis.; H. C. Nordberg, executrix. Variable-capacity air compressor. 1,632,498; June 14.
- Nordberg, Bruno V., deceased; H. C. Nordberg, executrix. Milwaukee, Wis. Valve gear for steam engines. 1,643,853; Sept. 27.
- Nordberg, Bruno V., deceased; H. C. Nordberg, executrix. Milwaukee, Wis. Combined inlet and unloading valve gear. 1,643,899; Sept. 27.
- Nordberg, Helena C., executrix. (See Nordberg, Bruno V.)
- Norden, Carl S., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,613,407; Jan. 4.
- Norden, Folke F., Brooklyn, and W. G. Loan, St. George, N. Y. Lugging. 1,639,783; Aug. 23.
- Norden, Mortimer, New York, N. Y. Illuminated sign. 1,626,958; May 3.
- Nordenfiet, Per, and E. Grenstedt, assignors to Aktiebolaget Formator, Stockholm, Sweden. Machine for making cigar rolls. 1,622,966; Mar. 29.
- Nordén, Hjalmar. (See Lindsay, G. W., and Nordén.)
- Nordensson, Tom K. A., Glasgow, Scotland. Pressure meter. 1,637,653; Aug. 2.
- Nordenswan, Gustaf W. (See Thörnblad, A. R., and Nordenswan.)
- Nordenswan, Robert, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone receiver. 1,631,978; June 14.
- Nordenswan, Robert, and A. S. Curtis, assignors to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,644,789; Oct. 11.
- Nordfors, Conrad. (See Wood, H. A. W., and Nordfors.)
- Nordgran, James C., Los Angeles, Calif. Casing for a direction signal and stoplight. Des. 72,329; Mar. 29.
- Nordhaus, William H., assignor, by mesne assignments, to K. W. Battery Company, Chicago, Ill. Machine for coating electric storage-battery plates. 1,637,426; Aug. 2.
- Nordin, John, Monticello, Minn. Mail-box signal. 1,627,617; May 10.
- Nordin, Joseph A. (See Brunsong, V. H. M., and Nordin.)
- Nordling, Fridolf M., Denver, Colo. Baseboard radiator for use of buildings. 1,633,032; June 21.
- Nordlund, E. (See Ekberg, Karl A., assignor.)
- Nordlund, Ludvig B., San Francisco, Calif. Change returning device. 1,631,326; June 7.
- Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Can-capping machine. 1,614,041; Jan. 11.
- Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Semiautomatic vacuum-closing machine. 1,646,704; Oct. 25.
- Nordskog, Severin B., Marshalltown, Iowa. Refrigerator. 1,622,920; Mar. 29.
- Nordstorg, John, Crosby, N. Dak. Harrow. 1,628,799; May 17.
- Nordstrom, Elof, East Orange, N. J., assignor, by mesne assignments, to Aluminum Seal Corporation, New York, N. Y. Article-feeding mechanism. 1,628,066; Apr. 6.
- Nordstrom, Sven J., Saratoga, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,634,721; July 5.
- Nordstrom, Sven J., assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,634,722; July 5.
- Nordstrum, George W., Chicago, Ill. Antifriction bearing. 1,638,271; Aug. 9.
- Nordwick, Henry A., Stockton, assignor to Duplex Motor Company, San Francisco, Calif. Internal-combustion engine. Re16,630; May 24.
- Nordwick, Henry A., Stockton, assignor to Duplex Motor Company, San Francisco, Calif. Duplex-cam motor. 1,630,273; May 31.
- Nordwick, Henry A., and P. J. Marchetti, Stockton, assignor to Duplex Motor Company, San Francisco, Calif. Internal-combustion engine. 1,624,277; Apr. 12.
- Noreen, Gustav, and C. V. Newquist, Chicago, Ill. Oil burner. 1,646,456; Oct. 25.
- Norgren, Carl A., Denver, Colo. Air chuck. 1,613,527; Jan. 4.
- Norin, Carl E., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,643,583; Sept. 27.
- Norling, Karl A. P. (See Svensson, K. J., and Norling.)
- Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Reversing mechanism for electric drills. 1,632,671; June 14.
- Norling Company, The. (See Lippert, Aloysius C., assignor.)
- Norlipp Company, The. (See Schnoor, Raymond D., assignor.)
- Norma-Hoffmann Bearings Corporation. (See Bott, George R., assignor.)
- Norma-Hoffmann Bearings Corporation. (See Meder, Arthur, assignor.)
- Norman, Andrew J., deceased, California, Pa.; K. I. Norman, executrix. Bank ledger. 1,621,808; Mar. 22.

- Norman, George, Small Heath, Birmingham, assignor to The Birmingham Small Arms Company Limited, Birmingham, England. Small arm. 1,637,233; July 26.
- Norman, George, Small Heath, Birmingham, assignor to The Birmingham Small Arms Company Limited, Birmingham, England. Automatic firearm. 1,637,234; July 26.
- Norman, George, Small Heath, Birmingham, assignor to The Birmingham Small Arms Company Limited, Birmingham, England. Automatic firearm. 1,637,235; July 26.
- Norman, George, Small Heath, Birmingham, assignor to The Birmingham Small Arms Company Limited, Birmingham, England. Small arm. 1,637,236; July 26.
- Norman, George M., assignor to Hercules Powder Company, Wilmington, Del. Transportable dynamite magazine. 1,625,491; Apr. 19.
- Norman, Joseph T., Nanticoke, Pa. Coal breaker. 1,618,721; Feb. 22.
- Norman, Joseph T., Frederick, Md. Wagon. 1,627,109; May 3.
- Norman, Joseph T., Frederick, Md. Coal feeder and separator and grader. 1,651,620; Dec. 6.
- Norman, Joseph T., Frederick, Md. Separator roller and bearing therefor. 1,651,622; Dec. 6.
- Norman, Katie I., executrix. (See Norman, Andrew J.)
- Norre, Charles. (See Roline, Carl G., and Norre.)
- Norris, Almon E., Brookline, Mass. Mechanical movement. 1,632,038; June 14.
- Norris, Almon E., Brookline, Mass. Grab. 1,644,743; Oct. 11.
- Norris, Almon E., Brookline, Mass. Rail-clamping mechanism. 1,644,942; Oct. 11.
- Norris, Andrew J., deceased, Republic, Mo.; C. A. Norris, administratrix. Ventilator for closed vehicles. 1,650,570; Nov. 22.
- Norris, Charles B., Grand Rapids, Mich., assignor to Hasckelte Manufacturing Corporation. Machine for cutting metal-sheathed sheets. 1,619,305; Mar. 1.
- Norris, Charles B., Grand Rapids, Mich., assignor to Hasckelte Manufacturing Corporation. Machine for cutting grooves in flat panels. 1,623,020; Mar. 29.
- Norris, Charles M., Denver, Colo. Indicator. 1,627,110; May 3.
- Norris, Cora A., administratrix. (See Norris, Andrew J.)
- Norris, Grace. (See Langdon, Jesse D., assignor.)
- Norris, Harry. (See Fulenwider, J. and H., Robinson, and Norris.)
- Norris, Harry S. (See Fulenwider, J. and H., Robinson, and Norris.)
- Norris, Harvey O., assignor, by mesne assignments, to G. W. Simons, Dayton, Ohio. Paint sprayer. 1,651,466; Dec. 6.
- Norris, Henry, Jr., Westport, Md. Check valve. 1,630,819; Feb. 8.
- Norris, Lewis B., assignor of one-half to O. E. Rose, Sapulpa, Okla. Gate. 1,649,849; Nov. 22.
- Norris, Marvin L., Fort Wayne, Ind., assignor to General Electric Company. Dynamo-electric machine. 1,646,211; Oct. 18.
- Norris, Paul E., Wilkesburg, assignor to The Westinghouse Union Battery Company Swissvale, Pa. Storage-battery separator. 1,644,853; Oct. 11.
- Norris, Ralph P. (See Weiss, H. F., and Norris.)
- Norris, Robert W., Birmingham, Ala. Combined signal-lamp casing. 1,640,008; Aug. 23.
- Norris, William F., Kansas City, Mo. Combination teetotum and merry-go-round. 1,640,848; Aug. 30.
- Norrist, John W., Woodlawn, Ohio. Child's vehicle. 1,613,356; Jan. 4.
- Norrmann, Albin A. (See Shafer, A. E. M., and Norrmann.)
- Norsk Hydro-Elektrisk Kvaelfaktorieselskab. (See Halvorsen, B. F., Falck, and Ravner, assignors.)
- Norsk Hydro-Elektrisk Kvaelfaktorieselskab. (See Sandvold, O., and Flawn, assignors.)
- Norstrom, Nils E., Chicago, Ill. Slow magnet. 1,635,005; July 6.
- Norstrom, Reidar M. (See Geare, R. E. S., and Norstrom.)
- Norsworthy, Arthur C., Jr., Newport News, Va. Process and apparatus for bleaching peanuts. 1,640,849; Aug. 30.
- Northam, Martin K. (See Forsyth, Joseph E., assignor.)
- North American Lace Company. (See Siner, Raymond K., assignor.)
- Northboro Brush Company. (See Le Boent, Arthur W., assignor.)
- North Bro's Mfg. Co. (See Fegley, Thomas J., assignor.)
- North Bro's Mfg. Co. (See Fegley, T. J., and Leopold, assignors.)
- North, Charles E., Montclair, N. J. Making mixtures of cocoa or chocolate and milk and product thereof. 1,617,721; Feb. 15.
- North, Charles E. H., and A. H. Hudson, Bremerton, Wash. Motor fuel. 1,637,007; July 26.
- North, Clayton O., Tallmadge Township, Summit County, Ohio. Higher aldehyde derivatives of reaction products of aldehydes and amines and making same. 1,619,953; Mar. 8.
- North, Clayton O., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Rubber-vulcanization process. 1,634,336; July 5.
- North, Clayton O., Tallmadge Township, Summit County, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Manufacture of aldehyde reaction products of the aldehyde derivative of a Schiff's base. 1,639,957; Aug. 23.
- North, Clayton O., Tallmadge Township, Summit County, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Rubber-vulcanization accelerator. 1,651,931; Dec. 6.
- Northcott, Ephraim, and J. W. Warford, Clearinghouse, Calif. Electrotherapeutic apparatus. 1,653,819; Dec. 27.
- North East Appliances, Inc. (See Crumrine, Chester W., assignor.)
- North East Appliances Inc. (See Dorsey, Farnum F., assignor.)
- North East Appliances, Inc. (See Thompson, R. G., and Crumrine, assignors.)
- North East Appliances, Inc. (See Williams, Anthony F., assignor.)
- North East Electric Company. (See Dorsey, Farnum F., assignor.)
- North East Electric Company. (See Lee, Thomas L., assignor.)
- North East Electric Company. (See Williams, Anthony F., assignor.)
- Northern Corrugating Co. (See Krueger, Herman W., assignor.)
- Northern Corrugating Company. (See Thorp, Fred W., assignor.)
- Northern Paper Mills. (See Roberts, Chester J., assignor.)
- Northey, John P., Toronto, Ontario, Canada. Sound-signaling installation. 1,619,585; Mar. 1.
- North & Judd Manufacturing Company. (See Carpmill, J., and Hackack, assignors.)
- North and Cedar Chest Company. (See Newcomb, Alconzo D., assignor.)
- Northmore, Robert S., Chicago, Ill., assignor to The Loudon Machinery Company, Fairfield, Iowa. Hanger for overhead trackways. 1,643,749; Sept. 27.
- North, Ray A., Green Bay, Wis. Water filter. 1,630,274; May 3.
- Northrop, Edward G. (See Pitney, A. H., Ogden, Northrop, and Wheeler.)
- Northrop, George E., assignor to Red Star Appliances, Inc., Stamford, Conn. Mailing machine. 1,624,899; Apr. 12.
- Northrop, George E., assignor to Red Star Appliances, Inc., Stamford, Conn. Mailing machine. 1,639,052; Aug. 16.
- Northrop, George E., assignor to Red Star Appliances, Inc., Stamford, Conn. Mailing machine. 1,639,053; Aug. 16.
- Northrop, James H., Santa Ana, Calif. Attention arrester. 1,628,903; May 17.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Loom. 1,618,104; Feb. 15.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Filling-feeler mechanism for looms. 1,635,858; July 12.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Clutch mechanism for looms. 1,638,703; July 26.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Dobby for looms. 1,645,203; Oct. 11.
- Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom. 1,654,269; Dec. 27.
- Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Thread extractor for looms. 1,654,345; Dec. 27.
- Northrop, Mabel E., Pasadena, Calif. Bedpan. 1,627,571; May 10.
- Northrup, Annabelle S., Norfolk, Va. Flea and insect trap. 1,645,715; Oct. 18.
- Northrup, Edwin F., near Princeton, assignor to Ajax Electrothermic Corporation, Trenton, N. J. Air-cooled inductor coil. 1,640,799; Aug. 30.
- Northrup, Elmer C., San Francisco, Calif., assignor, by mesne assignments, to Sprague-Sells Corporation, Hoopeston, Ill. Nailing machine. 1,626,868; May 3.
- Northrup, Joshua K., Ellicottville, N. Y. Shoe last. 1,645,716; Oct. 18.
- Northrup, Vernon W., Hurlock, Md., assignor to The Petroleum Hydrogenation Company of America, Incorporated, Wilmington, Del. Process and apparatus for the conversion of heavy petroleum oils into lighter oils. 1,642,624; Sept. 13.
- Northup, Harry R., and C. L. Snyder, Des Moines, Iowa. Hummer cigar holder. 1,619,306; Mar. 1.
- North Wayne Tool Co. (See Allen, Percy, assignor.)
- Northwest Blower Kiln Company. (See Mueller, Moritz L., assignor.)
- Northwest Paper Company. (See Stevens, Jerry W., assignor.)
- Northwestern Collapsible Carrier Co. (See Woolsey, Charles A., assignor.)
- Northwestern Collapsible Carrier Co. (See Woolsey, C. A., and Bowman, assignors.)
- Northwestern Corporation. (See Weaver, H. H., and Bolen, assignors.)
- Northwestern Expanded Metal Company. (See Dean, James H., assignor.)

- Northwestern Yeast Company. (See Hill, C. B., and Glens, assignors.)
- Northwestern Yeast Company. (See Hill, C. B., and Tintner, assignors.)
- Northwood, Charles O., Corning, N. Y., assignor to United States Glass Company, Pittsburgh, Pa. Goblet or similar article. Dec. 7, 1931; May 10, 1932.
- Norton, Alfred A., trustee. (See Lindgren, Waldemar L., assignor.)
- Norton, Allen B., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Hollow metal article and producing the same. 1,633,187; June 21, 1926.
- Norton, Arthur E., Belmont, Mass. Gear. 1,647,191; Nov. 1.
- Norton, Arthur P., Craigmont, Idaho. Wrench. 1,614,534; Jan. 18.
- Norton, Charles H., Worcester, Mass., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,639,958; Aug. 23.
- Norton, Charles H., assignor to Norton Company, Worcester, Mass. Automatic controlling mechanism for machine-tool cross feeds. 1,653,922; Dec. 27.
- Norton, Charles L. (See Ziegler, Crawford, assignor.)
- Norton, Clifford, Orange, N. J., assignor to Elevator Supplies Company, Inc. Door lock and electric switch. 1,649,484; Nov. 15.
- Norton Company. (See Belden, Albert G., assignor.)
- Norton Company. (See Boozo, MacDonald C., assignor.)
- Norton Company. (See Jeppson, G. N., and Beecher, assignors.)
- Norton Company. (See Jeppson, G. N., and Lenfe, assignors.)
- Norton Company. (See King, Clarence R., assignor.)
- Norton Company. (See Martin, Richard H., assignor.)
- Norton Company. (See Milligan, L. H., and Quick, assignors.)
- Norton Company. (See Norton, Charles H., assignor.)
- Norton, Edwin L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave-transmission system. 1,642,506; Sept. 13.
- Norton, Edwin C., Arcata, Calif. Blubber-slicing implement. 1,642,625; Sept. 13.
- Norton, Edwin K., Great Neck, N. Y., and F. W. Skinner, Huntington Park, N. J. Liquid gauge. 1,614,849; Jan. 18.
- Norton, Harold W., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Racquet for tennis and similar games. 1,637,583; Aug. 2.
- Norton, James G., Edingville, N. Y. Process and apparatus for making cups. 1,623,197; Apr. 5.
- Norton, John F., Mattapan, Mass. Piston. 1,637,273; July 26.
- Norton, John F., Mattapan, Mass. Resilient equalizing support for piston rings. 1,647,304; Nov. 1.
- Norton, Samuel H., Meadville, Pa. Reamer. 1,618,217; Feb. 22.
- Norton, William T., Jr., Chicago, Ill. Vehicle brake. 1,620,485; Mar. 8.
- Norviel, Harry E. (See Kroeger, F. C., and Norviel.)
- Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition apparatus. 1,622,164; Mar. 22.
- Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition apparatus. 1,624,113; Apr. 12.
- Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Control fixture. 1,624,114; Apr. 12.
- Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,641,352; Sept. 6.
- Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Control device. 1,641,396; Sept. 6.
- Norwalk Company, The. (See Limont, Alexander W., Jr., assignor.)
- Norwalk Lock Company, The. (See Norton, A. K., and Honoran, assignors.)
- Norwalk Tire and Rubber Company, The. (See Hoover, William C., assignor.)
- Norwood, Edward P., Birmingham, Ala. Stringed instrument. 1,642,126; Sept. 13.
- Norwood, Harry E. (See Kirscheldt, P. J., and Norwood.)
- Norwood, Harry G., assignor to Rubber-Cushioned Balloon Rubber Heel Company, Inc., Baltimore, Md. Rubber-cushioned heel. 1,635,701; Aug. 9.
- Norwood, Harry Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Time-controlled regulating apparatus. 1,630,305; May 31.
- Norwood, Harry Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Pressure-responsive diaphragm. 1,630,306; May 31.
- Norwood, Harry Y., Avon, and K. L. Tate, Rochester, assignors to Taylor Instrument Companies, Rochester, N. Y. Apparatus for measuring and indicating the flow of gases. 1,630,307; May 31.
- Norwood, Harry Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Time-controlled regulating apparatus. 1,646,976; Oct. 25.
- Norwood, Harry Y., Avon, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 1,646,977; Oct. 25.
- Norwood, Joseph C., and E. B. Hallauer, San Francisco, Calif. Mold for type forming machines. 1,615,031; Jan. 18.
- Nosan, Anton, Cleveland, Ohio. Aircraft variable-pitch propeller and blade mounting. 1,623,549; Apr. 5.
- Nosan, Anton, Cleveland, Ohio. Bomb dropper for aeroplane fuselages. 1,632,414; June 14.
- Nosan, Anton, Cleveland, Ohio. Wall construction for aeroplane fuselages. 1,637,871; Aug. 2.
- Nosan, Anton, Cleveland, Ohio. Steering mechanism for aeroplanes. 1,637,872; Aug. 2.
- Nosan, Anton, Cleveland, Ohio. Air-purifier apparatus. 1,637,873; Aug. 2.
- Nosan, Anton, Cleveland, Ohio. Altitude gauge for use on aircraft, etc. 1,640,051; Aug. 23.
- Nosan, Anton, Cleveland, Ohio. Adjustable wing structure for aeroplanes. 1,645,153; Oct. 11.
- Nosan, Anton, Cleveland, Ohio. Driving means for aeroplane propellers. 1,645,154; Oct. 11.
- Nostrand, Elijah H., Jamaica, assignor to Cox, Nostrand & Gunnison, Inc., Brooklyn, N. Y. Shade holder. 1,653,370; Dec. 20.
- Nothstine, Paul A., Dayton, Ohio. Picture-projecting machine. 1,645,204; Oct. 11.
- Nothstine, Paul A., Cincinnati, Ohio. Picture-projecting apparatus. 1,651,467; Dec. 6.
- Notlage, Stanley G., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. 1,643,785; Sept. 27.
- Notlage, Stanley G., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilation of dynamo-electric machines. 1,654,305; Dec. 27.
- Nottke, Herman, Battle Creek, Mich. Grade crossing. 1,614,761; Jan. 18.
- Nourse, Clair P., Milwaukee, assignor to The Midland Company, South Milwaukee, Wis. Manufacturing luckles. 1,619,933; Mar. 1.
- Nourse, Walter H. (See Ofner, F. P., and Nourse.)
- Novadel Process Corporation. (See Gelissen, Henri C. J. H., assignor.)
- Novadel Process Corporation. (See Van der Lande, Johannes A. L., assignor.)
- Novak, Frank J., and F. J. Cisek, Scappoose, Ore. Card-board securing means. 1,628,904; May 17.
- Novak, John. (See Novak, Julius J., assignor.)
- Novak, Julius J., assignor to J. Novak, New York, N. Y. Combined propelling and steering apparatus. 1,643,314; Sept. 27.
- Novello, Sacatano. (See Galassi, Ernest P., assignor.)
- Noreby Food Corporation. (See Hall, Charles G., assignor.)
- Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Sheet-folding mechanism for envelopes and the like. 1,616,982; Feb. 8.
- Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Company, Inc., New York, N. Y. Liquid-level gauge. 1,624,359; Apr. 12.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Envelope machine. 1,631,146; June 7.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Envelope-fastener-attaching machine. 1,651,834; Dec. 6.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Gummining and creasing mechanism. 1,651,982; Dec. 6.
- Novick, Abraham, Flushing, and E. Fish, assignors to F. L. Smithe Machine Co. Inc., New York, N. Y. Chip-removing mechanism. 1,614,488; Jan. 18.
- Novin, Joseph, assignor to The Centre Lighting Fixture Mfg. Co., New York, N. Y. Lighting-fixture pre or analogous article. Dec. 74,070; Dec. 13.
- Novins, Emile B., Philadelphia, and F. W. Cary, Dresher, assignors to J. S. Stokes, Spring Valley Farms, Huntingdon Valley, Pa. Adjustable cylindrical tubing and making the same. 1,616,063; Feb. 1.
- Novotny, Emil B., and C. J. Romieux, Philadelphia, assignors to J. S. Stokes, Spring Valley Farms, Huntingdon Valley, Pa. Waterproofing vulcanized fiber. 1,616,062; Feb. 1.
- Nowka, Alfred, and W. Livingston, Hastings, Nebr. Combination tool. 1,647,576; Nov. 1.
- Nowolski, Edward B., Bloomfield, assignor to Splittorf Electrical Company, Newark, N. J. Radiator cap. Dec. 72,184; Mar. 8.
- Nowolski, Edward B., Bloomfield, assignor to Splittorf Electrical Company, Newark, N. J. Spark plug. 1,623,129; Apr. 5.
- Nowolski, Edward B., Bloomfield, assignor to Splittorf Electrical Company, Newark, N. J. Rheostat. 1,623,193; Apr. 5.
- Nowolski, Edward B., Bloomfield, assignor to Splittorf Electrical Company, Newark, N. J. Flexible adjustable coupling. 1,626,351; Apr. 26.
- Noyes, Albert H., assignor to Hills-McCanna Co., Chicago, Ill. Hot-water tanks, or liquid-holding tanks, vats, and stills. 1,634,958; July 5.
- Noyes, Benjamin L., Stonington, Me. Antiglare device. 1,628,551; May 10.
- Noyes, Daniel H., Athol, Mass. Clothes drier attachment hot-water tanks. 1,630,965; May 31.
- Noyes, Daniel H., Athol, Mass. Direction signal. 1,647,051; Oct. 25.

- Noyes, Harold O. (See Adams, T. C., Noyes, and Lawrence.)
- Noyes, Sewell H., Newburyport, Mass. Trolley wheel. 1,613,189; Jan. 4.
- Nuckols, Virgil B., Elktion, Ky. Folding wire basket. 1,617,494; Feb. 15.
- Nudevice Company. (See Johnson, Halligan, assignor.)
- Nuesell, Gerard, Brooklyn, N. Y. Internal-combustion engine. 1,648,780; Nov. 8.
- Nueske, Julius, Jr., New York. Assignor to L. Mundet & Son, Inc., Brooklyn, N. Y. Machine for making cork insoles. 1,642,690; Sept. 20.
- Nuesse, Louis, Wauwatosa, assignor to The Rockwell Manufacturing Co., Milwaukee, Wis. Ironing board. 1,614,489; Jan. 18.
- Nugent, Bennie C., Taft, Calif. Sucker-rod twister. 1,623,696; Apr. 5.
- Nugent, John A., Irvington, N. J. Rheostat. 1,629,523; May 24.
- Nuhrah, George A., E. Thoman, and G. F. Rosewall, Lake Charles, La. Bottle-cooling device. 1,614,017; Jan. 11.
- Nu-idea Company, The. (See Mowry, Preston W., assignor.)
- Nullmeyer, Frank H., Struthers, Ohio. Method and apparatus for drawing wire. 1,629,524; May 24.
- Nulsen, Marvin E., Canton, assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction sweeper. 1,654,186; Dec. 27.
- Nuneman, George W. (See Helge, Gustav, assignor.)
- Nunlist, Emil V., Indianapolis, Ind. Fishpole holder. 1,619,152; Mar. 1.
- Nunn, Frederick W., assignor to Nunnday Proprietary Limited, Melbourne, Victoria, Australia. Casting of dentures in metal. 1,632,712; June 14.
- Nunn & Tunison. (See Tunison, Murray C., assignor.)
- Nunnday Proprietary Limited. (See Nunn, Frederick W., assignor.)
- Nunne-macher, Henry J. (See Nelson, K. O., and Nunne-macher.)
- Nuoto, Joseph, et al. (See Brown, W., and Morano, assignors.)
- Nupege (Australia) Limited. (See Richardson, Goshen S., assignor.)
- Nussel, Joseph H., assignor of one half to T. W. Pierce, Danville, Ill. Wheelbarrow. 1,616,329; Feb. 1.
- Nutt, Arthur, Buffalo, assignor to Curtiss Aeroplane and Motor Company, Inc., Garden City, Long Island, N. Y. Propeller mounting. 1,632,913; June 21.
- Nutt, Norman W., Trenton, N. J. Fuse-plug-cap assembly. 1,637,274; July 26.
- Nutt, Norman W., Trenton, N. J. Fuse plug. 1,650,462; Nov. 22.
- Nutt, William H., Newburyport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe heel. Des. 73,007; July 5.
- Nuttall, B. D., Company. (See Schafer, Carl H., assignor.)
- Nutter, James H., Erlanger, Ky. Burner. 1,620,676; Mar. 15.
- Nuyts, Paul E. E., Paris, France. Instrument for massaging the gums. 1,615,910; Feb. 1.
- Nva Nordiska Kullager Aktiebolaget. (See Weibull, Ernst H. W., assignor.)
- Nyakker, Dirk, New York, N. Y. Fuel economizer. 1,618,465; Feb. 22.
- Nyberg, Herman D., Norrkoping, Sweden. Galvanic cell. 1,624,845; Apr. 12.
- Nyberg, Soren C. (See Mainland, J., and Nyberg.)
- Nyblom, Axel T., Varberg, Sweden. Dirigible headlight for automobiles. 1,627,060; May 3.
- Nyborg, Niels N. T. (See Meredith, S. C., and Nyborg.)
- Nyde, Peter Q. (See Mills, Ronald V. A., assignor.)
- Nyqvist, Antenor, Trollhättan, Sweden. Hydraulic power-transmission mechanism. 1,627,294; May 3.
- Nye Company. (See Weiss, Frederick M., assignor.)
- Nye, Louis R., assignor of forty-nine per cent to W. O. Galloway, Portland, Ore. Table signaling device. 1,626,959; May 3.
- Nye Tool & Machine Works. (See Lee, Ottar S., assignor.)
- Nygaard, Oscar, Saugus, assignor to Bernitz Furnace Appliance Company, Boston, Mass. Fire bricks. 1,621,267; Mar. 15.
- Nygaard, Oscar O., Saugus, Mass., assignor to Combustion Engineering Corporation, New York, N. Y. Stoker air control. 1,625,276; Apr. 19.
- Nyholm, Peter, Edgewood, Wash. Extension table. 1,633,899; June 28.
- Nyholm, Peter, Edgewood, Wash. Revolving-leaf extension table. 1,633,900; June 28.
- Nyhus, Sverre, Lille-Hammer, Norway, assignor to U. S. Slicing Machine Company, La Porte, Ind. Machine for slicing meat. 1,636,530; July 19.
- Nykolshak, George, Jersey City, N. J. Automatic fire escape. 1,625,221; Apr. 19.
- Nylund, Victor, Minneapolis, Minn. Rim contractor and expander. 1,620,734; Mar. 15.
- Nyman, Alexander, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combined wireless sending and receiving system. 1,615,645; Jan. 25.
- Nyman, Alexander, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless telephone system. 1,628,905; May 17.
- Nyman, Alexander, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone device. 1,635,949; June 28.
- Nyman, Alexander, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone construction. 1,635,558; July 12.
- Nyman, Alexander, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inductor-type frequency changer. 1,642,041; Sept. 13.
- Nyman, Alexander, assignor to Duubler Condenser Corporation, New York, N. Y. Beryllium filament. 1,622,604; Mar. 29.
- Nyman, Alexander, East Orange, N. J., assignor to Duubler Condenser Corporation, New York, N. Y. Telephone receiver. 1,643,169; Sept. 20.
- Nyman, Alexander, Swissvale, and F. Conrad, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Polyphase plate-circuit excitation system. 1,645,291; Oct. 11.
- Nyman, John O., Canton, Ohio. Metal door. 1,642,553; Sept. 13.
- Nyquist, Harry, Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Apparatus and method for regulating attenuation and phase on transmission lines. 1,615,911; Feb. 1.
- Nyquist, Harry, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Carrier-current signaling system. 1,619,085; Mar. 1.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Multiplex signaling system. 1,620,735; Mar. 15.
- Nyquist, Harry, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Combined resonant shunt device for telegraph circuits. 1,621,557; Mar. 22.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Picture-transmitting system. 1,627,111; May 3.
- Nyquist, Harry, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Regulating transmission circuits. 1,638,952; Aug. 16.
- Nyquist, Harry, Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for controlling the frequency of an alternating current. 1,647,192; Nov. 1.
- Nyquist, Harry, Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Method and apparatus for compensating distortion on long loaded lines. 1,648,145; Nov. 8.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Method and apparatus for measuring transmission delay. 1,645,618; Oct. 15.
- Nyrop, Aage, Horsholm, Denmark. Apparatus for atomizing liquids. 1,636,317; July 19.
- Nystrom, Karl F., Chicago, Ill. Draft-gear key-retaining means. 1,646,817; Oct. 18.
- Nystrom, Martin, assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Tone arm. Des. 73,979; Nov. 29.
- Nystrom, Martin, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Station-selector dial for radio receiving sets. 1,634,625; July 5.
- Nystrom, Oscar P. (See Selby, C. M., and Nystrom.)
- Nystrom, Oscar P., and J. Knoll, assignors to Holland Furnace Company, Holland, Mich. Joint-forming machine. 1,642,891; Sept. 20.
- Nyetuen, Henry, Hancock, Minn. Can washer and sterilizer. 1,648,501; Nov. 8.
- O & J Machine Company. (See Oslund, C. H., and Johnson, assignors.)
- O. K. Tool Company, The. (See Severson, Ole, assignor.)
- O. & W. Company. (See Overman, Max C., assignor.)
- Oakes, Ernest C., Bloomfield, N. J., assignor, by mesne assignments, to Empire Milking Machine Company, Inc., Rochester, N. Y. Vacuum pump. 1,619,364; Mar. 1.
- Oakes, Ernest C., Bloomfield, N. J., assignor, by mesne assignments, to Empire Milking Machine Company, Inc., Rochester, N. Y. Vacuum pump valve. 1,619,481; Mar. 1.
- Oakes, Frank J., Indianapolis, Ind. Internal-combustion engine. 1,634,681; July 5.
- Oakes, George W., Crystal City, Mo., assignor to Pittsburgh Plate Glass Company. Apparatus for applying abrasive to plate-glass-grinding mechanism. 1,618,063; Feb. 15.
- Oakes Manufacturing Company, The. (See Lord, Fred W., assignor.)
- Oakes, Sherman H. (See Morrow, C. G., and Oakes.)
- Oakite Products, Inc. (See Clarin, David N., assignor.)
- Oakite Products, Inc. (See Gray, Hiram L., assignor.)
- Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Socket cap and making the same. 1,625,007; Apr. 5.
- Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Making flash-light casings. 1,623,807; Apr. 5.
- Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Making tire-valve casings. 1,625,492; Apr. 19.

- Oakley, John, assignor, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass. Broaching machine. 1,650,033; Nov. 22.
- Oakley, Laurence M., Trenton, N. J. Shoe sole. Des. 73,143; July 26.
- Oakley, Theophilus D., Chicago, Ill., assignor, by mesne assignments, to Defiance Sales Corporation, New York, N. Y. Pad rest. 1,622,290; Mar. 29.
- Oakley, William J., Brooklyn, N. Y. Sectional tire core. 1,640,723; Nov. 15.
- Oakman, Erwin H., Atlanta, Ga. Attachment for autos. 1,626,746; May 3.
- O'Bannon, Walter A., Tulsa, Okla. Multiple sucker-rod socket. 1,620,382; Mar. 8.
- O'Bannon, Walter A., Tulsa, Okla. Sucker-rod socket. 1,620,383; Mar. 8.
- O'Bannon, Walter A., Tulsa, Okla. Multiple sucker-rod socket. 1,620,486; Mar. 8.
- O'Barr, Thomas A., Webb City, Mo., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Waterproofing composition and producing the same. 1,648,861; Nov. 8.
- O'Bele, George, assignor to Clay Equipment Corporation, Cedar Falls, Iowa. Stanchion. 1,627,527; May 3.
- O'Behnshain, Kyle D. (See Gould, H. G. and O'Behnshain.)
- Ober, Katharine H., Baltimore, Md. Ball holder or similar. Des. 72,027; Feb. 15.
- Ober, Philip H., assignor to The Mansfield Tire & Rubber Co., Mansfield, Ohio. Automobile tire. Des. 72,382; Apr. 5.
- Oberdorfer, Henry D., Champaign, Ill. Portable bleacher. 1,623,068; Apr. 5.
- Oberholzer, Nelson, British Columbia, Canada. Combination lock. 1,622,605; Mar. 29.
- Oberg, Walter H., et al. (See Greenstreet, Oliver P., assignor.)
- Obergfell, Herbert F. (See Erickson, J., and Obergfell.)
- Obergfell, Herbert F. (See Ray, A. J., Madsen, and Obergfell.)
- Obergfell, Gustav, and E. Patzwahl, Bronx, N. Y. Convertible automobile body. 1,632,672; June 14.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic charging and voltage regulating system. 1,612,875; Jan. 25.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Impulse-sending device. 1,615,311; Jan. 25.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic switch mounting. 1,624,502; Apr. 12.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Calling device. 1,642,822; Sept. 20.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Receiver headband. 1,651,623; Dec. 6.
- Obergfell, Herbert F. (See Erickson, J., and Obergfell.)
- Oberle, Alfred, Oak Park, Ill. Carbonaceous material and making the same. 1,632,845; June 21.
- Oberle, Alfred, assignor of one-half to T. E. Scofield, Kansas City, Mo. Recovering vanadium from petroleum hydrocarbons. 1,638,087; Aug. 9.
- Obermayer, S., Company. (See Bainter, Milford, assignor.)
- Obermeyer, George J., Jr., West Bend, Wis. Mail-box post. 1,646,064; Oct. 18.
- Obermoser, Albert, Bruchsal, Germany. Band saw. 1,636,484; July 19.
- Oberreich, Louie H., Indianapolis, Ind. Abnormal-temperature alarm. 1,617,540; Feb. 15.
- Oberreich, Louie H., Indianapolis, Ind. Cushion rebound check. 1,636,386; July 19.
- Oberschmidt, Frederick H., Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for power-operated machines. 1,634,382; July 5.
- Oberst, Frank, New York, N. Y., assignor to Sonora Phonograph Company, Inc. Combination radio and phonograph apparatus. 1,637,735; Dec. 27.
- Oberst, Frank, New York, N. Y., assignor to Sonora Phonograph Company, Inc. Combination radio and phonograph apparatus. 1,653,726; Dec. 27.
- Oberst, Frank, New York, N. Y., assignor to Sonora Phonograph Company, Inc. Radioreproducer. 1,638,727; Dec. 27.
- Oberst, Frank, New York, N. Y., assignor to Sonora Phonograph Company, Inc. Cable. 1,653,728; Dec. 27.
- Oberstebink, August, Brooklyn, N. Y., assignor to Mohawk Textile Mills, Inc., Newark, N. J. Shoulder strap. 1,637,201; July 26.
- Obert, Casin W., Mount Vernon, N. Y. Steam boiler. 1,642,692; Sept. 20.
- Oelz, Guy U., and R. F. Walter, assignors to United States Asbestos Company, Manheim, Pa. Asbestos rope or wick package. 1,640,363; Aug. 30.
- Oelz, Felipe, Buenos Aires, Argentina. Safety lid. 1,636,531; July 19.
- Obolis, Frank, assignor of one-half to T. A. Sykes, Winnemucca, Nev. Hanger and support. 1,635,900; July 12.
- Oblinger, Leroy I., Eagle Point Colony, Ohio. Pipe-holding tool. 1,648,602; Nov. 8.
- O'Boyle, Thomas, and R. G. Hamaker, Houston, Tex., said O'Boyle assignor to said Hamaker. Polish rod clamp. 1,629,584; May 24.
- O'Branovich, Matt A., Tabasco, Colo. Lock. 1,619,881; Mar. 8.
- Obrecht, A. G. (See Reents, Heike H., assignor.)
- O'Brien, Anna, New York, N. Y. Hair curler. 1,612,983; Jan. 4.
- O'Brien, Anna, New York, N. Y. Apparatus for waving hair. 1,640,831; Oct. 25.
- O'Brien, Arthur D., and D. B. Geeseman, Cannonsburg, Pa., assignors to Continental Can Co., Inc., New York, N. Y. Grinding rolls. 1,613,942; Feb. 22.
- O'Brien, Daniel, Punta, San Juan, Cuba. Truss. 1,641,339; Sept. 6.
- O'Brien, Francis E., and L. Freeman, Northampton, Mass., said Freeman assignor to J. Freeman, Brooklyn, N. Y. Binding post. 1,643,513; Sept. 27.
- O'Brien, Frank, assignor of one-half to H. G. Best, Canton, Ohio. Arm rest. 1,644,441; Oct. 4.
- O'Brien, Frank J., assignor to Southern Can Company, Baltimore, Md. Outturned-edge-can closure. 1,623,808; Apr. 5.
- O'Brien, Frederick J., assignor of one-half to Titusville Forge Company, Titusville, Pa., and one-half to Emco Derrick & Equipment Company, Los Angeles, Calif. Flexible pipe slip for drilling apparatus. 1,637,200; July 26.
- O'Brien, Gerald C., St. Louis, Mo. Electrical fuse. 1,645,348; Oct. 17.
- O'Brien, Harry S. F. R., London, England. Atomizer. 1,652,372; Dec. 13.
- O'Brien, Herbert J., and A. R. Page, San Francisco, Calif., said Page assignor to said O'Brien. Basket. 1,616,983; Feb. 8.
- O'Brien, James B. (See McGee, W. A., and O'Brien.)
- O'Brien, James F., Seattle, Wash. Advertising game. 1,648,360; Nov. 8.
- O'Brien, John, and E. H. Knudson, St. Paul, Minn. Milk can. 1,639,101; Aug. 16.
- O'Brien, John D., St. Louis, Mo. Sheet lathing. 1,614,081; Jan. 11.
- O'Brien, John J., Palm Beach, Fla. Adjustable mirror. 1,634,383; July 5.
- O'Brien, John K., North Melbourne, and W. Revell, assignors to E. G. Barker and G. A. Rawson, trading in partnership as Barker & Rawson, Melbourne, Australia. Sound-reproducing machine. 1,645,922; Oct. 18.
- O'Brien, Joseph F. (See Wernig, John S., assignor.)
- O'Brien, Morgan C. M., Auckland, New Zealand. Protection of jewelers' windows and the like. 1,635,140; July 5.
- O'Brien, Patrick J. (See O'Brien, Richard J. and P. J.)
- O'Brien, Richard J. and P. J. Bay Bulls, Newfoundland. Buttonhole shield. 1,643,170; Sept. 20.
- O'Brien, Thomas, Philadelphia, Pa. Combined bumper and brush attachment for vehicles. 1,638,641; Aug. 9.
- O'Brien, Vincent J., Smuggler, assignor of one-half to E. H. Sackett, Arvada, Colo. Joint for piston and connecting rod mountings. 1,639,102; Aug. 16.
- O'Brien, Walter J., et al. (See Bock, Charles S., assignor.)
- O'Brien, William, Washington, Pa. Grooved wheel. 1,638,702; Aug. 9.
- O'Brien, William E., Swanton, Vt. Water heater. 1,613,854; Sept. 27.
- O'Brien, William G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Treating rubber. 1,628,326; May 10.
- O'Brien, William G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for making a fiber composition. 1,645,068; Oct. 11.
- O'Brien, William J., Baltimore, Md. Refining barytes. 1,633,347; June 21.
- Obrist, Robert, Weehawken, N. J. Gaming device. 1,626,148; Apr. 26.
- O'Byrne, Joseph F., Golden, Colo. Air cleaner. 1,628,906; May 17.
- O'Cedar Corp'n. (See Brown, Peter, assignor.)
- Ochs, George F. A., Newark, N. J. Anchor block for railway ties. 1,628,509; May 10.
- Ochs, George F. A., Newark, N. J. Anchor block. 1,634,268; July 5.
- Ochs, George F. A., Newark, N. J. Tire filler. 1,634,626; July 5.
- Ochsner, Emil, Sutton, Nebr. Poultry feeder. 1,652,727; Dec. 13.
- Ochwat, Paul. (See Schirmacher, K., Zahn, Wilke, and Ochwat.)
- O'Clair, Edward J., assignor to Nashua Gummed & Coated Paper Company, Nashua, N. H. Protecting and dispensing package. 1,651,289; Nov. 29.
- O'Connell, Charles J., Deer Wood, assignor of one-half to W. S. Harris, Minneapolis, Minn. Honey food product. 1,646,657; Oct. 25.
- O'Connell, John J., assignor to Hopedale Manufacturing Company, Milford, Mass. Temple roll. 1,624,503; Apr. 12.
- O'Connell, Joseph, and H. H. Kerr, Kensington, Victoria, Australia. Can cleaning and drying apparatus. 1,625,403; Apr. 19.
- O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Drop brake mechanism. 1,618,218; Feb. 22.
- O'Connor, Arthur F., assignor to Union Railway Equipment Co., Chicago, Ill. Uncoupling device. 1,626,143; Apr. 19.

- O'Connor, Arthur F., assignor to Union Railway Equipment Co., Chicago, Ill. Separable coupler-release rigging. 1,625,144; Apr. 19.
- O'Connor, Daniel, Jessup, Pa. Hose coupling. 1,615,595; Jan. 25.
- O'Connor, George B., New York, N. Y. Hair-waving comb. 1,624,757; Apr. 12.
- O'Connor, John B., Brooklyn, N. Y. Rail obstacle. 1,628,552; May 10.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Locker latch. 1,625,145; Apr. 19.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Cook hook. 1,633,495; June 21.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,612,876; Jan. 4.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,613,591; Jan. 4.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Door operator. 1,616,755; Feb. 8.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,616,756; Feb. 8.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,616,757; Feb. 8.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,616,758; Feb. 8.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,616,759; Feb. 8.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,616,919; Feb. 8.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,617,541; Feb. 15.
- O'Connor, John F., Chicago, Ill., assignor by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,620,677; Mar. 15.
- O'Connor, John F., Chicago, Ill., assignor by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,620,678; Mar. 15.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Car construction. 1,620,679; Mar. 15.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Anti-friction bearing. 1,620,680; Mar. 15.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,620,681; Mar. 15.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,621,517; Mar. 22.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Shock-absorbing mechanism. 1,631,147; June 7.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,631,148; June 7.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,631,149; June 7.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,632,914; June 21.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,632,915; June 21.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,632,916; June 21.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,632,917; June 21.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,633,033; June 21.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,633,034; June 21.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,633,269; June 21.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,637,086; July 26.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,637,087; July 26.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,640,206; Aug. 23.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,640,207; Aug. 23.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,640,208; Aug. 23.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Shock-absorbing mechanism. 1,640,209; Aug. 23.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,640,210; Aug. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,640,211; Aug. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,640,212; Aug. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Refractor-car-door-operating mechanism. 1,640,213; Aug. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,640,214; Aug. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,640,421; Aug. 30.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,640,422; Aug. 30.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Resilient shackle for mining cars. 1,645,540; Oct. 18.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,648,318; Nov. 8.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,648,320; Nov. 8.
- O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Inc., Chicago, Ill. Side bearing. 1,648,321; Nov. 8.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,648,503; Nov. 8.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,648,912; Nov. 15.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Car construction. 1,650,378; Nov. 22.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,650,379; Nov. 22.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,650,380; Nov. 22.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,650,381; Nov. 22.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,653,224; Dec. 20.
- O'Connor, Thomas E., Minneapolis, Minn. Burglar alarm. 1,624,176; Apr. 12.
- O'Dell, Charles, assignor of one-half to F. T. Reger, Brooklyn, N. Y. Shingle construction. Des. 16,832; Dec. 27.
- Odell, Edwin, Central City, Nebr. Obstetrical device. 1,614,679; Jan. 18.
- Odell, Edwin, Central City, Nebr. Obstetrical instrument. 1,626,149; Apr. 26.
- O'Dell, Frank, Union City, Ind. Steel yoke. 1,630,447; May 31.
- Odell, Grant C., Harvard, Ill. Chimney-cleaning device. 1,616,330; Feb. 1.
- Odell, Rodman C., Peekskill, N. Y. Floor polisher. 1,614,680; Jan. 18.
- Odell, William W., Minneapolis, Minn. Sweeping and dust-settling compound. 1,617,843; Feb. 15.
- Odiorne, William H., assignor to Mercury Manufacturing Company, Chicago, Ill. Hitch device for trucks. 1,650,767; Nov. 29.
- Odle, Winfield S., Detroit, Mich. Sash-operating device. 1,652,632; Dec. 13.
- Odum, Earl R., St. Louis, Mo. Carrying-in device for levers. 1,620,778; Mar. 15.
- Odum, Leland, assignor to M-O-R Products Company, Little Rock, Ark. Manufacture of a substitute for turpentine. 1,625,622; Apr. 19.
- O'Donnell, Edward M., San Francisco, and D. D. Peebles, Eureka, Calif. Expansion joint for heat exchangers. 1,626,869; May 3.
- O'Donnell, John F., Morris Run, Pa. Kettle insert. 1,613,671; Jan. 11.
- O'Donnell, Philip L., Cincinnati, Ohio. Taping machine. 1,628,800; May 17.
- O'Donovan, David S., Vogelfonteln, Transvaal, assignor to O'Donovan Furnaces Limited, Johannesburg, South Africa. Hardening steel articles. 1,620,779; Mar. 15.
- O'Donovan, David S., assignor to O'Donovan Furnaces Limited. (See O'Donovan, David S., assignor.)
- O'Dowd, Henry W., Jersey City, N. J., assignor, by mesne assignments, to Standard Gas Equipment Corporation, Baltimore, Md. Gas-stove burner. 1,625,623; Apr. 19.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas stove. 1,630,966; May 31.

- O'Dowd, Henry W., Jersey City, N. J., assignor, by mesne assignments, to Standard Gas Equipment Corporation, Baltimore, Md. Heat-insulating unit. 1,637,497; Aug. 2.
- O'Dowd, Henry W., Jersey City, N. J., assignor, by mesne assignments, to Standard Gas Equipment Corporation, Baltimore, Md. Water heater. 1,639,745; Aug. 23.
- O'Dowd, Henry W., Jersey City, N. J., assignor, to Standard Gas Equipment Corporation. Water-heating system. 1,643,223; Sept. 20.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Thermostatically controlled valve mechanism. 1,643,255; Sept. 20.
- O'Dowd, Henry W., Jersey City, N. J., assignor, by mesne assignments, to Standard Gas Equipment Corporation, Baltimore, Md. Burner unit for gas heating apparatus. 1,647,712; Nov. 1.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas range. 1,649,416; Nov. 16.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas range. 1,649,417; Nov. 15.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas burner. 1,649,972; Nov. 22.
- Odquist, Victor, assignor to American Can Company, New York, N. Y. Sheet-metal box cover. 1,613,286; Jan. 4.
- Odquist, Victor, Yonkers, assignor to American Can Company, New York, N. Y. Metallic spool. 1,635,495; July 12.
- Oechsle, Joseph S., assignor to Metalweld Service Corporation, Philadelphia, Pa. Attachment frame for mobile units. 1,635,020; Dec. 20.
- Oechslein, Carl J., Ablon, France. Preparation of aliphatic or polyaromatic hydrocarbons. 1,652,224; Dec. 27.
- Oehm, William N., and E. W. Test, assignors to Pullman Car & Manufacturing Corporation, Chicago, Ill. Welded railway car. 1,643,416; Sept. 27.
- Oehmig, William G. (See Wallace, Frank W.)
- Oehrie Brothers Company. (See Oehrie, Franklin W., assignor.)
- Oehrie, Franklin W., assignor to Oehrie Brothers Company, Philadelphia, Pa. Valance for window draperies. 1,625,329; Apr. 19.
- Oelkers, Alfred H., Springfield, Mo. Lubricator. 1,617,219; Feb. 8.
- Oelkers, Alfred H., Springfield, Mo. Brake-beam safety support. 1,652,633; Dec. 13.
- Oelkers, Alfred H., assignor to American Steel Foundries, Chicago, Ill. Draft gear. 1,644,658; Oct. 4.
- Oertel, Albert, Richmond Hill, N. Y. Coffee ring dough divider. 1,629,295; May 17.
- Oertel, Rudolf, Hannover, assignor to Metallbank und Metallurgische Gesellschaft Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Recovery of volatile solvents. 1,631,052; May 31.
- Oertel, Wilhelm, assignor to Glockenstahlwerke Aktiengesellschaft vorm. Rich. W. Romscheid-Hasten, Germany. Steel alloy. 1,630,448; May 31.
- Oesch, Joseph B., Milwaukee, assignor to The Newport Company, Carrollville, Wis. Trisazo dyestuff and manufacture. 1,615,550; Jan. 25.
- Oesch, Joseph B., Milwaukee, assignor to The Newport Company, Carrollville, Wis. Estrakisazo dyes and manufacture. 1,615,551; Jan. 25.
- Oesterreich, Edward, Philadelphia, Pa. Knitting machine. 1,644,688; Oct. 11.
- Oesterreich, Roy E. (See Ringenberg, Howell V., assignor.)
- Oesterwitz, Otto H., Syracuse, N. Y. Surgical instrument. Re. 16,687; July 19.
- Oestnaes, Victor L., Westfield, assignor to American Gas-accumulator Company, Elizabeth, N. J. Reflector signal. Des. 73,800; Nov. 8.
- Oestnaes, Victor L., Westfield, assignor to American Gas-accumulator Company, Elizabeth, N. J. Reflector signal. Des. 73,801; Nov. 8.
- Oestnaes, Victor L., Westfield, assignor to American Gas-accumulator Company, Elizabeth, N. J. Reflector signal. Des. 74,020; Dec. 6.
- Oestnaes, Victor L., Westfield, assignor to American Gas-accumulator Company, Elizabeth, N. J. Reflector signal. Des. 74,021; Dec. 6.
- Oetzen, Ernest A., assignor to Sumner Iron Works, Everett, Wash. Lumber carrier. 1,640,718; Aug. 30.
- O'Folion, John J., et al. (See Tuohise, Joseph, assignor.)
- Ofeldt, Ernest G., Nyack, N. Y., assignor to Mears-Kane-Ofeldt, Inc., Philadelphia, Pa. Steam boiler. 1,653,505; Dec. 20.
- Off, Edward P., Philadelphia, Pa., assignor to The Dentists' Supply Company. Artificial teeth. 1,643,992; Oct. 4.
- Off, Gustav E. (See Harrington, W. S., and Off.)
- Offenbach, Solomon, Bradford, Pa. Shelf. 1,619,307; Mar. 1.
- Offenbacher, Luipold, assignor to Bayerische Spiegelglasfabriken Beckmann-Kugler-Furt in Bavaria, Germany. Apparatus for producing a silver coating on glass. 1,648,504; Nov. 8.
- Offenhauser, Christopher, Philadelphia, Pa. Cooking and drying apparatus. 1,630,071; May 24.
- Offet, Edwin A., Toledo, Ohio. Circuit closer for vehicle signals. 1,628,801; May 17.
- Offner, Charles B., Winnetka, Ill., assignor to Sullivan Machinery Company. Mining-machine truck. 1,641,862; Sept. 6.
- Offner, Charles B., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,649,920; Nov. 22.
- O'Flynn, John D., Vancouver, British Columbia, Canada. Newspaper vendor. 1,640,666; Aug. 30.
- Ofner, Frank P., and W. H. Nourse, Portland, Oreg. Pipe-welding apparatus. 1,623,434; Apr. 5.
- Ogden, Ashley G., Baltimore, Md., assignor to American Machine & Foundry Company. Negative-making device. 1,630,599; May 31.
- Ogden, Ashley G., Baltimore, Md., assignor to American Machine & Foundry Company. Photographic-printing machine. 1,647,246; Nov. 1.
- Ogden, Benjamin V., Philadelphia, Pa. Switch for automobile stop lights. 1,627,061; May 8.
- Ogden, Charles H., et al. (See Hammond, Robert O., assignor.)
- Ogden, Clarence E., Cincinnati, Ohio, assignor to The Kodel Radio Corporation. Storage battery. 1,633,224; June 21.
- Ogden, Dana P., Ottawa, assignor of one-half to E. F. Plumb, Streator, Ill. Brick-forming mechanism. 1,633,567; Jan. 4.
- Ogden, Herbert. (See Green, E. W., and Ogden.)
- Ogden, J. Edward. (See Fisher, Joseph K., assignor.)
- Ogden, J. Edward. (See Ogden, R. E., Tomkinson, and Van Tassel, assignors.)
- Ogden, J. Edward. (See Tomkinson, Charles C., assignor.)
- Ogden, Jacob W. (See Pitney, A. H., and Ogden.)
- Ogden, Jacob W. (See Pitney, A. H., Ogden, Northrop, and Wheeler.)
- Ogden, Jacob W. (See Wheeler, W. H., Jr., and Ogden.)
- Ogden, John E. (See Fisher, Joseph K., assignor.)
- Ogden, John E. (See McIntosh, Roy E., assignor.)
- Ogden, John E. (See Ogden, Ralph E., assignor.)
- Ogden, John E. (See Ogden, R. E., and Tomkinson, assignors.)
- Ogden, John E. (See Smith, Ezra B., assignor.)
- Ogden, John E. (See Tomkinson, Charles C., assignor.)
- Ogden, John E., Mountainville, N. Y. Bolt anchor. 1,639,231; Aug. 16.
- Ogden, John E., Mountainville, N. Y. Anchorage. 1,646,457; Oct. 25.
- Ogden, Ralph E., assignor to J. E. Ogden, Mountainville, N. Y. Setting tool for expansion shield. 1,636,831; July 26.
- Ogden, Ralph E., assignor to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,654,346; Dec. 27.
- Ogden, Ralph E., Mountainville, N. Y., and C. C. Tomkinson, Plainfield, N. J., assignors to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,648,420; Nov. 8.
- Ogden, Ralph E., Cornwall, N. Y., C. C. Tomkinson, Plainfield, and A. R. Van Tassel, Bayonne, N. J., assignors, by mesne assignments, to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,650,956; Nov. 29.
- Ogden, Ralph E., Cornwall, N. Y., and C. C. Tomkinson, Plainfield, N. J., assignors to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,650,957; Nov. 29.
- Ogden, Ralph E., Cornwall, N. Y., and C. C. Tomkinson, Plainfield, N. J., assignors to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,650,958; Nov. 29.
- Ogden, Sidney A., Los Angeles Calif. Combining cellulose and rubber. 1,617,495; Feb. 15.
- Ogden, Thomas, Lynwood, Calif. Journal box. 1,653,870; Dec. 27.
- Ogden, Ward H., Keystone Heights, Fla. Self-adjusting bearing. 1,653,407; Dec. 20.
- Ogilvie, Alexander L. (See Jacobson, A., and Ogilvie.)
- Ogle Construction Company. (See Blessie, Carl F., assignor.)
- Ogle, Elmer L., assignor to Federal Electric Company, Chicago, Ill. Fuse. 1,645,541; Oct. 18.
- Ogle, Elmer L., assignor to Federal Electric Company, Chicago, Ill. Fuse. 1,646,629; Oct. 25.
- Oglesby, Nicholas E. (See Bradner, D. B., and Oglesby.)
- O'Grady, Frederick T., assignor to H. V. O'Grady, Flushing, N. Y. Motion-picture projector. 1,623,435; Apr. 5.
- O'Grady, Helen V. (See O'Grady, Frederick T., assignor.)
- O'Grady, Jeremiah J., Woonsocket, R. I. Combing machine. 1,613,672; Jan. 11.
- O'Hagan, Bernard E., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 1,645,251; Oct. 11.
- O'Hara, Eliot, assignor to O'Hara Waltham Company, Waltham, Mass. Attachment for steel die and plate presses. 1,640,553; Aug. 30.
- O'Hara, Waltham Company. (See O'Hara, Eliot, assignor.)
- Ohaus, Gustav, Maplewood, N. J. Weighing-scale plate. 1,627,710; May 10.
- Ohaver, David W., Rockville, Ind. Resilient-tire traction device. 1,620,384; Mar. 8.
- Ohaver, David W., Rockville, Ind. Leak detector. 1,620,928; Oct. 26.
- O'Haver, Helen A., Topsham, Me. Cup measure. 1,622,967; Mar. 29.
- O'Hell, Octavian G. I., Lowell, Mass. Shirt attachment. 1,641,008; Aug. 30.
- Ohio Body & Blower Company, The. (See Dawson, Carl E., assignor.)

- Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
- Ohio Brass Company. (See Austin, A. O., and Mackod, assignors.)
- Ohio Brass Company, The. (See Averill, Rex G., assignor.)
- Ohio Brass Company, The. (See Bovard, William P., assignor.)
- Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
- Ohio Brass Company, The. (See Larsson, Ernst A., assignor.)
- Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
- Ohio Brass Company, The. (See Pipes, Pliny P., assignor.)
- Ohio Cultivator Company, The. (See Griffith, Richard H., assignor.)
- Ohio Electric & Controller Company, The. (See Krause, Walter J., assignor.)
- Ohio Foundry and Manufacturing Co., The. (See Sharp, William L., assignor.)
- Ohio Match Company, The. (See Parker, Lucian E., assignor.)
- Ohio Match Company, The. (See Swartz, Orlo E., assignor.)
- Ohio Rubber Company, The. (See Reynolds, William A., assignor.)
- Ohio Steam Shovel Company, The. (See Rauch, John D., assignor.)
- Ohio Truss Company, The. (See Pease, Isaac M., assignor.)
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Transferring high-frequency energy. 1,619,882; Mar. 8.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,641,289; Sept. 6.
- Ohlau, George H., assignor to Eastman Kodak Company. Rochester, N. Y. Aviation camera. 1,645,923; Oct. 18.
- Ohlendorf, Emil F., Moline, Ill. Bumper mechanism. 1,633,901; June 28.
- Ohlendorf, Heinrich. (See Herzberg, W., and Ohlendorf.)
- Ohlsen, Arthur A. C., San Francisco, Calif. Safety device for high-tension wires. 1,635,726; July 12.
- Ohlsen, Mark P., assignor to Brilliron Iron Works, Brilliron, Wis. Sprocket-type soil pulverizer. 1,617,821; Feb. 15.
- Ohlson, Anton. (See Kronlund, Perry E., assignor.)
- Ohlsson, Charles H., assignor to D. and R. Hefter, New York, N. Y., composing the Firm of Hefter Company. Web notching and blanking mechanism for outside covers. 1,640,466; Aug. 30.
- Ohlsson, Charles H., assignor to D. and R. Hefter, New York, N. Y., composing the Firm of Hefter Company. Gluing machine. 1,640,467; Aug. 30.
- Ohlsson, Charles H., assignor to D. and R. Hefter, New York, N. Y., composing the Firm of Hefter & Company. Machine for folding cover edges. 1,640,515; Aug. 30.
- Ohlweiler, Clarence H., assignor to American Optical Company, Southbridge, Mass. Composition for cleaning glass which will prevent misting and the collection of globules of moisture thereon. 1,638,272; Aug. 9.
- Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 73,980; Nov. 29.
- Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 73,981; Nov. 29.
- Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 73,982; Nov. 29.
- Ohmart, Grayston L., Detroit, Mich. Dishwashing machine. 1,638,549; Aug. 9.
- Ohmer Fare Register Company. (See Anstotz, C., and Saupé, assignors.)
- Ohmer Fare Register Company. (See Gluck, Julius, assignor.)
- Ohmer Fare Register Company. (See Gray, Frederick O., assignor.)
- Ohmer Fare Register Company. (See Orth, William G., assignor.)
- Ohmer Fare Register Company. (See Orth, W. G., and Darst, assignors.)
- Ohmer Fare Register Company. (See Sheats, John H., assignor.)
- Ohnstrand, Enoch, Mohawk, assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y. Ledger tray. 1,647,665; Nov. 1.
- Oil Appliance Manufacturing Corporation. (See Shipley, Marion R., assignor.)
- Oil Conservation Engineering Company, The. (See Brooks, Stephen H., assignor.)
- Oil Conservation Engineering Company, The. (See Calhoun, Tracy J., assignor.)
- Oil Devices Corporation. (See Breese, James L., jr., assignor.)
- Oil Fields Specialties Company. (See Yungling, Paul, assignor.)
- Oil Well Core Drilling Company. (See Bonney, Lynn F., assignor.)
- Oil Well Supply Company. (See Gallman, C. E., and Haire, assignors.)
- Oil Well Supply Company. (See Keim, L. H., and Kline, assignors.)
- Oiler, Frank E., Detroit, Mich. Moving-picture camera projector. 1,621,024; Mar. 16.
- Oilgear Company, The. (See Ferris, Walter, assignor.)
- Oishei, John R., Buffalo, N. Y. Rear view mirror. 1,633,282; June 21.
- Okadee Company, The. (See Demarest, Thomas W., assignor.)
- Okara Company, The. (See Vissering, Harry, assignor.)
- Okazawa, Tsuruji. (See Ikeda, K., Isobe, and Okazawa.)
- Oke, William, Chicago, Ill. Sanitary garbage can. 1,613,621; Jan. 11.
- O'Keefe, William M., Birmingham, England. Sand and other riddle or sieve. 1,614,384; Jan. 11.
- O'Keefe, George W., Rochester, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,652,321; Dec. 13.
- Okel, Harry A., Wheeling, W. Va. Animated-figure scoring game. 1,620,912; Mar. 15.
- O'Kelly, George A. W., (See Wickenden, L., and O'Kelly.)
- O'Kelly, David B., Miami Beach, Fla. Portable desk. 1,636,783; July 26.
- Okie, Francis G., Philadelphia, Pa., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Composite structure. 1,635,800; July 12.
- Okie, Francis G., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Composite structure. 1,635,801; July 12.
- Okie, Howard P., Washington, D. C. Apparatus for treating beans and other pulse foods. 1,653,506; Dec. 20.
- Oklahoma Coca-Cola Bottling Company. (See Browne, Virgil, assignor.)
- Okner, Bernard, Chicago, Ill. Ball bearing. 1,645,345; Oct. 11.
- Okutani, Asagoro, Osaka, Japan. Bottle sack made of sugar-cane leaves. 1,653,820; Dec. 27.
- Olafsen, Pete, Elko, Nev. Rim tool. 1,632,191; June 4.
- Olafson-Parr-Cohen Mfg. Co. (See Parr, George T., assignor.)
- Oiberg, William E. (See Poindexter, R. W., jr., and Oiberg.)
- Olcott, Charles A., assignor to S. S. Hepworth Company, New York, N. Y. Centrifugal machine. 1,652,908; Dec. 13.
- Olcott, Herman P., Wallingford, Conn. Training apparatus. 1,636,753; July 26.
- Old Colony Trust Company, trustee. (See Toney, George W., assignor.)
- Old Dominion Iron & Steel Works. (See Wheelwright, Thomas S., assignor.)
- Oldman, Coleman, Pittsfield, Mass. Terminal connector. 1,619,086; Mar. 1.
- Old National Bank of Battle Creek, The, administrator. (See Schellenberger, Charles G.)
- Oldroyd, Francis H., Radcliffe, England. Apparatus for producing knotted pile fabrics. 1,635,632; July 12.
- Oldroyd, Francis H., Radcliffe, England. Production of knotted pile fabrics. 1,636,613; July 19.
- Oldroyd, Gerald J., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Ash gate. 1,641,823; Sept. 6.
- Olds, Richard, Walkerville, South Australia. Machine for fleshing furred skins. 1,649,725; Nov. 15.
- Oldson, John A., assignor to Wyman-Gordon Company, Worcester, Mass. Balanced crankshaft. 1,645,717; Oct. 18.
- Oldson, John A., assignor to Wyman-Gordon Company, Worcester, Mass. Balanced crankshaft. 1,645,718; Oct. 18.
- Oldson, John A., assignor to Wyman-Gordon Company, Worcester, Mass. Six-throw, four-bearing, balanced crank shaft. 1,649,516; Nov. 15.
- O'Leary, Arthur L., et al. (See Lawton, Oscar S., assignor.)
- O'Leary, Harold W., et al. (See Lawton, Oscar S., assignor.)
- O'Leary, John, Brooklyn, N. Y. Directory. 1,616,464; Feb. 8.
- O'Leary, Matthew J., Chickasha, Okla. Valve gear. 1,622,464; Mar. 29.
- O'Leary, Patrick J., Akron, Ohio. Sleeping pillow. 1,617,822; Feb. 15.
- O'Leary, Thomas J., St. Paul, Minn. Signal for motor cars. 1,620,385; Mar. 8.
- O'Leary, William C., assignor of one-fourth to J. R. Pumphrey and one-eighth to L. G. Berry, Washington, D. C. Vacuum wall receptacle. 1,636,322; July 19.
- O'Leary, William J. (See Allison, Harvey, assignor.)
- Oleson, Henry E. (See Boehlke, Paul E., assignor.)
- Olsen, Harry S., Kohler, Wis. Respirator. 1,615,718; Jan. 25.
- Olgaard, Harry S., Kohler, Wis. Respirator mask. 1,630,209; May 24.
- Olga, Albert, Glen Ellyn, assignor to Gaw-O'Hara Envelope Co., Chicago, Ill. Machine for punching and reinforcing blanks. 1,619,214; Mar. 1.
- Olga, Albert, Glen Ellyn, assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Envelope-fastening device. 1,619,215; Mar. 1.
- Olga, Albert, Glen Ellyn, assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Envelope-window-cutting device. 1,619,365; Mar. 1.

- Olgay, Albert, Glen Elynn, assignor to Gaw-O'Hara Envelope Co., Chicago, Ill. Envelope machine. 1,634,080; June 28.
- Olhausen, Jacob B., et al. (See Frambach, Mathew J., assignor.)
- Olin, Carl L., Oakland, Calif. Refrigerator condenser. 1,613,717; Jan. 11.
- Olin, Franklin W., Alton, assignor to Western Cartridge Company, East Alton, Ill. Detonator package. 1,631,766; June 7.
- Olin, Fred C., Buffalo, N. Y. Spike-forming machine. 1,623,264; Apr. 5.
- Olin, Gustaf A., Worcester, Mass. Surfacing machine. 1,649,124; Nov. 15.
- Olin, John M., and J. B. Smith, Alton, assignors to Western Cartridge Company, East Alton, Ill. Method and apparatus for stripping detonator igniter terminals. 1,626,119; Apr. 26.
- Olin, John M., and A. S. O'Neill, Alton, assignors to Western Cartridge Company, East Alton, Ill. Propellant powder. 1,627,859; May 10.
- Olin, John M., V. L. Davis, and J. B. Smith, Alton, assignors to Western Cartridge Company, East Alton, Ill. Method and apparatus for making igniter connections for detonators. 1,628,118; Apr. 26.
- Olin, John M., V. L. Davis, and J. B. Smith, Alton, assignors to Western Cartridge Company, East Alton, Ill. Method of and apparatus for forming detonator igniter terminals. 1,627,860; May 10.
- Olin, Louis B., Chicago, Ill. Iceless refrigerator tank. 1,641,192; Sept. 6.
- Olinger, Jacob M., Springfield, Ohio. Gas stove. Des. 74,120; Dec. 20.
- Olinger, Josef, Franlautern/Saargebiet, Germany. Lock. Des. 69,872; Nov. 15.
- Olinger, Thomas, and F. G. Brendel, assignors to Federal Manufacturing Company, Holland, Mich. Pulley. 1,627,572; May 10.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Pumping system. 1,626,250; Apr. 26.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift pump. 1,653,189; Dec. 20.
- Olivarius, Holger de F., assignor to California Packing Corporation, San Francisco, Calif. Pickling ripe olives. 1,625,494; Apr. 19.
- Oliver, Charles. (See Garman, B. C., and Oliver.)
- Oliver Chilled Plow Works. (See Altgelt, Herman E., assignor.)
- Oliver Chilled Plow Works. (See Altgelt, Rudolph J., assignor.)
- Oliver Chilled Plow Works. (See Altgelt, R. J. and H. E., assignors.)
- Oliver Chilled Plow Works. (See Dewend, William D., assignor.)
- Oliver Chilled Plow Works. (See Gallagher, Arthur D., assignor.)
- Oliver Chilled Plow Works. (See Moore, Charles W., assignor.)
- Oliver Chilled Plow Works. (See Richards, E. W., and Janso, assignors.)
- Oliver Continuous Filter Company. (See Borden, John F., assignor.)
- Oliver Continuous Filter Company. (See Oliver, Edwin L., assignor.)
- Oliver, Edwin L., assignor to Oliver Continuous Filter Company, Oakland, Calif. Pulp thickener. 1,644,854; Oct. 11.
- Oliver, Ernon V., Portland, Oreg. Distilling apparatus. 1,625,222; Apr. 19.
- Oliver, Ernon V., Portland, Oreg. Water still. 1,625,223; Apr. 19.
- Oliver, Ernon V., Portland, Oreg. Water still. 1,626,960; May 3.
- Oliver, Ernon V., Portland, Oreg. Condenser for stills. 1,628,736; May 17.
- Oliver, Ernon V., Portland, Oreg. Condenser for stills. 1,628,737; May 17.
- Oliver, Ernon V., Portland, Oreg. Water still. 1,629,807; May 24.
- Oliver, Everett B., Chicago, Ill. Transmission mechanism. 1,624,968; Apr. 19.
- Oliver, Fay, Whittier, Calif. assignor to Elliott Core Drilling Company. Core drill. 1,624,148; Apr. 12.
- Oliver, Frederick R., Los Angeles, Calif. Coin-controlled actuating mechanism for dispensing machines. 1,633,875; June 28.
- Oliver, Gene G., et al. (See Oliver, R. M., and Penn., assignors.)
- Oliver, George, Seattle, Wash. Cable coupler. 1,646,489; Oct. 25.
- Oliver, George A., Cleburne, Tex. Checking and assembly table. 1,615,719; Jan. 25.
- Oliver, George A., Cleburne, Tex. Grinding machine. 1,625,049; Apr. 19.
- Oliver, George W., Harrow, assignor to J. Lyons and Company, Limited, London, England. Inserting cards and the like in cartons or similar containers. 1,646,658; Oct. 25.
- Oliver, Herbert G., Mamaroneck, N. Y. Building unit construction. 1,652,834; Dec. 13.
- Oliver, Hosea N., Hartsville, Mo. Seed planter. 1,644,602; Oct. 4.
- Oliver, Immanuel A., assignor to The Pomona Manufacturing Company, Pomona, Calif. Pump bearing. 1,633,188; June 21.
- Oliver, Jesse L., Beeville, Tex. Piston-ring-contracting tool. 1,621,681; Mar. 22.
- Oliver, John E., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Welt-attaching method and product. 1,612,940; Jan. 4.
- Oliver, John K., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Press for cutting or punching sheet material. 1,619,482; Mar. 1.
- Oliver, Leigh H., Bend, Oreg. Electric-light shade. 1,616,227; Feb. 1.
- Oliver, Melfort V., Detroit, Mich. Seed planter. 1,637,834; Aug. 2.
- Oliver Oil-Gas Burner and Machine Company. (See Merrill, Richard R., assignor.)
- Oliver Pell Control Limited. (See Garman, B. C., and Oliver, assignors.)
- Oliver, Ruth M., and G. R. Penn, Brooklyn, N. Y., assignors, by mesne assignments, to G. G. Oliver, Chicago Heights, and D. D. Kroder, Chicago, Ill. Berry basket. 1,652,251; Dec. 15.
- Oliver Typewriter Company, The. (See Washburne, William H., assignor.)
- Oliver, Walter E., Woodcliff, N. J. Rotary printing press. 1,624,062; Apr. 12.
- Oliver, William, Lockport, N. Y. Pump. 1,635,006; July 5.
- Oliver, William H., and E. S. Culver, Oakland, Calif. Mold for forming containers. 1,637,532; Aug. 2.
- Oller, Albert, Waldron, Ark. Incubator. 1,635,901; July 12.
- Oller, Tintoré, José Ma, Barcelona, Spain. Metal-ring machine with revolving fly for tins, cans, and other receptacles. 1,621,377; Mar. 15.
- Ollinger, William. (See Rosenberg, A., and Ollinger.)
- Olmstead, Clarence E., Modesto, Calif. Liquid-cooling device. 1,637,008; July 26.
- Olmstead, Edward L. (See Olmstead, William L. and E.)
- Olmstead, Lewis B. (See Davis, R. O. E., and Olmstead.)
- Olmstead, William L., Pomona, and E. L. Olmstead, Anaheim, Calif. Air strainer for combustion engines. 1,619,954; Mar. 8.
- Olmsted, Frederick L. (See Agnew, J. G., and Pond, assignors.)
- Olmsted, Russell C. (See Edge, Walter S., and Olmsted.)
- Olness, Irvin J., Kragnes, Minn. Cut-out. 1,628,738; May 17.
- Olney, Benjamin, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Thermionic-tube circuits. 1,652,148; Dec. 13.
- Oloffson, Bror L., and R. E. Peterson, Dorchester, Mass. Valve. 1,640,247; Aug. 23.
- O'Loighlin, Charles E. A., assignor to W. W. Christian, St. Paul, Minn. Christmas-tree support. 1,653,225; Dec. 20.
- Olschewski, Leo, Irvington, N. J. Sprinkler and rotor element therefor. 1,628,993; May 17.
- Olsen, Alfred, Chicago, Ill. Household article. 1,613,476; Jan. 4.
- Olsen, Andrew, Jr., San Francisco, Calif. Candy package. 1,640,052; Aug. 23.
- Olsen, Bert, et al. (See Erickson, August, assignor.)
- Olsen, Carl G., and F. W. England, assignors to Illinois Tool Works, Chicago, Ill. Hob-grinding machine. Re16,590; Apr. 12.
- Olsen, Einar E. (See Sausen, B. R., and Olsen.)
- Olsen, Eugene F., assignor to Anchor Concrete Machinery Co., Adrian, Mich. Plastic-material mold. 1,618,466; Feb. 22.
- Olsen, Fredrich, Dover, N. J., and H. A. Arasonson, New York, N. Y. Treatment of cellulose. 1,615,343; Jan. 25.
- Olsen, Frederik J., Eskebjergsgræde, A. Aleshave, Denmark. Backpedaling brake. 1,648,421; Nov. 8.
- Olsen, George O., Los Angeles, Calif. Shirt. 1,647,656; Nov. 1.
- Olsen, George P., L'Anse, Mich. Pressure valve. 1,618,349; Feb. 22.
- Olsen, H. J., et al. (See Ginger, Frank M., assignor.)
- Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. 1,620,034; Mar. 8.
- Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. 1,628,550; Apr. 5.
- Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. 1,625,142; Apr. 19.
- Olsen, Joseph, Los Angeles, Calif. Cutter attachment for paper-tape machines. 1,647,551; Nov. 1.
- Olsen, Joseph S., Gunnison, assignor of one-half to W. F. Clegg, Centerfield, Utah. Treating sacchariferous solutions. 1,652,680; Dec. 13.
- Olsen, Oscar, Royceville, Wis. Axle attachment. 1,624,278; Apr. 12.
- Olsen, Oskar, Brooklyn, N. Y. Device for hanging forms from structural steel. 1,610,275; Feb. 1.
- Olsen, Oswald A., Bridgeport, Conn. Compression pump. 1,633,270; June 21.
- Olsen, Robert E., Oceanpark, Calif., assignor to Neelo Holding Company, Inc. Automatic photographic machine. 1,653,408; Dec. 20.
- Olsen, Ruben A. (See Kunin, P., and Olsen.)

- Olsen, Simon D., London, England. Arrangement for supplying liquid fuel to internal-combustion engines. 1,625,739; Apr. 19.
- Olsen, Simon D., London, England. Injecting liquid fuel into internal-combustion engines. 1,629,693; May 24.
- Olsen, Walter, assignor to American Gas Machine Company, Albert Lea, Minn. Alcohol torch. 1,642,260; Sept. 13.
- Olson, Albert S. N., Chicago, Ill. Fireless cooker. Des. 71,810; Jan. 4.
- Olson, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Feed table. 1,626,352; Apr. 26.
- Olson, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper feeder. 1,626,353; Apr. 26.
- Olson, Carl, Manitowish, Mich. Ash-can cover. 1,638,360; Aug. 9.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Grinding machine. 1,612,830; Jan. 4.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Gear-testing machine. 1,619,483; Mar. 1.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Gear-generating machine. 1,642,554; Sept. 13.
- Olson, Carl V., Chicago, Ill. Visible-filing device. 1,644,790; Oct. 11.
- Olson, Carl W., assignor to American Safety Equipment Corporation, Minneapolis, Minn. Rotatable window. 1,649,850; Nov. 22.
- Olson, Charles, Minneapolis, Minn. Harness rack. 1,613,477; Jan. 4.
- Olson, Daniel O. (See Olson, G. E., and Williams.)
- Olson, Fletcher M., Robbinsdale, Minn. Insulating material. 1,651,539; Dec. 6.
- Olson, George H., Bridgeport, Conn. Cement-form holder. 1,632,918; June 21.
- Olson, Gottfrid. (See Steiner, F. M., and Olson.)
- Olson, Gottfrid. (See Steiner, G. A., and Olson.)
- Olson, Gus E., and A. J. Williams, said Williams assignor, by mesne assignments, to D. O. Olson, Seattle, Wash. Step ladder. 1,633,902; June 28.
- Olson, Gustaf, assignor to E. J. Strand, Chicago, Ill. Metallic fastener or jamb nail. 1,621,213; Mar. 15.
- Olson, Hans M., Burbank, Calif. Oxzychloride cement and making same. 1,619,534; Mar. 1.
- Olson, Harry J., assignor to Olson Mill Company, Des Moines, Iowa. Forage mill. 1,645,770; Oct. 18.
- Olson, James P., Mobile, Ala. Window-shade holder. 1,620,736; Mar. 15.
- Olson, John A., and E. R. Hellman, Detroit, Mich. Piston ring. 1,636,012; July 19.
- Olson, John B. (See Stader, O., and Olson.)
- Olson, John B., and J. G. Shodron, assignors to James Manufacturing Company, Fort Atkinson, Wis. Valved ventilator inlet. 1,643,322; Nov. 8.
- Olson, John O., St. Paul, Minn., assignor to Spiral Radiator Company, Machine for shaping the edges of sheet material. 1,649,613; Nov. 15.
- Olson, Joseph, Houston, Tex. Underreamer. 1,618,294; Feb. 22.
- Olson, Martin E., Minneapolis, Minn. Bench clamp. 1,631,428; June 7.
- Olson, Mauritz, assignor to The A. H. Nilson Machine Co., Bridgeport, Conn. Chain-making machine. 1,624,063; Apr. 12.
- Olson Mill Company. (See Olson, Harry J., assignor.)
- Olson, Nels L., Detroit, Mich. Motor-truck chassis. 1,619,308; Mar. 1.
- Olson, Nels L., Highland Park, Mich. Rear-axle-transmission mechanism. 1,630,210; May 24.
- Olson, Raymond E., assignor to Taylor Instrument Companies, Rochester, N. Y. Combined recording and controlling mechanism. 1,634,205; June 28.
- Olson, Samuel, assignor to Samuel Olson & Company, Chicago, Ill. Automatic transfer mechanism for conveyers. 1,636,429; July 19.
- Olson, Samuel, Oak Park, assignor to Samuel Olson & Company, Chicago, Ill. Selective electric control system. 1,645,619; Oct. 18.
- Olson, Samuel, assignor to Samuel Olson & Company, Chicago, Ill. Trav-elevator gate. 1,653,226; Dec. 20.
- Olson, Samuel, & Company. (See Olson, Samuel, assignor.)
- Olson, Sigurd, Portland, Oreg. High-compression two-cycle internal-combustion engine. 1,646,554; Oct. 25.
- Olson, Theodore A. (See Theobald, G. A., and Olson.)
- Olson, Waldemar N., Chicago, Ill. N. J. Door-locking device for wash wheels. 1,635,141; July 5.
- Olson, Werner O., East Orange, N. J., assignor to Asher Manufacturing Company, Irvington, N. J. Supply door for wash wheels. 1,635,141; July 5.
- Olson, Werner O., East Orange, assignor to Asher Manufacturing Company, Irvington, N. J. Door-locking device for washers, drying tumblers, and the like. 1,647,713; Nov. 1.
- Olsson, Ellis, West Point, Va. Charging pulp digesters. 1,653,307; Dec. 20.
- Osie, James E., Los Angeles, Calif. Vending machine. 1,631,547; June 7.
- Omaha Folding Machine Co. (See Peterson, T. B., and Holcomb, assignors.)
- O'Maley, George T., Kansas City, Mo. Highway barrier. 1,651,221; Nov. 29.
- O'Malley, Thomas, New York, N. Y., assignor to Victor Talking Machine Company. Needle dispenser. 1,613,622; Jan. 11.
- O'Malley, Tully, Cordova, Alaska. Marcel-waving device. 1,648,740; Nov. 8.
- Omoto, Bunnosuke, Green River, Wyo. Tire casing. 1,616,543; Feb. 8.
- One Minute Manufacturing Company. (See Schroeder, Simon E., assignor.)
- Oneal, Ben G. et al. (See Hubbard, Lloyd B., assignor.)
- O'Neal, Hugh D., and J. La Prain, Central, N. Mex. Heat-producing composition. 1,613,120; Jan. 4.
- O'Neal, Nathaniel P., Hope, Ark. Masonry jointing tool. 1,619,080; Mar. 1.
- Oneida Community, Limited. (See Allen, Grosvenor N., assignor.)
- Oneida Community, Limited. (See Lee, John L., assignor.)
- O'Neill, Arthur S. (See Olin, J. M., and O'Neill.)
- O'Neill, Arthur S., assignor to Western Cartridge Company, East Alton, Ill. Propellant powder and making same. 1,627,861; May 10.
- O'Neill, Arthur S., Alton, assignor to Western Cartridge Company, East Alton, Ill. Propellant powder and making same. 1,627,862; May 10.
- O'Neill, Arthur S., Alton, assignor to Western Cartridge Company, East Alton, Ill. Explosive powder and making same. 1,627,863; May 10.
- O'Neill, Frank S. (See Morehead, G. L., and O'Neill.)
- O'Neill, James A., Lynn, Mass., assignor to General Electric Company. Illuminating device. 1,640,423; Aug. 30.
- O'Neill, James D. (See Palmer, John M., assignor.)
- O'Neill, James H., Syracuse, assignor to Continental Can Company, New York, N. Y. Metal container. 1,639,349; Aug. 16.
- O'Neill, James H., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Automatic can-testing machine. 1,645,018; Oct. 11.
- O'Neill, James R., Chicago, Ill. Electric cigar lighter. 1,616,344; Feb. 15.
- O'Neill, Edward J. (See Vieau, H. F., Higby, and O'Neill.)
- O'Neill, Eugene F., and E. L. Kern, Minneapolis, Minn. Needle vendor in the form of a miniature phonograph. 1,626,011; Apr. 26.
- O'Neill, Frank, Toledo, Ohio. Glass pressing and blowing machine. 1,642,660; Sept. 13.
- O'Neill, Henry, Rochester, Minn. Surgical baker. 1,617,923; Feb. 15.
- O'Neill, Henry W., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,613,246; Jan. 4.
- O'Neill, Henry W., Elmhurst, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,617,414; Feb. 15.
- O'Neill, Henry W., Elmhurst, assignor to Western Electric Company, Incorporated, New York, N. Y. Communication system. 1,624,072; Apr. 12.
- O'Neill, Henry W., Elmhurst, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. 1,625,495; Apr. 19.
- O'Neill, Henry W., Elmhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,641,449; Sept. 5.
- O'Neill, Henry W., Elmhurst, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,641,450; Sept. 6.
- O'Neill, James P., Queens Village, N. Y. Fire-prevention apparatus. 1,644,603; Oct. 4.
- O'Neill, John H., Springfield, Mo. Bouncing doll. 1,644,027; Oct. 4.
- O'Neill, John H., Springfield, Mo., and W. Leathers, Haworth, N. J. Continuous-water-tube flash-type steam generator. 1,644,078; Oct. 4.
- O'Neill, John W., Chicago, Ill. Radium emanator. 1,615,912; Feb. 1.
- O'Neill, Joseph A., New York, N. Y. Cushion device for automobiles. 1,625,146; Apr. 19.
- O'Neill, Joseph A., New York, N. Y. Record for reproducing sound tones and action. 1,653,467; Dec. 20.
- O'Neill Machine Company, The. (See Kinker, Clarence C., assignor.)
- O'Neill, Patrick S., Aicken's Township, Westland, New Zealand. Beaking-down saw. 1,624,064; Apr. 12.
- O'Neill, Thomas S., New Haven, Conn., and R. J. Miller, assignors to A. P. Pieper, New York, N. Y. Warm-air syringe. Re16,819; Dec. 13.
- O'Neill, Wallace H., Hazleton, Pa. Cloth gauge. Re-16,720; Aug. 23.
- O'Neill, Wallace H., Towanda, Pa. Cloth gauge. Re-16,289; Jan. 4.
- O'Neill, William J., assignor to Chicago Tool & Kit Mfg. Co., Chicago, Ill. Ratchet wrench. 1,644,079; Oct. 4.
- Onishi, Kasaburo, Tokyo-Fu, Japan. Reciprocating pump for use in deep wells. 1,648,620; Nov. 8.
- Onizuka, Chikunatsu, Ohio. Device for placing in and removing garments from protective bags. 1,652,579; Dec. 13.
- Onofrio, Anastas, Detroit, Mich. Combined scrubbing and vacuum cleaning device. 1,625,147; Apr. 19.
- Onsrud Machine Works. (See Onsrud, Rudolph F., assignor.)

- Onsrud, Rudolph F., assignor to Onsrud Machine Works, Chicago, Ill. Governor for fluid motors. 1,648,960; Nov. 15.
- Ontario Company. (See McGann, W. D., and McGreevy, assignors.)
- Ontario Knife Co. Inc., The. (See Gillan, Gowan C., assignor.)
- Oosterhuis, Ekko. (See Holst, G., Oosterhuis, and Builjes.)
- Oppel, Scott. Billings, Mont. Self-sealing trap. 1,630,861; May 31.
- Open Hearth Combustion Company. (See Danforth, George L., Jr., assignor.)
- Open Hearth Combustion Company. (See McKune, Frank B., assignor.)
- Operadio Corporation, The. (See Stone, John M., assignor.)
- Opitz, Fred M., assignor, by mesne assignments, to Hecxel Radiator Company, Milwaukee, Wis. Machine for making radiator cores. 1,618,219; Feb. 22.
- Opitz, William H., assignor to The Marvel Equipment Company, Cleveland, Ohio. High-pressure hand gun. 1,646,418; Oct. 25.
- Oppe, Charles. (See Wheeler, G. E., and Oppe.)
- Oppenhaus, Christopher, Philadelphia, Pa. Drier. 1,622,921; Mar. 29.
- Oppenheim, Charles J., Jr., New York, N. Y. Bottle. Des. 72,564; May 3.
- Oppenheim, David, et al. (See Brady, Francis E., Jr., assignor.)
- Oppenheim, David, New York, N. Y. Head protector. 1,614,018; Jan. 11.
- Oppenheim, Earl G. (See Goodstein, Charles B., assignor.)
- Oppenheim, Ferdinand S., New York, N. Y. Container. 1,624,360; Apr. 12.
- Oppenheim, Ferdinand S., New York, N. Y. Container. 1,651,965; Dec. 6.
- Oppenheim, Jesse, assignor to Hyman & Oppenheim, New York, N. Y. Hair-piece attachment. 1,638,016; Aug. 9.
- Oppenheim, Oberdorff Company. (See Atkinson, Joseph M., assignor.)
- Oppenheim, René, assignor to Société Anonyme Le Carbone, Levallois-Perret, France. Positive electrode for electric batteries. 1,631,642; June 7.
- Oppenheim, Roy A., et al. (See Brady, Francis E., Jr., assignor.)
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Gearing. 1,615,097; Jan. 18.
- Oppenheim, Theodore H., and B. Selhorst, assignors to New Idea Spreader Co., Coldwater, Ohio. Corn-husking machine. 1,621,682; Mar. 22.
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Shaking-screen mechanism for corn-husking machines. 1,629,357; May 17.
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Front-axle construction. 1,638,953; Aug. 16.
- Oppenheim, Theodore H., and B. Selhorst, assignors to New Idea Spreader Co., Coldwater, Ohio. Cutter head. 1,639,807; Aug. 23.
- Oppenheim, Theodore H., and B. Selhorst, assignors to New Idea Spreader Co., Coldwater, Ohio. Conveyor. 1,639,808; Aug. 23.
- Oppenheim, Theodore H., and B. Selhorst, Coldwater, Ohio. Gear case for corn huskers. 1,645,252; Oct. 11.
- Oppenheim, Theodore H., and B. Selhorst, assignors to New Idea Spreader Co., Coldwater, Ohio. Pneumatic conveyor. 1,647,463; Nov. 1.
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Discharge spout for corn huskers. 1,647,714; Nov. 1.
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Cutter head. 1,648,422; Nov. 8.
- Oppe, John M. (See Oppe, Rose L. and J. M.)
- Oppe, Rose L. and J. M., Omaha, Nebr. Electrical hair waving and curling device. 1,641,353; Sept. 6.
- Opperman, August H., et al. (See Gordon, Albert B., assignor.)
- Opperman, August H., Indianapolis, Ind. Combined electric-lamp bracket and convenience outlet. Des. 71,925; Jan. 26.
- Opperman, Emil L., assignor to Precise Manufacturing Corporation, Rochester, N. Y. Electric switch. 1,645,019; Oct. 11.
- Oppman, Frank, Gary, Ind. Refrigerant compressor. Des. 73,121; Jan. 3.
- Optische Anstalt C. P. Goerz "Aktiengesellschaft." (See Humbrecht, Jules, assignor.)
- Optische Anstalt C. P. Goerz "Aktiengesellschaft." (See Richter, Robert, assignor.)
- Optische Anstalt C. P. Goerz "Aktiengesellschaft." (See Ullrich, Franz, assignor.)
- Optische Anstalt C. P. Goerz "Aktiengesellschaft." (See Weidert, Franz, assignor.)
- Orange Crush Company. (See Bost, William D., assignor.)
- Orange Lighting Fixture Manufacturing Co. (See Siedell, Alfred P., assignor.)
- Orbison Store Co. (See Lehman, Max R., assignor.)
- Ordog, Gergely, Ellis Island, N. Y. Elevator safety stop. 1,626,583; Apr. 26.
- Ordofez, Adolfo P. (See Pazzi, A. J. S. and L. J. D., and Ordofez.)
- Ordway, Adolphe, Newman, Calif. Trailer. 1,642,823; Sept. 20.
- Ordway, Carroll T., assignor of one-half to C. Ordway, Brooklyn, N. Y. Centrifugal machine. 1,620,568; Mar. 8.
- Ordway, Charles. (See Ordway, Carroll T., assignor.)
- Ordway, Donald P., assignor to American Stamping Co., Battle Creek, Mich. Combination holder for razor-blade wipers and used razor blades. 1,646,100; Oct. 18.
- Ordway, Donald P., assignor to American Stamping Co., Battle Creek, Mich. Combination holder for razor-blade wipers and used razor blades. 1,646,101; Oct. 18.
- Orfan, John W., East Orange, N. J. Fuel for internal-combustion engines. 1,649,485; Nov. 15.
- Orem, Frederick S., Baltimore, Md. Air cleaner for automobiles and the like. 1,635,007; July 5.
- Orem, William. (See Davis, George M., assignor.)
- Orendorf, William A., Bloomington, Ill. Grain-dumping end gate for grain wagons. 1,634,793; July 5.
- Orlick, Ira P., Philadelphia, Pa. Charm or similar article. Des. 72,070; Feb. 22.
- Orling, Axel. (See Creed, F. G., and Orling.)
- Orlov, George, assignor to W. S. Thompson, Boston, Mass. Shoulder-strap holder. 1,647,811; Nov. 1.
- Orlowski, Ernest M., assignor of one-half to A. J. Schmitt, Milwaukee, Wis. Reinforced fabric for garment construction. 1,631,601; June 7.
- Orlowski, John D., Chicago, Ill. Window seat. 1,634,883; July 5.
- Orlovsky, Wassyl, Habana, Cuba. Life-saving device for submarine vessels. 1,642,127; Sept. 13.
- Oruan, Otto F. (See Harkins, James J., assignor.)
- Orme, Wilbur L., Cambridge, Ohio. Service tray for relish or the like. Des. 72,491; Apr. 19.
- Orme, Wilbur L., Cambridge, Ohio. Shaving compact. 1,643,431; Sept. 20.
- Orme, Wilbur, assignor to The Cambridge Glass Company, Cambridge, Ohio. Ash bowl. 1,650,382; Nov. 22.
- Ormlston, Perley L., Portland, Oreg. Drawing apparatus. 1,622,229; Mar. 22.
- Ormond, James B., Flagstaff, Ariz. Combination desk calendar and card-index tray or file. 1,641,600; Sept. 6.
- Ormsby, Edwin A., Melrose, Mass. Window. 1,650,880; Nov. 29.
- Ornamental Iron Products Co. (See Stiffel, Theophile A., assignor.)
- Orndoff, Herbert W., assignor to The E. V. Benjamin Company, Inc., New Orleans, La. Clipping machine. 1,653,729; Dec. 27.
- Orndorf, Cameron E., Johnstown, Pa. Attachment cord. 1,646,869; Oct. 25.
- Orndorf, James A., East Palestine, Ohio. Dipper-door latching and unlatching means. 1,629,634; May 24.
- Oron, Freeman, Dubuque, Iowa. Antenna construction. 1,644,286; Oct. 4.
- Ornoski, Stanley L., Throop, Pa. Three-way door lock. 1,637,127; July 26.
- Oro-Tone Co., The. (See Tures, William, assignor.)
- Orpen, William H., Brooklyn, N. Y. Apparatus for supporting vehicle load. 1,620,687; Mar. 15.
- Orr, Charles, Hayden, Ariz. Combined chair and stool. 1,618,220; Feb. 22.
- Orr, Elijah C., Seattle, Wash. Saw-tooth grinder. 1,620,165; Mar. 8.
- Orr, George C., Los Angeles, Calif. Sprinkling device. 1,649,179; Nov. 15.
- Orr, Harry A. (See Pike, Charles V., assignor.)
- Orr, Harry S., Alameda, Calif. Apparatus for detecting and extinguishing fires in the cargo spaces of vessels. 1,628,182; May 10.
- Orr, John S., Augusta, Ky. Sprocket chain. 1,642,459; Sept. 13.
- Orr, Samuel P. (See Horton, Dock G., assignor.)
- Orr, William, Memphis, Tenn. Sound-modifying means for transmitting and reproducing machines. 1,639,308; Aug. 16.
- Orr, William S., assignor, by mesne assignments, to Central Corporation, Massillon, Ohio. Mechanism for operating ore-bin gates. 1,624,177; Apr. 12.
- Orr, William V., assignor to The Azor Motor Manufacturing Company, Cleveland, Ohio. Windshield cleaner. 1,615,290; Jan. 25.
- Orren, Robert C., Moline, Ill. Rake. 1,628,994; May 17.
- Orrick, Charles E., Mount Vernon, Ill. Safety wheel guard. 1,623,849; Apr. 5.
- Orman, Hjalmar L., Dayton, Ohio. Tree-felling machine. 1,653,060; Dec. 20.
- Orsik, George, Wellington, Ohio. Collapsible umbrella. 1,616,276; Feb. 1.
- Örsdöm, Gustaf. (See Ekström, G. C., Örsström, and Johnson.)
- Orth, Joel, West Brownsville, Pa. Desk appliance. 1,615,230; Jan. 25.
- Orth, William G., assignor to Ohmer Fare Register Company, Dayton, Ohio. Adjustable figure wheel. 1,615,399; Jan. 25.
- Orth, William G., and C. H. Darst, assignors to Ohmer Fare Register Company, Dayton, Ohio. Taximeter. 1,615,291; Jan. 25.
- Orthman, Herman E., Lexington, Nebr. Cultivator. 1,622,968; Mar. 29.

- Ortiz-Escofot, Juan. (See Triann, André E. L. and R. J. A., and Ortiz-Escofot.)
- Ortleb, Douglas B. (See Ortleb, George and D. B.)
- Ortleb, George and D. B., St. Louis, Mo. Combined agitator and ink distributor for inking fountains of printing machines. 1,615,769; Jan. 25.
- Orloff, Abner, Melham, and Gutman. Self-supporting carriage body for motor-driven vehicles. 1,634,433; July 5.
- Orton Crane and Shovel Company. (See Orton, Philo A., assignor.)
- Orton, Ole J. (See Hustad, Matias M., assignor.)
- Orton, Philo A., Chicago, Ill., assignor to Orton Crane and Shovel Company, Huntington, Ind. Dipper-operating mechanism for excavating machines. 1,622,239; Mar. 22.
- Ortseisen, Adolph J., Chicago, Ill. Lock for air valves of heating systems. 1,613,844; Jan. 11.
- Orwile, Lewis, St. Louis, Mich. Antislip drill-rod device. 1,620,913; Mar. 15.
- Orzo, Alfonso, New York, N. Y. Cosmetic jar. Des. 72,240; Mar. 15.
- Osann, Frederick, Company. (See Lyons, Robert L., assignor.)
- Osann, Frederick, Company. (See Sibbald, C. T. A., and Ransom, assignors.)
- Osanni, Gabriello, Cheshire, Mass. Spiral pull jack. 1,654,011; Dec. 27.
- Osebeck, Elmer C., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. 1,619,752; Mar. 1.
- Osborn, Arthur W., Philadelphia, Pa., assignor to The White Company, Cleveland, Ohio. Dumping vehicle. 1,619,628; Mar. 1.
- Osborn, Frank S., Shinglehouse, Pa. Window-pane fastener. 1,637,950; Aug. 2.
- Osborn, Fred M., Los Angeles, Calif. Aircraft collecting device. 1,640,667; Aug. 30.
- Osborn, Fred P. (See Fieger, D. P., and Osborn.)
- Osborn, George W., Cleveland, Ohio. Single-wall reinforced high-pressure float. 1,653,966; Dec. 27.
- Osborn, Harold C., Chicago, Ill. Illuminated sign. 1,620,856; Mar. 8.
- Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Addressing machine. 1,623,266; Apr. 5.
- Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Address plate. 1,628,630; May 10.
- Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Identification means for address plates. 1,628,631; May 10.
- Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Receptacle for address plates. 1,637,498; Aug. 2.
- Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Platen release for printing presses. 1,638,506; Aug. 9.
- Osborn, Howard H., assignor to H. G. Fischer & Co., Chicago, Ill. Electric switch. 1,616,277; Feb. 1.
- Osborn, Howard H., assignor to H. G. Fischer & Company, Chicago, Ill. Spark gap. 1,634,627; July 5.
- Osborn, J. E., et al. (See Nesmith, Samuel D., assignor.)
- Osborn, Lemou L., Los Angeles, Calif. Hydrodynamic power machine. 1,624,115; Apr. 12.
- Osborn Manufacturing Company, The. (See Carman, E. S., and Curtis, assignors.)
- Osborn Manufacturing Company, The. (See Curtis, Edward E., assignor.)
- Osborn, Milton, Wayne City, Ill. Stovepipe seam. 1,616,331; Feb. 1.
- Osborn, Mrs. Kathryn, et al. (See Nesmith, Samuel D., assignor.)
- Osborn, Warren M., Chicago, Ill. Rail chair. Re16,592; Apr. 12.
- Osborne, Albert E. (See Pitter, Walter C., assignor.)
- Osborne, David H., Victor, N. Y., assignor to Locks Insulator Corporation, Baltimore, Md. Insulator. 1,650,024; Nov. 22.
- Osborne, Fay H., assignor to C. H. Dexter & Sons, Incorporated, Windsor Locks, Conn. Paper for preventing tarnishing of polished metals. 1,628,610; May 10.
- Osborne, Harold S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Radio direction-finding system. 1,615,913; Feb. 1.
- Osborne, Howard C. (See Servoss, Willard S., assignor.)
- Osborne, John E. (See Harrison, Arthur W., assignor.)
- Osborne, John L. (See Buchanan, G. H., and Osborne.)
- Osborne, Raymond, and C. F. Miller, assignors to The National Marking Machine Company, Cincinnati, Ohio. Type-wheel-aligning device for marking machines. 1,644,144; Oct. 4.
- Osborne, Robert L., Mount Clemens, assignor to Dongan Electric Manufacturing Co., Detroit, Mich. Transformer. 1,639,662; Aug. 23.
- Osborne, Warren M., Chicago, Ill. Rail anchor. 1,612,878; Jan. 4.
- Osborne, Warren M., Chicago, Ill. Rail anticreep. 1,612,879; Jan. 4.
- Osborne, William, jr., Philadelphia, Pa. Bathing suit. 1,637,157; July 26.
- Osborne, William L., assignor of one-half to A. R. Chandler, Los Angeles, Calif. Apparatus for cleaning crank cases. 1,633,283; June 21.
- Osean, Charles, Woodcliff, N. J., assignor to National Carbon Company, Inc. Flash light. Des. 73,192; Aug. 2.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Rock-drilling mechanism. 1,651,451; Sept. 6.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Rock-drilling mechanism. 1,650,383; Nov. 22.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Core drill. 1,650,384; Nov. 22.
- Osgood Company, The. (See Barnhart, Harry J., assignor.)
- Osgood, Fred A. (See Keezer, I. M., and Osgood.)
- Osgood, George H., Tacoma, Wash. Driven pressure bar for veneer machines. 1,641,452; Sept. 6.
- Osgood, Henry B., Oshkosh, Wis. Trunk lock. 1,629,725; May 2.
- Osgood, Louis A., Dayton, Ohio, assignor, by mesne assignments, to International Scale Company. Scale. 1,614,681; Jan. 18.
- Osgood, Louis A., assignor, by mesne assignments, to International Scale Company, Dayton, Ohio. Portable scale. 1,626,961; May 3.
- Osgood, Louis A., Dayton, and E. E. Wolf, Springfield, assignors to International Scale Company, Dayton, Ohio. Scale. 1,614,682; Jan. 18.
- Osgood, Louis A., Dayton, and E. E. Wolf, Springfield, Ohio, by mesne assignments, to International Scale Company. Weighing scale. 1,620,125; Mar. 8.
- Osgood, Louis A., Dayton, and E. E. Wolf, Springfield, assignors to International Scale Company, Dayton, Ohio. Weighing scale. 1,626,963; May 3.
- Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,644,943; Oct. 11.
- Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Blower mechanism. 1,654,485; Dec. 27.
- Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Combined taping and marking machine. 1,646,212; Oct. 18.
- O'Shea, Thomas F., Chicago, Ill. Golf scoring device. 1,614,850; Jan. 18.
- Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
- Osius, Frederick J., Miami Beach, Fla., assignor to Hamilton-Beach Mfg. Co., Racine, Wis. Vacuum cleaner. 1,624,959; Apr. 13.
- Oslund, Charles H., and J. E. Johnson, assignors to O & J Machine Company, Worcester, Mass. Spotting and labeling machine. 1,641,045; Aug. 30.
- Osnos, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches Ufer 12/13, Berlin, Germany. Arrangement for eliminating disturbing waves in radiofrequency circuits. 1,621,998; Mar. 22.
- Osnos, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches, Berlin, Germany. Circuit arrangement for high-frequency sending stations. 1,624,005; Apr. 12.
- Osnos, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches, Berlin, Germany. Frequency changer for short waves. 1,624,005; Apr. 12.
- Osnos, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches, Berlin, Germany. Circuit arrangement for high-frequency sending stations. 1,645,542; Oct. 18.
- Osnos, Mendel, and L. Kasarnowsky, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Wireless signaling. 1,624,005; Apr. 12.
- Osolin, Alfred, Cleveland, Ohio. Bottling apparatus. 1,640,032; Oct. 25.
- Ostard, Joseph, Cincinnati, Ohio. Aircraft safety device. 1,630,211; May 24.
- Östberg, Karl G., Stocksund, Sweden. Advertising apparatus. 1,619,987; Mar. 8.
- Ostdek, Henry S., Lawrence, Nebr. Tractor wheel. 1,630,025; May 24.
- Osten, Joseph W., Chicago, Ill., assignor, by mesne assignments, to Auto Fabric Products, Inc. Automobile winter top. 1,617,542; Feb. 15.
- Osterberg, Maurits, and W. Modesto, Calif. One way clutch. 1,614,895; Jan. 18.
- Osterberg, William. (See Osterberg, Maurits and W.)
- Osterholm, William C., Oak Park, Ill., assignor to Wilcox Products Corporation, Saginaw, Mich. Valve tappet and forming the same. 1,650,644; Nov. 29.
- Osterholm, William C., Oak Park, Ill., assignor to Wilcox Products Corporation, Saginaw, Mich. Valve tappet and forming the same. 1,650,645; Nov. 29.
- Osterhout, George H., jr., Beaumont, S. C. Fountain pen. 1,640,582; Nov. 1.
- Osterlin, August F., St. Paul, Minn. Type cylinder for rotary presses. 1,614,801; Jan. 18.
- Osterloo, Arthur. (See Pitt, F. D., and Osterloo.)
- Osterman, Samuel, New York, N. Y. Battery connection. 1,651,726; Dec. 6.
- Ostermann, Henry, Chicago, Ill. Toaster. 1,632,192; June 14.
- Osthoff, Max, Cottbus, Germany. Movement of vehicles. 1,646,310; Oct. 18.

- Ostler, Ernest S., assignor to Stromberg Electric Company, Chicago, Ill. Noiseless clock mechanism. 1,616,465; Feb. 8.
- Ostler, Ernest S., assignor to Stromberg Electric Company, Chicago, Ill. Noiseless clock mechanism. 1,623,266; Apr. 5.
- Osthine, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Service observing equipment for telephone systems. 1,641,453; Sept. 6.
- Ostman, John W., Minneapolis, Minn. Tool spindle for wood shapers. 1,644,442; Oct. 4.
- Ostrander, Allen E., Bronxville, assignor to American Cady and Cundy Company, New York, N. Y. Card-end construction. 1,631,327; June 7.
- Ostrander, Charles L. (See Lichty, N. A. and Ostrander.)
- Ostrander, Charles L., assignor of one-half to N. A. Lichty, Waterloo, Iowa. Gasoline clarifier. 1,646,102; Oct. 18.
- Ostrander, Lewis F., Milwaukee, Wis. Vent valve. 1,637,358; July 26.
- Ostro Products Corporation of America. (See Ostromi-
slensky, Iwan, assignor.)
- Ostroff, Sidney, Lowell, Mass. Gas mixer. 1,626,423; Apr. 26.
- Ostrom, Cameron W., Brewster, Wash. Tire signal. 1,634,553; July 5.
- Ostromiulensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Manufacturing plastic compositions and products obtained thereby. 1,613,673; Jan. 11.
- Ostromiulensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Obtaining colored polymerized styrol and its homologues and products obtained thereby. 1,613,674; Jan. 11.
- Ostromiulensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Obtaining colored polymerized styrol and its homologues and products obtained thereby. 1,627,195; May 3.
- Ostromiulensky, Iwan, Locust Point, assignor to Ostro Products Corporation of America, Jersey City, N. J. Medical preparation containing arsenic and making the same. 1,644,343; Oct. 4.
- O'Stroke, Frank J., Columbus, Ohio. Valve. 1,616,386; Feb. 1.
- Ostrosky, Joseph, Jr., Duryen, Pa., and P. Ostrosky, Detroit, Mich. Window fastener. 1,619,031; Mar. 1.
- Ostrosky, Paul. (See Ostrosky, Joseph, Jr., and P.)
- Oswald, Walter, assignor to Benzol-Verband Gesellschaft mit beschränkter Haftung, Bochum, Germany. Alcohol, alcohol-containing mixtures, and similar liquids. 1,644,267; Oct. 4.
- O'Sullivan, Michael J., Los Angeles, Calif. Foot-measuring device. 1,636,754; July 26.
- O'Sullivan, St. John, San Juan Capistrano, Calif. Sundial. 1,651,621; Dec. 6.
- Oswald, Adolph W. (See Jacques, Jean, assignor.)
- Oswald, Adolph W. (See Jacques, J., and Oswald.)
- Oswald, Adolph W., assignor of one-half to J. Jacques, Philadelphia, Pa. Closure for filler openings. 1,637,108; May 31.
- Oswald, Alfred E., Hackensack, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Electric motor. 1,641,548; Sept. 6.
- Oswald, Arthur A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulation indicator. 1,654,090; Dec. 27.
- Oswald, Arthur A., and E. L. Nelson, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Antenna structure. 1,632,039; June 14.
- Oswald, Earl P., Detroit, Mich., assignor, by mesne assignments, The Hoover Company, North Canton, Ohio. Electromagnetic switch. 1,625,820; Apr. 26.
- Oswald, Franklin L. (See Morrison, R. A., and Oswald.)
- Oswald, Hermann L., et al. (See Lomax, John L., assignor.)
- Otake Fabric Company. (See Lorenz, William A., assignor.)
- Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company, Furnace. 1,646,213; Oct. 18.
- Otis Elevator Company. (See Anderson, John N., assignor.)
- Otis Elevator Company. (See Brady, Thomas, assignor.)
- Otis Elevator Company. (See Goebert C., and Kugler, assignors.)
- Otis Elevator Company. (See Grosvenor, Graham B., assignor.)
- Otis Elevator Company. (See Hymans, Frederick, assignor.)
- Otis Elevator Company. (See Lewis, J. D., and Pinto, assignors.)
- Otis Elevator Company. (See Lindquist, D. L., Dunn, and Larson, assignors.)
- Otis, Howard S., Jamesville, Wis. Barber shears. 1,623,130; Apr. 5.
- Otis, John F., Oswego, N. Y. Steam generator. 1,627,450; May 3.
- Otis, Spencer, assignor to The Locomotive Terminal Improvement Company, Chicago, Ill. Apparatus for changing the water in boilers. 1,622,339; Mar. 29.
- Otis, Spencer, Barrington, assignor to The Locomotive Terminal Improvement Company, Chicago, Ill. Automobile bumper. 1,633,603; June 28.
- O'Toole, Edward, Gary, W. Va. Rotary screen. 1,617,688; Feb. 15.
- O'Toole, Edward, Gary, W. Va. Mining-machine tool. 1,634,434; July 5.
- O'Toole, Edward, Gary, W. Va. Mining and loading machine. 1,638,507; Aug. 9.
- O'Toole, James E. (See Billings, R. B., and O'Toole.)
- O'Toole, John, Los Angeles, Calif. Windmill. 1,618,549; Feb. 22.
- O'Toole, John J., Pittsburgh, Pa. Tobacco-pipe attachment. 1,628,059; May 10.
- O'Toole, John J., Bellevue, Pa. Floor mat. 1,633,951; June 28.
- Ott, Albert J., and C. L., assignors to American Grinder Company, Detroit, Mich. Indexing mechanism. 1,644,540; Oct. 4.
- Ott, Conrad L. (See Ott, Albert J. and C. L.)
- Ott, Harry G., assignor to Spencer Lens Company, Buffalo, N. Y. Vertical illuminator for microscopes. 1,637,948; Aug. 2.
- Ott, Harvey N., assignor to Spencer Lens Co., Buffalo, N. Y. Binocular microscope. 1,650,646; Nov. 29.
- Ott, John. (See Cadwell, W. H., Ott, and Crocker.)
- Ott, Richard B. (See Brady, J. F., and Ott.)
- Otto, Otto M., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Ham boiler. 1,642,168; Sept. 13.
- Otte, Otto M., Tarentum, assignor, by mesne assignments, to Allegheny Steel Company, Brackenridge, Pa. Making sheets. 1,651,222; Nov. 29.
- Otte, Wilhelm, Breslau, Germany. Magnesium lamp. 1,654,012; Dec. 27.
- Otten, Lawrence F., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Strap buckle. 1,643,083; Sept. 20.
- Ottenheimer Bros. Inc. (See Ottenheimer, Jacob B., assignor.)
- Ottenheimer, Jacob B., assignor to Ottenheimer Bros., Inc., Baltimore, Md. Refrigerator. 1,631,883; June 7.
- Ottensener Waagenfabrik Albert Essmann & Co., The. (See Essmann, Heinrich A., assignor.)
- Otterson, George W., Toronto, Ontario, Canada, assignor of four-fifths to A. Otterson, Seattle, Wash., and one-fifth to J. F. Brandenburg, New York, N. Y. Loading device for motor trucks. 1,635,338; July 12.
- Otterson, Lissa A., et al. (See Otterson, George W., assignor.)
- Ottinger, Leon, New York, N. Y. Locking means for door latches. 1,639,103; Aug. 16.
- Ottinger, Leon, New York, N. Y. Mounting for latch handles. 1,641,988; Sept. 13.
- Ottinger, Leon, New York, N. Y. Game-scoring device. 1,642,382; Sept. 13.
- Ottinger, Leon, New York, N. Y. Tool. 1,648,189; Nov. 8.
- Ottman, Leon, New York, N. Y., assignor to Emory G. Simpson, Detroit, Mich. Cowl ventilator for automobiles. 1,639,309; Aug. 16.
- Otto, Arno F., Milwaukee, Wis. Sheet-metal window screen. 1,646,832; Oct. 25.
- Otto, Carl, Bochum, Germany. Vertical-chamber oven. 1,619,535; Mar. 1.
- Otto, Clemens, Unterluss, assignor to the Firm Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Gun-sighting device. 1,636,763; July 12.
- Otto, Edgar W., Los Angeles, Calif. Bookbinder. 1,640,850; Aug. 30.
- Otto, Milo, W. Va. assignor to The Larimer Company, Aurora, Ill. Rake. 1,614,385; Jan. 11.
- Otto, Stuart, Wilton, Conn., and J. C. Jankus, Scranton, Pa., assignors to Iceless Automatic Refrigerator Company, Evaporator for refrigerating apparatus. 1,647,973; Nov. 22.
- Otto, Stuart, Wilton, Conn., and J. C. Jankus, Scranton, assignors to Gas Refrigeration Corporation, Scranton, Pa. Evaporator for refrigerating apparatus. 1,649,974; Nov. 22.
- Ottumwa Box Car Loader Company. (See Phillips, H., and Hunt, assignors.)
- Ottwell, Ralph E., Detroit, Mich. Street-cleaning attachment for tractors. 1,648,056; Nov. 8.
- Oubridge, William A., Coventry, England. Lapping machine. 1,623,697; Apr. 5.
- Ouchle, Elmer L., North Tonawanda, assignor to Rand Kardel, Bureau, Inc., Tonawanda, N. Y. Filing device. 1,635,859; July 12.
- Onellet, Louis G., St. Anaclet, Quebec, Canada. Coaster brake. 1,629,296; May 17.
- Ouellette, Alphonse, Fall River, Mass. Intermittent feeler mechanism for looms. 1,623,491; Apr. 5.
- Ouellet, Edward J., Anaconda, Mont. Feeding ore elevators. 1,613,122; Jan. 4.
- Oulton, Daniel L., Everett, Mass., assignor to Oulton Manufacturing Corporation. Safety cranking device for internal-combustion motors. 1,626,209; Apr. 26.
- Oulton, Daniel L., Everett, Mass., assignor to Oulton Manufacturing Corporation. One-way clutch. 1,629,585; May 24.
- Oulton, Daniel L., Everett, Mass., assignor to Oulton Manufacturing Corporation. Pneumatically-actuated tool. 1,652,493; Dec. 13.
- Oulton Manufacturing Corporation. (See Oulton, Daniel L., assignor.)

- Our Sales and Service Company. (See Gies, Frank G., assignor.)
- Oursler, Howard B. (See Taylor, James S., assignor.)
- Outcell, Henry J., Warsaw, Ind. Internal-combustion engine. 1,627,403; May 3.
- Outhier, Marcel, Paris, assignor to Societe Anonyme des Etablissements Kiblok, Levallois-Perret, France. Nut lock. 1,627,404; May 3.
- Outlook Company, The. (See Lippert, Samuel, assignor.)
- Outlook Manufacturing Company, The. (See Lippert, Samuel, assignor.)
- Out of The Inkwell Films, Inc. (See Fleischer, Max, assignor.)
- Ovaite, David W., Flint, Mich. Telephone stand. 1,645,253; Oct. 11.
- Oven Equipment & Manufacturing Company, The. (See Crawford, Emerick B., assignor.)
- Oven, Frank J., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. Gasket. 1,626,962; May 3.
- Ovenshire, Charles E., et al. (See Guenther, Bernard B., assignor.)
- Ovenshire, Charles E., et al. (See Ovenshire, Hattie R., assignor.)
- Ovenshire, Hattie R., assignor of one-third to C. E. Ovenshire and one-third to D. Dee, Minneapolis, Minn. Garment supporter. 1,644,200; Oct. 4.
- Overbeck, Otto G. C., Jr., Grimsby, England. Electric body comb. 1,638,407; Aug. 9.
- Overbeck, Wilhelm, Jr., Bochum, Germany. Guard for motor cars against road obstructions. 1,614,856; Jan. 18.
- Overbeke Brothers. (See Overbeke, John, assignor.)
- Overbeke, John, assignor to Overbeke Brothers, Cleveland, Ohio. Preparing waistbands and the like. 1,651,039; Nov. 29.
- Overboe, Ellert H., Wanamingo, and M. I. Greseth, Zumbrota, Minn. Strainer and cover for pails. 1,645,818; Oct. 18.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. 1,627,665; May 10.
- Overdick, William, Brooklyn, N. Y. Steering gear. 1,633,415; June 21.
- Overen, Henry, assignor to The King-Keys Advertising Company, Seattle, Wash. Electrical cigar lighter. 1,630,465; Aug. 16.
- Overholt, Albert L., Minneapolis, Minn., assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah. Towel holder. 1,643,084; Sept. 20.
- Overland Metal Novelty Co. Inc. (See Konoff, Alexander, assignor.)
- Overlander, Jacob A., New York, N. Y. Pneumatic tire valve. 1,649,321; Nov. 15.
- Overman, George W. P., Norfolk, Va. Lifeboat securing and releasing mechanism. 1,631,053; May 31.
- Overman, George W. P., Norfolk, Va. Lifeboat holding and launching mechanism. 1,635,860; July 12.
- Overman, Max C., New York, N. Y., assignor to O. & W. Company. Cushion tire. 1,618,128; Feb. 15.
- Overman, Max C., New York, N. Y., assignor to O. & W. Company. Cushion tire. 1,618,129; Feb. 15.
- OverSmith, Clarence D., Boston, Mass. Advertising display case. Des. 71,886; Jan. 18.
- Overstrom, George. (See Overstrom, Gustave A. and G.)
- Overstrom, Gustave A., Pasadena, Calif. Vibrating screen. 1,621,949; Mar. 22.
- Overstrom, Gustave A., Los Angeles, and G. Overstrom, Taft, Calif. Gas and oil separator. 1,632,919; June 21.
- Overton, Bert. (See Overton, William H., assignor.)
- Overton, Booker L., Shreveport La., and F. L. Overton, Houston, Tex. Combined receptacle and illuminated sign. 1,645,870; Oct. 18.
- Overton, Fitzhugh L. (See Overton, Booker L. and F. L.)
- Overton, John H., Trenton, N. J. Spraying device. 1,641,778; Sept. 6.
- Overton, Lester E., Baltimore, Md. Tobacco-smoking pipe. 1,618,776; Feb. 22.
- Overton, William H., assignor of one-tenth to B. Overton, Swanwick, Ill. Electric gas switch. 1,630,212; May 24.
- Orvington, Edward J., Newton, Mass. Making tea-balls tags. 1,642,307; Sept. 13.
- Ovren, John E., assignor of one-half to B. J. Lozan Mayhugh, Wis. Transmission mechanism. 1,627,106; May 3.
- Ow, Joseph W. W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lifting truck for circuit-breaker tanks. 1,624,361; Apr. 12.
- Owen Card Publishing Co. Inc. (See Baker, Harry L., assignor.)
- Owen, Charles E. (See Hodges, B. D., and Owen.)
- Owen, David T., and W. G. Lehmann, Cleveland, Ohio; said Lehmann assignor to said Owen. Spring cushion, mattress, seat, and bed. 1,637,584; Aug. 2.
- Owen-Dyneto Corporation. (See Perkins, Laurence M., assignor.)
- Owen-Dyneto Corporation. (See Sayre, Gordon B., assignor.)
- Owen, Francis E., Romford, England. Screw-down valve. 1,618,844; Feb. 22.
- Owen, Frederick C., Fayetteville, N. C. Transformer for electric-arc cutting, repairing, and welding apparatus. 1,619,629; Mar. 1.
- Owen, Frederick C., Fayetteville, N. C. Transformer for electric-arc-welding apparatus. 1,619,753; Mar. 1.
- Owen, Frederick C., Fayetteville, N. C. Transformer for electric-arc cutting, repairing, and welding apparatus. 1,634,959; July 5.
- Owen, Frederick C., Fayetteville, N. C. Transformer for electric-arc cutting and welding apparatus. 1,637,237; July 26.
- Owen, Frederick C., Fayetteville, N. C. Electrical transformer. 1,637,238; July 26.
- Owen, Frederick C., Fayetteville, N. C. Transformer for electric arc cutting and welding apparatus. 1,644,604; Oct. 4.
- Owen, Frederick C., Fayetteville, N. C. Transformer for electric-arc cutting and welding apparatus. 1,647,928; Nov. 1.
- Owen, Frederick C., Fayetteville, N. C. Transformer for electric-arc cutting and welding apparatus. 1,651,223; Nov. 29.
- Owen, Frederick C., Fayetteville, N. C. Metallic-arc-welding apparatus. 1,654,382; Dec. 27.
- Owen, Harry L., Okmulgee, Okla. Variable counterweight for pumping apparatus. 1,644,393; Oct. 4.
- Owen, Herbert V. (See Frechett, G. and Owen.)
- Owen, Ira J., assignor, by mesne assignments, to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweeper. 1,614,683; Jan. 18.
- Owen, Ira J., assignor, by mesne assignments, to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Electric rotation sweeper. 1,639,959; Aug. 23.
- Owen, Ira J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Adjustable handle structure for vacuum cleaners. 1,652,289; Dec. 13.
- Owen, Ira J., and B. J. Bouwmeester, assignors, by mesne assignments, to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Handle socket for carpet sweepers. 1,621,080; Mar. 15.
- Owen, John H., assignor of one-third to T. N. Crocker and one-third to B. V. Chapman, Newberry, S. C. Stop motion for roving machines. 1,633,284; June 21.
- Owen, Joseph, Newark, N. J. Hoisting device. 1,642,383; Sept. 13.
- Owen, Raymond V., assignor to The Edwin F. Guth Company, St. Louis, Mo. Globe for lighting fixtures. Des. 73,538; Sept. 27.
- Owen, Raymond V., assignor to The Edwin F. Guth Company, St. Louis, Mo. Globe for lighting fixtures. Des. 73,862; Nov. 15.
- Owen, Raymond V., assignor to The Edwin F. Guth Company, St. Louis, Mo. Globe for lighting fixtures. Des. 73,863; Nov. 15.
- Owen, Raymond V., assignor to The Edwin F. Guth Company, St. Louis, Mo. Globe for lighting fixtures. Des. 73,864; Nov. 15.
- Owen, Richard L. (See Babel, E. H., and Owen.)
- Owen, Sidney, Phoenix, Ariz. Framing tool and bevel protractor. 1,616,820; Feb. 8.
- Owen, Tom M., Wallace, and M. P. Dalton, Mullan, Idaho. Flotation apparatus. 1,624,559; Dec. 12.
- Owen, Tom M., Wallace, and M. P. Dalton, Mullan, Idaho. Flotation apparatus. 1,631,382; June 7.
- Owen, Vaux, Atlanta, Ga. Fastener. 1,644,541; Oct. 4.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Blank-feeding device. 1,631,150; June 21.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making reinforced glass tile. 1,644,349; Oct. 4.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Plate-glass-surfacing apparatus. 1,651,224; Nov. 29.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Multiple-groove-dressing device for abrasive wheels. 1,651,225; Nov. 29.
- Owen, William O., Washington, D. C. Blasting. 1,627,991; May 10.
- Owens Bottle Company, The. (See Bragg, Thomas A., assignor.)
- Owens Bottle Company, The. (See Cramer, Albert N., assignor.)
- Owens Bottle Company, The. (See La France, Richard, assignor.)
- Owens Bottle Company, The. (See Lents, John M., assignor.)
- Owens Bottle Company, The. (See Owens, Michael J., assignor.)
- Owens Bottle Company, The. (See Rule, John F., assignor.)
- Owens Bottle Company, The. (See Souhier, Leonard D., assignor.)
- Owens, Charles, Chattanooga, Tenn. Gas generator. 1,613,123; Jan. 4.
- Owens, Charles, Chattanooga, Tenn. Cracking oil. 1,613,124; Jan. 4.
- Owens, Dabney P., Lake Worth, Fla. Universal joint. 1,623,399; Apr. 5.
- Owens, Dabney P., Lake Worth, Fla. Fixed housing for universal connections. 1,623,200; Apr. 5.
- Owens, Dabney P., Lake Worth, Fla. Cutter. 1,623,201; Apr. 5.
- Owens, Dabney P., Lake Worth, Fla. Angle screw driver and attachment. 1,628,553; May 10.
- Owens, John G., assignor of one-fourth to R. C. Holman, Owens, Dabney P., and one-fourth to J. T. Rice, Columbia, S. C. Hay remover and weigher for hay presses. 1,621,807; Mar. 22.

- Owens, John J., Blacksburg, Va. Dishwashing machine. 1,634,038; June 28.
- Owens, John L., Minneapolis, Minn. Huller and scarifier. 1,627,248; May 2.
- Owens, Michael J., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,634,082; Jan. 11.
- Owens, Michael J., deceased; J. H. McNeerney, J. C. Blair, and H. O. Beesch, administrators, assignors to The Owens Bottle Company, Toledo, Ohio. Apparatus for guiding and conveying hot glassware. 1,626,747; May 3.
- Owens, Michael J., deceased; J. H. McNeerney, J. C. Blair, and H. O. Beesch, administrators, assignors to The Owens Bottle Company, Toledo, Ohio. Bottle-transfer mechanism. 1,626,748; May 3.
- Owens, Patrick E., Union Center, Wis. Wrench. 1,636,818; July 19.
- Owens, Thomas W., Wesleyville, Pa. Reversible hame tug. 1,615,477; Jan. 25.
- Owens, William T. (See Udstad, S., and Owens.)
- Owey, Harry K., Lovelocks, Nv. Game. 1,624,970; Apr. 19.
- Oxart, Domingo, Los Angeles, Calif. Vending machine. 1,640,851; Aug. 30.
- Oxford Paper Company. (See Sorensen, Einar, assignor.)
- Oxford Press Incorporated. (See Jenner, George O., assignor.)
- Oxford Varnish Corporation. (See Lang, George E., assignor.)
- Orbandler, Leopold, Chicago, Ill. Cushioning and filler-locking flat. 1,626,870; May 3.
- Orley, George H. (See Hirst, Arthur, assignor.)
- Oswald Acetylene Company. (See Kehl, Robert J., assignor.)
- Oxley Company. (See Diaz, E., and Englander, assignors.)
- Oyama, Senzo, Hilo, Hawaii. Pasteurizing apparatus. 1,640,289; Aug. 23.
- Oyler, Kimball, Los Angeles, Calif., assignor to The Good-year Tire & Rubber Company, Akron, Ohio. Calendar knife. 1,637,784; Aug. 2.
- Oyston, William R., Sydney, New South Wales, Australia. Collapsible baby carriage. 1,620,281; Mar. 8.
- P. H. & F. M. Roots Company, The. (See Friend, Roydon L., assignor.)
- P & M Company, The. (See Cook, Adoniram J., assignor.)
- P & M Company, The. (See Moore, Philip W., assignor.)
- P & M Company, The. (See Preston, Frederick A., assignor.)
- P & M Company, The. (See Warr, Harold G., assignor.)
- Pasche, Jens A., Wilmette, Ill. Air brush and the like. 1,638,559; Aug. 9.
- Pasche, Jens A., Clinton, Iowa. Upholstering device. 1,619,754; Mar. 1.
- Pabodie, Robert J., Maywood, Ill., assignor to The Griscum Russell Company, New York, N. Y. Subcooling condenser. 1,625,821; Apr. 26.
- Pabst Corporation. (See Eldridge, Elmer E., assignor.)
- Pabst, Josef, Zurich, Switzerland. Cuff link. 1,617,269; Feb. 8.
- Pabst, Josef, Zurich, Switzerland. Cloth holder. 1,652,952; Dec. 13.
- Pace, James H., Scottsdale, Ga. Controlling device for motor vehicles. 1,641,779; Sept. 6.
- Pacent Electric Company. (See Goudy, Carl F., assignor.)
- Pacent, Louis G. (See Decker, Frank A., assignor.)
- Pache, Auguste. (See Gouillard, R., and Pache.)
- Pache, Julia, administratrix. (See Gouillard, R., and Pache.)
- Pacher, Franz, Dusseldorf-Rath, Germany. Case-hardening process for steel articles. 1,635,384; July 12.
- Pacific Burt Company. (See Brown, Horace P., assignor.)
- Pacific Cast Iron Pipe & Foundry Company. (See Drummond, Robertson P., assignor.)
- Pacific Coast Borax Company. (See Cramer, T. M., and Connell, assignors.)
- Pacific Door and Sash Company. (See Nelson, Eric, assignor.)
- Pacific Fire Extinguisher Co. (See Mollard, Thomas A., assignor.)
- Pacific Gas Radiator Company. (See Spangler, Archie L., assignor.)
- Pacific Lumber Company, The. (See Humboldt, Elie S., assignor.)
- Pacific National Co. (See Hamilton, James T., assignor.)
- Pacific Pump Works. (See Weis, Arthur R., assignor.)
- Pacific Radiator Shield Company. (See King, David H., assignor.)
- Pacific Rim Tool Company. (See Kennedy, John A., assignor.)
- Pacific-Southwest Trust & Savings Bank, administrator. (See Green, Henry M.)
- Pacific-Southwest Trust & Savings Bank, trustee. (See Curtis, Thomas S., assignor.)
- Pacific Spring Company. (See Stackhouse, George A., assignor.)
- Package Machinery Company. (See Smith, E. L., and Fuller, assignors.)
- Package Machinery Company. (See Smith, E. L., and Phelon, assignors.)
- Packard, Clarence E., Abilene, Kans. Dump-body vehicle. 1,625,496; Apr. 19.
- Packard, Horace N., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Indicating and also recording various values. 1,614,535; Jan. 18.
- Packard, Horace N., assignor to The Cutler-Hammer Mfg. Co., Wauwatosa, Wis. Method and means for determining the heating value of combustible gases. 1,625,277; Apr. 19.
- Packard, Ivan, Detroit, Mich. Transmission mechanism. 1,613,190; Jan. 4.
- Packard, Lester E., Brockton, assignor to Avon Sole Company, Avon, Mass. Shoe sole or heel. 1,644,855; Oct. 11.
- Packard Motor Car Company. (See Andrew, F. W., and Tibbetts, assignors.)
- Packard Motor Car Company. (See Bentley, Mark, assignor.)
- Packard Motor Car Company. (See Church, Harold D., assignor.)
- Packard Motor Car Company. (See Corker, Joseph E., assignor.)
- Packard Motor Car Company. (See Ewend, Walter H., assignor.)
- Packard Motor Car Company. (See Griswold, Walter R., assignor.)
- Packard Motor Car Company. (See Hamner, Jacob, assignor.)
- Packard Motor Car Company. (See Kline, Harmon J., assignor.)
- Packard Motor Car Company. (See Knapp, Archer L., assignor.)
- Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
- Packard Motor Car Company. (See Pierson, Robert M., assignor.)
- Packard Motor Car Company. (See Roberts, Edward F., assignor.)
- Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
- Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
- Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
- Packards & James Fison (Theftford) Ltd. (See Maudsley, Richard T., assignor.)
- Packer, Nolen R., New Rochelle, assignor to I. & C. Company, New York, N. Y. Guard-rail structure. 1,639,232; Aug. 16.
- Packer, Eldridge H., San Francisco, Calif. Piston ring. 1,624,279; Apr. 12.
- Packer, Glenn W., assignor to Goodman Manufacturing Company, Chicago, Ill. Trolley support. 1,644,268; Oct. 11.
- Packer, Glenn W., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper. 1,644,269; Oct. 4.
- Packer, John M. (See Williams, Henry G., assignor.)
- Packer, Mortimer L., Columbus, Ohio. Heater. Des. 73,008; Mar. 1.
- Packer, William H., Columbus, Ohio. Stop-door hinge fixture. 1,645,114; Oct. 11.
- Packman, Percival J., et al. (See Turner F. J., and Starek, assignors.)
- Paczold, Iona, et al. (See Balogh, Louis, assignor.)
- Paczold, Iona, et al. (See Balogh, Louis, assignor.)
- Pacquet, René, Paris, France. Spreading and stretching device for the treatment of fur skins. 1,642,214; Sept. 13.
- Paequin, Inc. (See Pogue, George D. and W. V., assignors.)
- Pacz, Aladar, East Cleveland, Ohio. Metallic article. 1,614,684; Jan. 18.
- Pacz, Aladar, East Cleveland, Ohio. Method and composition of matter for surface-treating aluminum. 1,638,273; Aug. 9.
- Pacz, Aladar, East Cleveland, Ohio, assignor to General Electric Company. Extraction of metals and their compounds from ores and impure materials. 1,614,149; Jan. 11.
- Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Alloy filament. 1,635,055; July 5.
- Padbury, John J., Barre, Vt. Bush hammer. 1,634,298; July 5.
- Pade, Max H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Device for testing inflatable articles. 1,622,252; Mar. 22.
- Paden City Glass Manufacturing Company. (See Fisher, David, assignor.)
- Padon, William L., Saginaw, Mich. Combined cash register and adding machine. 1,628,420; May 10.
- Padgett, Powell D., assignor of one-half to E. G. McCord, Atlanta, Ga. Drinking attachment. 1,629,358; May 17.
- Padolsky, Bessie, Philadelphia, Pa. Pad for infants. 1,637,088; July 26.
- Paeplow, Charles H., Buffalo, N. Y. Curing rubber hose and the like. 1,622,340; Mar. 29.
- Paff, George A., Portsmouth, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Wire reel. 1,647,715; Nov. 1.
- Paff, John A., Allentown, Pa. Horseshoe and replaceable pad therefor. 1,653,409; Dec. 20.
- Pagano, Gaetano, Brooklyn, N. Y. Safety apparatus. 1,645,818; Oct. 18.

- Pagano, Gaetano, assignor of one-fourth to S. Benfonti and one-fourth to G. Sofia, Brooklyn, N. Y. Clothes wringer. 1,628,554; May 10.
- Page, Albert E., Brooklyn, assignor to Scott and Williams, Inc., New York, N. Y. Circular-knitting machine. 1,627,337; May 3.
- Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Positioning device for knitting-machine elements. 1,634,682; July 6.
- Page, Andrew. (See Coyne, Albert E., assignor.)
- Page, Arthur R. (See O'Brien, H. J., and Page.)
- Page, Charles B., and W. D. Burton, Evanston, assignors to G. W. Dulaney, Jr., Chicago, Ill. Cooling system. 1,646,659; Oct. 25.
- Page, Charles E., assignor to Economy Dispenser Corporation, Los Angeles, Calif. Dispensing device. 1,654,050; Dec. 27.
- Page, Charles H., Hatchechubbee, Ala. Depth indicator. 1,646,311; Oct. 18.
- Page, Christopher M., et al., trustees. (See Johanson, Adolph T., assignor.)
- Page, Frederick H., assignor to Handley Page Limited, London, England. Laterally controlling aircraft. 1,655,687; July 12.
- Page, Glenn E. (See Payne, E. T., and Page.)
- Page, Gordon W., San Francisco, Calif. Automobile wrecking car. 1,630,800; May 31.
- Page, Handley, Limited. (See Page, Frederick H., assignor.)
- Page, Hattie J., Grand Rapids, Mich. Garment. 1,646,555; Oct. 25.
- Page, Herbert E., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment-pressing machine. 1,623,358; Apr. 5.
- Page, Herbert E., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Seam opener. 1,634,206; June 28.
- Page, Jenny M. (See Logan, James W., assignor.)
- Page, John H., Detroit, Mich. Wall clock. Des. 73,193; Aug. 2.
- Page, John H., Detroit, Mich. Wall clock. Des. 73,414; Sept. 6.
- Page, John W., Chicago, Ill. Revolving derrick. 1,627,249; May 3.
- Page, Larrance, Berkeley, Calif. Shutter-release holder. 1,633,125; June 21.
- Page, Logan E. (See Hart, M. S., and Page.)
- Page, Louis A., assignor of one-half to H. C. Messinger, Providence, R. I. Extendible spectacle temple. 1,625,050; Apr. 19.
- Page, Milton E., Jr., et al., trustee. (See Johanson, Adolph T., assignor.)
- Page Organ Company, The. (See Maus, H. P., and Lamson, assignors.)
- Page, Reginald J., Ponsonby, Auckland, New Zealand. Vehicle resilient wheel. 1,645,620; Oct. 18.
- Page, Rescue B., Los Angeles, Calif. Stabilizer for folding beds. 1,618,467; Feb. 22.
- Page, Robert F., deceased; J. M. Felt, administrator, Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Vented motor casing. 1,642,083; Sept. 13.
- Page, Robert R., New York, N. Y. Top adjustable banjo tailpiece. 1,626,094; Apr. 26.
- Page, Robert W., Glen Ridge, N. J. Covering of plastic material and making the same. 1,622,969; Mar. 29.
- Page Steel and Wire Company. (See Kyle, William T., assignor.)
- Page, Welton, Switchback, W. Va. Mail catching and delivering device. 1,615,720; Jan. 25.
- Page, William M. (See Lavarack, F. C., and Page.)
- Pagel, Fred F., and C. E. Klawitter, La Crosse, Wis. Tub bench. 1,635,902; July 12.
- Pagel, Gustav. (See Hesel, P., and Pagel.)
- Pagel, Gustav, Charlottenburg, Germany, assignor to General Electric Company. Heat-exchange device. 1,651,900; Dec. 6.
- Pagel, William F., Sycamore, Ill. Plumber's blowtorch. 1,628,739; May 17.
- Paget, Charles, Santa Cruz, Calif. Kettle. 1,618,992; Mar. 1.
- Paget, Win W., Virginia City, Nev. Propeller. 1,626,424; Apr. 26.
- Paggett, Earl W., Detroit, Mich. Carburetor. 1,619,309; Mar. 1.
- Pagin, John B., assignor to South Bend Bait Co., South Bend, Ind. Fishing bait. 1,636,832; July 26.
- Pacchini, Federico. (See Camilla, S., and Pagliani.)
- Pahlow, Gustav, C. assignor to Victor Casket Hardware Co., Galesburg, Ill. Lug for casket handles. Des. 72,632; May 10.
- Pahmeyer, Frederick O., assignor to Heine Boiler Company, St. Louis, Mo. Boiler. 1,631,328; June 7.
- Pahoni, Oscar, Chicago, Ill. Waffle iron. 1,649,039; Nov. 15.
- Paige, Arthur E., Philadelphia, Pa. Radiocommunication. 1,624,673; Apr. 12.
- Paige-Detroit Motor Car Company. (See Petersen, George H. E., assignor.)
- Paige-Detroit Motor Car Company. (See Reed, Ned S., assignor.)
- Paillard, George, Courbevoie, France. Atomizer. Des. 73,802; Nov. 8.
- Paine, Arthur P., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for looms. 1,651,093; Nov. 29.
- Paine, Arthur P., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Hanger for Axminster-loom tube frames. 1,653,190; Dec. 20.
- Paine Company, The. (See Paine, Mathew H., assignor.)
- Paine, Louis A., assignor to The Lincoln Meter Company Limited, Toronto, Ontario, Canada. Electric measuring instrument. 1,620,126; Mar. 8.
- Paine, Louis A., assignor to Lincoln Meter Company, Limited, Toronto, Ontario, Canada. Alternating-current meter. 1,624,173; Apr. 12.
- Paine, Louis A., assignor to The Lincoln Meter Company, Limited, Toronto, Ontario, Canada. Measuring volt amperes. 1,649,551; Nov. 22.
- Paine Lumber Company. (See Procknow, George J., assignor.)
- Paine, Mathew H., Glen Ellyn, assignor to The Paine Company, Chicago, Ill. Ceiling and floor pipe plate. 1,651,624; Dec. 6.
- Paine and Williams Company, The. (See Turner, William S., assignor.)
- Palissardbeville, France. Preparation of pearl essence. 1,615,770; Jan. 25.
- Paiste, H. T., Company. (See Paiste, Henry T., assignor.)
- Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Handle for assembling parts of electric fixtures. 1,629,495; Apr. 17.
- Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Outlet. 1,635,058; July 5.
- Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Twin socket. 1,642,626; Sept. 13.
- Paik, Antonio, Detroit, Mich. Fan. 1,634,554; July 5.
- Paik, Charles H., Glencoe, assignor to The Toy Tinkers, Inc., Evanston, Ill. Wheeled toy. Des. 72,775; May 31.
- Pajau, Charles H., Glencoe, Ill., assignor to The Toy Tinkers, Inc., Evanston, Ill. Jointed figure toy. Des. 72,964; June 28.
- Pajau, Charles H., Glencoe, assignor to The Toy Tinkers, Inc., Evanston, Ill. Toy. 1,619,630; Mar. 1.
- Pajau, Charles H., Glencoe, assignor to Toy Tinkers, Inc., Evanston, Ill. Bowling-game apparatus. 1,625,676; Apr. 19.
- Pako Corporation. (See Passman, James W., assignor.)
- Pak Radio Company. (See Wacker, George W., assignor.)
- Palace Poultry Car Company. (See Edgerton, Israel V., assignor.)
- Palacios, José, New York, N. Y. Latch. 1,621,808; Mar. 22.
- Palacios, José, New York, N. Y. Sliding lock. 1,622,804; Mar. 29.
- Paley, Jacob, Brooklyn, N. Y. Hat-crown block. 1,650,571; Nov. 22.
- Paley, Max, Monticello, N. Y. Varying the size of garments. 1,642,627; Sept. 13.
- Palicki, Robert C., Toledo, Ohio. Work glove. 1,642,128; Sept. 13.
- Palicki, Robert C., Toledo, Ohio. Work glove. 1,649,074; Nov. 15.
- Palka, Andrew, Detroit, Mich. Radiator casing. Des. 72,441; Apr. 12.
- Palka, Andrew, Detroit, Mich. Radiator shell. Des. 72,721; May 24.
- Palka, Andrew, Detroit, Mich. Radiator shell. Des. 72,722; May 24.
- Palka, Andrew, Detroit, Mich. Radiator. Des. 72,800; June 7.
- Palka, Andrew, Detroit, Mich. Radiator. Des. 73,331; Aug. 23.
- Pallas, John, Jr., Thurston, Nebr. Combined hog leader and crate. 1,644,201; Oct. 4.
- Pallenberg, Christian, Clinton, Conn. Power-transmission mechanism. 1,613,191; Jan. 4.
- Pallenberg, Christian, assignor of one-half to F. Pallenberg, Clinton, Conn. Resilient seat mount. 1,647,247; Nov. 1.
- Pallot, Charles S. (See Morris, G. A., and Pallot.)
- Palm, Bernard L. (See Palm, Herbert B., and R. L.)
- Palm, Blake, Washington, D. C. Switch. 1,631,054; Mar. 31.
- Palm Brothers Dealcomania Company, The. (See Walz, Ludwig, assignor.)
- Palm, Fechteler & Co. (See Bihr, Alphonse, assignor.)
- Palm, Frederick, Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Axle housing and gear casing for automobiles and making the same. 1,638,573; Aug. 16.
- Palm, Herbert B. and B. L., Huron, S. Dak. Hog greaser. 1,625,677; Apr. 19.
- Palm, Max J., Jr., Cincinnati, Ohio. Plate or similar article. Des. 72,383; Apr. 5.
- Palm, Max J., Jr., Cincinnati, Ohio. Plate or similar article. Des. 72,384; Apr. 5.
- Palm, Max J., Jr., Cincinnati, Ohio. Plate or similar article. Des. 72,492; Apr. 19.
- Palm, Max J., Jr., Cincinnati, Ohio. Plate or similar article. Des. 72,526; Apr. 26.
- Palm, Robert H., and W. F. Pohlmann, assignors to F. W. Mater & Co., Chicago, Ill. Safety device for laundry machines. 1,647,657; Nov. 1.
- Palm, Robert H., and W. F. Pohlmann, assignors to F. W. Mater & Co., Chicago, Ill. Safety device for laundry machines. 1,651,625; Dec. 6.

- Palmenberg, Emil T., New York, N. Y. Pedestal or similar article. Des. 72,071; Feb. 22.
- Palmenberg, Emil T., assignor to J. R. Palmenberg's Sons, Inc., New York, N. Y. Pedestal or the like. Des. 72,910; June 21.
- Palmenberg's J. R., Sons, Inc. (See Palmenberg, Emil T., assignor.)
- Palmer, Albion S. T., Chicago, Ill. Rail antirecreeper. 1,620,683; Mar. 15.
- Palmer, Albion S. T., Chicago, Ill. Rail antirecreeper. 1,653,923; Dec. 27.
- Palmer, Arthur E. (See Tracy, J. J., and Palmer.)
- Palmer, Arthur E., Dover Plains, N. Y. Paper novelty article. 1,622,606; Mar. 29.
- Palmer-Bee Company. (See Simpson, William E., assignor.)
- Palmer Bros. Engines, Inc. (See Ulrich, Julius M., assignor.)
- Palmer, David, Sharon, Kans. Clevis. 1,620,387; Mar. 8.
- Palmer Electric and Manufacturing Company, The. (See Johnson, Ernest G., assignor.)
- Palmer, Elias H., Charleston, S. C. Chassis mounting. 1,615,132; Jan. 18.
- Palmer, Elton J. (See Pectal, O. J., and Palmer.)
- Palmer, Essie R., Savannah, Ga. Automobileist's glove. 1,624,429; Apr. 12.
- Palmer, Floyd, Jacksonville, Fla. Automobile parking means. 1,639,054; Aug. 16.
- Palmer, Granville E., Cambridge, Mass., assignor to Westinghouse Electric & Manufacturing Company. Control interrupter. 1,645,202; Oct. 11.
- Palmer, Harry A., assignor of twenty-five per cent to J. J. Kelly, twenty-five per cent to W. A. McKay, and two per cent to J. A. McCarthy, Boston, Mass. Rotary engine. 1,613,528; Jan. 4.
- Palmer, Harry A., assignor to Reynolds Spring Company, Mich. Automatic U-bar-cut-off machine. 1,618,943; Feb. 22.
- Palmer, Harry A., assignor to Reynolds Spring Company, Jackson, Mich. Base frame for spring structures. 1,650,294; Nov. 22.
- Palmer, Harry E., Mendham, N. J. Apparatus for administering radium emanations. 1,620,684; Mar. 15.
- Palmer, Harry B., Mendham, N. J. Process and apparatus for concentrating active deposit. 1,644,350; Oct. 4.
- Palmer, James A., assignor to Taunton Pearl Works, Inc., Taunton, Mass. Teething device for infants. 1,638,969; Apr. 12.
- Palmer, Joe C., Houston, Tex. Automatic oil pump. 1,635,220; July 12.
- Palmer, Joel C. R., New Rochelle, assignor to Western Electric Company, Incorporated, New York, N. Y. Radio receiving equipment. 1,618,468; Feb. 22.
- Palmer, John F., Buffalo, N. Y. Pneumatic tire. 1,643,514; Sept. 27.
- Palmer, John H., Rossland, British Columbia, Canada. Siphon. 1,627,451; May 3.
- Palmer, John M., assignor of one-half to J. D. O'Neill, Chicago, Ill. Tool holder for lathes. 1,638,874; Aug. 16.
- Palmer-Jones, Daniel, assignor of one-half to Scaffolding (Great Britain) Limited, Stockwell, London, England. Coupling or clamping device for scaffolding and other framework structures. 1,631,831; June 7.
- Palmer, Luke. (See Nelson, Arthur A., assignor.)
- Palmer, Nathan W., assignor to Moline Implement Company, Moline, Ill. Cultivator. 1,647,658; Nov. 1.
- Palmer, Ralph V., assignor of one-fourth to S. J. Courtney, St. Paul, Minn. Internal-combustion engine. 1,616,137; Feb. 1.
- Palmer, Silvan, Flushing, N. Y. Testing fuses. 1,645,846; Oct. 11.
- Palmer, Theron R., Erie, Pa. Apparatus for molding battery boxes. 1,620,388; Mar. 8.
- Palmer, Warner, Meadowlands, Minn. Thawing device. 1,639,267; Aug. 16.
- Palmer, William E., Highwood, Ill. Nail package. 1,637,128; July 26.
- Palmer, William C., Davenport, Iowa. Velocimeter. 1,620,224; Mar. 8.
- Palmer's Limited. (See Fairbairn, Francis A., assignor.)
- Palmigiano, Anthony, Jr., Brooklyn, N. Y. Tree-felling saw. 1,644,924; Oct. 18.
- Palmquist, Adolf J., Montreal, Quebec, Canada. Ski harness. 1,615,032; Jan. 18.
- Palston, Magnus J. (See Funk, George C.)
- Paltani, James, Cleveland, Ohio. Fence structure. 1,653,508; Dec. 20.
- Paluck, John B., Belfield, N. Dak. Hoe. 1,649,921; Nov. 22.
- Palueff, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Winding for electrical apparatus. 1,629,462; May 17.
- Paluch, Konstantin K., Pittsfield, Mass., assignor to General Electric Company, Autotransformer. 1,640,424; Aug. 30.
- Pampinella, Frank, Brooklyn, assignor to International Motor Company, New York, N. Y. Rubber shock-in-sulated bumper. 1,619,087; Mar. 1.
- Pan American Petroleum Company. (See Black, J. C., Rial, and Howes, assignors.)
- Panajiotaras, Athanasios, and M. Jones, Fort Worth, Tex.; said Panajiotaras now, by judicial change of name, Tom Peters. Self-basting rotary roaster. 1,638,452; Aug. 9.
- Panama Lamp & Commercial Company. (See McCann, C. F., and Berenberg, assignors.)
- Panny-Horizontal Show-Jar Co. (See Shover, Lamar H., assignor.)
- Pancoast, William G., Winnetka, assignor to Biflex Products Company, Waukegan, Ill. Automobile bumper. 1,621,081; Mar. 15.
- Pancoff, Robert, Brooklyn, N. Y. Accordion. Des. 72,337; Mar. 29.
- Pangborn, Arthur R. (See Hitchcock, J. L., and Pangborn.)
- Pangborn, Leo D., R. M. Warwick, and G. H. McKay, Chicago, Ill., assignors, by mesne assignments, to Chicago Hardware Foundry Company, Chicago, Ill. Internal cylinder grinder. 1,630,353; May 31.
- Pangborn, Redmond H., Tacoma, Wash., assignor of one-fourth to A. P. H. Hudson and one-fourth to R. S. Hudson. Conveyor chain. 1,641,642; Sept. 6.
- Pangburn, Truman A., Camden, N. J. Electric switch. 1,639,196; Aug. 16.
- Pangburn, Truman A., Camden, N. J. Electric switch. 1,639,197; Aug. 16.
- Panhandle Refining Company. (See Turner, Samuel E., assignor.)
- Panish, Erwin J. (See Rotter, W., and Panish.)
- Pankuch, George, Cleveland, Ohio. Pot-mouthpiece wiper for type-casting machines. 1,636,430; July 19.
- Pannell, Richard L., Birmingham, Ala. Rotary internal-combustion engine. 1,634,283; July 5.
- Pannier Bros. Stamp Co. (See Pannier, William J., Jr., assignor.)
- Pannier, William J., Jr., assignor to Pannier Bros. Stamp Co., Pittsburgh, Pa. Printing stamp. 1,620,685; Mar. 16.
- Panoch, Anthony L., Iowa City, Iowa. Gate hinge. 1,634,437; July 5.
- Pantini, W. C. (See Ingold, Ernest A., assignor.)
- Pantlind, Fred Z. (See Farmer, Charles K., assignor.)
- Pantolické, Bohdan, Lochotin, Pilsen, Czechoslovakia. Fuse for projectiles. 1,614,536; Jan. 18.
- Pantolické, Bohdan, Pilsen-Lochotin, Czechoslovakia. Centrifugal fuse. 1,614,537; Jan. 18.
- Pantolické, Bohdan, Pilsen-Lochotin, Czechoslovakia. Centrifugal fuse. 1,618,944; Feb. 22.
- Pantolické, Bohdan, Pilsen, Czechoslovakia. Percussion fuse. 1,652,635; Dec. 13.
- Panoy, John F., Detroit, Mich. Piston packlug. 1,626,749; May 9.
- Panyard, John F., Detroit, Mich. Piston packing. 1,626,750; May 3.
- Panyard, John F., Detroit, Mich. Piston ring. 1,636,833; July 26.
- Panyard, John F., Detroit, Mich. Piston packing. 1,638,453; Aug. 9.
- Panyard, John F., Detroit, Mich. Piston packing. 1,644,944; Oct. 11.
- Panyard, John F., Detroit, Mich. Piston packing. 1,646,978; Oct. 25.
- Panzl, Paul R., Shawinigan Falls, Quebec, Canada. Digesting strainer. 1,625,373; Apr. 19.
- Paolicelli, Eustace V. (See Paolicelli, Joseph and E. V.)
- Paolicelli, Joseph and E. V., New York, N. Y. Burn-in knife. 1,616,544; Feb. 8.
- Paone, Vincenzo, Utica, N. Y. Radiator. 1,644,270; Oct. 4.
- Paone, Vincenzo, Utica, N. Y. Condensing attachment for automobile radiators. 1,652,045; Dec. 6.
- Papé, Chester H., Portland, Ore. Composition for making casting patterns, pattern mounts, and the like. 1,614,815; Jan. 11.
- Pape, Edwin W., St. Louis, Mo., assignor to Crescent Stove Works, Vanderburgh County, Ind. Air-circulation control for inclosed stoves. 1,623,634; Apr. 5.
- Pape, Wilhelm, assignor to Bergmann-Elektricitäts-Werke Aktiengesellschaft, Berlin, Germany. Steam turbine. 1,622,806; Mar. 29.
- Papenfuss, Albert, Rochester, N. Y. Ash sifter. 1,629,729; May 24.
- Paper Converting Machine Co. (See Christman, Peter J., Jr., assignor.)
- Paper Mill Laboratories, Inc. (See Wells, Sidney D., assignor.)
- Paper Service Company, The. (See Rowe, William W., assignor.)
- Paper and Textile Machinery Co., The. (See Millsbaugh, William H., assignor.)
- Papin, Henry J., Grand Rapids, Mich. Grip. 1,638,454; Aug. 16.
- Papin, William, Cincinnati, Ohio. Hand press. 1,622,806; Mar. 29.
- Pappadakis, Andru G., Detroit, Mich. Alarm mechanism. 1,632,499; June 14.
- Pappano, Philip, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Selvage trimmer. 1,652,149; Dec. 6.
- Pappert, Emanuel, Brooklyn, N. Y. Spectacle frame. Des. 73,143; July 26.
- Pappert, Emanuel, New York, N. Y. Spectacle frame. Des. 73,578; Oct. 4.
- Papst, Hermann, Vienna, Austria, assignor to E. D. Feldman, New York, N. Y. Electric machine with split poles. 1,620,008; Mar. 8.

- Papst, Hermann, Vienna, Austria, assignor, by mesne assignments, to F. B. Keane, Bridgeport, Conn. Magnet frame for electric machines with split poles. 1,622,204; Mar. 22.
- Papst, Hermann, Vienna, Austria, assignor, by mesne assignments, to F. B. Keane, Bridgeport, Conn. Support for housing for electrical machines with split poles. 1,625,051; Apr. 19.
- Paque, Edward J., Cincinnati, and G. W. Jakeway, Marion, assignors to The Pollak Steel Company, Cincinnati, Ohio. Fencepost and mounting. 1,613,357; Jan. 4.
- Paquellier, René P. E. (See Malaval, P., and Paquellier.)
- Parafine Companies, The. (See Evans, Charles S., assignor.)
- Parafine Companies, The. (See Finley, Dozier, assignor.)
- Parafine Companies, The. (See Lilleston, Horace J., assignor.)
- Parafine Companies, The. (See Meller, Reginald B., assignor.)
- Parafine Companies. (See Rosener, Leland S., assignor.)
- Parafine Companies, Inc., The. (See Finley, Dozier, assignor.)
- Parafine Companies, Inc., The. (See Rosener, Leland S., assignor.)
- Parafactor Company, The. (See Reynolds, John F., assignor.)
- Paragon Can & Cap Company. (See Russell, Robert A., assignor.)
- Paragon Can & Cap Company. (See Seward, Edward C., assignor.)
- Paragon Devices Corporation. (See Fink, Frederick B., assignor.)
- Paramount Knitting Mills. (See Zimmerman, Jacob, assignor.)
- Paramount Machine Company. (See Eanes, Hugh P., assignor.)
- Paramount Rubber Consolidated Inc. (See Roberts, Fred T., assignor.)
- Paramount Rubber Consolidated Inc. (See Roberts, Fred T. and W. E., assignors.)
- Paramount Rubber Consolidated, Inc. (See Roberts, William E., assignor.)
- Paramount Rubber Consolidated, Inc. (See Schaefer, James, assignor.)
- Paramount Textile Machinery Co. (See Beucus, Abraham J., assignor.)
- Parcells, Paul D., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working mechanism. 1,614,569; Jan. 18.
- Parcher, Charly E., Napoleon, Ohio. Cutting press. 1,613,766; Jan. 11.
- Parco Specialty Co. (See Evans, Harold A., assignor.)
- Parco Specialty Co. (See Byron, J. P., and Evans, assignors.)
- Parde, Stanley, Middletown, Conn. Changeable picture frame. 1,626,150; Apr. 26.
- Pardee, Belle E. (See Pardee, Harvey S., assignor.)
- Pardee, Frank, assignor to Anthracite Separator Company, Hazelton, Pa. Spiral separator. 1,617,345; Feb. 15.
- Pardee, Harvey S., assignor to B. E. Pardee, Ravinia, Ill. Radiator cap. 1,625,497; Apr. 19.
- Parent Caterpillar Company. (See Blackburn, Robert, assignor.)
- Parenti, Armando, and Giovanni Bolognini, Genoa, Italy. Machine for the manufacture of cork taps. 1,634,040; June 28.
- Parfumerie Rigaud, Inc. (See Kendall, William G., assignor.)
- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Machine Company, Chicago, Ill. Mechanism for dipping match splints. 1,641,193; Sept. 6.
- Paris, Auguste J., Jr., Bradford, Pa. Conversion of hydrocarbon liquids. 1,614,930; Jan. 18.
- Paris, Peter, et al. (See Luther, John A., assignor.)
- Parish, Winnifred B. (See Schwartz, Morris, assignor.)
- Parish, Maurice S., Madison, Wis. Automobile signal apparatus. 1,651,540; Dec. 6.
- Park Metalware Co., Inc. (See Zilliox, John, assignor.)
- Park, Tracy S., Houston, Tex. Portable foam-injection spout. 1,650,647; Nov. 29.
- Park, William B., assignor of one-half to C. M. Zink, Ed. Eaton, J. D. Motor controller. 1,625,773; Apr. 19.
- Parke, Davis & Company. (See Dox, Arthur W., assignor.)
- Parke, Davis & Co. (See Lyons, Edward, assignor.)
- Parker, Alvah C., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Banding machine. 1,632,494; Dec. 12.
- Parker, Arthur H. (See Sebell, Harry, assignor.)
- Parker, Arthur L., Cleveland, Ohio. Tube coupling. 1,619,755; Mar. 1.
- Parker, Charles R., assignor to Wirt & Knox Mfg. Co., Philadelphia, Pa. Hose reel. 1,643,993; Oct. 4.
- Parker, Claude H., Mountain View, Calif. Vending-machine casing. Des. 73,621; Oct. 11.
- Parker, Claude H., Mountain View, assignor to Parker Pencil Company, Inc., Los Angeles, Calif. Vending machine. 1,620,914; Mar. 15.
- Parker and Company (London) Limited. (See Parker, Frederick, assignor.)
- Parker, Delbert D., Elba, N. Y., assignor to Burt Machine Company, Incorporated. Wrapping machine. 1,650,803; Nov. 29.
- Parker, Donald, Fresno, Calif. Car-cooling apparatus. 1,651,626; Dec. 6.
- Parker, Francis D., Viroqua, Wis. Vehicle spring. 1,641,009; Aug. 30.
- Parker, Frederick, assignor to Parker and Company (London) Limited, London, England. Waving hair. Re16,546; Feb. 8.
- Parker, Frederick R., Chicago, Ill. Electrical protective apparatus. 1,640,516; Aug. 30.
- Parker, George D., Riverside, Calif. Automatic box-making machine. 1,652,373; Dec. 13.
- Parker, Guy E., assignor to General Motors Corporation, Detroit, Mich. Spare-tire carrier. 1,642,460; Sept. 13.
- Parker, Guy E. and A. H. Stahlhuth, assignors to General Motors Corporation. Vehicle brake. 1,651,406; Dec. 6.
- Parker, Harrison O., Tulsa, Okla., assignor to The Mathieson Alkali Works, New York, N. Y. Refining oils. 1,622,879; Mar. 29.
- Parker, Harrison O., Tulsa, Okla., assignor to The Mathieson Alkali Works, New York, N. Y. Refining oils. 1,627,338; May 3.
- Parker, Harry J., assignor of one-fourth to K. Tritschler, San Francisco, Calif. Extractor. 1,641,780; Sept. 6.
- Parker, Howard, Berlin, N. H., assignor to Brown Company, Portland, Me. Apparatus for handling pulp tubes or the like. 1,640,133; Aug. 23.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Conduit joint and making the same. 1,648,057; Nov. 8.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Process of and machine for making fiber tubes. 1,651,407; Dec. 6.
- Parker, Humphrey F., Philadelphia, Pa. Heat-transfer system for aircraft. Re16,644; May 31.
- Parker, Ira D., Minneapolis, Minn. Grain-car door. 1,619,310; Mar. 1.
- Parker, John, Richmond, Mich. Soil pulverizer. 1,621,739; Mar. 22.
- Parker, John A., Rifle, Colo. Blast furnace. 1,629,045; May 17.
- Parker, John B., Washington, D. C. Washing apparatus for laboratories. 1,635,633; July 12.
- Parker, John W., Barrington, R. I., assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Micrometer gauge. 1,629,406; May 17.
- Parker, Joseph E., deceased, Cincinnati, Ohio, J. R. Burgamy, administrator. Valve. 1,635,257; July 12.
- Parker, King L., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Fan blade. 1,638,129; Aug. 9.
- Parker, Leighland F., Burlington, Vt., and F. B. Bramhall, Metuchen, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Phase correction in synchronous telegraph systems. 1,636,784; July 26.
- Parker, Leonard E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiocabinet. 1,638,875; Aug. 16.
- Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Slide feeder for match machines. 1,628,327; May 10.
- Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Slide feeder for match machines. 1,628,328; May 10.
- Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Sliding attachment for filling machines. 1,647,745; Nov. 1.
- Parker, Morgan, New York, N. Y. Scissors. 1,620,225; Mar. 8.
- Parker, Morgan, New York, N. Y. Scissors. 1,620,226; Mar. 8.
- Parker, Orrel A., Cleveland, Ohio. Hub structure for metal wheels. 1,651,541; Dec. 6.
- Parker Pen Company, The. (See Blackman, Horace L., assignor.)
- Parker Pen Company, The. (See Gilman, George W., assignor.)
- Parker Pen Company, The. (See Hanton, Paul S., assignor.)
- Parker Pencil Company. (See Parker, Claude E., assignor.)
- Parker, Ralph D., San Francisco, Calif. Vehicle signaling window. 1,620,168; Mar. 8.
- Parker, Ralzemond D., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telegraph circuits. 1,634,299; July 5.
- Parker, Ralzemond D., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electrovision. 1,648,058; Nov. 8.
- Parker, Robert L., Oakland, Calif. Sectional railway car. 1,637,585; Aug. 2.
- Parker Rust-Proof Company. (See Green, M., and Willard, assignors.)
- Parker Rust-Proof Company. (See Green, M., Jones, and Willard, assignors.)
- Parker, Thomas R. G., and F. Spence, Altrincham, assignors to Linotype and Machinery Limited, London, England. Sheet-delivery mechanism for printing machines. 1,651,298; Nov. 25.
- Parker, Wallace C. (See Viberg, E. R., and Parker.)
- Parker, Walter L., Company. (See Gleason, Stephen R., assignor.)
- Parker, William A., Erie, Pa., assignor to Layne & Bowler Corporation. Mold for die-casting screening buttons. 1,646,592; Oct. 25.

- Parker, William B., Placerville, Calif. Adjustable lip-spray nozzle. 1,627,250; May 3.
- Parker, William E., Bridgeport, Wis. Running-board carrier device. 1,650,848; Nov. 29.
- Parker, William R., Butte Falls, Oreg. Firearm sight. 1,633,924; Dec. 27.
- Parker, William S., assignor to Burson Knitting Company, Rockford, Ill. Pattern cylinder for knitting machines. 1,633,676; June 28.
- Parker, William S., assignor to Burson Knitting Company, Rockford, Ill. Cam-slide adjustment for knitting machines. 1,635,164; Aug. 9.
- Parkersburg Rig & Reel Company, The. (See Schwemlein, William, assignor.)
- Parkersburg Rig & Reel Company, The. (See Wolfe, Dell H., assignor.)
- Parke, Albert W., Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, New York, N. Y. Slotting machine. 1,640,719; Aug. 30.
- Parke, Deric W. (See Robinson, H. W., and Parkes.)
- Parkhurst, Charles E. (See Bridge, Walter G., assignor.)
- Parkhurst, Dr. Charles E. (See Bridge, W. G., and Perrier, assignors.)
- Parkhurst, Karl C., Wichita, Kans. Traffic signal. 1,624,900; Apr. 12.
- Parkhurst, Layton M., Indianapolis, Ind., assignor to Federal Gypsum Products Company, Chicago, Ill. Gypsum product and producing the same. 1,620,915; Mar. 16.
- Parkin, Thomas D., Chelmsford, England, assignor to Radio Corporation of America. Radio signaling apparatus. 1,630,354; May 31.
- Parkinson, Daniel M., Dayton, Ohio. Window-shade bracket. 1,638,742; Aug. 9.
- Parkinson, James, Toronto, Ontario, Canada. Display sign. 1,636,108; July 19.
- Parkinson, Joseph C. (See Gelstharpe, F., and Parkinson.)
- Parkinson, Joseph C., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Control apparatus for leers. 1,631,151; June 7.
- Parkins, Fritz E., Chicago Heights, Ill. Combination clock and scale. 1,634,939; June 28.
- Parks, Birney, Pekin, Ill. Rim tool. 1,650,231; Nov. 22.
- Parks, Charles F., Muncie, Ind. Clothes support. 1,636,431; July 19.
- Parks-Cramer Company. (See Hodge, William B., assignor.)
- Parks, Darwin D., Staples, Minn. Cording attachment for sewing machine. 1,616,278; Feb. 1.
- Parks, Dennis, St. Louis, Mo. Machine for gouging heel blanks. 1,652,181; Dec. 13.
- Parks, Edward E., C. A. Brink, and G. N. Taylor, East Providence, R. I., assignors to Universal Winding Company, Boston, Mass. Winding machine. 1,651,099; Nov. 29.
- Parks, Frederick J., Cleveland, Ohio. Machine for making envelopes. 1,651,627; Dec. 6.
- Parks, George E., assignor of one-half to J. T. Parks, Pillager, Minn. Valve for cylinder pumps. 1,647,144; Nov. 1.
- Parks, George M., Sacramento, Calif. Multiple-color electric light bulb. 1,649,375; Nov. 22.
- Parks, John T. (See Parks, George E., assignor.)
- Parks, Joseph W., Altoona, Pa. Shipping case. 1,630,862; May 31.
- Parks, Joseph W., Altoona, Pa. Shipping crate. 1,653,116; Dec. 20.
- Parks, Ostrander J., River Forest, assignor to General American Tank Car Corp., Chicago, Ill. Pipe-securing means. 1,649,542; Nov. 15.
- Parks, Paul B. (See Russell, E. A., and Parks.)
- Parks, Paul B., Oak Park, assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Thermally-operated circuit breaker. 1,644,443; Oct. 4.
- Parks, Paul B., Oak Park, and J. Van Vulpem, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Pressure-actuated circuit breaker. 1,620,127; Mar. 8.
- Parks, William J., and L. B. Evans, La Salle, Ill. Direction indicator. 1,619,536; Mar. 1.
- Parlin, Alexander C. (See Heller, D., and Parlin.)
- Parmelee, William G., Seattle, Wash. Rotary steam engine. 1,647,464; Nov. 1.
- Parmelee, Alfred E. (See Daudt, H. W., Parmelee, and Calcott.)
- Parmelee, Charles L., West Orange, N. J., assignor to Sinclair Refining Company, Chicago, Ill. Cracking of hydrocarbon oils. 1,613,718; Jan. 11.
- Parmelee, Frank G., assignor of one-half to Triumph Cycle Company Limited, Coventry, England. Relay mechanism for vehicle brakes. 1,637,349; Aug. 2.
- Parodi, Achille, Genoa, Italy. Apparatus for cleaning pottery and the like. 1,627,112; May 3.
- Parodi, Roberto, Genoa, Italy. Optical device for horizontal-panoramic and zenithal view. 1,616,279; Feb. 1.
- Parr, Alfred, London, England. Machine for labeling bottles, boxes, packets, and similar articles. 1,647,193; Nov. 1.
- Parr, George T., assignor, by mesne assignments to Olafson-Parr-Cohen Mfg. Co., St. Paul, Minn. Powder pad. 1,616,197; Feb. 1.
- Parr, George T., St. Paul, Minn., assignor to Parr Pie Company. Ice-cream scoop. 1,639,809; Aug. 23.
- Parr, Harris G., assignor to Fort Worth Well Machinery & Supply Co., Fort Worth, Tex. Well-drilling machine. 1,650,584; Nov. 22.
- Parr, Louis, Vancouver, British Columbia, Canada. Machine for straightening saws. 1,626,751; May 3.
- Parr Pie Company. (See Parr, George T., assignor.)
- Parris, Harry, St. Louis, Mo. Refrigerator. 1,618,469; Feb. 22.
- Parris, Harry, Baltimore, Md. Trap. 1,643,315; Sept. 27.
- Parrish, Benjamin E., Honeygrove, assignor of one-half to D. W. Maurer, Dallas, Tex. Plug for oil wells. 1,631,152; June 7.
- Parrish, Cecil C., assignor of forty-nine one-hundredths to J. J. Polkabala, Donora, Pa. Hanger clamp. 1,654,383; Dec. 27.
- Parrish, Donald E., assignor to Herbert Morris Incorporated, Buffalo, N. Y. Platform hoist. 1,613,901; Jan. 11.
- Parrish, Jacob O., Pomona, Calif. Spring-eye bender. 1,619,537; Mar. 1.
- Parrish, Nelson B., Great Barrington, Mass. Egg container. 1,631,055; May 31.
- Parrish, William A., Port Arthur, Tex. Pumping system. 1,630,902; May 31.
- Parrot, August, et al. (See Barry, Richard P., assignor.)
- Parsch, Maxwell J., Detroit, Mich. Hat stretcher. 1,654,051; June 28.
- Parsch, William B., Pleasantville, N. J. Casket-retaining device for hearse. 1,637,239; July 26.
- Parson Company, The. (See Vaughn, George A., assignor.)
- Parson, Walter. (See Weimer, A. W., and Smith, assignors.)
- Parson, Delaide, Cardiff, South Wales. Initial, motif, and the like. 1,654,157; Dec. 27.
- Parsons, Albert R., assignor of one-half to P. Woods, Bonaparte, Iowa. Telescoping tire rim. 1,631,429; June 7.
- Parsons, Arthur W., Miami, Fla. System for carrying out mining blocks. 1,625,678; Apr. 19.
- Parsons, Ben G., Detroit, Mich., assignor to The Bendix Brake Company. Brake. 1,622,465; Mar. 29.
- Parsons, Charles A., and S. S. Cook, Newcastle-on-Tyne, England; said Cook assignor to said Parsons. Condensing-steam-power plant. 1,618,722; Feb. 22.
- Parsons, Charles A., and S. S. Cook, Newcastle-on-Tyne, England; said Cook assignor to said Parsons. Device suitable for measuring the axial thrust of rotatable shafts. 1,624,430; Apr. 12.
- Parsons, Charles A., S. S. Cook, and H. G. Kimber, Newcastle-on-Tyne, England; said Cook and said Kimber assignors to the said Parsons. Internal-combustion engine. 1,616,332; Feb. 1.
- Parsons, Charles E., Engelwood, N. J., and R. Stevenson, assignors to W. P. Deppe, New York, N. Y. Method and apparatus for determining equilibrium vaporization end point. 1,652,748; June 14.
- Parsons, Charles J., Columbus, Ohio. Weatherproofing hardware. 1,622,046; Mar. 22.
- Parsons, Clinton H., assignor to Swift & Company, Chicago, Ill. Egg product and making same. 1,630,756; May 31.
- Parsons, Edward B. (See Inskeep, W. D., and Parsons.)
- Parsons, Edward B., W. D. Inskeep, San Francisco, Calif., and W. Hunt, Baltimore, Md. Producing carbon black from natural gas. 1,614,685; Jan. 18.
- Parsons, Edward T., Upper Montclair, N. J., assignor to Thomson Machine Company. Loaf creasing and cutting apparatus. 1,641,781; Sept. 6.
- Parsons, Edward T., Upper Montclair, N. J., assignor to Thomson Machine Company. Extender attachment for dough molders. 1,642,693; Sept. 20.
- Parsons, Floyd Y., Paterson, N. J. Wall construction. 1,630,801; May 31.
- Parsons, Fred, Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Milling-machine construction. 1,636,755; July 26.
- Parsons, Frederick W., Cleveland, Ohio. Fire-protective system. 1,617,415; Feb. 15.
- Parsons, George H., New York, N. Y. Toy. 1,629,635; May 24.
- Parsons, Harry N., Chicago, Ill., assignor to Marlin-Rockwell Corporation. Making ball retainers. 1,629,173; May 17.
- Parsons, John H., Ferndale, assignor, by mesne assignments to G. A. Carlson, Detroit, Mich. Window regulator. 1,646,979; Oct. 25.
- Parsons, John L., Palaski, Tenn. Combination can and bottle opener. 1,648,881; Nov. 8.
- Parsons, Leon W., Cambridge, Mass., and S. P. Coleman, Corpus Christi, Tex., assignors to Standard Development Company, New York, N. Y. Purifying hydrocarbons. 1,640,720; Aug. 30.
- Parsons, Marion L., Portland, Oreg. Printing numbers. 1,650,535; Nov. 22.
- Parsons, Newell B., La Grange, assignor to Belden Manufacturing Company, Chicago, Ill. Electric-lamp socket. 1,643,641; Sept. 27.
- Parsons, Philip D., Swarthmore, Pa., assignor to Scott Paper Company. Conveyer, wrapping, and labelling machine. 1,629,525; May 24.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Cut-off sawing machine. 1,643,994; Oct. 4.

- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Door latch. 1,619,632; Mar. 1.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Olive-knuckle hinge. 1,632,415; June 14.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Sealing device for box straps. 1,649,363; May 15.
- Parsons, Walter O. (See Weimer, A. W., and Smith, assignors.)
- Parsons, William C., Swissvale, Pa. Blast furnace. 1,637,350; Aug. 2.
- Parsons, William H., Middletown, Calif. Ore-feeding apparatus. 1,641,563; Sept. 6.
- Parlin, Sammie D., Teague, Tex., assignor, by mesne assignments, to N. Wolf. Combined walking and rocking toy. 1,652,182; Dec. 13.
- Partington, Jack A., San Francisco, Calif. Theater novelty. 1,616,198; Feb. 1.
- Partridge, Alvin S., Richmond Highlands, Wash. Label-attaching device. 1,636,432; July 19.
- Partridge, Esther E., Spokane, Wash. Strainer. 1,636,240; July 19.
- Partridge, Frederick C., Mobile, Ala. Oven slide. 1,647,013; Oct. 25.
- Partridge, John H., town of Trail, British Columbia, Canada. Automobile wheel. 1,632,500; June 14.
- Parts Corporation. (See Kelly, Bert F., assignor.)
- Parts Corporation. (See Kelly, B. F., Miller, and Winkler, assignors.)
- Patel, Charles, Montreal, Quebec, Canada. Anticreeping Jolt. 1,639,960; Aug. 23.
- Pascale, Pasquale, New York, N. Y., assignor to Drift Steam Valve Corporation. Steam valve. 1,647,465; Nov. 1.
- Paschall, Williams, Birmingham, Ala. Floor-surfacing machine. 1,625,740; Apr. 19.
- Paschen, Paul. (See Singer, K., Paschen, and Reime.)
- Pascoe, William H., and J. Tatter, Chicago, Ill. Rotary pump. 1,613,767; Jan. 11.
- Pasini, Jerome, New York, N. Y. Ship. 1,623,888; Apr. 5.
- Pasman, Abram N., assignor to Scovill Manufacturing Company, Waterbury, Conn. Supply, waste, and overflow fitting. 1,617,078; Feb. 8.
- Pasman, Abram N., assignor to Scovill Manufacturing Company, Waterbury, Conn. Waste-pipe fitting. 1,618,777; Feb. 22.
- Pasquille, Dominic D., Benning, D. C. Wire-tie clamp. 1,634,847; July 5.
- Pass & Seymour, Inc. (See Russell, Mark N., assignor.)
- Pass & Seymour, Inc. (See Thompson, Don N., assignor.)
- Pass & Seymour, Inc. (See Turner, William E., assignor.)
- Passee Metal Ware Company. (See Aubach, Charles J., assignor.)
- Passer, Hugo W. (See Bohmsack, Harry C., assignor.)
- Passman, James W., Newark, Ohio, assignor to Pako Corporation, Minneapolis, Minn. Photoglaizing method and apparatus. 1,623,202; Apr. 5.
- Pastorius, Stevenson. (See Auer, E. W., and Pastorius.)
- Pastrengo, Vittorio, San Francisco, Calif. Window. 1,626,479; Apr. 26.
- Paszukowski, Paul, Irvington, N. J., assignor to Vesting-house Electric & Manufacturing Company. Laminated wire. 1,654,506; Dec. 27.
- Pataky, Walter H., The Hague, and Frederik J. Nelsenstijn, Delft, Netherlands. Making fatty acids from hydrocarbons. 1,627,452; May 3.
- Pataut, Georges L. E., Paris, France. Device for the simultaneous obtainment of the compression and the circulation of gaseous mixtures. 1,633,998; June 28.
- Patashnik, David, Brooklyn, N. Y. Sash. 1,619,631; Mar. 1.
- Patch, Albert C., Topeka, Kans. Clamp. 1,645,621; Oct. 18.
- Patch, Allen J., Ripon, Wis. Internal-combustion engine. 1,645,543; Oct. 18.
- Patch, F. R., Manufacturing Company. (See Crane, Leslie, assignor.)
- Patchen, John C. (See Graham, David F., assignor.)
- Pateman, Arthur, assignor to Imperial Typewriter Company Limited, Leicester, England. Ribbon-reversing mechanism. 1,634,593; July 5.
- Patenaude, Amable O., Toronto, Ontario, assignor of one-half to O. B. Shortley, Toronto, Ontario, Canada. Split stovepipe. 1,642,215; Sept. 13.
- Patenaude, Hector F., Bisbee, Ariz. Attachment for hair clippers. 1,628,421; May 10.
- Patenaude, Julien, Waterbury, Conn. Kitchen table. 1,628,850; Apr. 5.
- Patent Button Company, The. (See Abel, Walter T., assignor.)
- Patent Button Company, The. (See Ross, Frederick N., assignor.)
- Patent Novelty Company. (See Cowan, Arch D., assignor.)
- Patent Novelty Company. (See Kroff, Leonard D., assignor.)
- Patent-Treuhand-Gesellschaft für Elektrische Glühlampen m. b. H. (See Loewenherz, Siegmund, assignor.)
- Patent-Treuhand-Gesellschaft für Elektrische Glühlampen m. b. H. (See Loewenherz, S., and Stockmayer, assignors.)
- Patentaktiebolaget Central Smörjning. (See Clausen, Carl H., assignor.)
- Patented Machinery Development Corporation. (See Schwarzmann, Leon, assignor.)
- Paterson, Arthur R. (See Vidinghoff, Charles A., assignor.)
- Paterson, Dougald S., Philadelphia, Pa., and G. B. Petsche, Yonkers, N. Y. Filing machine. 1,624,846; Apr. 12.
- Paterson, May H. (See Paterson, William and M. H.)
- Paterson, Orian T. (See Schell, J., and Paterson.)
- Paterson, William and M. H., Oakland, Calif. Automobile and truck traction attachment. 1,652,133; Dec. 6.
- Pates, James S., Washington, Pa. Roof support for underground chambers. 1,637,586; Aug. 2.
- Pathe Cinema, Anciens Etablissements Pathe Freres. (See Couade, Maurice, assignor.)
- Pathe Cinema, Anciens Etablissements Pathe Freres. (See Gauriat, Pierre S., assignor.)
- Pathe Cinema, Anciens Etablissements Pathe Freres. (See Marrette, Jacques, assignor.)
- Pathe Cinema, Anciens Etablissements Pathe Freres. (See Merle, André N., assignor.)
- Pathe Cinema, Anciens Etablissements Pathe Freres. (See Penin, Emile C., assignor.)
- Pathe Cinema, Anciens Etablissements Pathe Freres. (See Zelger, Georges E., assignor.)
- Pathe Exchange, Inc. (See Knechtel, Alvin V., assignor.)
- Patnaude, William B., Stoughton, Mass. Dispensing faucet. 1,631,548; June 7.
- Paton, Clyde R., assignor to The Studebaker Corporation, South Bend, Ind. Automobile construction. 1,632,493; Aug. 9.
- Paton, Frederic J. (See Nanji, D. R., and Paton.)
- Paton, Halstead G. (See Wenzelmann, G., and Paton.)
- Patricia Petticoat Company, The. (See Vox, Abraham, assignor.)
- Patrack, Benjamin H., Mount Gay, W. Va. Railroad switch. 1,626,752; May 3.
- Patrick, Byron O., Des Moines, Iowa. Compressed-air protective shield. 1,646,103; Oct. 18.
- Patrick, F. A., & Co. (See McDonald, I. P., and MacMullen, assignors.)
- Patrick, Isaac, Jamaica, N. Y. Scissors or shears with composite blade. 1,627,197; May 3.
- Patrick, Isaac, Jamaica, N. Y. Composite blade for scissors, shears, etc., and cutters therefor. 1,628,856; May 17.
- Patrick, Isaac, Jamaica, N. Y. Composite blade for scissors, shears, etc., and cutter therefor. 1,634,508; July 5.
- Patrick, Noble M., and P. W. Horn, Charlotte, N. C. Valve mechanism for dispensing fluids. 1,632,501; June 14.
- Patscheider, Walter A., Auburndale, Mass. Electric heater for steam boilers and superheaters etc. 1,626,295; Apr. 26.
- Pattay, Marc A., and E. Jaquemont, Geneva, assignors to Magneto Lucifer, Societe Anonyme, Carouge-Geneva, Switzerland. Magneto-electric machine. 1,648,564; Nov. 3.
- Patterson, Charles H., assignor to Rex Manufacturing Company, Providence, R. I. Extension device for flexible bracelets. 1,636,646; July 19.
- Patten, Charles H., assignor to Rex Manufacturing Company, Providence, R. I. Mechanically-operated lead pencil. 1,636,704; July 26.
- Patten, Joseph E., Schenectady, N. Y. Electrical conductor terminal. 1,650,295; Nov. 22.
- Patten, William F., Washington, D. C. Toilet novelty. 1,632,920; June 21.
- Patten, William F., Washington, D. C. Syringe. 1,646,256; Oct. 18.
- Pattermann, Otto, Kladno, assignor to Poldihütte, Pilsen, Bohemia, Praha-Vlnohrad, Czechoslovakia. Steel. 1,625,741; Apr. 19.
- Patterson, Arthur, Covington, Ky. Closet. 1,651,901; Dec. 6.
- Patterson, Carl, Albuquerque, N. Mex. Handsaw. 1,622,466; Mar. 29.
- Patterson, Charley T., Springfield, Mo. Moisture guide for incubators. 1,625,420; Apr. 19.
- Patterson, Edwin M., Carnegie, Pa. Holder for feeding bottles. 1,649,852; Nov. 22.
- Patterson, J. M., and J. M. Patterson, The. (See Cawood, Richard L., assignor.)
- Patterson, Frank, Richfield Springs, N. Y. Weeder. 1,642,261; Sept. 13.
- Patterson, Frank, Geneseo, N. Y. Chicken feeder. 1,649,250; Nov. 15.
- Patterson, Irene, Trinidad, Colo. Stocking. Dec. 72,865; June 14.
- Patterson, James B. (See Ingersoll, Joseph, assignor.)
- Patterson, John, Oakland, Calif., assignor to John Patterson Inventions, Inc., Reno, Nev. Clutch. 1,618,477; Feb. 22.
- Patterson, John F., Warren, Ohio. Dishwasher. 1,623,203; Apr. 5.
- Patterson, John, Inventions, Inc. (See Patterson, John, assignor.)
- Patterson, John L., assignor to Richmond Beverage Machine Corporation, Richmond, Va. Liquid-dispensing apparatus. 1,650,151; Nov. 22.
- Patterson, John W. (See Ambrose, R. B., and Patterson.)
- Patterson, Luther, assignor to H. F. Smith, Harris County, Tex. Rotary. 1,639,268; Aug. 16.

- Patterson, M. F., Dental Supply Co. (See Holman, Frank L., assignor.)
- Patterson, Martin L., Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Search-light truck. 1,622,392; Mar. 29.
- Patterson, Martin L., Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Arc lamp. 1,645,966; Oct. 18.
- Patterson, Ralph J., Watertown, assignor to Walker & Pratt Manufacturing Company, Boston, Mass. Automatically controlled switch device. 1,613,503; Jan. 11.
- Patterson, Ralph N., and A. G. Fell, assignors of one-fifth to J. B. Bell, Montreal, Quebec, Canada. Vestibule-car door and traps. 1,614,686; Jan. 18.
- Paterson, Robert H., Atlanta, Ga. Bottle. Des. 72,385; Apr. 5.
- Patterson, Roy G., Hugoton, Kans., assignor of twenty-five per cent to M. R. Stewart, Wilburton, and twenty-four per cent to F. Beatty, Hutchinson, Kans. Broom-corn harvester. 1,639,055; Aug. 16.
- Patterson, Samuel C., Judson, N. C. Cylinder lock. 1,652,953; Dec. 18.
- Patterson, Thomas S., Malaga, N. J. Rotary pump. 1,645,967; Oct. 18.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical instrument. 1,631,329; June 7.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projection apparatus. 1,636,647; July 19.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Case for hemacytometer and similar apparatus. 1,639,438; Aug. 16.
- Patterson, William L., Rochester, assignor to Bausch & Lomb Optical Co., Rochester, N. Y. Colorimeter. 1,643,515; Sept. 27.
- Patton, Albert W., Lockport, N. Y. Headlight for spring bumpers. 1,644,945; Oct. 11.
- Patton, Albert W., Lockport, N. Y. Combined bumper and advertising medium. 1,647,014; Oct. 25.
- Patton, Brooke H. (See Hurley, R. D., and Patton.)
- Patton, Carl B. (See Blaine, J. G., and Patton.)
- Patton, Crafton, et al. (See Lomax, John L., assignor.)
- Patton, Eabeham, G., Norristown, Pa. Adjustable safety steel tread. 1,617,346; Feb. 15.
- Patton, Hal T., assignor to The Bishop & Babcock Company, Cleveland, Ohio. Method of and apparatus for charging hollow expansible elements. 1,629,174; May 17.
- Patton, Luther, Birmingham, Ala., assignor to Tube Joy Patch Company. Tire-patching appliance. 1,651,933; Dec. 6.
- Patus, Alexander, and L. Nagy, assignors of one-third to N. E. Nay, South Bend, Ind. Wheel brake. 1,629,407; May 17.
- Patzer, John G., St. Louis, Mo. Indicating instrument. 1,641,454; Sept. 6.
- Paty, John G., St. Louis, Mo. Fuel-supply indicator. 1,654,307; Dec. 27.
- Patzwahl, Erich. (See Obergfell, G. and Patzwahl.)
- Paul, A. C., et al. trustees. (See Curtis, Lewis E., assignor.)
- Paul, Carl W., New York, N. Y. Automobile mirror system. 1,617,270; Feb. 8.
- Paul, Frederick W., Minneapolis, Minn. Method of and device for mounting thermometers. 1,641,500; Sept. 6.
- Paul, Howel, C., Melrose, assignor to Anderson Manufacturing Company, Everett, Mass. Spring cover. 1,614,150; Jan. 11.
- Paul, Jennie H., Amarillo, Tex. Body applicator. 1,627,618; May 10.
- Paul, Joseph D., Philadelphia, Pa. Grade-crossing gate. 1,626,964; May 9.
- Paul, Raymond, assignor of one-half to J. E. Koehler, Chicago, Ill. Display device. 1,652,636; Dec. 13.
- Paul, Sydney. (See Twyman, B. W. and Paul.)
- Paul, William E., Schenectady, N. Y., assignor to General Electric Company, Circuit interrupter. 1,623,851; Apr. 5.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Subsoil plow. 1,625,278; Apr. 19.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Gang plow. 1,627,924; May 10.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Weed-cutting device. 1,628,422; May 10.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Disk harrow. 1,639,104; Aug. 16.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Mounting for disks. 1,641,688; Sept. 6.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Cultivator. 1,640,080; Oct. 4.
- Paul, Julius J., North Baltimore, Ohio. Wrench. 1,641,989; Sept. 18.
- Paulett, William F., Scottsville, Va. Adjustable trestle. 1,618,305; Feb. 22.
- Pauley, Hiram J., Streator, Ill. Poultry feeder and exciser. 1,620,689; Jan. 15.
- Pauli, Heinrich, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Transmitter circuit. 1,647,659; Nov. 1.
- Pauli, Frederick. (See Fall, C., and Pauli.)
- Paul, Wallace H., Erdington, Birmingham, assignor to The Dunlop Rubber Company, Limited, Birmingham, England. Manufacture of rims. 1,649,922; Nov. 22.
- Paulsen, Adolph, San Carlos, Calif. Casing for artesian wells. 1,645,719; Oct. 18.
- Paulson, Arthur, New York, N. Y. Mechanical box. 1,653,967; Dec. 27.
- Paulson, Charles J., Brooklyn, N. Y. Vending machine. 1,617,496; Feb. 15.
- Paulson, Clark M., Montevideo, Minn. Storm shield for automobiles. 1,638,508; Aug. 9.
- Paulson, Martin L., Fort Snelling, Minn. Punctureproof pneumatic tire. 1,619,433; Mar. 1.
- Paulson, Ole B., Great Falls, Mont. Hay-harvesting apparatus. 1,637,048; July 26.
- Paulson, Peter L., Clinton, Minn. Fire-kindling material. 1,626,965; May 3.
- Paulson, Victor E., Esmond, S. Dak. Adjustable wrench. 1,631,884; June 7.
- Paulson, Walter H. (See Lathrop, H. D., and Paulson.)
- Paulson, Walter H., assignor to H. D. Lathrop, Chicago, Ill. Bottle-washing machine. 1,642,824; Sept. 20.
- Paulus, Charles L. (See Kauch, R. and Paulus.)
- Paulus, Charles L. (See McCune, M., and Paulus.)
- Paulus, Charles L. (See Russell, H. O., and Paulus.)
- Paulus, Charles L., Dayton, Ohio. Bomb or dare rack. 1,628,825; Sept. 27.
- Paulus, Charles L., Dayton, Ohio. Manually-adjustable wind-vane sight. 1,650,648; Nov. 29.
- Paulus, Charles L., and R. Kauch, Dayton, Ohio. Adjustable impulse generator. 1,622,121; Mar. 22.
- Paulus, Charles L., Dayton, Ohio, and R. Kauch, U. S. Army, Camp Nichols, P. I. Fuselage for aircraft. 1,622,205; Mar. 22.
- Paulus, Charles L., and R. Kauch, Dayton, Ohio. Message carrier. 1,641,549; Sept. 6.
- Paulus, Max G., Casper, Wyo., assignor to Standard Oil Company, Whiting, Ind. Sweetening hydrocarbon oils. 1,628,423; May 17.
- Paulus, Max G., and O. C. Brewster, Casper, Wyo., assignors to Standard Oil Company, Whiting, Ind., and Chicago, Ill. Apparatus for the distillation of hydrocarbon oils. 1,615,400; Jan. 25.
- Paulus, Max G., and E. P. Dillik, New York, N. Y. Article of merchandise. 1,632,673; June 14.
- Pauly, Charles, Port Washington, Wis. Vat. 1,633,271; June 21.
- Pauly, Charles, Port Washington, assignor to Pauly and Pauly Cheese Company, Manitowoc, Wis. Cheese mold. 1,634,231; June 28.
- Pauly Jail Building Company. (See Hoppenjans, Bernard J., assignor.)
- Pauly Jail Building Company. (See Pauly, Peter J., assignor.)
- Pauly Jail Building Company. (See Tracy, Michael J., assignor.)
- Pauly and Pauly Cheese Company. (See Pauly, Charles, assignor.)
- Pauly, Peter J., assignor to Pauly Jail Building Company, St. Louis, Mo. Composite steel bar. 1,630,631; May 31.
- Paupa, Joseph, et al. (See Paupa, Joseph, assignor.)
- Paupa, Joseph, deceased; Union Trust Company, executor, assignor to J. Paupa and A. K. Volsch, Chicago, Ill. Automatic vending machine. 1,643,316; Sept. 27.
- Pause, Ernst, Cologne-Mulheim, Germany. Device for separating the closure for preserve containers. 1,629,395; May 17.
- Pausser, Edmond, et al. (See Bongers, Arnold H., assignor.)
- Pavek, Jerry, Polar, Wis. Sound amplifier for radio and telephone reception. 1,644,605; Oct. 4.
- Pavel, Ferdinand, New York, N. Y. Portable electric lamp. Des. 73,941; Nov. 22.
- Pavia, Luigi, Allentown, Pa. Shuttle. 1,630,355; May 31.
- Pavia, Luigi, Allentown, Pa. Tension device and the like. 1,631,330; June 7.
- Pavola, Alfred, New York, N. Y. Window latch and guard. 1,627,202; Mar. 22.
- Pawling, George F., Philadelphia, Pa. Support for bar joists. 1,614,570; Jan. 18.
- Pawling, George F., Philadelphia, Pa. Furring construction. 1,625,866; Apr. 26.
- Pawling, George F., Philadelphia, Pa. Supporting ceiling furring. 1,625,866; Apr. 26.
- Pawling, George F., Philadelphia, Pa. Screed support. 1,631,502; June 7.
- Pawst, Ewald F., Maysville, Ky., assignor to Wald Manufacturing Company. Tire-repair tool. 1,619,538; Mar. 1.
- Paxson, David W. (See Paxson, John W., assignor.)
- Paxson, John W., assignor, by mesne assignments, to David W. Paxson, Philadelphia. Advertising device. 1,647,883; Nov. 1.
- Paxson, John W., et al. Glenside, Pa. Child's vehicle. 1,653,583; Dec. 20.
- Paxton, Arthur H., Omaha, Nebr. Carcass-splitting machine. 1,620,035; Mar. 8.
- Paxton, Clifford M., Brooklyn, N. Y. Gyroscopic apparatus. 1,630,233; Aug. 16.
- Paxton, Earl F., Schenectady, N. Y., assignor to General Electric Company, Arc welding. 1,635,764; July 12.
- Payne, Arthur A., Humboldt, Kans. Amusement device. 1,629,808; May 24.
- Payne, Ballard I. (See Lowe, Richard T., assignor.)

- Payne, Caleb, assignor to Gypsum Engineering & Manufacturing Co., Chicago, Ill. Continuous self-cleaning mixer. 1,628,632; May 10.
- Payne, Caleb, assignor to Gypsum Engineering & Manufacturing Co., Chicago, Ill. Making gypsum stucco blocks and the like. 1,630,579; May 31.
- Payne, Charles E., New York, N. Y. Digging apparatus. 1,647,840; Nov. 1.
- Payne, Charles H., Cincinnati, Ohio. Receptacle for paste or muckage. 1,613,358; Jan. 4.
- Payne, Clarence Q., New York, N. Y. Electromagnetic clutch. 1,622,261; Mar. 22.
- Payne, Edward B., Great Neck, assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for loading transmission circuits. 1,613,958; Jan. 11.
- Payne, Edward B., Great Neck, assignor to Western Electric Company, Incorporated, New York, N. Y. Inductance coil and manufacturing the same. 1,624,560; Apr. 12.
- Payne, Edward T., and G. E. Page, Peru, Ind. Oil burner. 1,653,468; Dec. 20.
- Payne, El Roy L., assignor to Payne Furnace and Supply Company, Los Angeles, Calif. Electrically controlled valve for gas burners, etc. 1,614,302; Jan. 13.
- Payne, Frank E., assignor to Crane Packing Company, Chicago, Ill. Packing. 1,653,439; Dec. 20.
- Payne Furnace and Supply Company. (See Payne, E. L., assignor.)
- Payne, Halsey D., A. W. De Clerque, and S. T. Sjoberg, Chicago, Ill., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Washing machine with folding wringer. Re16,776; Oct. 18.
- Payne, Harold T., Sacramento, Calif. Doll. 1,615,401; Jan. 25.
- Payne, James F. (See Reiter, J. M., Nanney, and Payne.)
- Payne, John S., Midland Park, N. J. Throttle-control mechanism. 1,625,563; Apr. 19.
- Payne, John S., Midland Park, N. J. Brake-operating mechanism. 1,628,060; May 10.
- Payne, Lindsey E., Carmel, Calif. Display cabinet. 1,613,529; Jan. 4.
- Payne, Minton M., et al. (See Bellman, John A., assignor.)
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Yieldable gateway for weft-replenishing looms. 1,633,646; June 28.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off mechanism for looms. 1,643,417; Sept. 27.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam for looms. 1,647,716; Nov. 1.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multiple-needle weft detector. 1,651,100; Nov. 29.
- Payne, Robert D., et al. (See Underwood, Walter O., assignor.)
- Payne, Rosco, Macedonia, Ill. Road-bed-building machine. 1,622,970; Mar. 29.
- Paynter, Albert J., Osborne, Kans. Rotary sieve. 1,633,120; June 21.
- Paynter Corporation. (See Paynter, John C., assignor.)
- Paynter, John C., assignor to Paynter Corporation, Philadelphia, Pa. Tire mold. 1,632,310; June 14.
- Pays, Achille, Paris, France. Reciprocating-saw machine more particularly for the sawing of metals. 1,651,101; Nov. 29.
- Payson, Aurin E., and W. R. Hastedt, assignors, by mesne assignments, to The American Thermos Bottle Company, Norwich, Conn. Container. 1,639,529; Aug. 16.
- Payson, Edward, Philadelphia, Pa. Self-closing valve nozzle. 1,649,726; Nov. 15.
- Payson, Edward B., assignor of one-half to M. T. Winston, Spooner, Wis. Staple. 1,639,530; Aug. 16.
- Payton, Harry, Providence, R. I. Arm rest. 1,650,385; Nov. 22.
- Payton, Victor R., Ardmore, Okla. Razor compact. 1,620,389; Mar. 8.
- Payzant, Henry H., Everett, Wash. Floor-laying machine. 1,631,501; June 7.
- Payzant, Henry H., Everett, Wash., assignor to Wood Conversion Company, Cloquet, Minn. System of feed control. 1,627,925; May 10.
- Payzant, Henry H., Everett, Wash., assignor to Wood Conversion Company, Cloquet, Minn. Distributing hood. 1,627,926; May 10.
- Pazzi, Anibal J., S. and L. J. D., and A. P. Ordoñez, Buenos Aires, Argentina. Apparatus for drying, curing, ventilating, or otherwise treating grain or the like. 1,630,308; May 31.
- Pazzi, Luis J. D. (See Pazzi, A. J. S. and L. J. D., and Ordoñez.)
- Peabody Engineering Corporation. (See Bixby, Alvan H., assignor.)
- Peabody Engineering Corporation. (See Peabody, Ernest H., assignor.)
- Peabody Engineering Corporation. (See Seaver, E., and Mazzur, assignors.)
- Peabody, Ernest H., Pelham Manor, assignor to Peabody Engineering Corporation, New York, N. Y. Apparatus and method for burning liquid fuel. 1,628,424; May 10.
- Peabody, Ernest H., Pelham Manor, assignor to Peabody Engineering Corporation, New York, N. Y. Air register. 1,639,056; Aug. 16.
- Peabody, Ernest H., Pelham Manor, assignor to Peabody Engineering Corporation, New York, N. Y. Viscometer. 1,639,057; Aug. 16.
- Peabody, George M., Hyde Park, Mass., assignor to E. E. Taylor Company, Boston, Mass. Ventilated insulator. 1,642,308; Sept. 13.
- Peabody, James A., Evanston, Ill., assignor to General Railway Signal Company. Control means for light signals. 1,627,453; May 3.
- Peache, Thomas J., Nevada, Mo. Heating apparatus. 1,622,800; Mar. 29.
- Peachee, George W., Coal City, Ind. Trestle. 1,612,941; Jan. 4.
- Peachey, Stanley J., London, and A. Skipsey, Woking, England. Vulcanization of caoutchouc. 1,653,821; Dec. 27.
- Peacock, Albert R., Rome, Ga. Refrigerator door. 1,629,408; May 17.
- Peacock, Arthur W., Albany, N. Y. Producing and maintaining a sanitary condition in milk pipes and the like. 1,647,466; Nov. 1.
- Peacock, Frank, Croynod, Sydney, New South Wales, Australia. Bumper bar and rear fender for automobiles. 1,637,454; Aug. 2.
- Peacock, Marshall H., Detroit, Mich. Signal. 1,651,408; Dec. 6.
- Peaden, William H., Oklahoma City, Okla., assignor to Automatic Lubricating Oil Equipment. Dispensing vessel. 1,654,429; Dec. 27.
- Peake, Edward S., assignor to The Kilgore Mfg. Company, Westerville, Ohio. Toy pistol. 1,647,577; Nov. 1.
- Peale, Rembrandt. (See Davis, Kenneth, assignor.)
- Peale, Rembrandt, et al. (See Peale, Richard, assignor.)
- Peale, Rembrandt, et al., trustees. (See Davis, Kenneth, assignor.)
- Peale, Rembrandt, et al., trustees. (See Peale, Richard, assignor.)
- Peale, Richard, St. Benedict, Pa., assignor, by mesne assignments, to Rembrandt, Peale, St. Benedict, Pa., W. S. Davies, New York, N. Y., and W. S. Wallace, Philadelphia, Pa. Mining and conveying machine. 1,628,320; May 10.
- Peale, Richard, St. Benedict, Pa., assignor, by mesne assignments, to R. Peale, W. S. Davies, and W. S. Wallace, trustees. Conveyer. 1,640,959; Aug. 30.
- Peale, Richard, St. Benedict, Pa., assignor, by mesne assignments, to R. Peale, W. S. Davies, and W. S. Wallace, trustees. Conveyer mechanism. 1,613,786; Sept. 27.
- Pearce, Clarence H., Accokeek, Md. Hub and brake mechanism. 1,617,648; Feb. 15.
- Pearce, James W., assignor to Goodman Manufacturing Company, Chicago, Ill. System for mining. 1,622,837; Mar. 29.
- Pearce, James W., assignor to Goodman Manufacturing Company, Chicago, Ill. System for mining. 1,632,800; June 21.
- Pearce, Louis M., Houston, Tex. Back-pressure valve. 1,615,811; Jan. 25.
- Pearce, Louis M., and J. O. McPherson, Houston, Tex. Casing head. 1,642,745; Sept. 20.
- Pearce, Richard T., Covington, Ky. Splice for wick ends and the like. 1,646,104; Oct. 18.
- Pearce, Sidney. (See Johnson, C. E., and Pearce.)
- Pearce, William H., assignor to Coast Culvert & Flume Co., Portland, Oreg. Welding mandrel. 1,642,825; Sept. 20.
- Pearen, William H. E. (See Gordon, B. D., and Pearen.)
- Pearl, Frank A., Madison, Wis. Coaster-wagon steering gear. 1,625,421; Apr. 19.
- Pearl, Frank A., North Milwaukee, Wis. Convertible coater wagon. 1,625,422; Apr. 19.
- Pearl, Samuel. (See Bolozky, S., and Pearl.)
- Pearl, Simon. (See Shore, Morris, assignor.)
- Pearshall, William A., Jr., Detroit, Mich. Running-board lamp. 1,623,131; Apr. 5.
- Pearson, Vivian J., Everett, Wash. Apparatus for treating patients by bodily movements. 1,641,093; Aug. 30.
- Pearson, Albert. (See Stone, Gunnard, assignor.)
- Pearson, Anton, and D. N. Lindquist, Lindsborg, Kans. Milk card. 1,619,756; Mar. 1.
- Pearson, Carl E., Cleveland, Ohio, assignor to The Cleveland Trust Company, trustees. Adjusting means for sound-reproducing mechanism. 1,632,416; June 14.
- Pearson, Charles, assignor to International Harvester Company, Chicago, Ill. Lifting device for tractor mowers. 1,627,711; May 10.
- Pearson, Charles, assignor to International Harvester Company, Chicago, Ill. Hitch. 1,632,145; June 14.
- Pearson, Charles F., Flushing, N. Y. Plug attachment. 1,618,723; Feb. 22.
- Pearson, Charles H. (See Bold, Frederick W., assignor.)
- Pearson, Chester L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last-scouring wheel. 1,632,244; June 14.
- Pearson, Edith, San Francisco, Calif. Medicine-dropper holder. 1,618,724; Feb. 22.
- Pearson, Edmund C., and J. Childs, assignors to Vickers Limited, Westminster, London, England. Slips for supporting drill pipes in well-boring apparatus. 1,643,750; Sept. 27.

- Pearson, Eric A., Portland, Oreg. Method and apparatus for changing drum sheaves and cables on lift bridges. 1,629,284; Mar. 8.
- Pearson, Brick, Minneapolis, Minn. Tread-belt tractor. 1,632,674; June 14.
- Pearson, Frank C., assignor to General Motors Research Corporation, Dayton, Ohio. Hydraulic brake system for motor vehicles. 1,635,221; July 12.
- Pearson, Gardner W. (See Proctor, John H., assignor.)
- Pearson, George C., Youngstown, Ohio. Snubber for vehicles. 1,627,113; May 3.
- Pearson, George D., Montreal, Quebec, Canada. Automobile tire. 1,625,679; Apr. 19.
- Pearson, Herbert B., Brooklyn, N. Y., assignor to Ship Owners Radio Service, Inc., New York, N. Y. Inductance-coil attachment. 1,630,903; May 31.
- Pearson, Herman E., Wayzata, Minn. Traction driving means for vehicles. 1,637,553; Aug. 2.
- Pearson, John, Pullman, assignor to The Pullman Company, Chicago, Ill. Collapsible rack. 1,621,558; Mar. 22.
- Pearson, John C., Tuscaloosa, Ala. Inkstand. Des. 73,265; Aug. 16.
- Pearson, Lawrence J., Wyncofte, assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-sealing construction. 1,651,226; Nov. 29.
- Pearson, Lenora J., Seattle, Wash. Hairpin. 1,618,385; Feb. 22.
- Peary, Ray P., Upper Montclair, N. J., assignor to The Barrett Company, Coking pitch. 1,650,127; Nov. 22.
- Pease, Emma C., Nantucket, Mass. Towel. 1,615,721; Jan. 25.
- Pease, F. F., Inc. (See Pease, Fred F., assignor.)
- Pease, Fred F., East Braintree, assignor to F. F. Pease Inc., Boston, Mass. Air-cleaning apparatus. 1,620,780; Mar. 15.
- Pease, Fred F., East Braintree, assignor to F. F. Pease Inc., Boston, Mass. Vacuum cleaner. 1,631,549; June 7.
- Pense, Isaac M., Cincinnati, Ohio. Truss pad. 1,627,992; May 10.
- Pease, Isaac M., Cincinnati, Ohio. Arch and ankle support. 1,639,193; Aug. 16.
- Pease, Isaac M., Cincinnati, Ohio, assignor to The Ohio Truss Company. Pad for trusses. 1,648,361; Nov. 8.
- Pease, John A., et al. (See De Wallace, Harry, assignor.)
- Pease, John A., et al. (See Kave, Oscar C., assignor.)
- Pease, John A. (See Weeks, Wallace M., assignor.)
- Pease, John A. (See Weeks, W. M., and Pease.)
- Pease, John A., Syracuse, N. Y. Bottle closure. 1,644,542; Oct. 4.
- Pease, John W., assignor to W. N. Pease, Rochester, N. Y. Apple-paring machine. 1,615,914; Feb. 1.
- Pease, William P. (See Pease, John W., assignor.)
- Peasley, Frank O., New Haven, Conn. Clutch-control mechanism for tractors. 1,621,427; Mar. 15.
- Peatling, Harrison B. (See Allison, Charles F., assignor.)
- Peccerillo, Dominick, New Haven, Conn. Control system. 1,616,821; Feb. 8.
- Peccerillo, Rudolphe, Geneva, Switzerland. Electrolyzer electrode of the filter press type. 1,643,900; Sept. 27.
- Pecina, Rudolph F., and E. V. Carlson, Los Angeles, Calif. Musical string-instrument tuner. 1,626,753; May 3.
- Peck, Charles B., Suffern, N. Y. Washing paper. 1,631,757; June 7.
- Peck, Charles W. (See Stackhouse, George A., assignor.)
- Peck, Elmer E., Neosho, Mo. Suspender attachment. 1,636,712; July 26.
- Peck, Hannaford & Peck Company, The. (See Peck, Robert E., assignor.)
- Peck, Joe H., Lisco, Nebr. Animal trap. 1,614,896; Jan. 18.
- Peck, John M., assignor to The Porcelain Insulator Corporation, Lima, N. Y. Suspension insulator. 1,645,447; Oct. 11.
- Peck, John M., assignor to The Porcelain Insulator Corporation, Lima, N. Y. Sectional insulator. 1,649,853; Nov. 22.
- Peck, John M., Honeyoe Falls, assignor to The Porcelain Insulator Corporation, Lima, N. Y. Suspension insulator. 1,653,117; Dec. 20.
- Peck, Lee H., Cleveland, Ohio. Switch for automobile signal lamps. 1,646,419; Oct. 25.
- Peck Milling & Coal Co., The. (See Peck, Rufus F., assignor.)
- Peck, Raymond S., Vicksburg, Miss. Air-regulating fire shield. 1,652,322; Dec. 13.
- Peck, Robert E., assignor to The Peck, Hannaford & Peck Company, Cincinnati, Ohio. Ventilator canopy. 1,633,581; June 14.
- Peck, Robert G. (See Brown, A., and Peck.)
- Peck, Robert G., and A. Brown, assignors to The Aridor Company, Chicago, Ill. Display receptacle. 1,623,330; May 10.
- Peck, Rufus F., assignor to The Peck Milling & Coal Co., Cassopolis, Mich. Toy boat and its manufacture. 1,614,967; Jan. 18.
- Peck, Samuel S., Honolulu, Hawaii. Strainer for sugar juices and the like. 1,619,484; Mar. 1.
- Peck, Samuel S., Honolulu, Hawaii. Strainer for sugar juices and the like. 1,646,556; Oct. 25.
- Peck Shoe Company. (See Cristallini, Charles O., assignor.)
- Peck Stow & Wilcox Co., The. (See Ellrich, Charles N., assignor.)
- Peck, William A., New Haven, Conn. Extension-bit holder. 1,651,777; Dec. 6.
- Peckenpaugh, John F., Cedar Rapids, Iowa. Window platform. 1,625,423; Apr. 19.
- Pecker, Joseph S., assignor, by mesne assignments, to Dixie Dental Manufacturing Co., Philadelphia, Pa. Dentist's anvil. 1,626,754; May 3.
- Pecker, Joseph S., assignor of one-third to M. Katzander, one-third to E. Bloss, and one-third to C. Jelinek, Philadelphia, Pa. Folding chair. 1,632,146; June 14.
- Pecker, Joseph S., assignor of one-half to E. Brown, Philadelphia, Pa. Oil burner. 1,651,628; Dec. 6.
- Peckham, Charles F., Providence, R. I. Differential valve. 1,613,478; Jan. 4.
- Peckham, Charles F., Providence, R. I. Fusible link or strut. 1,613,479; Jan. 4.
- Peckham, Frank J., Troy, Ohio. Fishing float. 1,632,502; June 14.
- Pectal, Oliver J., and E. J. Palmer, Philmont, N. Y. Multiple marker and spacer. 1,624,622; Apr. 12.
- Pedely, Walter B., Mason City, Iowa. Centrifugal fan. 1,643,317; Sept. 27.
- Pedersen, Frank J., Salt Lake City, Utah. Curling iron. 1,618,306; Feb. 22.
- Pedersen, Florian B., and H. P. Andersen, Alameda, Calif. Universal joint. 1,621,428; Mar. 15.
- Pedersen, Harald, Trondhjem, Norway, assignor to Aluminum Company of America, Pittsburgh, Pa. Manufacture of aluminum hydroxide. 1,615,105; Feb. 15.
- Pedersen, Herman, Bathbeach, N. Y. Supplying fuel to explosive engines. 1,624,623; Apr. 12.
- Pedersen, James A. and K. A., Tacoma, Wash. Front axle and spindle assembly. 1,653,061; Dec. 20.
- Pedersen, John, St. Louis, Mo. Electric sign. 1,627,993; May 14.
- Pedersen, John, St. Louis, Mo. Gate mechanism for freight elevator hatchways. 1,627,994; May 10.
- Pedersen, Kenneth A. (See Pedersen, James A. and K. A.)
- Pedersen, Peder O., Frederiksberg, Denmark. Radiosignaling antenna system. 1,614,990; Jan. 13.
- Pedersen, Walter B., Mount Vernon, N. Y. Golf club. 1,616,920; Feb. 8.
- Pederson, Elling, Leadville, Colo. Self-loading dumping skip or hopper. 1,616,466; Feb. 8.
- Pederson, Harold G. (See Llewellyn, L. M., and Pederson.)
- Pederson, Harold G., Syracuse, N. Y. Counterbalancing device. 1,645,254; Oct. 11.
- Pederson, Howard L., et al. (See Erickson, August, assignor.)
- Pedigo, Benjamin H., Jackson, Tenn. Netting door for locomotive smoke boxes. 1,652,530; Dec. 13.
- Pedigo, Walter, et al. (See Donnellon, Blanche, assignor.)
- Pedlar People Limited, The. (See Hall, William H., assignor.)
- Pedrick, Howard A., Bala, assignor to Ev-Air-Tight Calking Co., Philadelphia, Pa. Calking machine. 1,632,559; June 14.
- Pedraza, Nicola, Meyersdale, Pa. Mining machine. 1,638,361; Aug. 9.
- Peebles, David D. (See O'Donnell, E. M., and Peebles.)
- Peebles, Frank W. L., assignor to J. L. Hopkins, trustee, St. Louis, Mo. Vacuum packing apparatus. 1,631,885; June 7.
- Peebles, Joseph B., and C. M. Stewart, Portsmouth, Ohio; said Stewart assignor to said Peebles. Lawn mower. 1,644,386; Jan. 11.
- Peebles, Thomas A., Pittsburgh, assignor to J. M. Hopwood, Dormont, Pa. Steam-separating apparatus for steam generators. 1,626,625; May 3.
- Peedie, Jenn M., Grantwood, N. J. Vanity hat lining. 1,615,535; Jan. 11.
- Peelle Company, The. (See Peelle, Robert S., assignor.)
- Peelle, Robert S., Hollis, assignor to The Peelle Company, Brooklyn, N. Y. Electric interlock for elevator doors. 1,623,267; Apr. 5.
- Peer, Edward S., Los Angeles, Calif. Safety-deposit receptacle. 1,634,884; July 5.
- Peer, Richard W., East Orange, assignor of one-half to P. A. Sawyer, Hasbrouck Heights, N. J. Boot and shoe and method of manufacture. 1,643,678; Sept. 27.
- Peerless Electric Company, The. (See Reibel, Herman G., assignor.)
- Peerless Handcuff Company. (See Murphy, John J., assignor.)
- Peerless Husker Company. (See Sells, Millar W., assignor.)
- Peerless Light Company. (See Herskovitz, William, assignor.)
- Peerless Light Company. (See Herst, Edward, assignor.)
- Peerless Machine Company, The. (See Lautenschlager, William F., assignor.)
- Peerless Manufacturing Company. (See McMinn, John E., assignor.)
- Peerless Motor Car Corporation. (See Ruppel, Frederick C., assignor.)
- Peerless Novelty Company. (See Long, William F., assignor.)
- Peerless Pneumatic Systems, Inc. (See Bartling, Howard G., assignor.)
- Peerless Pneumatic Systems, Inc. (See Sausen, B. R., and Olsen, assignors.)

- Peerless Pump Company et al. (See Hollander, Aladar, assignor.)
- Peerless Tube Co. (See Lynch, William F., assignor.)
- Peers, E. P., et al. (See Carter, S. W. and O. E., assignors.)
- Peess, Walter J., Meadville, Pa. Furnace. 1,629,586; May 24.
- Peters, Henry, Warcoing, Belgium. Typewriter. 1,634,042; June 28.
- Peters, Henry, Warcoing, Belgium. Back-spacing mechanism for typewriters. 1,639,199; Aug. 16.
- Pests, Wilbur J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Centerless grinding machine. 1,635,339; July 12.
- Petz, Armin, Alfeld, Germany. Manufacture of chemical wood pulp. 1,653,730; Dec. 27.
- Pevey, D. K. (See Wharton, Sidney L., assignor.)
- Pevey, D. K. (See Wharton, S. L., and Pevey.)
- Peglay, Emile J., New York, N. Y. Syringe. 1,643,289; Sept. 20.
- Peglow, Albert H., Cudaky, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Safety device for calendars. 1,646,980; Oct. 25.
- Peglow, Otto, assignor to Ludwig Loewe & Co. Actiengesellschaft, Berlin, Germany. Measuring tool for screw threads. 1,640,215; Aug. 23.
- Peguero, José, Port Arthur, Tex. Apparatus for forming cakes. 1,621,896; Mar. 22.
- Pehrson, Alfred K., Bellevue, and K. O. Winell, assignors to Pressed Steel Corp., Pittsburgh, Pa. Articulated car. 1,644,394; Oct. 4.
- Peigné, Henri, Billancourt, France. Flexible coupling. 1,635,496; July 12.
- Peller, Karl E., West Hartford, Conn. Feeding molten glass. 1,631,107; May 31.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for shaping molten glass. 1,617,220; Feb. 8.
- Peller, Karl E., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding molten glass. 1,622,666; Mar. 29.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Fabricating glassware in suction-fed molds. 1,626,575; Apr. 26.
- Peller, Karl E., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for separating molten glass into mold charges. 1,629,409; May 17.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Mold-charge-guiding device. 1,629,926; May 24.
- Peller, Karl E., assignor to Hartford-Empire Company, Hartford, Conn. Leer conveyor. 1,635,861; July 12.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Feeding molten glass. 1,644,393; Oct. 11.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Gathering-pool level regulator. 1,646,705; Oct. 25.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Multiple glass feeder. 1,647,746; Nov. 1.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for handling glassware. 1,654,091; Dec. 27.
- Peinlich, Max, White Plains, assignor to Columbia Lighting Fixture Co., Inc., New York, N. Y. Arm for a lighting fixture or the like. Des. 72,801; June 7.
- Peinlich, Max, White Plains, assignor to Columbia Lighting Fixture Co., Inc., New York, N. Y. Backplate for a lighting fixture or the like. Des. 72,911; June 21.
- Peinlich, Max, White Plains, assignor to Columbia Lighting Fixture Co., Inc., New York, N. Y. Arm for a lighting fixture or the like. Des. 72,912; June 21.
- Peinlich, Max, White Plains, assignor to Columbia Lighting Fixture Co., Inc., New York, N. Y. Chandelier or the like. Des. 73,266; Aug. 16.
- Peinlich, Max, White Plains, assignor to M. Geringer, Yonkers, N. Y., assignor to Geringer Lighting Fixture Mfg. Co. Lighting-fixture strap or analogous article. Des. 73,508; Sept. 20.
- Pearce, Charles L., jr., Pittsburgh, Pa. Making insulator pins. 1,652,835; Dec. 13.
- Pearce, Clarence A., assignor to The New England Paper Box Company, New Haven, Conn. Candy or like box. Des. 73,983; Nov. 29.
- Pearce, Clarence A., assignor to New England Paper Box Company, New Haven, Conn. Candy box or the like. 1,636,387; July 19.
- Pearce, John R., assignor to International Business Machines Corporation, New York, N. Y. Tabulating apparatus. 1,623,204; Apr. 5.
- Pearce, John R., New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y. Accounting machine. 1,626,871; May 3.
- Peirez, Wolf, New York, N. Y. Gutter hanger. 1,640,369; Aug. 30.
- Peiseler, Gottlieb, Leipzig-Teutsch, Germany. Automatic device for recording the movements of machines and the like. 1,631,109; May 20.
- Peitzer, Jacob, Brooklyn, N. Y. Skeleton form for headpieces of furs. 1,636,575; July 19.
- Peltzman, Clarence F., Grimes, Iowa. Aerial for radio-reception. 1,649,727; Nov. 15.
- Pelich, Michael, Pittsburgh, Pa. Water gauge. 1,630,632; May 31.
- Pelican Toy Company. (See Wismar, Albert D., assignor.)
- Pellicier, Dominick, Fall River, Mass. Miter box. 1,625,424; Apr. 19.
- Pelkey, Milton, Milwaukee, Wis. Lock bolt. 1,619,757; Mar. 1.
- Pelkey, Oliver E., Springfield, Mass. Support. 1,623,749; Apr. 5.
- Pellegri, Joseph A., Pittsburgh, Pa. Parking light. 1,629,456; May 17.
- Pellegri, William A. (See De Lucia, J. B., and Pellegri.)
- Pellegri, Vincenzo, Rye, N. Y. Cover for curative medicines. 1,629,297; May 17.
- Pellegri, Vincenzo, Rye, N. Y. Evaporator for carbonylators. 1,632,675; June 14.
- Pellegri, Vincenzo, Rye, N. Y. Electrician's pliers. 1,644,351; Oct. 4.
- Pellerin, Arthur E., Standish, N. Y. Suspenders. 1,617,306; Feb. 8.
- Pelletier, Leonard. (See Whitehouse, V. B., and Pelletier.)
- Pelletier, Robert S., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Snowplow. 1,653,118; Dec. 20.
- Pellini, Joseph, Marseille, France. Electric cell with constant intensity. 1,621,518; Mar. 22.
- Pelton, Charles E., Detroit, Mich. Castelling machine. 1,624,180; Apr. 12.
- Peloubet, William S., New York, N. Y. Catamenial sack and womb support. 1,634,555; July 5.
- Pelouze Manufacturing Co. (See Schultz, Frank A., assignor.)
- Pelroy, Samuel E., French, N. Mex. Device for massaging and lubricating the human system. 1,644,606; Oct. 4.
- Pels, Walter, New York, N. Y. Wedding ring. Des. 72,072; Feb. 22.
- Peluse, Teresa, G., Wentworth, Mo. Nursing-bottle protector. 1,626,457; Apr. 26.
- Peltoia, Toivo, Marquette, Mich. Rotary sewer cleaner. 1,637,914; May 17.
- Pelton, Chauncey R. (See Hand, J. A., and Pelton.)
- Pelton & Crane Company, The. (See Hand, J. A., and Pelton, assignors.)
- Pelton Knitting Mills, Inc. (See Pelton, Nathan, assignor.)
- Pelton, Nathan, assignor to Pelton Knitting Mills, Inc., Boston, Mass. Combined skirt and supporter. 1,615,192; Jan. 18.
- Pelton Water Wheel Co., The. (See Foulds, Charles V., assignor.)
- Pelton Water Wheel Co., The. (See Hutchinson, Ely C., assignor.)
- Pelton Water Wheel Company. (See Hutchinson, E. C., and Foulds, assignors.)
- Peltz, Ernest L., Rapid City, S. Dak. Wire stretcher. 1,637,587; Aug. 2.
- Peltzer, Franz F., Saarbrücken, Germany. Auxiliary exhaust valve for uniflow steam engines. 1,616,667; Feb. 8.
- Pelz, Bruno. (See Reinhardt, C. and Pelz.)
- Pelzer, Harold H., New York, N. Y. Machine for applying gumming labels, wrappers, and the like. 1,620,282; Mar. 8.
- Pelzer, Harry L. (See Herthel, E. C., and Pelzer.)
- Pemberton, Harold, assignor to National Manufacturing Company, Seattle, Wash. Toy balloon. 1,620,036; Mar. 8.
- Penberthy, Ernest, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Fluid-pressure tool. 1,624,179; Apr. 12.
- Penberthy, Ernest, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Fluid-pressure tool. 1,623,117; May 17.
- Penberthy, Ernest, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Lubrication of percussive tools. 1,629,730; May 24.
- Penberthy, Ernest, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Front head for percussive drills. 1,632,921; June 21.
- Penberthy, Ernest, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Fluid-pressure tool. 1,652,637; Dec. 13.
- Penberthy Injector Company. (See Warrick, Charles F., assignor.)
- Penberthy Injector Company. (See Yoder, Howard D., assignor.)
- Pence, Alonzo H., and W. A. Pence, Somerville, Ala. Mechanically-operated figure toy. 1,628,331; May 10.
- Pence, Lafe V., El Paso, Tex. Thermosphon radiator. 1,629,298; May 17.
- Pence, William A. (See Pence, Alonzo H. and W. A.)
- Pendergast, Elbert W., Seligman, Mo. Animal poke. 1,617,497; Feb. 15.
- Pendley, Edward W., assignor to The Higgin Manufacturing Company, New York, Ky. Metal fenestra screen support. 1,645,448; Oct. 11.
- Pendleton, Charlie A., Cramerton, N. C. Fuse puller. 1,638,703; Aug. 9.
- Pendleton, Frank R. (See Nelson, Gust, assignor.)

- Pendleton, Pyram L., assignor to Martin-Copeland Company, Providence, a trusteeship consisting of E. W. Martin, Barrington, L. C. Martin, Providence, R. I., and G. W. Blecker, Chicago, Ill. Radio dial escutcheon plate. Des. 72,723; May 24.
- Pendleton, Pyram L., Providence, R. I., assignor to E. W. Martin, L. C. Martin, and G. W. Blecker, trustees. Electric mounting or connector. 1,628,183; May 10.
- Pendock, Charles W., assignor to Le Roi Company, West Allis, Wis. Internal-combustion engine. 1,620,917; Mar. 15.
- Penfold, William J., Martinez, Calif. Pipe-sealing device. 1,624,995; May 10.
- Penecke, Walther, Graz, Austria, assignor to F. Bensa, Genova, Italy. Manufacturing dyes. 1,615,646; Jan. 25.
- Penfield, Arthur H., New York, N. Y. Traction device. 1,617,271; Feb. 8.
- Penfold, Albert E., assignor to The Dunlop Rubber Company Limited, Fort Dunlop, Birmingham, England. Golf ball. Des. 73,046; July 12.
- Pengilly, Joseph H., assignor to Brown & Pengilly, Inc., Los Angeles, Calif. Quick-break switch. 1,631,503; July 18.
- Pengilly, Joseph H., assignor to Brown & Pengilly, Inc., Los Angeles, Calif. Overload relay. 1,645,020; Oct. 11.
- Pengilly, Lewis, Oakland, Calif. Combination cigarette holder, dispenser, and lighter. Des. 73,332; Aug. 23.
- Peniche, Ruedoardo (See Villaseñor, Eduardo, assignor.)
- Pénin, Emile C., Joinville-le-Pont, France, assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Film winding and unwinding device for motion-picture apparatus. 1,627,198; May 8.
- Pénin, Emile C., Joinville-le-Pont, assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Electric contact plug. 1,628,633; May 17.
- Peniston, George E. (See Goodloe, E. L., and Peniston.)
- Penn, Albert, assignor of one-half to R. Penn, Des Moines, Iowa. Air-service device. 1,618,953; Feb. 22.
- Penn, Francis S., Talbot County, Md. Swivel-snare trigger. 1,647,578; Nov. 1.
- Penn, George R. (See Oliver, R. M., and Penn.)
- Penn, George R., assignor to S. R. Penn Mfg. Co., New York, N. Y. Loud-speaker unit. 1,625,148; Apr. 19.
- Penn Hardware Company. (See Wolff, Wilhelm, as signor.)
- Penn, Ralph. (See Penn, Albert, assignor.)
- Penn, S. R. Mfg. Co. (See Penn, George R., assignor.)
- Pennart, Pierre, Lille, France. Picker for weaving looms. 1,642,262; Sept. 13.
- Pennebaker, George B., Oakland, assignor to F. Starr and V. P. Green, Oakland, Calif. Changeable exhibitor. 1,616,080; Mar. 1.
- Pennell, John G., Toronto, Ontario, Canada. Fish-hooking device. 1,614,931; Jan. 18.
- Pennell, Reginald H. L., Windsor, and A. W. Wylie, Chobham, England. Apparatus for mixing and delivering liquids. 1,623,152; Apr. 5.
- Pennery, Frank H., Scotia, N. Y., assignor to General Electric Company. Protective system. 1,622,539; Mar. 29.
- Penney, Harold D., Pelham, N. Y., assignor to Diamond Expansion Bolt Company. Sound amplifier. 1,631,221; June 7.
- Penniman, Abbott L., Jr., Baltimore, Md., assignor to Wheeler Condenser & Engineering Company, Carteret, N. J. Feed-water heater. 1,621,268; Mar. 15.
- Penniman, William B. D. (See Shackelford, E. J., Penniman, and Cain.)
- Pennington, Gordon R. (See Wellman, S. K., and Pennington.)
- Pennington, Gordon R., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Dump truck. 1,628,907; May 17.
- Pennington, Harley D., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Pipe-threading mechanism. 1,626,251; Apr. 26.
- Penniston, Mary E., St. Davids, Pa., and A. B. Davis, Cincinnati, Ohio. Manufacture of strawboard. 1,625,090; Apr. 19.
- Pennington, Mary E., St. Davids, Pa., and A. B. Davis, Cincinnati, Ohio. Manufacture of strawboard. 1,645,997; Oct. 18.
- Pennington, William V., and P. C. Isom, Lebanon, Kans. Hot-plate foot for bed. 1,618,945; Feb. 22.
- Pennock, Theodore E., assignor to Standard Automatic Machine Company, Rochester, N. Y. Machine for applying closures to containers. 1,651,902; Dec. 6.
- Pennock, Theodore E., assignor to Standard Automatic Machine Company, Rochester, N. Y. Machine for applying closures to containers. 1,651,903; Dec. 6.
- Pennock, Theodore E., and M. H. Gregg, assignors to Standard Automatic Machine Company, Rochester, N. Y. Container-capping machine. 1,614,042; Jan. 11.
- Pennow, Willis A., and R. S. Haynes, Milwaukee, Wis., assignors to Flexible Arc Co., Inc. Light-projecting apparatus. 1,615,552; Jan. 25.
- Pennsylvania Crusher Company. (See Borton, George W., assignor.)
- Pennsylvania Crusher Company. (See Borton, G. W., and Battey, assignors.)
- Pennsylvania Flexible Metallic Tubing Company. (See Johnson, William A., assignor.)
- Pennsylvania Pump & Compressor Company. (See Raymond, Ward, assignor.)
- Pennsylvania Stamping Corporation. (See Swett, Lewis E., assignor.)
- Pennsylvania Textile Mills, Inc. (See Caluori, George, assignor.)
- Pennsylvania Textile Mills, Inc. (See Day, Harry S., assignor.)
- Pennsylvania Wire Glass Company. (See Shuman, Arno, assignor.)
- Penny, James P., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Disazo dye. 1,637,115; Nov. 1.
- Penny, Roy W., Raleigh, N. C. Hydrant. 1,627,251; May 3.
- Penny, Vernon E., and W. A. Reinke, assignors of one-third to O. B. Luck, Malone, Tex. Cultivator hopple. 1,647,407; Nov. 1.
- Penote, Augustus J., Cleveland, Ohio. Sectional form. 1,632,846; June 21.
- Penrod, John. (See Simons, R. B., and Penrod.)
- Penrod, John, assignor of one-half to R. D. Thompson, Okmulgee, Okla. Feeding device for cable-drilling tools. 1,636,166; Aug. 15.
- Penrod, John, and R. D. Thompson, Okmulgee, Okla. Pumping equipment. 1,636,433; July 19.
- Penrod, Melvin A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-control apparatus. 1,631,832; June 7.
- Pensel, Marius E. (See Klein, F., and Pensel.)
- Penson, William R., Sulphur Springs, assignor of one-half to J. M. Foster, Kemp, Tex. Drill. 1,629,881; May 24.
- Penttila, Antonio, Hollidaysburg, Pa. Rubber heel. 1,643,266; Sept. 6.
- Penwarden, Robert H., Beardstown, Ill. Rod protector. 1,647,884; Nov. 1.
- People of the United States. (See Burgess, Albert F.)
- People of the United States, The. (See Barger, W. R., Hawkins, and Blatz, assignors.)
- People of the United States, The. (See Wilson, Thomas R. C., assignor.)
- Peoples Investment Company. (See Peterson, Frank O., assignor.)
- Peoples Natural Gas Company. (See Anderson, J. B., and Garner, assignors.)
- Peoples, Robert E., Valley Stream, assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,650,721; Nov. 29.
- Peoples Trust and Savings Bank of Chicago, trustee, The. (See Eaid, John R., assignor.)
- Pepe, Vincent, Brooklyn, N. Y. Coin holder. 1,633,127; June 21.
- Pepernick, John, Binghamton, N. Y. Bedspring. 1,631,056; May 31.
- Pepin, Archie D., and F. P. W. Haack, Bend, Oreg. Toy pistol. 1,613,329; Jan. 4.
- Pepin, Henry, Santa Barbara, Calif. Gas heater. 1,640,248; Aug. 23.
- Pepin, Joseph N., Chicago, Ill. Phonograph. 1,641,291; Sept. 6.
- Pepin, Joseph N., Chicago, Ill. Hinge. 1,648,781; Nov. 8.
- Pepin, Joseph N., Chicago, Ill. Tone arm. 1,653,410; Dec. 20.
- Pepin, Nelson J., Lowell, Mass. Clutch mechanism. 1,649,728; Nov. 15.
- Pepino, Henry G., New York, N. Y. Bottle stopper seal. 1,628,555; May 10.
- Peple, Gustave A., Jr., Lynchburg, Va. Transmission. 1,613,290; Jan. 4.
- Peppard, Thomas, Olympia, Wash. Fowl catcher. 1,629,046; May 17.
- Pepper, David, Philadelphia, Pa. Manufacturing electrodes for batteries. 1,653,872; Dec. 27.
- Pepper, Frederick V. (See Megie, J. J., and Pepper.)
- Pepper, Sam, Nottingham, England. Lace fabric and producing same. 1,631,886; June 7.
- Peppie, John W., Akron, Ohio. Vehicle wheel. 1,616,635; Feb. 8.
- Pepsodent Company. (See Kuever, Rudolph A., assignor.)
- Peraira, Joseph A., and F. Roberts, Yuba City, Calif. Machine for making hook supports. 1,633,416; June 21.
- Percy, Earl E., Jerome, Idaho. Gas generator. 1,624,431; Apr. 12.
- Perciabosco, Michael, et al. (See Kraus, Morris F., assignor.)
- Perciabosco, Michael, Chicago, Ill., assignor of one-half to J. Rosinia. Vending-machine casing. Des. 73,622; Oct. 1.
- Percival H. Smith, executor. (See Smith, Oberlin, assignor.)
- Percival, Harry S., Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Measuring instrument. 1,640,425; Aug. 30.
- Percy, Earl N. (See Yard, W. S., and Percy.)
- Percy, Edwin H., assignor to Percy Electric Dog, Inc., Fort Bragg, Calif. Power-operated hook dog. 1,648,659; Nov. 8.
- Percy Electric Dog, Inc. (See Percy, Edwin H., assignor.)
- Percy, Leon O., assignor to The Cooper Corporation, Cincinnati, Ohio. Storage-battery container. 1,635,976; July 12.

- Percy, William W., Seattle, assignor of one-fourth to F. W. Harris, Renton Wash. Making sponge iron from its oxide ores. 1,645,968; Oct. 18.
- Perrdix, Clotilde. (See Planché, Benjamin R., assignor.)
- Perrdue, Melville Shelby, Ohio. Valve for toy balloons. 1,629,838; May 24.
- Perea, Albino. (See Eggiman, A., and Perea.)
- Pereca, Celedonio V., Buenos Aires, Argentina. Apparatus for the transmission of heat and cold. 1,614,567; Jan. 11.
- Perego, Alwyn F., Fullerton, Calif. Child's desk. Des. 74,022; Dec. 6.
- Pereira, Henry J., Chelsea, Mass. Drain plug or valve. 1,638,954; Aug. 16.
- Perella, Fred. (See Cutuli, Vincenzo, assignor.)
- Perelman, Solomon, Bayonne, N. J. Fountain toothbrush. 1,615,999; Feb. 15.
- Peremi, Edmund. (See Polachek, J., Jepsen, and Peremi.)
- Perenko, Serge N. (See Whittemore, H. L., and Petrenko.)
- Perew, Joseph. (See Perew, Louis P., assignor.)
- Perew, Louis P., assignor of one-half to J. Perew, North Tonawanda, N. Y. Mechanical toy. 1,613,408; Jan. 4.
- Perey Manufacturing Company. (See Bacon, Daniel R., assignor.)
- Perez, Jose A., Central Francisco, Francisco, Cuba. Intermediate bagasse carrier for cane-sugar mills. 1,644,607; Oct. 4.
- Perez, Jose A., Central Francisco, Francisco, Cuba. Intermediate bagasse chute for cane-sugar mills. 1,644,608; Oct. 4.
- Perfect Point Pencil Corporation. (See Doeblen, Charles K., assignor.)
- Perfect Pool Pocket Irons Company. (See Jaeger, Gustav E., and A. F., assignors.)
- Perfect Powder Puff Co. (See Sharp, Robert H., assignor.)
- Perfect Window Regulator Corporation. (See Goldsmith, Bertram J., assignor.)
- Perfect Window Regulator Corporation. (See Goldsmith, E. J., and Koeb, assignors.)
- Perfect Window Regulator Corporation. (See Koeb, Emil, assignor.)
- Perfect Window Regulator Corporation. (See Koeb, E., and Goldsmith, assignors.)
- Perfect Window Regulator Corporation. (See Kurscheldt, P. J., and Norwood, assignors.)
- Perfection Arc Co. Inc. (See Pennow, W. A., and Haynes, assignors.)
- Perfection Biscuit Company. (See Mullendore, Harvey, assignor.)
- Perfection Package Sealer Company. (See Utz, William A. Sr., assignor.)
- Perfection Steel Body Co. (See Poth, John C., assignor.)
- Perfection Stove Company. (See Chadwick, Lee S., assignor.)
- Perfection Stove Company. (See Chadwick, L. S., Resek, and Dahlstrom, assignors.)
- Perfection Stove Company. (See Resek, Marc, assignor.)
- Perfection Stove Company. (See Wood, William, assignor.)
- Perfecto Gear Differential Co. (See Starr, Charles E., assignor.)
- Perleaud, Baptiste M., Limoges, France. Heel-seat-cutting machine. 1,623,551; Apr. 5.
- Perisset, Jean E., surnamed Emmanuel Perisset, Chatillon-sous-Bagneux, France. Magnet. 1,640,290; Aug. 28.
- Perkin, William H., Oxford, A. W. Fyfe and M. Mendoza, assignors to British Dyestuffs Corporation Limited, Manchester, England. Manufacture of anthraquinone derivatives. 1,636,485; July 19.
- Perkins, Albert G., Buffalo, N. Y. Pipe joint. 1,621,950; Mar. 22.
- Perkins, Charles M., Cohoes, N. Y. Thread-using machine. 1,638,210; Aug. 9.
- Perkins, Charles R., Newburyport, Mass. Bottle cap. 1,643,256; Sept. 20.
- Perkins, Charles W., Sulphur Mines, assignor to W. J. Miller, Sulphur, La. Rotary back-up post. 1,621,467; Mar. 15.
- Perkins, Chester A., South Bend, Ind. Collapsible tube holder. 1,644,145; Oct. 4.
- Perkins, Floyd R., Chicago, Ill. Golf club. 1,621,897; Mar. 22.
- Perkins, Frederic G., Everett, assignor to The Bankette Company, Boston, Mass. Coin bank. 1,653,021; Dec. 20.
- Perkins, Frederick E., St. Paul, Minn. Rolling fire door. 1,621,951; Mar. 22.
- Perkins, George B., Weingarten, Mo. Pillers. 1,618,550; Feb. 22.
- Perkins, Hamilton C. (See Karpovich, John, assignor.)
- Perkins, Hiram A., assignor to American Woodworking Machinery Company, Rochester, N. Y. Radial bearing. 1,622,880; Mar. 20.
- Perkins, James K., Hayward, Calif. Air-cooling device. 1,616,545; Feb. 8.
- Perkins, Julian L., West Springfield, and H. D. Croft, assignors, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass. Branching machine. 1,642,583; Sept. 13.
- Perkins, L. B. Choc, and R. H. Dobbins, Oklahoma City, Okla. Tile lock. 1,646,312; Oct. 18.
- Perkins, Laurence M., assignor of one-half to Owen-Dynco Corporation, Syracuse, N. Y. Field winding. 1,630,757; May 31.
- Perkins, Lucius J., Los Angeles, Calif., assignor to Central Electric Company. Amplifying system. 1,626,480; Apr. 26.
- Perkins Machine and Gear Company. (See Oakley, John, assignor.)
- Perkins Machine and Gear Company. (See Perkins, J. L., and Croft, assignors.)
- Perkins, Max J., Topeka, Kans. Hydraulic motor. 1,627,996; May 10.
- Perkins, Percy M. (See Hickman, Manuel, assignor.)
- Perkins, Ralph D., Kenosha, Wis. Carburetor. 1,640,291; Aug. 23.
- Perkins, William H. (See Smith, E. D., and Perkins.)
- Perks, George W., assignor to J. R. Gammett, Akron, Ohio. Combination gun and guard. 1,630,356; May 31.
- Perky, Scott H., Rumson, N. J. Machine for forming a food product. 1,645,155; Oct. 11.
- Perl, John. (See Smith, A. D., and Perl.)
- Permod Company, The. (See Vaughan, Conrad, assignor.)
- Permutit Company, The. (See Brice, Norman E., assignor.)
- Permutit Company, The. (See Kriegsheim, H., and Vaughan, assignors.)
- Perren, John, Zurich, Switzerland. Diathermic apparatus. 1,641,085; Aug. 30.
- Pernot, Frederick E., Washington, D. C. Electric telegraph apparatus. 1,647,468; Nov. 1.
- Peroglio, Elio A., Montepuleno, Italy. Felted fabric and the manufacture thereof. 1,631,892; June 7.
- Perkins, Nicholas J., Fresno, Calif. Pruning shears. 1,634,848; July 5.
- Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Auxiliary tool holder for lathes and the like. 1,618,993; Mar. 1.
- Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Tire-building machine. 1,645,397; Oct. 11.
- Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Machine for making multiple fastener elements. 1,649,854; Nov. 22.
- Perrault, Joseph S. (See Marquis, T. J., and Perrault.)
- Perrault, Joseph S., and J. T. Marquis, Nashua, N. H. Meat-grinder head. 1,619,632; Mar. 1.
- Perrault, Jules A., Lowell, Mass., and H. Lubé, Astoria, N. Y., assignors to Recreator Phonograph Corporation, Boston, Mass. Projecting apparatus. 1,627,114; May 3.
- Perre, Frederick C., Blackrock, Ireland. Electrical vibrator. 1,628,802; May 17.
- Perrenot, Frederick A., assignor of one-half to R. J. Kieffer, San Antonio, Tex. Valve. 1,619,033; Mar. 1.
- Perrett, Ivor G., Osterley, and F. T. Lambert, Clapham, London, England; said Perrett assignor to said Lambert, said machine. 1,638,362; Aug. 9.
- Perrier, Daniel, Unieux, assignor of one-half to the Compagnie Industrielle des Moteurs a Explosion (C. I. M. E.), Paris, France. Centrifugal oil separator for use with heat engines. 1,614,803; Jan. 18.
- Perrin, Edwin P., Maple Creek, Saskatchewan, Canada. Compression tool. 1,644,352; Oct. 4.
- Perrin, Frank N., Detroit, Mich. Protractor drawing instrument. 1,633,903; June 28.
- Perrin, Jean-Baptiste, A. J. Marcelin, and H. L. M. J. Bénard, Paris, France. Device for forming far-reaching sound pencils and application of latter. 1,653,119; Dec. 20.
- Perron, Adolard J., Lewiston, Me. Chair attachment. 1,633,469; Dec. 20.
- Perron, Samuel H., Mendon, assignor to A. Steiner, Boston, Mass. Reproducing piano. 1,639,105; Aug. 16.
- Perron, Samuel H., Mendon, assignor to A. Steiner, Boston, Mass. Musical instrument. 1,639,106; Aug. 16.
- Perron, Samuel H., Mendon, assignor to A. Steiner, Boston, Mass. Musical instrument. 1,639,107; Aug. 16.
- Peronne, John M., Steeles Store, Tex. Clod crusher and glass destroyer. 1,647,717; Nov. 1.
- Perot, Emile G., Philadelphia, Pa. Building. 1,654,013; Dec. 27.
- Perrot, Henri, Paris, France. Wheel mounting. 1,613,768; Jan. 11.
- Perrot, Henri, Paris, France, assignor to Bendix Corporation, Chicago, Ill. Front-wheel mounting. 1,637,089; June 26.
- Perrot, Henri, Paris, France, assignor to Bendix Corporation, Chicago, Ill. Front-wheel brake. 1,640,577; Aug. 30.
- Perrot, Henri, Paris, France, assignor to Bendix Corporation, Chicago, Ill. Braking of the steering wheels of vehicles. 1,642,094; Sept. 13.
- Perrell, Edwin, assignor to Manufacturing Company (Inc.). (See Caldwell, Edwin, assignor.)
- Perry, Charles E., Chiswick, London, assignor of one-half to Evershed and Vignoles, Limited, London, England. Resistance measurement. 1,616,387; Feb. 1.
- Perry, Charles H., Miami, Fla. Apparatus for filtering and filtering water. 1,638,510; May 10.
- Perry, Charles H., Miami, Fla. Apparatus for filtering and purifying liquids. 1,640,249; Aug. 23.

- Perry, Charles L., Schenectady, N. Y., assignor to General Electric Company. Electric operating mechanism. 1,648,741; Nov. 8.
- Perry, Charles T., Arlington, Mass. Saw protector. 1,643,085; Sept. 20.
- Perry, Donald B. (See Vernam, G. S., and Perry.)
- Perry, Donald B., Yonkers, N. Y., assignor to American Telephone and Telegraph Company. Printing-telegraph-exchange system. 1,637,324; July 26.
- Perry, Donald B., Yonkers, N. Y., assignor to American Telephone and Telegraph Company. Printing-telegraph-exchange system. 1,641,290; Sept. 6.
- Perry, Dyer W., Keene, N. H. Eyeglass-case holding and protecting device. 1,635,417; June 21.
- Perry, Edgar W., Boston, Mass. Resilient tire. 1,625,742; Apr. 19.
- Perry, Elsie, New York, N. Y. Permanent Marcel-wave apparatus. 1,636,967; July 26.
- Perry, Elsie W., special administratrix. (See Perry, James S.)
- Perry, Emanuel J., New Bedford, assignor to Perry Laundry Machinery Company, Fairhaven, Mass. Soap door for washing machines. 1,627,803; May 10.
- Perry, Emanuel J., New Bedford, assignor to Perry Laundry Machinery Company, Fairhaven, Mass. Latch. 1,636,069; July 19.
- Perry, Emanuel J., Fairhaven, and F. S. Boltz, Mansfield, Mass. Laundry apparatus. 1,645,998; Oct. 18.
- Perry, Frank R., Chicago, Ill. Condenser for automotive-vehicle engine radiators. 1,637,793; Dec. 13.
- Perry, Harry H., San Jose, Calif. Scooter. Des. 72,913; June 21.
- Perry, Howard M., Clarksville, Tenn. Hand-track attachment. 1,636,574; July 19.
- Perry, Hubert M., assignor to S. L. Woods, Chicago, Ill. Slide bearing for cars. 1,615,955; Feb. 1.
- Perry, Hugh A., and J. Millnaire, Chicago, Ill. Dispensing device. 1,646,313; Oct. 18.
- Perry, James S., deceased, Covina, Calif.; E. W. Perry, special administratrix. Tree treatment. 1,629,962; May 24.
- Perry, John E., Sharon, Pa. Permanent hot-top mold. 1,636,013; July 19.
- Perry, John E., Sharon, Pa. Ingot mold and stool therefor. 1,647,660; Nov. 1.
- Perry, John E., Sharon, assignor to Valley Mould & Iron Corporation, Sharpesville, Pa. Core bar. 1,618,130; Feb. 15.
- Perry, John E., Sharon, assignor to Valley Mould & Iron Corporation, Sharpesville, Pa. Casting ingot molds and apparatus for same. 1,620,128; Mar. 8.
- Perry, John E., Sharon, assignor to Valley Mould and Iron Corporation, Sharpesville, Pa. Core box for ingot molds or the like. 1,620,227; Mar. 8.
- Perry, John E., Sharon, assignor to Valley Mould and Iron Corporation, Sharpesville, Pa. Set-up and core bar for casting ingot molds. 1,643,419; Sept. 27.
- Perry, John M., Vosburg, Miss. Check-controlled mechanism. 1,623,970; Apr. 12.
- Perry, John S. (See Dennis, W. J., and Perry.)
- Perry Laundry Machinery Company. (See Perry, Emanuel J., assignor.)
- Perry, Leroy H., Gardena, and W. F. Woodman, Long Beach, Calif. Information thief. 1,635,340; July 12.
- Perry, Milton L., Washington, D. C. Hair-straightening device. 1,642,888; Sept. 20.
- Perry, Napoleon J., assignor to May Hosiery Mills, Nashville, Tenn. Auxiliary take-up for knitting machines. 1,621,559; Mar. 22.
- Perry, Napoleon J., deceased; J. W. Martin, administrator, assignor to May Hosiery Mills, Nashville, Tenn. Take-up for knitting machines. 1,638,955; Aug. 16.
- Perry, Nathan G., Oakland, and L. L. Hanson, Los Angeles, Calif. Beach chair. 1,628,472; May 10.
- Perry, Norvin, Tompkinsville, N. Y. Chain link. 1,636,385; July 12.
- Perry, Robert, New York, N. Y. Process and device for fume control. 1,650,152; Nov. 22.
- Perry, Robert S., and A. W. Karnopp, New York, N. Y. Fire-arresting apparatus. 1,618,551; Feb. 22.
- Perry, Thomas L. (See English, F. S., and Perry.)
- Perry, Thomas L., and F. S. English, New London, Conn., assignors to The Babcock Printing Press Manufacturing Company. Sheet-transfer mechanism for multicolor presses. 1,651,409; Dec. 6.
- Perry, Walter E., Sacramento, Calif. Telephone apparatus. 1,640,721; Aug. 30.
- Perry, William C., Piacenza, Calif. Lock joint for standing valves and the like. 1,652,542; Dec. 13.
- Perry, Winthrop L. (See Korovsky, S., and Perry.)
- Pershad, Raja K., Hyderabad, Deccan, India. Direction indicator. 1,621,597; Mar. 22.
- Pershing, Olynthus H., Muncie, Ind. Seed generator. 1,635,498; July 12.
- Person, Axel, assignor to Harvey Clap & Co., Attleboro, Mass. Bracelet chain for wrist watches or the like. 1,620,498; May 31.
- Person, Axel, assignor to Harvey Clap Co., Attleboro, Mass. Bracelet construction. 1,644,487; Oct. 4.
- Person, Earl R., assignor to Dupont Viscoloid Company, Inc., Leominster, Mass. Hair ornament. 1,649,040; Nov. 15.
- Persons, Ernest L., Chicago, Ill., assignor to David J. Molloy Company. Loose-leaf binder. 1,627,864; May 10.
- Persons, Ernest L., Chicago, Ill., assignor to The David J. Molloy Company. Book cover. 1,632,193; June 14.
- Persons, George A., Brooklyn, assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Voltage-limiting device. 1,614,234; Jan. 11.
- Persson, Nils, Stockholm, Sweden, assignor to Electrolux Servo Corporation, New York, N. Y. Refrigeration. 1,651,410; Dec. 6.
- Persson, Olof. (See Johnson, A., Persson, and Johnson.)
- Persu, Aurel, Bucharest, Rumania. Streamline power vehicle. 1,648,505; Nov. 8.
- Pesum, William, Kirkwood, Mo. Automatic footstool. 1,618,421; Feb. 22.
- Perttu, Arvid D., Ridgefield, Wash. Vehicle signal. 1,619,311; Mar. 1.
- Pertuisot, Joseph E., Port Chester, N. Y. Terminal-protecting commutator case. 1,647,929; Nov. 1.
- Pesugia, André, Paris, France. Shoe heel. 1,642,889; Sept. 20.
- Perutz, Felix, Prague, Czechoslovakia. Spinning apparatus. 1,649,322; Nov. 15.
- Pervier, William A. (See Bridge, W. G., and Pervier.)
- Pervier, William A., trustee. (See Pervier, William A.)
- Pervier, William A., assignor, by mesne assignments, to W. A. Pervier, trustee, Watertown, Mass. Attachment for cigarette holders. 1,635,432; July 12.
- Pescara, Raul P., Paris, France, assignor to The Pescara & Raymond Corporation, Dover, Del. Internal-combustion-motor compressor unit. 1,615,133; Jan. 15.
- Pescara, Raul P., Paris, France, assignor to The Pescara & Raymond Corporation, Dover, Del. Motor-compressor unit. 1,629,927; May 24.
- Pescara, Raul P., Paris, France, assignor to Pescara & Raymond Corporation, Dover, Del. Motor-compressor apparatus. 1,620,028; May 24.
- Pescara & Raymond Corporation, The. (See Pescara, Raul P., assignor.)
- Peschl, Frank A., Jackson Heights, N. Y. Paper-making machine. 1,620,037; Mar. 8.
- Peschl, Frank A., Jackson Heights, N. Y., Paper-making machine. 1,634,885; July 5.
- Peschl, Frank A., Jackson Heights, N. Y., assignor to International Paper Company. Moisture-testing means for paper-making machines. 1,623,436; Apr. 5.
- Pessel, Robert C., Bath, England. Milking machine. 1,620,016; Mar. 15.
- Pessemier, Victor W., Tacoma, Wash. Shoe last. 1,629,299; May 17.
- Pestel, Arthur, New York, N. Y. Overload and strain releasing mechanism. 1,628,184; May 10.
- Pestourie, Pierre, Paris, France. Shock absorber. 1,620,035; May 3.
- Petard, Daniel, Nice, France. Safety razor. 1,627,927; May 10.
- Petard, Daniel E. J., Nice, France. Safety razor. 1,645,021; Oct. 11.
- Pete, Clayton F. (See Pete, George M. and C. F.)
- Peter, George M., and C. F., Toledo, Ohio. Towrope. 1,633,792; June 28.
- Peter, Armistead, 3d, Washington, D. C. Air cleaners. 1,614,897; Jan. 18.
- Peter, Henry A., Philadelphia, Pa., assignor to Pioneer Suspender Company. Display box and supporting elements for suspenders. 1,634,435; July 5.
- Peter, Leslie H., King's Cross, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Alternating-current relay. 1,620,781; Mar. 15.
- Peter, Leslie H., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,646,420; Oct. 25.
- Peter, Leslie H., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Electrical operation of railway points and signals. 1,649,543; Nov. 15.
- Peter, William J., New York, N. Y. Pressure control for hydraulic oil storing and delivering systems. 1,622,881; Mar. 29.
- Peter, William J., New York, N. Y. Pressure control for hydraulic oil storing and delivering systems. 1,622,882; Mar. 29.
- Peterhauser, Fritz, Riehen, near Basel, assignor to the Firm Durand & Huguenin S. A., Basel, Switzerland. Production of fast dyes. 1,645,925; Oct. 18.
- Peterkin, Guy S., Seattle, Wash. Suspensory. 1,641,094; Aug. 30.
- Peterman, Henry, assignor of one-third to C. Statler and one-third to O. Johnson, Wallace, Idaho. Sugar bowl. 1,640,156; Aug. 23.
- Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill sharpener. 1,629,175; May 17.
- Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill sharpener. 1,632,621; June 14.
- Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Dolly retainer. 1,653,968; Dec. 27.
- Peters, Caroline A., Los Angeles, Calif. Doll. Des. 72,527; Apr. 26.
- Peters Cartridge Company, The. (See Keplinger, Livingston B. and M. Q., assignors.)

- Peters, Cornelius A., Minneapolis, Minn. Lawn mower. 1,627,262; May 3.
- Peters, Emil, Chicago, Ill. Illuminated license plate. 1,615,771; Jan. 25.
- Peters, Ernest K., Fresno, Calif. Lining for dental plates and preparing the same. Re16,754; Oct. 4.
- Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Driving apparatus for locomotive boiler motor. 1,628,185; May 10.
- Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Locomotive-driving-box wedge-adjusting device. 1,645,659; Oct. 18.
- Peters, Frebert J., assignor to The National Automatic Tool Co., Richmond Ind. Drill holder. 1,631,286; June 7.
- Peters, Frederick W., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,621,215; Mar. 15.
- Peters, Frederick W., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,621,216; Mar. 15.
- Peters, Frederick W., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,621,217; Mar. 15.
- Peters, Frederick W., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,621,218; Mar. 15.
- Peters, Frederick W., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,621,219; Mar. 15.
- Peters, Frederick W., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,621,220; Mar. 15.
- Peters, Fritz. (See Wolman, K. H., Peters, and Pfug.)
- Peters, Heber C., New York, N. Y. Adding machine. 1,640,105; Oct. 18.
- Peters, Henry W., West Roxbury, Mass. Ring or the like. 1,612,831; Jan. 4.
- Peters, Henry W., Columbus, Ohio. Dust hood. 1,620,390; Mar. 8.
- Peters, James B. (See Peters, James C. and J. B.)
- Peters, James C. and J. B., Redsville, Pa. Double-row ginseng seed drill. 1,620,283; Mar. 8.
- Peters, John F., Rochester, assignor to American Can Company, New York, N. Y. Machine for scoring and forming tapered cans. 1,616,668; Feb. 8.
- Peters, John F., Rochester, assignor to American Can Company, New York, N. Y. Machine for curling the flanges of can ends. 1,622,549; Mar. 29.
- Peters, John F., Rochester, assignor to American Can Company, New York, N. Y. Can-body-making machine. 1,625,091; Apr. 19.
- Peters, John F., Rochester, assignor to American Can Company, New York, N. Y. Scoring machine. 1,634,509; July 5.
- Peters, John F., Rochester, assignor to American Can Company, New York, N. Y. Can-body-making machine. 1,642,169; Sept. 13.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer winding. 1,632,097; June 14.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current transformer. 1,640,554; Aug. 30.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of distribution. 1,649,125; Nov. 15.
- Peters, John F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Surge recorder. 1,649,180; Nov. 15.
- Peters, Lewis C., Highland Park, Mich., assignor to La Choy Food Products, Inc. Sprout-washing machine. 1,644,488; Oct. 4.
- Peters, Louis H., Oakland, Calif. Can-testing machine. 1,648,660; Nov. 8.
- Peters, Louis J., Brooklyn, N. Y. Strip-serving apparatus. 1,647,305; Nov. 1.
- Peters Machinery Company. (See Becker, H. K., and Peters, Argens, assignors.)
- Peters, Mina L., Seattle, Wash. Boulder cap. Des. 72,494; Apr. 19.
- Peters, Nicholas J. (See Comati, C. N., Kekenes, and Peters.)
- Peters, Peter J., Shafter, Calif. Nut and bolt cutter. 1,613,359; Jan. 4.
- Peters, Thomas K. and T. C. Bartlam, New York, N. Y. Art of exhibiting moving pictures. 1,636,834; July 26.
- Peters, Tom. (See Panajiotaros, A., and Jones.)
- Peters, Will A. (See Shelton, Clarence L., assignor.)
- Petersen, Alfred O. H., Altona/Elbe, Germany, assignor to N. V. Nedlandsche Installatie Maatschappij Thorma, Amsterdam, Netherlands. Condensing apparatus. 1,624,066; Apr. 12.
- Petersen, Anker, Winthrop, Mass. Traverse drive for winding machines. 1,629,300; May 17.
- Petersen, Anker, Winthrop, Mass., assignor, by mesne assignment, to Zerkow Thread Company, Detroit, Mich. Braiding carrier. 1,638,455; Aug. 9.
- Petersen, Carl M., assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Multiple-spindle metal-turning machine. 1,628,061; May 10.
- Petersen, Christian H. A., Glenada, Ore. Trap for catching crabs. 1,619,366; Mar. 8.
- Petersen, Christian, Sioux City, Iowa. Repairing over-shoe heels. 1,641,689; Sept. 6.
- Petersen, Emil, Hamilton Beach, assignor of one-half to E. A. Plaski, New York, N. Y. Mooring device. 1,621,809; Mar. 22.
- Petersen, George E., Bristol, Pa. Collapsible sliding closure. 1,628,511; May 10.
- Petersen, George E., Bristol, Pa. Conveyor lubricator. 1,628,512; May 10.
- Petersen, George E., assignor to Palge-Detroit Motor Car Company, Detroit, Mich. Cast-wheel construction. 1,615,847; Feb. 1.
- Petersen, Hans, deceased; S. C. Petersen, executrix, assignor to The Linograph Company, Davenport, Iowa. Typographical machine. 1,622,291; Mar. 29.
- Petersen, Hans, assignor to W. H. Schafer, Minneapolis, Minn. Collapsible berry box. 1,633,904; June 28.
- Petersen, Henry, Mount Auburn, Iowa. Cultivator. 1,644,271; Oct. 4.
- Petersen, Henry, Mount Auburn, Iowa. Cultivator. 1,650,722; Nov. 29.
- Petersen, Joseph, Flensburg, Germany. Boat's crane. 1,614,319; Jan. 11.
- Petersen, Leslie T., Denison, Iowa. Barn batten. 1,644,028; Oct. 4.
- Petersen, Nels P., Los Angeles, Calif. Vending machine mechanism. 1,616,822; Feb. 8.
- Petersen, Nels P., Los Angeles, Calif. Coin-slot mechanism for vending machines. 1,628,062; May 10.
- Petersen, Olaf W., Buffalo, N. Y., assignor to Vogt Brothers Mfg. Co., Louisville, Ky. Grate. 1,614,317; Jan. 11.
- Petersen, Peter C., assignor to Viking Pump Company, Cedar Falls, Iowa. Self-metering rotary pump. 1,639,961; Aug. 23.
- Petersen, Stella C., executrix. (See Petersen, Hans.)
- Petersen, Thor E., and J. Rasmussen and E. Rasmussen, Copenhagen, Denmark. Indicating speedometer for automobiles and the like. 1,615,553; Jan. 25.
- Petersen, Thorvald J., New York, assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 72,109; Mar. 1.
- Petersen, Thorvald J., New York, assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Lighting-fixture bracket or article of similar nature. Des. 72,110; Mar. 1.
- Petersen, Thorvald J., assignor to I. Rosenblatt, New York, N. Y., doing business as Globe Lighting Fixture Manufacturing Co. Chandelier or article of similar nature. Des. 73,194; Aug. 2.
- Petersen, Thorvald J., assignor to I. Rosenblatt, New York, N. Y., doing business as Globe Lighting Fixture Manufacturing Co. Lighting-fixture bracket or article of similar nature. Des. 73,195; Aug. 2.
- Petersen, Thorvald J., assignor to I. Rosenblatt, New York, N. Y., doing business as Globe Lighting Fixture Manufacturing Co. Chandelier or article of similar nature. Des. 73,196; Aug. 2.
- Petersen, Thorvald J., assignor to I. Rosenblatt, New York, N. Y., doing business as Globe Lighting Fixture Manufacturing Co. Chandelier or article of similar nature. Des. 73,197; Aug. 2.
- Petersen, Thorvald J., New York, assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 73,539; Sept. 27.
- Petersen, Viggo S. K., Kjentofte, near Copenhagen, Denmark. Apparatus for measuring heat quantities. 1,640,801; Aug. 30.
- Petersen, Walter, Darmstadt, Germany. Series-wound machine with additional excitation in bridge connection. 1,621,429; Mar. 15.
- Petersen, Wilhelm H., Ludvika, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Quick-acting mechanism for time relays. 1,641,643; Sept. 6.
- Petersen, William G., assignor to National Electric Door Company, Portland, Ore. Door-opening device. 1,634,233; June 28.
- Petersime, Ira M., Gettysburg, Ohio. Oven and drier. 1,646,490; Oct. 25.
- Petersen, Adolph C., Minneapolis, Minn. Automatic compensating carburetor. 1,617,605; Feb. 15.
- Peterson, Albert, Richmond, Va. Convertible table. 1,641,010; Aug. 30.
- Peterson, Alfred J. A. (See Schott, R. C., and Peterson.)
- Peterson, Alfred P., Coleraine, Minn. Body hoist. 1,649,364; Nov. 15.
- Peterson, Alfred T., Crooked Rivers, Saskatchewan, Canada, assignor of one-tenth to G. Carlson and one-tenth to S. W. Carlson, Minneapolis, Minn. Agricultural implement. 1,635,499; July 12.
- Peterson, Arthur B., San Francisco, Calif. Billiard cue chalking device. 1,627,573; May 10.
- Peterson, August, Cleveland, Ohio. Polishing and cleaning machine. Nov. 22.
- Peterson, Austin C. (See Melville, C. E., and Peterson.)
- Peterson, Axel C. G. (See Poulsen, A., and Peterson.)
- Peterson, A. W., San Francisco, Calif., assignor to Western Tool and Wrench Company. Can opener. 1,636,785; July 26.
- Peterson, B. Company. (See Crain, Rollie, assignor.)
- Peterson, Burt A. (See Colman, H. D., and Peterson.)
- Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Winder. 1,622,607; Mar. 29.
- Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Winder. 1,644,946; Oct. 11.

- Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Spooling process. 1,646,833; Oct. 25.
- Peterson, Charles A., Albaster, Mich. Educational apparatus. 1,617,272; Feb. 8.
- Peterson, Charles F. (See Barringer, L. E., and Peterson.)
- Peterson, Charles F., Scotia, N. Y., assignor to General Electric Company. Making molded articles. 1,619,758; Mar. 1.
- Peterson, Charles W., Detroit, Mich. Loud speaker. 1,643,029; Sept. 20.
- Peterson, E. N. (See Peterson, Theodore L., assignor.)
- Peterson, Edwin O., Elgin, Nebr. Joining materials. 1,625,907; Apr. 26.
- Peterson, Elmer C., Cleveland, Ohio. Vehicle lock. 1,629,731; May 24.
- Peterson, Elmer C., assignor, by mesne assignments, to The Motobile Products Company, Cleveland, Ohio. Vehicle lock. 1,622,839; Mar. 29.
- Peterson, Emil A., Chicago, Ill. Partition-holding clip. 1,620,737; Mar. 15.
- Peterson, Emil J., assignor to Hayes Wheel Company, Jackson, Mich. Rim-rolling machine. 1,632,560; June 14.
- Peterson, Francis C., assignor to Peterson & Nethaway, Detroit, Mich. E. Roy, Mont. Two-piece demountable rim. 1,619,984; Feb. 8.
- Peterson, Frank E., Chicago, Ill., assignor to American Optical Company, Southbridge, Mass. Adjustable bridge. 1,619,367; Mar. 1.
- Peterson, Frank O., assignor, by mesne assignments, to Petries Investment Company, Burglarproof lock. 1,622,608; Mar. 29.
- Peterson, Gabull, Tarpon Springs, Fla. Propeller guard. 1,620,129; Mar. 8.
- Peterson, George H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone exchange system. 1,612,880; Jan. 4.
- Peterson, George H., East Orange, N. J., assignor to American Telephone and Telegraph Company. Trunk circuits. 1,631,153; June 7.
- Peterson, Gust W., and B. T. Wallis, Long Beach, Calif. Pendant ornament. 1,638,743; Aug. 9.
- Peterson, Hans M., et al. (See Englund, Edwin H. L., assignor.)
- Peterson, Harry W., Springfield, Ill. Game. 1,613,530; Jan. 4.
- Peterson, Henry G., Ames, Iowa. Calendar. 1,613,769; Jan. 11.
- Peterson, Henry J., Webster City, Iowa. Reel for barbed wire. 1,646,593; Oct. 25.
- Peterson, Herbert O., Elkader, Iowa. Tool. 1,632,681; Dec. 13.
- Peterson, John A., and F. A. Treffer, Morrill, Kans. Insect destroyer. 1,622,922; Mar. 29.
- Peterson, John N., Milwaukie, Ore. Socket wrench. 1,643,814; Sept. 27.
- Peterson, John N., Milwaukie, Ore. Socket wrench. 1,643,855; Sept. 27.
- Peterson, John N., Milwaukie, Ore. Socket wrench. 1,643,901; Sept. 27.
- Peterson, John W., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,647,661; Nov. 1.
- Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Pipe cleaner. 1,614,571; Jan. 18.
- Peterson, Julius, assignor to Deere & Company, Moline, Ill. Lister plow. 1,644,894; Oct. 11.
- Peterson, Julius C., Elgin, Ill. Snap fastener. 1,631,602; June 7.
- Peterson, Lester C., Akron, Ohio. Laminated rubber. 1,640,800; Aug. 30.
- Peterson, Malcolm, and M. J. Danielson, assignors to The Bryant Electrical Company, Bridgeport, Conn. Electric fitting. 1,635,903; July 12.
- Peterson, Martin T., Belmont, assignor to B. F. Levy, Bronx, N. Y., Expanding tool. 1,614,627; Jan. 18.
- Peterson & Nethaway. (See Peterson, Francis C., assignor.)
- Peterson, Ole, Cleveland, Ohio. Stitch-picking device. 1,644,444; Oct. 4.
- Peterson, Oscar W., Cadillac, Mich. Artificial fishing bait. 1,627,455; May 3.
- Peterson, Otto H., Northfield, Minn. Record-holding handle for milk cans. 1,642,939; Sept. 20.
- Peterson, Pete, Monroe, Wash. Switch-operating mechanism. 1,633,669; July 28.
- Peterson, Peter, Berkeley, Calif. Aerial propulsion. 1,637,389; Aug. 2.
- Peterson, Peter L., Worcester, Mass. Insulator support for wires. 1,653,584; Dec. 20.
- Peterson, Richard W., Cresco, Nebr. Adjustable auto tool grinder. 1,647,248; Nov. 1.
- Peterson, Rudolph E. (See Olofsson, B. L., and Peterson.)
- Peterson, Sophus M., et al. (See Englund, Edwin H. L., assignor.)
- Peterson, Theodore L., Lewiston, Minn., assignor of one-half to E. N. Peterson, Wausau, Wis. Concrete building. 1,618,886; Feb. 8.
- Peterson, Theodore P., Greeley, Nebr. Electric-current regulator. 1,623,492; Apr. 5.
- Peterson, Thorwald, assignor to Reed Manufacturing Company, Erie, Pa. Diestock. 1,648,589; Nov. 8.
- Peterson, Thorwald B., and L. H. Holcomb, assignors to Omaha Folding Machine Co., Omaha, Nebr. Gasoline pump. 1,618,845; Jan. 11.
- Peterson, Victor, Chicago, Ill. Door lock. 1,637,275; July 26.
- Peterson, William, Albert City, Iowa. Governor for gas engines. 1,643,516; Sept. 27.
- Peterson, William J., Minot, N. Dak., assignor of one-half to O. H. Larson, Minneapolis, Minn. Cover for timer wires. 1,634,117; June 28.
- Peterson, William O., et al. (See Amberg, Walter B., assignor.)
- Pettersson, Ernst, Orebro, Sweden. Mold. 1,653,120; Jan. 2.
- Pettin, Hector, assignor to Société Etablissements J. J. Caimaut & Forges de Basse-Indre, Paris, France. Weight-operated plate or sheet sorting machine. 1,614,630; Jan. 18.
- Petit, William H., assignor to The Miami Radio Corporation, Dayton, Ohio. Condenser. 1,629,882; May 24.
- Petticlerc, Neri J., St. Louis, Mo. Fuel economizer. 1,624,067; Apr. 12.
- Pet Milk Company. (See Hebrank, William F., assignor.)
- Pet Milk Company. (See Kaufmann, Albert J., assignor.)
- Pet, Joseph A., Troy, N. Y. Electric switch. 1,625,149; Apr. 19.
- Petree, Cuthbert G., assignor to Petree & Dorr Engineers, Inc., New York, N. Y. Recovering sugar content in cane juices. 1,625,680; Apr. 19.
- Petree & Dorr Engineers, Inc. (See Petree, Cuthbert G., assignor.)
- Petrick, Edward S. and F. J., Chicago, Ill. Bookholder. 1,647,930; Nov. 1.
- Petrick, Frank F., Wilsonville, Nebr. Hog waterer. 1,640,292; Aug. 23.
- Petrie, David, et al. (See Petrick, Edward S. and F. J.)
- Petrie, Alexander T., assignor to H. Love, Brooklyn, N. Y. Spinning device. 1,623,133; Apr. 5.
- Petrie, Enos B., South Brooklyn, N. Y. Steam generator. 1,652,252; Dec. 13.
- Petri-Palmedo, Anna E. E., executor. (See Petri-Palmedo, David, deceased.)
- Petri-Palmedo, David, deceased; A. E. E. Petri-Palmedo, executrix, Berlin-Charlottenburg, Germany, assignor to Standard Compositors Aktiengesellschaft; Berlin, Germany. Matrix-setting and line-casting machine. 1,623,971; Apr. 12.
- Petroff, Grigori, Moscow, Russia, and P. Shestakoff, Paris, France. Treating hard water. 1,642,594; Sept. 13.
- Petroff, Grigori, Moscow, Russia, and P. Shestakoff, Paris, France. Obtaining sulpho-aromatic fatty acids. 1,642,595; Sept. 13.
- Petroleum Appliance Syndicate. (See Weisgerber, Edwin C., assignor.)
- Petroleum Hydrogenation Company of America, Incorporated. (See Northrup, Vernon W., assignor.)
- Petroleum Machinery Development Corporation. (See Langford, Jesse D., assignor.)
- Petry, Nicholas A., Philadelphia, Pa. Operating device for valves and the like. 1,630,213; May 24.
- Petsch, Everett C., Pleasant Dale, Nebr. Stay-put parking brake. 1,633,348; June 21.
- Petsche, Gustav B. (See Peterson, D. S., and Petsche.)
- Petschig, Karl, Vienna, Austria, assignor to the Firm C. P. Goerz Optische Anstalt Aktiengesellschaft, Aklavia Spolecnost K. P. Goerz Opticky Ustav, Bratislava, Czechoslovakia. Plotting board. 1,644,791; Oct. 11.
- Petskayes, Charles H., South Haven, Mich. Walking figure wheeled toy. 1,634,051; Dec. 27.
- Pettengill, Ralph H., Haverhill, Mass. Guard for wheel-turning machines. 1,622,838; Mar. 29.
- Pettengill, Walter E., East Providence, R. I. Wrapping wire. 1,639,146; Aug. 16.
- Petter, Ernest, and J. Hutton, assignors to Vickers-Petters Limited, Ipswich, England. Internal-combustion engine. 1,653,925; Dec. 27.
- Petter, Guy B., Ipswich, England. Transfer mechanism for calculating machines. 1,615,033; Jan. 18.
- Pettersson, Carl G. (See Sjöman, C. E., and Pettersson.)
- Pettersson, Pehr A., Chicago, Ill. Pump. 1,652,323; Dec. 13.
- Petteys, Willard A., Wilcox, Nebr. Dust and chaff collector for grain-elevator heads. 1,624,800; Apr. 12.
- Pettis, Clifton D., New York, N. Y. Casting molds. 1,636,775; Aug. 30.
- Pettis, Clifton D., New York, N. Y. Casting mold. 1,622,047; Mar. 22.
- Pettis, Clifton D., New York, N. Y. Brake shoe. 1,650,296; Nov. 22.
- Pettis, Clifton D., New York, N. Y. Brake shoe. 1,640,297; Nov. 22.
- Pettitt, George A. (See Sutter, C., and Pettitt.)
- Pettitt, George A., New Orleans, La. Filler neck for locomotive rod cups. 1,648,862; Nov. 8.
- Petzold, Ewald, Dresden, and M. Schönl, Rahnitz-Hellerau, Germany. Direction indicator. 1,651,904; Dec. 4.
- Petzold, Gustav, and H. Rittner, Offenbach-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Producing combined shades on the vegetable fiber and in materials treated according to such process. 1,640,802; Aug. 30.

- Petold, Gustav, and H. Rittner, Offenbach-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Producing combined shades of azodyestuffs and vat dyestuffs on the vegetable fiber and in materials dyed or printed according to such process. 1,640,803; Aug. 30.
- Peugh, Ray L., Oklahoma City, Okla. Book cover or protector. 1,643,418; Sept. 27.
- Pevelly Dairy Company. (See Kerckhoff, D. C., and Copp, assignors.)
- Pevere, Ernest F., and G. A. Hendrie, Niagara Falls, assignors to Phosphorus Hydrogen Company, New York, N. Y. Purifying phosphoric acid. 1,648,146; Nov. 8.
- Pew, Arthur E., Jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Apparatus for completely separating gasoline from mineral oil. 1,645,969; Oct. 18.
- Peysner, Alfred K. (See MacBride, J. A., and Peysner.)
- Peysner, Louis, New York, N. Y. Combination ash tray, cigarette and pipe holder. Des. 72,028; Feb. 15.
- Peyton, Ephraim G., U. S. Army, Washington, D. C. Circuit closer. 1,632,676; June 14.
- Pfahler, Richard. (See Lee, W. S., Pfahler, and Labow.)
- Pfaff, Ernest C., Chicago, Ill. Clutch. 1,648,923; Nov. 8.
- Pfäffe, Robert, Schwenningen-on-the-Neckar, Germany. Pedestal lamp. 1,647,053; Oct. 25.
- Pfaltzgraf, Hattie M., Atlantic City, N. J. Supporter. 1,637,706; Aug. 2.
- Pfaltzgraf, Hattie M., Lakewood, Ohio. Buckle. 1,630,758; May 31.
- Pfander, Walter F. (See Sturt, A. T., and Pfander.)
- Pfander, Walter F., Yonkers, assignor to W. C. Durant, New York, N. Y. Vehicle frame. 1,629,301; May 17.
- Pfannenstiel, Harry, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraphs. 1,623,748; Apr. 5.
- Pfannenstiel, Harry, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraphs. 1,623,809; Apr. 5.
- Pfannenstiel, Harry, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraph. 1,623,810; Apr. 5.
- Pfannstiel, Carl, Highland Park, Ill., assignor to Pfannstiel Radio Company. Radiofrequency transformer. 1,614,151; Jan. 11.
- Pfannstiel, Carl, Highland Park, Ill., assignor to Pfannstiel Radio Company. Method of and apparatus for controlling battery chargers. 1,645,720; Oct. 18.
- Pfannstiel Radio Company. (See Pfannstiel, Carl, assignor.)
- Pfarr, John H., Newark, N. J. Flower holder. 1,624,504; Apr. 12.
- Pfau, Arnold, Jr., Milwaukee, Wis. Electrical heating appliance. Des. 72,186; Mar. 8.
- Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine. 1,629,443; May 17.
- Pfauder Company, The. (See Greene, Otto W., assignor.)
- Pfauder Company. (See Smith, A. H., and Miner, assignors.)
- Pfaufer, Edward M., assignor to Blackhawk Manufacturing Co., Milwaukee, Wis. Circulating pump. 1,619,539; Mar. 1.
- Pfeifer, Annie. (See Zettlitz, Vincenz, assignor.)
- Pfeifer, Ferdinand, Springfield, assignor to The Taylor Tilting Light Company, Marysville, Ohio. Tilting headlight for automobiles and the like. 1,627,199; May 3.
- Pfeifer, Ferdinand A. (See Deutsch, L., and Pfeifer.)
- Pfeifer, Ferdinand A., Springfield, assignor to The Thomas & Armstrong Company, London, Ohio. Tank. 1,649,729; Nov. 15.
- Pfeifer, Frank M., and E. Van Camp, Quincy, Ill. Tire-currer clamp. 1,615,722; Jan. 25.
- Pfeifer, Alice L. (See Bagley, James, assignor.)
- Pfeiffer, Christian. (See Köppen, W., and Pfeiffer.)
- Pfeiffer, Frank E., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,640,960; Aug. 30.
- Pfeiffer, Gottfried F., Spokane, Ohio. Lime spreader. 1,614,152; Jan. 11.
- Pfeiffer, Immanuel, assignor, by mesne assignments, to Blue Tip Pile Wire & Knife Company, Bedford, Mass. Pile wire for looms. 1,645,255; Oct. 11.
- Pfeiffer, Karl. (See Edeleanu, L., Pfeiffer, Gress, and Jadeck.)
- Pfeil, Emil H., Anchorage, Alaska. Lingual bar. 1,654,469; Dec. 27.
- Pfeil, Henry C., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Core for molds. 1,630,357; May 31.
- Pfiel, Paul F., South Bend, Ind. Light projector. 1,645,721; Oct. 18.
- Pfersdorf, Christian, Eberfeld, Germany. Device for trying on shoes or boots. 1,635,341; July 12.
- Pfeifer, Joseph, Dudelingen, near Luxemburg, Germany. Brushing apparatus for washing the human body. 1,645,926; Oct. 18.
- Pfiffer, Frank J., Joliet, Ill., assignor of one-half to J. W. Elliott, Minneapolis, Minn. Erecting machine for wall boards. 1,639,962; Aug. 23.
- Pfister, Fred, Jersey City, N. J. Building-corner guard. 1,653,656; Dec. 27.
- Pfister, John R., assignor of five per cent to I. Kaufman, nineteen per cent to E. Brenner, and thirteen per cent to M. Boskey, I. A. Schiller, B. Marvin, and M. E. Sterling, New York, N. Y. Wood-preserving system. 1,629,922; May 17.
- Pfister, William A. (See Price, E., and Pfister.)
- Pfisterer, Karl, assignor to E. Grill, Zuffenhausen, Germany. Washing and mixing liquids. 1,613,531; Jan. 4.
- Pfizer, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Car truck. 1,614,687; Jan. 18.
- Pfizer, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Car truck. 1,614,932; Jan. 18.
- Pfizer, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive structure. 1,639,663; Aug. 23.
- Pfizer, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive. 1,639,664; Aug. 23.
- Pfizer, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Booster motor truck. 1,642,890; Sept. 20.
- Pfizer, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Car truck. 1,642,891; Sept. 20.
- Pfizer, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Car truck. 1,646,214; Oct. 18.
- Pfizer, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Car truck. 1,654,141; Dec. 27.
- Pfizer, Johannes, Frankfurt-on-the-Main, and A. Albert, Munich, Germany. Manufacture of organic arsenic compounds. 1,647,662; Nov. 1.
- Pfaunder Company. (See Todd, Ulysses G., assignor.)
- Pfizer, Johannes, Frankfurt-on-the-Main, and A. Albert, Munich, Germany. Manufacture of new derivatives of organic arsenic compounds. 1,653,227; Dec. 20.
- Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. Des. 73,047; July 12.
- Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Frog spear. 1,621,082; Mar. 15.
- Pfueger, Joseph E., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. 1,616,803; Jan. 25.
- Pflug, Hans. (See Wolman, K. H. Peters, and Pflug.)
- Pfretzschner, Jakob, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electric overload protective system. 1,630,214; May 24.
- Phalen, Michael J. (See Leahy, Maurice R., assignor.)
- Phalins, Thomas C., Connellsville, Pa. Combination bumper and fender. 1,622,607; Mar. 29.
- Phalon, Lillian A., Rochester, N. Y. Combined tray and table. 1,627,454; May 8.
- Phelan, Arthur A., Los Angeles, Calif. Cracking still. 1,646,929; Oct. 25.
- Phelan, John A., assignor to E. B. Knowles, Galveston, Tex. Buoyance float. 1,643,902; Sept. 27.
- Phelan, Louis A. M., assignor to Absolute Con-Tac-Tor Corporation, Beloit, Wis. Tilttable-switch-adjusting means. 1,651,629; Dec. 6.
- Phelan, Louis A. M., assignor to Con-Tac-Tor Corporation, Elkhart, Ind. Tilttable-switch-adjusting means. 1,651,630; Dec. 6.
- Phelan, Merton D., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-making machine. 1,627,666; May 10.
- Phelan, Merton D., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rotary transmission means. 1,640,370; Aug. 30.
- Phelan, Arthur E. (See Smith, E. L., and Phelan.)
- Phelps, Fred. (See Austin, E. F., and Phelps.)
- Phelps, Charles, Oskaloosa, Iowa. Apparatus for steam and hot-water furnaces. 1,615,292; Jan. 25.
- Phelps Cotton Picker Company. (See Phelps, Frank and M. F., assignors.)
- Phelps, Edward S., Montclair, N. J. Recording-lock control means. 1,615,723; Jan. 25.
- Phelps, Floyd A. (See Sinclair, C. C., and Phelps.)
- Phelps, Frank and M. F., assignors to Phelps Cotton Picker Company, Little Rock, Ark. Cotton-picking machine. 1,646,594; Oct. 25.
- Phelps, Frederick G., New York, N. Y. Self-conforming straw hat. 1,629,176; May 17.
- Phelps, James W., Chicago, Ill. Electric receptacle. 1,623,205; Apr. 5.
- Phelps, John R., San Bernardino, Calif. Date-recording instrument. 1,652,324; Dec. 13.
- Phelps, Lowell S., Laramie, Wyo. Attachment for tractors. 1,632,311; June 14.
- Phelps, Morton F. (See Phelps, Frank and M. F.)
- Phelps, Wilbur M., Staunton, Va. Liquid-level indicator. 1,629,732; May 24.
- Phenix, Vinton, Greeley, Colo. Basket-lowering device. 1,641,990; Sept. 13.
- Phenolic Products Corporation. (See Nielsen, Emil J., assignor.)
- Philadelphia Drying Machinery Company, The. (See Morshed, H., and Wiglesworth, assignors.)
- Philadelphia Drying Machinery Company, The. (See Sibson, Walter W., assignor.)

- Philadelphia Drying Machinery Company. (See Wigglesworth, Harry H., assignor.)
- Philadelphia Drying Machinery Company, The. (See Wigglesworth, H. H., and Grelner, assignors.)
- Philadelphia Electrical & Manufacturing Company. (See Bundy, Clifton L., assignor.)
- Philadelphia Storage Battery Company. (See Grinditch, William H., assignor.)
- Philadelphia Storage Battery Company. (See Holland, W. E., and Grinditch, assignors.)
- Philadelphia Storage Battery Company. (See Pearson, Lawrence J., assignor.)
- Philadelphia Supplies Co., The. (See Deissler, William, assignor.)
- Philadelphia Tabloid Publishing Company, The. (See Massey, Edward M., assignor.)
- Philadelphia Toboggan Company. (See Schmeck, Herbert P., assignor.)
- Philaditakis, Elestratos H., Jersey City, N. J. Rotary disk-cutter cleaner. 1,616,385; Feb. 1.
- Philbin, Loren A., deceased, assignor of one-half to A. J. Neisz, Portland, Oreg.; A. J. Neisz, administrator, assignor of one-half to G. E. Hamaker, Electric door opening and closing apparatus. 1,614,255; Jan. 11.
- Philbrick, Fred A., Santa Cruz, Calif. Well-drilling apparatus. 1,622,628; Sept. 13.
- Philp, George R., assignor to Cross Bros. Company, Northfield, Vt. Sand-blast relief carving. 1,627,456; May 3.
- Philipp, Julius, New York, N. Y. Hair clasp. 1,618,670; Feb. 22.
- Philpp, Richard, assignor to the Firm Magnet-Werke G. m. b. H. Eisenach Spezialfabrik für Elektromagnet Apparate, Eisenach, Saxe-Weimar, Germany. Apparatus for regenerating bulky waste metal. 1,647,371; Nov. 1.
- Philppart, Emile, Liege, Belgium. Automatic pistol. 1,658,783; Aug. 9.
- Phillips, William B., St. Louis, Mo. Oil burner. 1,646,834; Oct. 25.
- Phillips, Hans A., Stratford, Conn. Narrow woven trimming. Des. 73,803; Nov. 8.
- Phillips, N. V., Gloeilampenfabrieken. (See de Boer, Jan H., assignor.)
- Phillips, N. V. Gloeilampenfabrieken. (See Hertz, Gustav L., assignor.)
- Phillips, N. V., Gloeilampenfabrieken. (See Holst, Gilles, assignor.)
- Phillips, N. V., Gloeilampenfabrieken. (See Holst, G., and Bouwers, assignors.)
- Phillips, N. V., Gloeilampenfabrieken. (See Van Arkel, A. E., and De Boer, assignors.)
- Phillippi, Frank A., Pottstown, Pa. Water cooler. 1,627,574; May 10.
- Phillips, William F., Yantic, Conn. Chimney attachment. 1,629,809; May 24.
- Phillips, A. S. (See Miller, Louis H., assignor.)
- Phillips, Albanus, sr., et al. (See Winterling, Williams F., assignor.)
- Phillips, Allen A., Fairview, Mo. Cover retainer. 1,647,579; Nov. 1.
- Phillips, Anthony, Dallas, Tex. Automobile radiator cap. Des. 73,758; Nov. 1.
- Phillips, Arthur A., Anaheim, and E. Connelly, Fullerton, Calif. Automatic shut-off for pumps. 1,639,147; Aug. 16.
- Phillips, Benjamin, Chicago, Ill. Safety device for trolley cars. 1,647,469; Nov. 1.
- Phillips, Charles R. (See Smith, J. D., and Phillips, assignors.)
- Phillips, Chester, Portland, Oreg. Clamp and tightener for concrete forms. 1,648,995; Nov. 15.
- Phillips, Clive S., assignor of one-half to F. R. Simms, London, England. Tap for fluids. 1,629,303; May 17.
- Phillips, David, Daytona Beach, Fla. Astronomical device. 1,634,207; June 28.
- Phillips, Edgar J., et al., executors. (See Kraft, Henry P.)
- Phillips, Edward A., Philadelphia, Pa. Bathing suit. 1,650,386; Nov. 22.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Traveling crane. 1,643,642; Sept. 27.
- Phillips, Ernest B., East Chicago, and J. G. Stafford, Whiting, Ind., assignors to Sinclair Refining Company, Chicago, Ill. Refining of hydrocarbon oils. 1,639,531; Aug. 16.
- Phillips, Floyd H., and C. E. Mann, assignors to Queen City Products, Inc., Buffalo, N. Y. Knitted cap. 1,618,222; Feb. 22.
- Phillips, Fred L., New York, N. Y. Vision shield for vehicles. 1,649,418; Nov. 15.
- Phillips, Frederick E., Newport, Ky., assignor to Allen & Allen, Cincinnati, Ohio. Reversing mechanism for machine tools. 1,648,820; Nov. 8.
- Phillips, George F., and T. H. Torlan, Paducah, Ky. Headlight-dimming mechanism. 1,631,057; May 31.
- Phillips, Henry, and W. E. Hunt, deceased, by J. Hunt, administratrix; said H. Phillips and W. E. Hunt assignors to Ottumwa Box Car Loader Company, Ottumwa, Iowa. Flexible conveyor. 1,650,037; Nov. 22.
- Phillips, John, Woodside, N. Y. Thermometer. Des. 72,073; Feb. 22.
- Phillips, John E., assignor to Albert Pick & Company, Chicago, Ill. Plate or similar article. Des. 72,493; Apr. 10.
- Phillips, John E., assignor to Albert Pick & Company, Chicago, Ill. Plate or similar article. Des. 72,724; May 24.
- Phillips, John H., Chicago, Ill. Expansion-anchor-shell drill. 1,621,598; Mar. 22.
- Phillips, John W., Lillingston, N. C. Foot accelerator. 1,628,995; May 17.
- Phillips, Leon A., New York, N. Y. Garment hanger. 1,626,210; Apr. 26.
- Phillips, Lester F., Chicago, Ill. Fastening device. 1,650,649; Nov. 29.
- Phillips, Levi B., sr., et al. (See Winterling, William F., assignor.)
- Phillips, Lewis H., Atlantic Highlands, N. J. Electric switch. 1,613,902; Jan. 11.
- Phillips, Max, Evansville, Wis. Cyclohexyl resorcin and making the same. 1,650,036; Nov. 22.
- Phillips Petroleum Company. (See Hubbell, Alfred W., assignor.)
- Phillips, Ross M. G., New Haven, Conn. Glare device. 1,632,632; Dec. 13.
- Phillips, Victor L. (See Moore, Allbelle H., assignor.)
- Phillips, Walter H., Arlington, Mass. Truck. 1,654,188; Dec. 27.
- Phillips, Walter L. (See Couchman, A., and Phillips.)
- Phillips, Walter L. (See Couchman, A., Drinkhahn, and Phillips.)
- Phillips, Walter W., Philadelphia, Pa. Feed-water heater. 1,646,491; Oct. 25.
- Phillips, Walter W., Frankford, Del. Fire escape. 1,647,841; Nov. 1.
- Phillips, Wendell L., Bonair, Iowa. Traffic signal. 1,623,889; Apr. 5.
- Phillis, Jack, New York, N. Y. Humidifying device. 1,621,430; Mar. 15.
- Phily, Fernand, Pau, France. Stationary yarn guide for weaving looms. 1,617,347; Feb. 15.
- Phisher, R., et al. (See Kay, Oscar, assignor.)
- Phissps, Holy C., et al. (See Kay, Oscar, assignor.)
- Phippis, John M. (See Williams, Willard C., assignor.)
- Phillips, John T., Los Angeles, Calif. Rotary well drill. 1,615,596; Jan. 25.
- Phillips, John T., Huntington Park, Calif. Core barrel. 1,622,947; Oct. 11.
- Phister, Albert B., Port Thomas, Ky., assignor to The Phister Manufacturing Company, Cincinnati, Ohio. Chemical fire extinguisher. Re16,662; June 21.
- Phister Manufacturing Company. (See Phister, Albert B., assignor.)
- Phoenix Burner Corporation, The. (See Egloff, Frank S., assignor.)
- Phoenix Burner Corporation, The. (See Pohl, Joseph J. H., assignor.)
- Phoenix, Harry D., Syracuse, N. Y. Telephone wall cabinet. Des. 71,926; Jan. 25.
- Phoenix Hosiery Company. (See Breyer, Robert, assignor.)
- Phoenix Hosiery Company. (See Fitzgibbon, John E., assignor.)
- Photograph Company, The. (See Seabolt, Frank J., assignor.)
- Phosphorus Hydrogen Company. (See Pevere, E. F., and Hendrie, assignors.)
- Photogenic Machine Company, The. (See Kublac, Lester S., assignor.)
- Photomaton Inc. (See Josepho, Anatol M., assignor.)
- Photographic Products Corporation. (See Ladd, Lester L., assignor.)
- Photometric Products Corporation. (See Rundell, Rupert E., assignor.)
- Photo Plating Company, The. (See Sundbeck, Adolph, assignor.)
- Photostat Corporation. (See Caps, Arthur W., assignor.)
- Picard, Edmond, Paris, France. Variable condenser. 1,615,848; Feb. 1.
- Picard, Georges, assignor to B. J. Coghlín Company Limited, Montreal, Canada. Rail anchor. 1,632,847; June 21.
- Piccardo, Dionisio, New York, N. Y. Candy-coating machine. 1,618,471; Feb. 22.
- Piccirilli, Pasquale J., New York, N. Y. Door brace. 1,631,979; June 14.
- Piccirilli, Pasquale J., New York, N. Y. Door brace. 1,631,980; June 14.
- Pichard, Charles, and E. Paris, France. Mercurylless hair-creting process for felt making. 1,622,833; Mar. 29.
- Pichard, Emile. (See Pichard, Charles, and E.)
- Piché, Frank W., Detroit, Mich. Brake mechanism. 1,625,150; Apr. 19.
- Piché, Frank W., Detroit, Mich. Brake mechanism for vehicles. 1,625,151; Apr. 19.
- Piché, Frank W., Detroit, Mich. Brake mechanism. 1,635,727; July 12.
- Pick, Albert, & Company. (See McKenna, William, assignor.)
- Pick, Albert, & Company. (See Phillips, John E., assignor.)
- Pick, Albert, & Company. (See Pick, Hugo, assignor.)
- Pick, Hans, Berlin-Dahlem, Germany. Diaphragm valve. 1,618,671; Feb. 22.
- Pick, Hugo, Winnetka, assignor to Albert Pick & Company, Chicago, Ill. Combined mirror and rack. 1,638,509; Aug. 9.

- Pickance, Frederick W. W., Wimbledon, London, England. Ventilating apparatus. 1,618,552; Feb. 22.
- Pickard, Leo H., North Freedom, Wis. Folding brush. 1,627,200; May 3.
- Pickard, Fred. (See Atkinson, F. A. and Pickard.)
- Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Thermionic tube. 1,650,232; Nov. 22.
- Pickard, Oliver J. (See Atkinson, F. A. and Pickard.)
- Pickard, Robert H., D. J. Lloyd, and A. E. Canace, London, England. Stuffing of chrome-tanned heavy leather. 1,638,877; Aug. 16.
- Pickard, Rosa M., Wilmette, Ill. Door knocker. Des. 72,286; Mar. 15.
- Pickard's, Joseph, Sons Co. (See Atkinson, F. A. and Pickard.)
- Pickel, Henry C., Pemberton, Minn. Road planer. 1,624,971; Apr. 19.
- Pickell, Archie B., Kansas City, Mo. Spraying device. 1,636,070; July 19.
- Pickell, Joseph, administrator. (See Heron, Robert P.)
- Pickens, John L., Ardmore, Okla. Nut-cracking machine. 1,654,430; Dec. 27.
- Pickering Lumber Company. (See Lynch, Charles W., assignor.)
- Pickett, A. Glenn, assignor to Chicago Metallic Packing Company, Chicago, Ill. Packing. 1,616,696; Feb. 8.
- Pickett, Michael J., Cleveland, Ohio. Plate for printing upon tin and the like. 1,621,952; Mar. 22.
- Picketts, James, San Diego, Calif. Gas engine. 1,643,584; Sept. 27.
- Pickford, Jack S., Weymouth, England. Hair comb. 1,621,269; Mar. 15.
- Picking, William T. (See Grosvenor, J. E., and Picking.)
- Pickrell, John, Louisville, Ky. Refrigerator. 1,618,106; Feb. 15.
- Pickup, William, Pendleton, and J. Berry, London, England. Rotary intaglio printing machine. 1,654,431; Dec. 27.
- Pieczonka, Rudolph, Naugatuck, Conn. Safety device for gas valves. 1,618,307; Feb. 22.
- Piehn, Theodore A., and G. Heer, San Jose, Calif. Tool. 1,641,824; Sept. 6.
- Piel, Gottfried, jr., Forest Hills, assignor to Steiner Electric Corporation, Long Island City, N. Y. Distance control for movable parts. 1,652,794; Dec. 13.
- Pieper, Alphonse F. (See O'Neill, T. F. and Miller, assignors.)
- Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
- Pieper, Alphonse F., Rochester, N. Y. Universal joint. Des. 72,805; June 7.
- Pieper, Alphonse F., Rochester, N. Y. Dental apparatus. 1,626,689; May 8.
- Pieper, Alphonse F., Rochester, N. Y. Valve. 1,631,643; June 7.
- Pieper, Alphonse F., Rochester, N. Y. Instrument support. 1,645,660; Oct. 18.
- Pieper, Alphonse F., Rochester, N. Y. Dental engine.
- Pieper, Alphonse F., Rochester, N. Y. Light-projecting apparatus. 1,646,557; Oct. 25.
- Pieper, Alphonse F., Rochester, N. Y. Trap for cuspidors. 1,649,182; Nov. 15.
- Pieper, Alphonse F., Rochester, N. Y. Cuspidor. 1,649,183; Nov. 15.
- Pieper, Alphonse F., Rochester, N. Y. Dental unit. 1,649,251; Nov. 15.
- Pieper, Herman, St. Louis, Mo. Spinal brace. 1,650,650; Nov. 29.
- Pieper, John H., Delavan, Minn. Dispensing device. 1,634,594; July 5.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Pedestal for dental apparatus. Des. 71,944; Feb. 1.
- Pieper, Willy, assignor to J. B. Seellner Nachf. Reisszeugfabrik A.-G., Nuremberg, Germany. Production of a weatherproof oxide layer on electron metal. 1,642,309; Sept. 13.
- Pieratt, James S., assignor of one-fourth to W. C. Smith, Corsicana, Tex. Circuit breaker and distributor. 1,651,103; Nov. 29.
- Pierce, Arthur. (See Pierce, Henry L. and A.)
- Pierce, Benjamin F., Glenwood, Iowa. Veterinary operating table. 1,651,290; Nov. 29.
- Pierce, Butler & Pierce Manufacturing Corp. (See Goodnow, W. F., and Vickers, assignors.)
- Pierce, Charles C., Nacogdoches, Tex. Prostate applicator. 1,652,954; Dec. 13.
- Pierce, Clarence A., Lowell, Mass. Oiling traveler of spinning frames. 1,639,749; Aug. 25.
- Pierce, Earl F., Chicago, Ill., assignor by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,614,688; Jan. 18.
- Pierce, Earl F., Chicago, Ill., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,618,877; Mar. 1.
- Pierce, Earl F., assignor to The Bessick Manufacturing Company, Chicago, Ill. Lubricating system. 1,644,202; Oct. 4.
- Pierce, Ernest P., Cleveland, Ohio. Die-casting machine. 1,618,223; Feb. 22.
- Pierce, Frank M., Chicago, Ill. Sounding whirligig. 1,612,881; Jan. 4.
- Pierce, Frank M., Chicago, Ill. Whirligig. 1,612,882; Jan. 4.
- Pierce, Frank M., Chicago, Ill. Gyroscopic toy. 1,634,470; July 5.
- Pierce Fuse Corporation. (See Blake, Robert S., assignor.)
- Pierce, George, Montreal, Quebec, Canada. Vehicle headlight. 1,634,043; June 28.
- Pierce, George, Montreal, Quebec, Canada. Headlight-dipping mechanism. 1,634,044; June 28.
- Pierce, George L., Brooklyn, N. Y. Playing ball. 1,621,895; Mar. 12.
- Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Playing ball. 1,621,898; Mar. 22.
- Pierce, George L., and H. V. Rau, Brooklyn, assignors to A. G. Spalding & Bros., New York, N. Y. Playing ball. 1,618,894; Mar. 12.
- Pierce, George L., and H. V. Rau, Brooklyn, assignors to A. G. Spalding & Bros., New York, N. Y. Golf-bag bottom. 1,628,186; May 10.
- Pierce, Harrie C., assignor to Metal Protection Corporation, Indianapolis, Ind. Chromium plating. 1,645,927; Oct. 18.
- Pierce, Henry L., and A. Pierce, Ellet, Ohio. Drip-pan alarm. 1,615,647; Jan. 25.
- Pierce, Hodgson S., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Switch. 1,636,349; Feb. 1.
- Pierce, Homer R., assignor to Indian Territory Illuminating Oil Company, Bartlesville, Okla. Gas gravity balance. 1,629,526; May 24.
- Pierce, Howard W., Butte, Mont. Riveting machine. 1,615,724; Jan. 25.
- Pierce, Howard W., Butte, Mont., assignor to L. M. Stellmann, Onondaga County, N. Y. Piston and piston-pin construction. 1,623,972; Apr. 12.
- Pierce, James B., Jr., Charleston, W. Va. Making precipitated barium carbonate and barium sulphhydrate. 1,634,338; July 6.
- Pierce, John D., Chicago, Ill., assignor to Combination Woodworking Machine Co., Chicago, Ill. Combination woodworking machine. 1,621,999; Mar. 22.
- Pierce, Josiah, executor. (See Pierce, Vinton U. D.)
- Pierce, Leon, New York, N. Y. Crane. 1,613,409; Jan. 4.
- Pierce, Leon, New York, N. Y. Rolling mill. 1,633,349; Jan. 21.
- Pierce, Leon, New York, N. Y. Building pile. 1,645,398; Oct. 11.
- Pierce, Maurice, Bergen, Norway. Lifting jack. 1,650,536; Nov. 22.
- Pierce, Maurice, Bergen, Norway. Lifting jack. 1,650,537; Nov. 22.
- Pierce, Maurice R., Lakehurst, N. J. Camera sextant. 1,653,585; Dec. 20.
- Pierce, Paul, Chicago, Ill., assignor to Pierce Wrapping Machine Company. Wrapping machine. 1,635,288; July 12.
- Pierce, Ralph E., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Means for measuring the margin of operation of telegraph circuits. 1,616,507; Feb. 8.
- Pierce, Ralph H., and G. A. Anderson, Eugene, Oreg. Disk wheel. 1,643,172; Sept. 20.
- Pierce, Raymond T., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. 1,615,648; Jan. 25.
- Pierce, Raymond T., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Graphic power-factor meter. 1,652,495; Dec. 13.
- Pierce, Raymond T., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,654,308; Dec. 27.
- Pierce, Raymond T., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring and controlling temperatures. 1,617,416; Feb. 15.
- Pierce, Raymond T., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,637,390; Aug. 2.
- Pierce, Robert C., assignor to J. R. Gammeter, Akron, Ohio. Spiral-forming machine. 1,630,710; May 31.
- Pierce, Terry W., Nussel, Joseph H., assignors.
- Pierce, Vinton U., deceased, Asheville, N. C., J. Pierce, executor. Internal-combustion engine. 1,624,432; Apr. 12.
- Pierce, Walter, Glendale, Calif. Traffic signal. 1,652,728; Dec. 13.
- Pierce, Walter H., assignor to Carl Fastener Company, Cambridge, Mass. Fastener stud. 1,634,234; June 28.
- Pierce, Walter H., Watertown, assignor to Carl Fastener Company, Cambridge, Mass. Fastener. 1,641,901; Sept. 6.
- Pierce, Winslow S., jr., Barville, N. Y. Breaking device for hollow cylinders. 1,630,759; May 31.
- Pierce Wrapping Machine Company. (See Pierce, Paul, assignor.)
- Piercy Company, The. (See Klein, Alfred M., assignor.)
- Piercy, George F., Superior, Nebr. Syringe. 1,616,389; Feb. 1.
- Pieretti, Peter J., Mount Morris, N. Y. Commode. 1,646,257; Oct. 18.
- Pierle, Henry C., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Machine tool. 1,617,606; Feb. 15.
- Pierlorer, Alexander N., Newark, N. J. Alarm signal. 1,652,683; Dec. 13.

- Piermattell, Ignazio, Landisville, N. J. Paper-receptacle-making machine. 1,635,057; July 5.
- Piernay, Walter. (See Isenberg, H. O. C., and Piernay.)
- Pierpoint, Walter, Alexandria, Va. Insect trap. 1,614,153; Jan. 11.
- Piers, Arthur S. (See Reid, Percy H., assignor.)
- Pierston, Charles A., assignor to The Standard Electric Stove Company, Toledo, Ohio. Electric stove. 1,640,371; Aug. 30.
- Pierston, Edward, Calumet City, Ill. Clasp. 1,635,386; July 12.
- Pierson, Floyd E., Oakland, Iowa. Stock-watering tank. 1,629,883; May 24.
- Pierson, Henry J., Keene, Nebr. Spring seat. 1,616,546; Feb. 8.
- Pierson, Robert M. (See Bauman, H. A., and Pierson.)
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making an annular laminated disklike element. 1,622,048; Mar. 22.
- Pierson, Robert M., Akron, Ohio, assignor to Packard Motor Car Company, Detroit, Mich. Inlet manifold for internal-combustion motors. 1,645,347; Oct. 11.
- Pieters, Ivo S., assignor to Public Jointless Firebrick Company, Chicago, Ill. Furnace. 1,637,159; July 26.
- Pietrzycki, Ziegmond P., Klamath Falls, Oreg. Cabinet. 1,619,312; Mar. 1.
- Pietzsch, Frank H., assignor to Western Railway Equipment Company, St. Louis, Mo. Floor construction. 1,620,130; Mar. 8.
- Pietzsch, Frank H., assignor to Railway Devices Company, St. Louis, Mo. Angle-cock holder. 1,626,690; May 3.
- Pietzsch, Frank H., assignor to Western Railway Equipment Company, St. Louis, Mo. Retaining-valve bracket. 1,640,804; Aug. 30.
- Pietzsch, Louis H., Coburg, Melbourne, Victoria, Australia. Liquid-dispensing apparatus. 1,627,115; May 3.
- Pigeon, Albert M., deceased; A. M. Pigeon, administratrix, Norristown, Pa. Yarn-tensioning device. 1,648,190; Nov. 1.
- Pigeon, Anna M., administratrix. (See Pigeon, Albert M.)
- Piggly Wiggly Corporation. (See Roberts, Arthur L., assignor.)
- Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)
- Pihl, Albert, Murray, Utah, assignor to Holiday Radio & Manufacturing Company. Telephone receiver. Re. 16,547; Feb. 8.
- Pike, Arch and B., Indianapolis, Ind. Time switch. 1,613,281; Jan. 4.
- Pike, Bert. (See Pike, Arch and B.)
- Pike, Charles V., assignor of one-half to H. A. Orr, Cleveland, Ohio. Food carrying and dispensing means. 1,646,880; Oct. 25.
- Pike, George J. (See Gunlocke, W. H., and Pike.)
- Pike Laboratories, Limited, The. (See Pike, W. J., and Gibson, assignors.)
- Pike Manufacturing Company. (See Hardy, Arthur J., assignor.)
- Pike, Mark L., St. Paul, Minn. Calculator. 1,653,655; Dec. 27.
- Pike, Norman C., Seattle, Wash. Dispensing device. 1,638,456; Aug. 9.
- Pike, Oscar G., De Kalb, Ill. Swimming device. 1,628,852; Apr. 5.
- Pike, Otis W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,614,154; Jan. 11.
- Pike, Robert D., San Francisco, Calif. Manufacturing oil gas. 1,644,146; Oct. 4.
- Pike, Robert D., San Francisco, Calif., assignor to Cole-French Company. Regenerative furnace. 1,648,191; Nov. 8.
- Pike, Robert D., San Francisco, Calif., assignor to Cole-French Company. Regenerative furnace for melting glass. 1,653,507; Dec. 20.
- Pike, Vernon B., Cheltenham, Pa. Cable bender. 1,640,426; Aug. 30.
- Pike, Walter J., Newaygo, Mich. Lamp. 1,652,456; Dec. 13.
- Pike, Walter J., and W. J. Gibson, assignors to The Pike Laboratories, Limited, Newaygo, Mich. Vehicle headlight. 1,643,086; Sept. 20.
- Pi Lambda Phi Fraternity, Incorporated. (See Rosenthal, Robert H., assignor.)
- Pilgus, Joe, Hamburg, Germany. Gymnastic apparatus. 1,621,477; Mar. 15.
- Pihlad, Eric J., Brooklyn, N. Y., assignor to R. S. Smart, Ottawa, Canada. Spring suspension device or shock absorber. 1,626,968; May 3.
- Pihlad, Eric J., Rockville Center, N. Y., assignor to R. S. Smart, in trust, Ottawa, Ontario, Canada. Spring suspension and braking device. 1,647,470; Nov. 1.
- Pilcher, J. V. (See Babbitt, John F., assignor.)
- Pilcher, John V. (See Babbitt, John F., assignor.)
- Pilcher, John V., Louisville, Ky. Separable button. 1,629,286; Apr. 26.
- Pilkington Brothers Limited. (See Armstrong, Alan, assignor.)
- Pilkington Brothers Limited. (See Le Mare, Ernest B., assignor.)
- Pilkington Brothers Limited. (See Pilkington, Geoffrey L., assignor.)
- Pilkington Brothers Limited. (See Rowart, Eugene, assignor.)
- Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)
- Pilkington, Frederick, New York, N. Y. Indicating means for faucets or the like. 1,642,264; Sept. 18.
- Pilkington, Geoffrey L., St. Helens, assignor to Pilkington Brothers Limited, Liverpool, England. Cathedral glass. Dec. 72,029; Feb. 15.
- Pilla, Raphael A., Philadelphia, Pa. Drawer stop. 1,626,354; Apr. 26.
- Pillars, Edward R., Fostoria, Ohio. Automatic lubrication system. 1,645,061; Oct. 18.
- Pillet, Aglibert, Buenos Aires, Argentina. Hame for draft horses or mules. 1,624,624; Apr. 12.
- Pilling, Henry, Chorlton, Manchester, England. Pressure regulator. 1,642,216; Sept. 13.
- Pilling, Norman B., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Resistor alloy. 1,626,651; May 3.
- Pilling, Norman B., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat treatment of electrolytically-deposited iron. 1,630,449; May 31.
- Pillinger, Harry R., Earlestown, England. Human-power moving mechanism for vehicles. 1,650,387; Nov. 22.
- Pilliod, Thomas J., Swanton, Ohio. Vanity chest. 1,639,963; Aug. 23.
- Pilliod, Thomas J., Swanton, Ohio. Cabinet. 1,639,964; Aug. 23.
- Pillsbury, Franklin H., Arlington, N. J. Textile fabric. Dec. 72,442; Apr. 12.
- Pillsbury, Ralph B., Benton Station, Me. Combined container and dispenser. 1,645,771; Oct. 18.
- Pilon, Hector P., Paris, France. Electric relay for radiography. 1,634,208; June 28.
- Pilot Electric Manufacturing Company. (See Geloso, John, assignor.)
- Pilot Electric Manufacturing Company, The. (See Horton, Charles, assignor.)
- Piloty, Ilans, Munich, assignor to the Firm of Jos-Pe Farbenphoto Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Apparatus for multiplex photography. 1,631,058; May 31.
- Pimm, John C. (See Long, S. B., and Pimm.)
- Pinard, Antoine B., San Jose, Calif. Mute. 1,644,272; Oct. 4.
- Pinaud, John A., Atlantic Highlands, N. J. Wind motor. 1,636,484; July 19.
- Pinchack, Arthur S. (See Pinchbeck, Harry A. and A. S.)
- Pinchbeck, Harry A. and A. S., London, England. Fruit knife. 1,638,956; Aug. 16.
- Pinckney, Albert J., New York, N. Y. Superdurable photo plates for ink printing. 1,640,961; Aug. 30.
- Pine, William S., Ventura, Calif. Shield for casting-slip handles. 1,625,152; Apr. 19.
- Pines Manufacturing Company. (See McCaleb, Albert G., assignor.)
- Pines Manufacturing Company. (See Raleigh, James F., assignor.)
- Pines Winterfront Company. (See Crawford, Howard H., assignor.)
- Pines Winterfront Company. (See Raleigh, James F., assignor.)
- Pinet, Andre L. (See Polnaszek, John P., assignor.)
- Pine Tree Milking Machine Company. (See Babson, Henry R., assignor.)
- Pingen, Henry M., Toledo, Ohio. Electron tube. 1,644,744; Oct. 11.
- Pingree Patents, Incorporated. (See Pingree, Samuel J., assignor.)
- Pingree, Samuel J., assignor to Pingree Patents, Incorporated, St. Louis, Mo. Apparatus for supplying fuel to internal-combustion engines. 1,623,750; Apr. 5.
- Pinkert, Ernest H., Harlingen, Tex. Burial vault. 1,635,904; July 12.
- Pinkerton, Ernest H., Harlingen, Tex. Grave-marker mold. 1,647,015; Oct. 25.
- Pinkham, Delmar D., Texarkana, Tex. Metal screen. 1,630,450; May 31.
- Pinkham, Delmar D., New York, N. Y. Radiocondenser. 1,625,330; Apr. 19.
- Pinozzi, Carl, Providence, R. I. Fence knob. Dec. 74,071; Dec. 13.
- Pintaucada, Carlo, and U. Frilli, Florence, Italy. Device for determining pressure in vehicle shock absorbers. 1,623,069; Apr. 5.
- Pinter, John C., Chicago, Ill. Packaging machine. 1,628,803; May 17.
- Pinto, Angelo, Brooklyn, N. Y. Carousel. 1,631,331; June 7.
- Pinto, Anthony. (See Lewis, J. D., and Pinto.)
- Pinto, Edward H., West Hampstead, London, England. Garment-suspender fitting for clothing cabinets. 1,618,946; Feb. 22.
- Pintsch, Julius, Aktiengesellschaft. (See Reinecke, August, assignor.)
- Pinzka, George P. (See Morgan, Everett C., and J. E., and Pinzka.)
- Piola, Benedict F., San Jose, Calif. Dog shield. 1,642,310; Sept. 13.

- Pioneer Instrument Company. (See Colvin, Charles H., assignor.)
- Pioneer Slaughtering Device Company. (See Walker, Eugene F., assignor.)
- Pioneer Suspender Company. (See Peter, Henry A., assignor.)
- Pioneer Suspender Company. (See Simmons, Frederick C., assignor.)
- Piprowski, John B., Chippewa Falls, Wis. Boot or shoe. 1,626,426; Apr. 26.
- Pipenhagen, Charles A., Chicago, Ill. Weather strip. 1,622,393; Mar. 29.
- Piper, Hiram L., Montreal, Quebec, Canada. Signal lamp. 1,618,778; Feb. 22.
- Piper, Joseph A., Wiley Ford, W. Va., assignor of one-half to L. Settle, Cumberland, Md. Headlight adjuster for autos. 1,629,360; May 17.
- Piper, Walter E., Sudbury, Mass. Overshoe. 1,637,027; July 26.
- Piper, Walter E., Sudbury, Mass. Overshoe pattern. 1,643,995; Oct. 4.
- Piper, Walter F. (See Beardsley, E. O., and Piper.)
- Pipes, Pliny P., assignor to The Ohio Brass Company, Mansfield, Ohio. Arc-welding system. 1,618,672; Feb. 22.
- Pipkin, James A., Waco, Tex. Bottle protector. 1,632,347; June 14.
- Pippenhagen, Charles A., et al. (See Furber, Frederick M., assignor.)
- Piquet, Ansel V. (See Piquet, Henri, assignor.)
- Piquet, Henri, assignor of one-half to A. V. Piquet, Jacksonville, Fla. Spout. 1,617,273; Feb. 8.
- Piquet, Jean. (See Biles, R. W., and Piquet.)
- Pirani, Marcello. (See Skaupe, F., Pirani, Bahr, and Fehse.)
- Pirec, Michele, Rolano, Italy. Smoking pipe. 1,654,884; Dec. 27.
- Pirrell & C. (See Emanuel, Luigi, assignor.)
- Piro, Raffaele, Naples, Italy. Safety razor with rolling blade. 1,635,342; July 12.
- Pirquet, Clemens, Vienna, Austria, assignor to A. Konta, New York, N. Y. Vehicle. 1,651,727; Dec. 6.
- Pisano, Genesiro, Orange, N. J. Target device. 1,630,717; May 3.
- Piscator, Robert C., Indianapolis, Ind., assignor to Quality Plating and Manufacturing Company. Adjustable window stop. 1,615,554; Jan. 25.
- Piscator, Robert C., Indianapolis, Ind., assignor to Quality Plating and Manufacturing Company. Switch-clamp bracket. 1,641,690; Sept. 6.
- Piscione, Nicholas, South Weymouth, Mass. Electric hammer and drill. 1,636,923; July 26.
- Piscitello, Dominick N. (See Piscitello, Roy C. and D. N.)
- Piscitello, Roy C., Boonton, and D. N. Piscitello, Jersey City, N. J. Sweater. 1,652,183; Dec. 13.
- Pitkin Ring Company, The. (See Johnson, Charles E., assignor.)
- Pistor, Gustav, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Production of phosphorus pentoxide. 1,622,206; Mar. 22.
- Pistor, Walter U., Cincinnati, Ohio. Switch. 1,617,862; Feb. 15.
- Pistorius, Anna, assignor to Theodore A. Schmidt Lithographing Company, Chicago, Ill. Box cover paper. Des. 72,633; May 10.
- Pitcairn, Edward, et al. (See Molony, S. B., and Nikaldo, assignors.)
- Pitcairn, Harold F. (See Brewer, Robert W. A., assignor.)
- Pitcairn, William S., Corporation. (See Merriman, Thomas C., assignor.)
- Pitcairn, William S., Corporation. (See Noke, Charles J., assignor.)
- Pitcher, Ellen W. (See Hosking, Richard T., assignor.)
- Pitcher, Elmer, assignor to Pitcher Quack Grass Digger Co., Minneapolis, Minn. Quack-grass digger. 1,632,451; June 14.
- Pitcher, Elmer C. (See Frederickson, A. L., and Pitcher.)
- Pitcher Quack Grass Digger Co. (See Pitcher, Elmer, assignor.)
- Pitkin, Arthur F., Schenectady, N. Y. Manufacture of steam-boiler stay bolts. 1,628,063; May 10.
- Pitkin, John H. (See Frasier, Marion E., assignor.)
- Pitman, Andrew C., assignor of one-fourth to W. R. Bassick, Torrington, Conn. Stuffing box. 1,644,480; Oct. 4.
- Pitman, Arthur R., Lynn, Mass. Frying apparatus. 1,630,309; May 31.
- Pitman, Earle C., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reducing viscosity of nitrocellulose solutions and product thereof. 1,636,319; July 19.
- Pitman, Enoch F., Bend, Oreg. Glare shield. 1,648,994; Nov. 15.
- Pitman, Henry L., Westfield, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,624,068; Apr. 12.
- Pitman, Henry L., Westfield, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,625,331; Apr. 19.
- Pitman, Louis K., New York, N. Y. Surgical instrument. 1,650,959; Nov. 29.
- Pitney, Arthur H., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Multiple die for postage meter machines. 1,639,384; Aug. 16.
- Pitney, Arthur H., and J. W. Ogden, assignors, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Machine for printing various denominations of postage on mail matter, etc., and registering amount thereof. 1,639,350; Aug. 16.
- Pitney, Arthur H., J. W. Ogden, E. G. Northrop, and W. H. Wheeler, Jr., assignors, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Moistener and sealer for postage meter machines. 1,646,106; Oct. 15.
- Pitney, Arthur H., J. W. Ogden, E. G. Northrop, and W. H. Wheeler, Jr., assignors to Pitney-Bowes Postage Meter Company, Stamford, Conn. Separator for postage meter machines. 1,646,107; Oct. 18.
- Pitney, Arthur H., J. W. Ogden, E. G. Northrop, and W. H. Wheeler, Jr., assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn. Trip mechanism for postage-meter machines. 1,643,108; Oct. 18.
- Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.)
- Pitney-Bowes Postage Meter Company. (See Pitney, A. H., and Ogden, assignors.)
- Pitney-Bowes Postage Meter Company. (See Pitney, A. H., Ogden, Northrop, and Wheeler, assignors.)
- Pitney-Bowes Postage Meter Company. (See Sheldrick, George E., assignor.)
- Pitney-Bowes Postage Meter Co. (See Wheeler, W. H., Jr., and Ogden, assignors.)
- Pitney, Earl H., Minneapolis, assignor of one-half to J. W. Hamilton, St. Paul, Minn. Signal device. 1,630,633; May 31.
- Piton, Eugene, Kew Gardens, assignor to American Safety Device Co., New York, N. Y. Sign support for temporary structures. 1,613,584; Sept. 27.
- Pitt, Frederick D., assignor to The Anderson-Pitt Corporation, Kansas City, Mo. Packing or shipping carton. 1,636,071; July 19.
- Pitt, Frederick D., and A. Osterloo, assignors to The Anderson-Pitt Corporation, Kansas City, Mo. Guard for decaying heaters. 1,616,938; Feb. 8.
- Pitt, Guy L., Rocky Mount, N. C. Automobile jack. 1,640,293; Aug. 23.
- Pitt, Irving, Manufacturing Company. (See Conger, Claude M., assignor.)
- Pitt, William A., assignor to G. F. Sheppard, Montreal, Quebec, Canada. Antifriction bearing. 1,630,310; May 31.
- Pitt, William A., assignor of one-half to G. F. Sheppard, Montreal, Quebec, Canada. Journal bearing. 1,638,957; Apr. 16.
- Pitt, William F., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Displaying and selling merchandise. 1,651,905; Dec. 6.
- Pittelkow, August, Chicago, Ill., assignor to American Can Company, New York, N. Y. Cracker can. 1,645,772; Oct. 18.
- Pittenger, E. M. (See Inzinga, Philip, assignor.)
- Pitter, Walter C., Eltham, England, assignor to A. E. Osborne, Transmission gear. 1,641,902; Sept. 6.
- Pittman, Ernest W., Wheaton, Ill., assignor, by mesne assignments, to Standard Gas Equipment Corporation. Stove structure. 1,651,542; Dec. 6.
- Pittman, Wilmer T., Hampton, Va. Vehicle lamp casing or article of similar nature. Des. 73,415; Sept. 6.
- Pittoni, Angelo, Lynbrook, N. Y., assignor to Rome Metallic Bedstead Company. Folding bed. 1,649,323; Nov. 15.
- Pittoni, Louis E. (See Sisbower, G. F., and Pittoni.)
- Pitts, Edmund M., assignor to Sunland Sales Cooperative Association, Fresno, Calif. Folding box. 1,648,280; Nov. 8.
- Pitts, John W., Berkeley, Calif. Tobacco-pipe cleaner. 1,639,200; Aug. 16.
- Pitts, Joseph M., Manila, Ind. Garden tool. 1,650,463; Nov. 22.
- Pittsburgh Annealing Box Company. (See Hunter, Percy E., assignor.)
- Pittsburgh-Erie Saw Company. (See Jull, Charles H., assignor.)
- Pittsburgh Lavatory Supply Inc. (See Ewing, Urbane J., and A. F., assignors.)
- Pittsburgh Plate Glass Company. (See Evans, Albert E., assignor.)
- Pittsburgh Plate Glass Company. (See Fox, John H., assignor.)
- Pittsburgh Plate Glass Company. (See Gelstharp, Frederick, assignor.)
- Pittsburgh Plate Glass Company. (See Gelstharp, F., and Parkinson, assignors.)
- Pittsburgh Plate Glass Company. (See Gregorius, Joseph S., assignor.)
- Pittsburgh Plate Glass Company. (See Halbach, H. L., and Sweet, assignors.)
- Pittsburgh Plate Glass Company. (See Harrington, Alfred L., assignor.)
- Pittsburgh Plate Glass Company. (See Hess, Philip J., assignor.)
- Pittsburgh Plate Glass Company. (See Hess, Philip J., assignor.)
- Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)

- Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
- Pittsburgh Plate Glass Company. (See Jenkins, J. D., and Berger, assignors.)
- Pittsburgh Plate Glass Company. (See Koupal, W. G., and Gregorius, assignors.)
- Pittsburgh Plate Glass Company. (See Kutchka, Karl G., assignor.)
- Pittsburgh Plate Glass Company. (See Oakes, George W., assignor.)
- Pittsburgh Plate Glass Company. (See Owen, William, assignor.)
- Pittsburgh Plate Glass Company. (See Parkinson, Joseph C., assignor.)
- Pittsburgh Plate Glass Company. (See Rotherham, J., and Evans, assignors.)
- Pittsburgh Plate Glass Company. (See Showers, Lee, assignor.)
- Pittsburgh Plate Glass Company. (See Wright, Charles H., assignor.)
- Pittsburgh Producers Supply Company. (See Banks, Reeve H., assignor.)
- Pittsburgh Steel Drum Company. (See McCrery, Harold E., assignor.)
- Pittsburgh Tinware Manufacturing Company. (See Flowers, Stanley A., assignor.)
- Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
- Pittsburgh Transformer Company. (See Edwards, Donald V., assignor.)
- Pittsburgh Transformer Company. (See Hodtum, Joseph B., assignor.)
- Pittsburgh Transformer Company. (See Morelick, Samuel, assignor.)
- Pittsburgh Transformer Company. (See McArn, Donald G., assignor.)
- Pittsburgh Transformer Company. (See Roberts, Clifford A., assignor.)
- Pittsburgh Transformer Company. (See Stahl, Edward C. M., assignor.)
- Pittsburgh Valve and Fittings Company. (See Wagner, Frank, assignor.)
- Piver, William C., Hillside, N. J. Making an insecticide. 1,626,872; May 3.
- Piver, William C., Hillside, assignor of one-half to W. H. Simons, East Orange, N. J. Making arsenic acid. 1,615,193; Jan. 18.
- Place, Claude W., La Grange, Ill., assignor to General Electric Company. Automatic switching equipment. 1,646,215; Oct. 18.
- Placker, William. (See Shaffer, Frank E., assignor.)
- Plainfield Trust Company, The, administrator. (See Hopkins, Charles E.)
- Planché, Benjamin R., Villefranche-sur-Saône, France. Rotary pump. 1,617,868; Feb. 15.
- Planché, Benjamin R., Villefranche-sur-Saône, assignor to Mrs. Widow Ernest B. Planché, born Clotilde Pedrix, France. Rotary engine or pump. 1,636,436; July 19.
- Planché, Mrs. Ernest B. (See Planché, Benjamin R., assignor.)
- Planchon, Victor, Lyon, France. Manufacture of nitrated cellulose from wood pulp. 1,641,292; Sept. 6.
- Plane Speaker Corporation. (See Coburn, J. M., and Knapp, assignors.)
- Planer, Alvin S. (See Lasher, D., and Plank.)
- Plank, Walter E., San Francisco, Calif. Steering-mechanism stabilizer for trailers. 1,631,332; June 7.
- Planski, William, Kellogg, Idaho. Bottle cooler. 1,639,857; Aug. 23.
- Planticco, Victor D., Manitowoc, Wis. Dog harness. 1,641,083; Jan. 11.
- Plass, Martin, Hatfield, Pa. Internal-combustion engine. 1,649,544; Nov. 15.
- Plass, Robert H., Upper Montclair, N. J., assignor to Poloris Company, Inc., New York, N. Y. Mechanism for charging portable receptacles. 1,651,149; Nov. 29.
- Platt, Alfred Products, Inc. (See Rount, Orville L., assignor.)
- Platou, Olaf. (See Sandvold, O., Rye, and Platou.)
- Platschick, Benvenuto, Paris, France. Backplate for artificial teeth. 1,613,719; Jan. 11.
- Platt, Archie W., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Sheet-glass-abrading means. 1,652,410; Dec. 13.
- Platt, Arthur D., Portland, Ore. Combined stopper and pen-filling attachment for ink bottles. 1,627,804; May 10.
- Platt Brothers and Company Limited. (See Wilkinson, H., and Bassett, assignors.)
- Platt Brothers and Company Limited. (See Wilkinson, H., and Reed, assignors.)
- Platt, Clarence D., Bridgeport, Conn. Electric-switch member. Decs. 73,579; Oct. 4.
- Platt, Clarence D., Bridgeport, Conn. Inclosed switch. 1,652,795; Dec. 13.
- Platt, Cornelius B., and W. S. Brown, Carthage, Mo. Adjustable support for bed bottoms. 1,629,410; May 17.
- Platt, Frank L. (See Hein, G. N., Platt, and Impey.)
- Platt, Henry. (See Platt, John, W., and H.)
- Platt, John, Harrow, England, and W. and H. Platt, Roubaix, France. Carding machine. 1,625,868; Apr. 26.
- Platt, John G., Brighton, assignor to Hunt-Spiller Manufacturing Corporation, Boston, Mass. Piston ring. 1,643,628; Sept. 27.
- Platt, Maitland S., Toronto, Ontario, Canada. Combined air nozzle and gauge. 1,622,341; Mar. 29.
- Platt, William. (See Platt, John, W., and H.)
- Plaudier Company, The. (See Manisog, G. N., and Colview, assignors.)
- Plauson, Hermann, and P. Schröder, Hamburg, Germany, assignor to L. W. Bates, Mount Lebanon, N. Y. Liquid fuel. 1,647,471; Nov. 1.
- Plaut, Antoine P., assignor of one-half to Roberts Brass Manufacturing Company, Detroit, Mich. Ajutage. 1,625,867; Apr. 26.
- Plaut, Antoine P., assignor of one-half to The Roberts Brass Manufacturing Co., Detroit, Mich. Vacuum feed. 1,642,129; Sept. 13.
- Plaut, Jerome, Hamilton, Ohio. Flexible solder. 1,655,222; July 12.
- Pleasant, Carl, and E. R. Tibbets, Tulsa, Okla. Pipe joint. 1,618,472; Feb. 22.
- Plein, Adam, and J. W. Hoffmann, assignors of one-fourth to G. Cloos, Milwaukee, Wis. Time-control cut-out switch. 1,648,506; Nov. 8.
- Plester, Henry W., Westfield, N. J., and Plester. (See Plester, Henry W., Westfield, N. J., assignor, by mesne assignments, to Diamond Expansion Bolt Company, New York, N. Y. Centrifugal coating machine. 1,618,779; Feb. 22.)
- Plester, Henry W., Westfield, N. J., assignor to H. B. Newhall. Manufacturing thin drill blades. 1,628,684; May 17.
- Plester, Henry W., Westfield, N. J., assignor, to H. B. Newhall. Sound amplifier. 1,632,040; June 14.
- Plesce, Lorenzo, Hazleton, Pa. Shade and curtain support. 1,637,755; Aug. 2.
- Pletscher, Carl, assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Baking outfit. 1,652,325; Dec. 13.
- Pletscher, Otto, jr. (See Hickel, W., and Pletscher.)
- Pletscher, Otto, jr., Albrilsrieden, near Zurich, Switzerland. Automatic cut-out for heating circuits. 1,646,835; Oct. 25.
- Plews & Hutchinson Corporation. (See Plews, William J., assignor.)
- Plews, William J., Cleveland, Ohio, assignor to Plews & Hutchinson Corporation, Jersey City, N. J. Manufacturing battery plates. 1,629,636; May 24.
- Plibrico Jointless Firebrick Company. (See Pieters, Ivon S., assignor.)
- Pliskin, Benjamin, Schenectady, N. Y. Quick-erecting tent. 1,653,822; Dec. 27.
- Plomp, Hendrik, Amersfoort, Netherlands. Attaching device. 1,635,908; July 19.
- Plooster, Neal W., Minneapolis, Minn. Toy dog. Des. 72,237; Mar. 15.
- Plooster, Neal W., St. Paul, Minn. Toy riding horse. Des. 73,145; July 26.
- Plon, Artz, N., Chicago, Ill. Guard for reels. 1,620,918; Mar. 15.
- Plum, Johannes, Washington, D. C. Speed boat. 1,618,995; Mar. 1.
- Plum, Stephen H., 2d, Madison, N. J., assignor to American Type Founders Company. Facsimile-printing attachment. 1,625,908; Apr. 26.
- Plum, Stephen H., 2d, Madison, and A. Ackley, Camden, N. J., assignors to American typefounders Company. Sheet-feeding mechanism. 1,624,069; Apr. 12.
- Plumb, Ermin F. (See Ogden, Dana P., assignor.)
- Plumb, Milton M., assignor to American Auto Trimming Company, Detroit, Mich. Vehicle top construction. 1,619,153; Mar. 1.
- Plumb, Walter, Glen Rock, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Scaled metal container. 1,653,371; Dec. 20.
- Plume & Atwood Mfg. Co., The. (See Boomer, George A., assignor.)
- Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Utilizing old paper stock. 1,625,279; Apr. 19.
- Plunkett, Hugh E., Hudson, N. H. Connector for electric conduits. 1,650,233; Nov. 22.
- Plunkett, Hugh E., Nashua, N. H. Connector for electric conduits. 1,650,234; Nov. 22.
- Plunkett, William H. (See Holmes, Alfred E., assignor.)
- Plushkell, August B., Los Angeles, Calif. Loose-leaf binder. 1,638,784; Aug. 9.
- Plym, Francis J., assignor to The Kawneer Company, Niles, Mich. Window construction. 1,628,187; May 10.
- Plym, Francis J., assignor to The Kawneer Company, Niles, Mich. Threshold and constructing same. 1,646,167; Oct. 13.
- Plym, Francis J., assignor to Cordage Company. (See Brewster, Ellis W., assignor.)
- Plymouth Cordage Company. (See Jenks, Fred A., assignor.)
- Plympton, Frederic K., assignor to N. D. Plympton, Brewster, N. Y. Machine for making bottle closures. 1,625,869; Apr. 26.
- Plympton, Frederic K., Wellesley, Mass., assignor, by mesne assignments, to N. D. Plympton, Brewster, N. Y. Bottle closure and the like. 1,640,009; Aug. 23.
- Plympton, Naomi D. (See Plympton, Frederic K., assignor.)

- Ply-Rite Contracting Company, The. (See Wootton, Joseph H., assignor.)
- Pneumatic Appliances Corporation. (See Weiland, Alfred, assignor.)
- Pneumatic Scale Corporation. (See Butler, James A., assignor.)
- Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)
- Pneumatic Scale Corporation, Limited. (See Cleaves, William S., assignor.)
- Pneumatic Scale Corporation, Ltd. (See Robinson, George A., assignor.)
- Pocan, Albert F. (See Pocan, Alvin W. and A. F.)
- Pocan, Alvin W. and A. F., Marinette, Wis. Harness. 1,618,073; Feb. 15.
- Pochobradsky, Bedrich, Sidcup, England. Packing gland for elastic-fluid turbines or the like. 1,642,085; Sept. 13.
- Pockmire, Warren, Charleston, W. Va. Dust cap. 1,632,502; June 14.
- Podel, Abraham, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Friction-cap machine. 1,634,723; July 5.
- Podel, Abraham, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Cap and package. 1,645,022; Oct. 11.
- Podbradsky, Zdenko, Astoria, assignor to H. R. Mallinson Co. Inc., New York, N. Y. Fabric-trimming apparatus. 1,635,343; July 12.
- Podszus, Emil, Berlin-Friedrichshagen, Germany. Process of and apparatus for obtaining powders of great fineness. 1,621,270; Mar. 15.
- Podszus, Emil, Berlin-Friedrichshagen, assignor to Hartstoff-Metall Aktiengesellschaft (Hametag), Berlin-Copenick, Germany. Rounding of metallic-powder particles. 1,647,249; Nov. 1.
- Poe, Archie M., Knoxville, Tenn. Classification signal for locomotives. 1,645,440; Nov. 8.
- Poe, William S., Hay, Wash. Trap. 1,653,411; Dec. 20.
- Poepfel, Emil O. H., Chicago, Ill. Radiator relief valve. 1,624,362; Apr. 12.
- Poepfel, Emil O. H., Chicago, Ill. Assembling radiator relief valves. 1,653,926; Dec. 27.
- Poepfmeier, Frank H., assignor of one-fourth to L. A. Poepfmeier, one-fourth to V. E. Poepfmeier, and one-fourth to J. L. Weigand, Dayton, Ohio. Type-distributing machine. 1,618,350; et al. (See Poepfmeier, Lawrence A., et al. (See Poepfmeier, Frank H., assignor.)
- Poepfmeier, Vincent E., et al. (See Poepfmeier, Frank H., assignor.)
- Poeter, E. & Company. (See Poeter, Edward, assignor.)
- Poeter, Edward. (See Poeter, Ernest B. and E.)
- Poeter, Edward, assignor to E. Poeter & Company, Irvington, N. J. Hand-bag frame. Des. 72,386; Apr. 5.
- Poeter, Edward, assignor to E. Poeter & Company, Irvington, N. J. Hand-bag frame. Des. 72,387; Apr. 5.
- Poeter, Edward, assignor to E. Poeter & Company, Irvington, N. J. Hand-bag frame. Des. 72,388; Apr. 5.
- Poeter, Edward, assignor to E. Poeter & Company, Irvington, N. J. Hand-bag frame. Des. 73,146; July 26.
- Poeter, Ernest B. and E., Irvington, N. J. Hand-bag frame. Des. 73,333; Aug. 23.
- Poeton, Lawrence, and F. A. Morey, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,622,668; Mar. 29.
- Poetschke, Paul, assignor to The L. D. Caulk Company, Milford, Del. Dental cement and making the same. 1,613,532; Jan. 4.
- Poetz, John C., Leonia, Idaho. Fountain pen. 1,615,312; Jan. 25.
- Poetz, John C., Leonia, Idaho. Mold for concrete buildings. 1,627,116; May 3.
- Poetz, John C., Leonia, Idaho. Molding core. 1,631,154; June 7.
- Poetz, John C., St. Paul, Minn. Shutter opening and closing device. 1,635,008; July 5.
- Poetz, John C., St. Paul, Minn. Fountain pen. 1,648,241; Nov. 8.
- Poetz, John C., St. Paul, Minn. Combined screen, hinge and shutter. 1,652,664; Dec. 13.
- Pogue, George D., Mount Vernon, N. Y. Oil-pipe-line system. 1,621,221; Mar. 15.
- Pogue, George D., Mount Vernon, N. Y. Pipe-line system. 1,621,683; Mar. 22.
- Pogue, George D. and W. V., Mount Vernon, N. Y., assignors to Paquin, Inc., New York, N. Y. Telephone index. 1,633,952; June 28.
- Pogues, Robert B., Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y. Refractory lining. 1,629,047; May 17.
- Pogur, Webster V. (See Pogue, George D. and W. V.)
- Pohl, Joseph J. H., Haddon Heights, assignor to The Phoenix Burner Corporation, Camden, N. J. Liquid-fuel burner. 1,635,634; July 12.
- Pohl, Robert, Berlin, Germany, assignor to General Electric Company, Protective system for power-plant installations. 1,641,691; Sept. 6.
- Pohl, Robert, Berlin, Germany, assignor to General Electric Company. Dynamo-electric machine. 1,645,070; Oct. 11.
- Pohle, Walter B., Lynn, assignor of one-third to P. B. Haskell, Lynn, and one-third to S. V. Russell, Chelsea, Mass. Sediment collector. 1,623,437; Apr. 5.
- Pohle, Walter B., assignor of one-third to P. B. Haskell, Lynn, and one-third to S. V. Russell, Chelsea, Mass. Crank casing. 1,636,756; July 26.
- Pohlmann, Bruno G., assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Transmission system. 1,644,395; Oct. 4.
- Pohlmann, Bruno G., assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone. 1,645,773; Oct. 13.
- Pohlmann, Bruno G., assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone repeater system. 1,650,723; Nov. 29.
- Pohlmann, Max, Berlin-Kaulsdorf, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany. Apparatus for X-ray examination and X-ray photographing. 1,646,065; Oct. 13.
- Pohlmann, William F. (See Palm, R. H., and Pohlmann.)
- Pohlmann, William F., assignor to F. W. Mateer & Co., Chicago. Safety device for laundry machines. 1,651,343; Dec. 6.
- Poignand, Francis N., Westfield, N. J., assignor, by mesne assignments, to Super Gas Corporation. Method of and apparatus for producing and burning gas in steam locomotives. 1,618,136; Feb. 15.
- Poignard, Francis N., Westfield, N. J., assignor, by mesne assignments, to Super-Gas Corporation, Wilmington, Del. Duplex throttle valve. 1,627,997; May 10.
- Poillon, Ethel A., Brooklyn, N. Y. Toilet-powder shaker. 1,625,092; Apr. 19.
- Poillon, George W., Tarrytown, N. Y. Storage battery. 1,622,203; Mar. 22.
- Poindexter, George B., Seattle, assignor of one-half to G. E. Miller, Bremerton, Wash. Combination lock. 1,637,009; July 26.
- Poindexter, Robert W., jr., Los Angeles, and P. T. Dolley, Los Angeles County, Calif., assignors to California Cyanide Company, Incorporated, New York, N. Y. Preparing alkali metal cyanides. 1,624,147; Apr. 12.
- Poindexter, Robert W., jr., Los Angeles, and W. E. Olberg, Long Beach, Calif., assignors to California Cyanide Company, Incorporated, New York, N. Y. Preparation of cyanogen compounds. 1,642,694; Sept. 13.
- Poindexter, Robert W., jr., Los Angeles, and H. J. Morgan, Walnut Park, Calif., assignors to California Cyanide Company, Incorporated, New York, N. Y. Method of and apparatus for making pellets. 1,647,194; Nov. 1.
- Pokorney, Robert W., jr., Los Angeles, Calif., assignor to California Cyanide Company, Incorporated, New York, N. Y. Preparation of calcium cyanide. 1,652,874; Dec. 13.
- Poindexter, Robert W., jr., Los Angeles, Calif., assignor to California Cyanide Company, Incorporated, New York, N. Y. Calcium-cyanide product. 1,652,908; Dec. 13.
- Pointer, Henry V., assignor to Universal Veneer Products Company, San Francisco, Calif. Producing boxes or shipping cases for multiply veneered panels. 1,644,203; Oct. 4.
- Poirier, Arthur F., Wilton, Me. Bearing protector. 1,618,947; Feb. 22.
- Poirier, Ernest, assignor of forty-nine one-hundredths to J. W. Stobie, Waterville, Me. Paper-making machine. 1,633,189; June 21.
- Poirier, Henry, New Bedford, Mass. Self-threading shutter. 1,638,595; Aug. 9.
- Poirier, Leon, Tracadie, New Brunswick, Canada. Nail-punch holder. 1,644,948; Oct. 11.
- Poissant, Mary, Little Falls, Minn. Tart-separating device. 1,617,649; Feb. 15.
- Pokorney, John, Burwell, Nebr. Lever control bolt for doors. 1,628,473; May 10.
- Pokorny, Frank, Mamaroneck, assignor of one-half to F. W. Keegan, New York, N. Y. Fluid-control means for motors. 1,639,532; Aug. 16.
- Pokorski, Theodore F. (See McLeod, G. D., Pokorski, and Hewitt.)
- Polachek, John, New York, J. Jepsen, Brooklyn, and B. Peremi, New York, assignors to J. Polachek, doing business as John Polachek Bronze & Iron Co., Long Island City, N. Y. Window. Re16,800; Nov. 29.
- Polachek, John, New York, J. Jepsen, Brooklyn, and B. Peremi, Elmhurst, Mass., assignors to J. Polachek, doing business under the name of John Polachek Bronze & Iron Co., Long Island City, N. Y. Window. 1,636,241; July 19.
- Polachek, John, Bronze & Iron Co. (See Polachek, J., Jepsen, and Peremi, assignors.)
- Polachek, John. (See Polachek, J., Jepsen, and Peremi, assignors.)
- Polack, Aron, Paris, France. Hyperchromatic objective. 1,629,361; May 17.
- Polakoff, Abraham. (See Devlin, John P., assignor.)
- Polchow, Charles J., Bridgewater, S. Dak. Attachment for bulldozers. 1,648,621; Nov. 8.
- Poldihütte. (See Pattermann, Otto, assignor.)
- Polen, Clarence R., assignor of three-fourths to S. R. Mealy, Tulsa, Okla. Reversible tool brace. 1,634,300; July 5.
- Polhamus, George, Toledo, Ohio. Carrier for pails and the like. 1,640,910; Mar. 15.
- Polhamus, George, Toledo, Ohio. Detachable handle. 1,648,281; Nov. 8.

- Polkier, Heinrich, Leipzig, and H. Häble, Dessau-Ziebigk, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Triarylmethane dyes from tetraaryl-diamino-benzophenone and arylated-ethylene-diamines. 1,629,884; May 24.
- Polkier, Heinrich, Leipzig, and H. Häble, Dessau-Ziebigk, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Triarylmethane dyes from tetraaryl-diamino-benzophenones and dinaphthyl-ethylene-diamine. 1,629,885; May 24.
- Poling, George N., Springfield, and H. L. Dillon, Zanesville, Ohio. Vending machine. 1,649,365; Nov. 15.
- Polk, George W., and G. W. Burke, jr., Dayton, Ohio. Fire-extinguishing apparatus. 1,653,780; Dec. 27.
- Polk, John L., La Grange, Ill. Electrical binding terminal. 1,642,042; Sept. 13.
- Polk, Thomas B., Seattle, Wash., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Combined windshield frame and wiper motor. 1,652,150; Dec. 6.
- Polkabi, John J. (See Parrish, Cecil C., assignor.)
- Pollack, Daniel. (See Kasdan, N. and Pollack.)
- Pollack, Essye K., New York, N. Y. Bust confiner. 1,623,973; Apr. 12.
- Pollak, Alfred, Vienna, Austria. Producing lactic acid from sugar-containing raw materials by means of lactic acid bacteria. 1,624,674; Apr. 12.
- Pollak, Arnold A. (See Swanson, J. A., and Pollak.)
- Pollak, Fritz. (See Ripper, Kurt, assignor.)
- Pollak, Joseph, Tool and Stamping Company. (See Averill, William H., assignor.)
- Pollak, Solomon, San Francisco, Calif., assignor to Link-Belt Company, Chicago, Ill. Flexible coupling. 1,620,285; Mar. 8.
- Pollak Steel Company, The. (See Paque, E. J., and Jakeway, assignors.)
- Pollard-Ailing Manufacturing Company. (See De Minico, Frank, assignor.)
- Pollard, Carl I., assignor of one-half to The Vulcan Last Company, Portsmouth, Ohio. Machine for forming heels for shoes. 1,619,154; Mar. 1.
- Pollard, Fred, Toledo, Ohio. Exhibition apparatus. 1,648,700; Oct. 25.
- Pollard, Gordon T., Denver, Colo. Transmission gear. 1,625,564; Apr. 19.
- Pollard, John D., Chicago, Ill. Diathermy ear applicator. 1,623,552; Apr. 5.
- Pollifrone, Frank, Brooklyn, N. Y. Lawn mower. 1,622,923; Mar. 29.
- Pollock, Alan A., Leamington Spa, England, assignor to General Electric Company. Control of dynamo-electric machines. 1,623,425; May 10.
- Pollock, Elizabeth M. and M. Flint, Mich. Lingerie-strap holder. 1,620,228; Mar. 8.
- Pollock, Julian G., assignor to Kohn & Pollock, Inc., Baltimore, Md. Cardboard display rack. 1,652,326; Dec. 13.
- Pollock, Milton. (See Pollock, Elizabeth M. and M.)
- Pollock Pen Company. (See Pollock, Robert T., assignor.)
- Pollock Pen Company. (See Theobald, G. A., and Olson, assignors.)
- Pollock, Robert B., Los Angeles, Calif. Signaling apparatus. 1,647,663; Nov. 1.
- Pollock, Robert T. (See Egloff, G., and Pollock.)
- Pollock, Robert T. (See Kirschbraun, L., and Pollock.)
- Pollock, Robert T., Boston, Mass., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for cracking petroleum oil. 1,628,270; May 10.
- Pollock, Robert T., assignor to Pollock Pen Company, Boston, Mass. Clip or fastener. 1,641,096; Aug. 30.
- Polnaszek, John P., Minneapolis, assignor of one-half to A. L. Pinet, Robbinsdale, Minn. Grain-car structure. 1,634,113; June 28.
- Polo, Guido J., Toluca, Ill. Picture frame. Des. 73,804; Nov. 8.
- Polaris Company. (See Pass, Robert H., assignor.)
- Polson, William F., Buffalo, N. Y. Transmission or brake band. 1,638,211; Aug. 9.
- Pölsön, Bror. (See Rehsing, Ludwig, assignor.)
- Polymet Manufacturing Corporation. (See Lauter, Philip, assignor.)
- Polyphonwerke Aktiengesellschaft. (See Wunsch, Hugo, assignor.)
- Polysius, G. (See Bruhn, Bruno, assignor.)
- Polysius, G. (See Goebls, Paul, assignor.)
- Pomerantz, Max, Astoria, N. Y. Bag. 1,649,976; Nov. 22.
- Pomeranz, Maurice M., New York, N. Y. Röntgen-ray photographic machine. 1,635,952; July 12.
- Pomeroy, Edwin C., New Milford, Conn. Signal. 1,630,502; May 31.
- Pomeroy, Isabel P. (See Tonguette, C. E., and McBean, assignors.)
- Pomeroy, James W. (See Todd, W. C., and Pomeroy.)
- Pomeroy, John N., Philadelphia, assignor to General Die-Casting Company, Reading, Pa. Automobile radiator-cap ornament. Des. 73,865; Nov. 15.
- Pomfret, John, sr., Paterson, N. J. Steam boiler. 1,622,736; Mar. 29.
- Pomona Manufacturing Company. (See McKenna, Alexander G., assignor.)
- Pomona Manufacturing Company, The. (See Oliver, Immanuel A., assignor.)
- Pompeian Flooring Company. (See Slosser, Alger J., assignor.)
- Pomplun, Emil, and W. Jennerjahn, Cudahy, Wis., assignors to The Flisk Rubber Company, Chicago Falls, Mass. Engraving machine. 1,642,555; Sept. 13.
- Ponce, Arthur G. (See Lucas, C. J., and Ponce.)
- Pondelick, William P. (See Zoufal, Frank, assignor.)
- Pondelick, Leo, Chicago, Ill. Differential gearing. 1,629,527; May 24.
- Pontiac Tractor Company. (See Wright, Norman A., assignor.)
- Pontikis, John B., Washington, D. C. Display stand. 1,645,399; Oct. 11.
- Pontious, John D., assignor of one-half to L. Pontious, Hammond, Ind. Amusement apparatus. 1,633,751; June 28.
- Pontious, Lizzie. (See Pontious, John D., assignor.)
- Pontoppidan, Carl, Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Handling dry pulverulent materials. 1,616,547; Feb. 8.
- Pontoppidan, Carl, Holte, Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Manufacture of Portland cement. 1,618,295; Feb. 22.
- Pony Fruit Corporation, The. (See Rosenthal, Sam, assignor.)
- Pool, Alphus A., Detroit, Mich. Extensible car step. 1,618,366; Feb. 22.
- Poole, Arthur F., Kenilworth, Ill., assignor to The Wahl Company, Wilmington, Del. Self-filling fountain pen. 1,613,804; Jan. 11.
- Poole, Clarence F., Evanston, assignor to Goodman Manufacturing Company, Chicago, Ill. Draft-operated scraper. 1,644,273; Oct. 4.
- Poole, Clarence F., Evanston, assignor to Goodman Manufacturing Company, Chicago, Ill. Draft-operated scraper. 1,644,274; Oct. 4.
- Poole Engineering & Machine Company. (See Davison, Clarence, assignor.)
- Poole Engineering and Machine Company. (See Taylor, Samuel W., assignor.)
- Poole, Foster M., Tulsa, Okla., assignor to The Brown Instrument Company, Philadelphia, Pa. Fluid-heater control. 1,615,473; Jan. 25.
- Poole, Foster M., Tulsa, Okla., assignor to The Brown Instrument Company, Philadelphia, Pa. Oil-distillation apparatus. 1,615,479; Jan. 25.
- Poole, Foster M., Tulsa, Okla., assignor to The Brown Instrument Company, Philadelphia, Pa. Tube-still control. 1,615,480; Jan. 25.
- Poole, Foster M., Tulsa, Okla., assignor to The Brown Instrument Company, Philadelphia, Pa. Tube-still control. 1,615,481; Jan. 25.
- Poole, Foster M., Tulsa, Okla., assignor to The Brown Instrument Company, Philadelphia, Pa. Tube-oil-heater control. 1,615,482; Jan. 25.
- Poole, Henry J., London, England. Evacuation and sealing of glass jars or similar containers. 1,615,772; Jan. 25.
- Poole, Henry J., London, England. Sealing receptacles. 1,630,215; May 24.
- Poole, Henry J., London, England. Evacuation and sealing of tins and the like metallic containers. 1,630,216; May 24.
- Poole, Martin J. (See Reeves, W. B., and Poole.)
- Poole, W. I., et al. (See Busha, Charley F., assignor.)
- Poole, William A. (See Pruett, Forrest L., assignor.)
- Poole, William C., Coal Grove, Ohio. Windshield wiper. 1,629,734; May 24.
- Pooler, Orril Z., East Orange, N. J. Candy confection. Des. 72,275; Mar. 22.
- Pooley Company. (See Pooley, Edward F., assignor.)
- Pooley Company, The. (See Brown, John L., assignor.)
- Pooley Company, The. (See Pooley, Edward F., assignor.)
- Pooley, Edward F., assignor to The Pooley Company, Philadelphia, Pa. Radiocabinet. Des. 72,443; Apr. 12.
- Pooley, Edward F., assignor to The Pooley Company, Philadelphia, Pa. Radiocabinet. Des. 72,444; Apr. 12.
- Pooley, Edward F., assignor to The Pooley Company, Philadelphia, Pa. Radiocabinet. Des. 73,710; Oct. 25.
- Poons, Edward M., New York, N. Y. Sweatband for hats. 1,646,773; Oct. 25.
- Pope, George W., assignor to Kee Lox Mfg. Co., Rochester, N. Y. Making carbon paper. 1,614,400; Jan. 18.
- Pope, Arthur W., jr. (See Horning, H. L., Fisher, and Pope.)
- Pope, Charles A., Elizabeth, N. J. Calf and ankle grip. 1,638,704; Aug. 9.
- Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel holder. 1,616,647; Feb. 8.
- Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nailing machine. 1,620,782; Mar. 15.
- Pope, James B., San Francisco, Calif. Differential axle for railroad cars. 1,644,147; Oct. 4.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling machine. 1,631,343; June 7.
- Poplawski, Stephen J., assignor to The Arnold Electric Company, Racine, Wis. Dispenser. 1,639,415; Aug. 16.
- Poplawsky, Edward, Newark, N. J. Fruit picker. 1,653,412; Dec. 20.

- Popp, Charles L. (See Popp, George L. and C. L.)
 Popp, George. (See Popp, John, and G.)
 Popp, George L. and C. L., Jackson, Mich. Rake cleaner. 1,651,291; Nov. 29.
 Popp, John and G., Buffalo, N. Y. Water pump. 1,622,840; Mar. 29.
 Porak, Waldemar, Vienna, Austria. Moving-picture projecting or peeping appliance. 1,639,702; Aug. 23.
 Porcelain Insulator Corporation, The. (See Peck, John M., assignor.)
 Pordy, Harry, et al. (See Herman, Henry, assignor.)
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 72,565; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 72,566; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 72,567; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 72,568; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 72,569; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Bridge arm for electric-light fixtures or similar articles. Des. 72,570; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Bridge arm for electric-light fixtures or similar articles. Des. 72,571; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Bridge arm for electric-light fixtures or similar articles. Des. 72,572; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Column for electric-light fixtures or similar articles. Des. 72,573; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Column for electric-light fixtures or similar articles. Des. 72,574; May 3.
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Column for electric-light fixtures or similar articles. Des. 72,575; May 3.
 Porras, Ruben C., San Jose, Costa Rica. Grated window. 1,618,224; Feb. 22.
 Porsche, Ferdinand, Stuttgart-Unterturkheim, assignor to Daimler-Motoren-Gesellschaft, Wurttemberg, Germany. Coupling device for blowers of combustion machines. 1,630,634; May 31.
 Porsche, Ferdinand, Stuttgart-Unterturkheim, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Charging device for combustion machines. 1,639,784; Aug. 23.
 Porsche, Ferdinand, Stuttgart-Unterturkheim, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Carburetor for supercharging internal-combustion engines. 1,644,029; Oct. 4.
 Porsche, Ferdinand, Stuttgart-Unterturkheim, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Pneumatic brake for power-driven road vehicles. 1,645,400; Oct. 11.
 Porsl, Dante D., and C. Rodino, Union City, N. J. Heel for boots or shoes. 1,648,863; Nov. 8.
 Porst, Frederic, Chicago, Ill., assignor to Harding Brothers, Inc., Gear pump. 1,633,793; June 28.
 Porter, Amelia A., Lancaster, England. Foundation for earthquakeproof buildings. 1,651,411; Dec. 6.
 Porter, Charles F., Flat Rock, Ind. Implement for reshaping distorted elevator buckets. 1,620,920; Mar. 15.
 Porter, Charlotte T. (See Porter, Harold E., assignor.)
 Porter, Cloyd M., Connersville, Ind. Tractor drawbar coupling. 1,627,993; May 10.
 Porter Engine Development Inc. (See Porter, Finley R., assignor.)
 Porter, Enos, Shelbyville, Ind. Rear-view mirror for automobiles. 1,643,420; Sept. 27.
 Porter, Finley R., assignor to Porter Engine Development, Inc., New York, N. Y. Internal-combustion engine. 1,618,473; Feb. 22.
 Porter, Finley R., assignor to Porter Engine Development, Inc., New York, N. Y. Internal-combustion engine. 1,618,603; Feb. 22.
 Porter, Finley R., assignor to Porter Engine Development, Inc., New York, N. Y. Internal-combustion engine. 1,620,932; Mar. 15.
 Porter, Finley R., New York, assignor to Porter Engine Development, Inc., New York, N. Y. Internal-combustion engine. 1,640,486; Nov. 15.
 Porter, George N., Oilton, Okla. Safety hook. 1,622,971; Mar. 29.
 Porter, H. K., Inc. (See Porter, Tyler C., assignor.)
 Porter, Harold E., Bayside, N. Y., assignor to C. T. Porter. Manufacturing crucibles and the like. 1,637,707; Aug. 2.
 Porter, Harold E., Bayside, N. Y., assignor to C. T. Porter. Machine for the manufacture of crucibles and the like. 1,637,708; Aug. 2.
 Porter, Henry A., Los Angeles, Calif. Swab. 1,614,572; Jan. 18.
 Porter, Homer O., Denoya, Okla. Gas burner. 1,622,972; Mar. 29.
 Porter, John, assignor to Arnold Print Works, North Adams, Mass. Decorative paper. 1,616,138; Feb. 1.
 Porter, John L., Columbus, Ohio. Tire. Des. 73,942; Nov. 22.
 Porter, Leslie F., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,631,981; June 14.
 Porter, Leslie F., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,642,177; Sept. 13.
 Porter, Russell W., Springfield, Vt. Telescope. 1,651,412; Dec. 6.
 Porter, Thomas E., Grand Rapids, Mich. Cut-off saw. 1,636,924; July 26.
 Porter, Tyler C., Brookline, Mass., assignor to H. K. Porter, Inc., Everett, Mass. Cutting tool. 1,613,480; Jan. 4.
 Porter, Tyler C., Brookline, assignor to H. K. Porter, Inc., Everett, Mass. Cutting tool. 1,613,568; Jan. 4.
 Porter, Vernon C. (See Sortelle, B., and Porter.)
 Porter, William A., assignor to one-half to W. V. Scanlan, Brisbane, Queensland, Australia. Apparatus for making hollow bends, angles, or such like bodies of concrete or other material. 1,634,045; June 28.
 Porter, Wilson E. (See Whitehead, R. H., and Porter.)
 Porter, Wilson E., New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn. Inter-mittent alarm clock. 1,623,698; Apr. 5.
 Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Stem-winding and stem-setting watch. 1,625,498; Apr. 19.
 Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Timing device for the balance-wheel units of clock and watch movements. 1,625,499; Apr. 19.
 Porterfield, Leonadus C., St. Louis, Mo. Oil burner. 1,612,883; Jan. 4.
 Porterfield, Robert A., Baltimore, Md., assignor to Prudential Oil Corporation, New York, N. Y. Side furnace-oil still. 1,647,664; Nov. 1.
 Portis, James A., Daisetta, Tex. Radius rod. 1,616,548; Feb. 8.
 Portman, Frank A., Chicago, Ill. Merchandise-display box. 1,639,750; Aug. 23.
 Portis, Lewis R., Troutdale, Oreg. Moving display sign. 1,649,075; Apr. 15.
 Posch, Henry R., Los Angeles, Calif. Focusing attachment for microscopes. 1,617,722; Feb. 15.
 Poses, Jack I., assignor to A. A. Vantine & Co. Inc., New York, N. Y. Bottle or similar container. Des. 73,267; Aug. 16.
 Posey, Alfred W., Long Beach, Calif. Line control. 1,649,184; Nov. 15.
 Posey, Mack. (See Haas, E. A., and Posey.)
 Positive Lock Company, The. (See Crooks, C. L., and Vandervoort, assignors.)
 Positive Lock Company, The. (See Vandervoort, Francis M., assignor.)
 Possehl, Henry C., Baker, Minn. Fish and fowl dressing device. 1,632,194; June 14.
 Posselt, Albert J., Salida, Colo. Journal lubricator. 1,646,166; Oct. 18.
 Post, Edward, assignor to Camel Company, Chicago, Ill. Auxiliary door for freight cars. 1,645,544; Oct. 18.
 Possons, Minard A. (See Hill, Reuben, assignor.)
 Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Door hanger. 1,640,250; Aug. 23.
 Post, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Oven door. 1,643,288; Sept. 20.
 Post, Alan E., et al. (See Kaufmann, Jacob L., assignor.)
 Post, C. C., et al. (See Gardner, William R., assignor.)
 Post, Claude L., Philadelphia, Pa. Piston ring. 1,613,410; Jan. 4.
 Post, Claude L., Chicago, Ill. Clamping means for printing slugs and the like. 1,623,974; Apr. 12.
 Post, Claude L., Chicago, Ill. Printing apparatus. 1,623,975; Apr. 12.
 Post, Claude L., Chicago, Ill. Feeding mechanism. 1,623,976; Apr. 12.
 Post, Claude L., Chicago, Ill. Sheet-feeding control means. 1,629,118; May 17.
 Post, Claude L., Chicago, Ill. Envelope feeder. 1,629,450; May 17.
 Post, Clifford W. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
 Post, Ernest K., Collingswood, N. J. Connector for track circuits and train-control systems. 1,649,923; Nov. 22.
 Post, Lewis B., S. V. Lyon, and L. Blumenfeld, Bradford, Pa. Pump. 1,641,501; Sept. 6.
 Post, Otto T. (See Lasche, O., and Post.)
 Post, Sid, et al. (See Everts, Walter W., assignor.)
 Post, Van Z., New York, N. Y. Rotary internal-combustion engine. 1,644,490; Oct. 4.
 Postell, F. F. (See Arundel, Clarence E., assignor.)
 Posternak, Swigel, Chene-Bougeries, near Geneva, assignor to Societe of Chemical Industry in Basle, Basle, Switzerland. Phosphorus containing nuclear substance of milk casein in a chemically-pure form and making the same. 1,631,887; June 7.
 Posternock, Charles, Philadelphia, Pa. Apparatus for waving human hair. 1,612,942; Jan. 4.
 Posternock, Charles, Philadelphia, Pa. Apparatus for waving human hair. 1,617,134; Feb. 8.
 Postindex Company. (See Attwood, Charles E., assignor.)

- Postindex Company. (See Butler, George P., assignor.)
 Postindex Company. (See Quigley, John T., assignor.)
 Postl, Inc. (See Guth, Herbert G., assignor.)
 Postlethwait, Columbus E., Wallace, W. V. Adjustable steering post. 1,623,493; Apr. 5.
 Postlewait, Martha, Denver, Colo. Braider. 1,653,309; Dec. 20.
 Poston, Emmett V., Springfield, Ill. Apparatus for and method of simultaneously texturing both ends of brick. 1,641,046; Aug. 30.
 Poston, Emmett V., Springfield, Ill. Texturing brick. 1,641,047; Aug. 30.
 Poston, Emmett V., Springfield, Ill. Veneering brick. 1,641,048; Aug. 30.
 Poston, Emmett V., Springfield, Ill. Veneering brick. 1,641,049; Aug. 30.
 Poston, Henry S., Callaway, Nebr. Cultivator attachment. 1,615,618; Jan. 25.
 Poston, Ira M., Dallas, Tex. Elevator gate. 1,629,048; May 17.
 Pozz, Henry C. A., Levallois-Perret, France. Aeroplane fin. 1,645,928; Oct. 18.
 Poth, John C., Gallion, Ohio. Dumping unit for motor trucks. 1,635,953; July 12.
 Poth, John C., Gallion, Ohio. Dumping unit for motor trucks. 1,635,954; July 12.
 Poth, John C., assignor to Perfection Steel Body Co., Gallion, Ohio. End gate. 1,635,905; July 12.
 Poth, John C., Gallion, Ohio. Dumping unit for motor trucks. 1,653,873; Dec. 27.
 Poth, John C., assignor to Perfection Steel Body Co., Gallion, Ohio. Dumping unit for motor trucks. 1,653,874; Dec. 27.
 Potter, Charles P., Dorchester, Mass. Advertising display card. Des. 71,927; Jan. 25.
 Potmaker, Vitus, San Francisco, Calif. Pie-filling compound. 1,631,287; June 7.
 Pottschner, Karl, Dover, Ohio. Making tools. 1,639,269; Aug. 16.
 Pott, John J., St. Louis, Mo. Loose-leaf binder. 1,638,878; Aug. 16.
 Potter, Albert T., assignor to Ainsworth Manufacturing Company, Detroit, Mich. Windshield pivot. 1,644,689; Oct. 11.
 Potter, Albert T., and A. B. Medville, assignors to Ainsworth Manufacturing Company, Detroit, Mich. Foot rest. 1,637,588; Aug. 2.
 Potter, Arthur C., Grantham, England. Deep-well pumping installation and the like. 1,639,703; Aug. 23.
 Potter & Buntin Company. (See Weed, Edward L., assignor.)
 Potter, Cushman, Houston, Minn. Fluid-transmission mechanism. 1,623,206; Apr. 5.
 Potter, Earl F., Glencoe, assignor of one-half to G. W. Rodmeyer, Park Ridge, Ill. Ground-clamp connector. 1,621,288; June 7.
 Potter, Earl F., Glencoe, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Condenser. 1,633,870; June 28.
 Potter, Earl F., Glencoe, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Plug. 1,639,858; Aug. 23.
 Potter, Earle F., assignor to The Potter Specialties Company, Chicago, Ill. Signaling system. 1,614,491; Jan. 18.
 Potter, Frank H. T., et al. (See Kelly, George M., assignor.)
 Potter, Frederick D., Linden, N. J., assignor to Combustion Control Company, Inc., New York, N. Y. Combustion-control apparatus. 1,618,474; Feb. 22.
 Potter, John E., Eldorado, Kans. Safety-rod hook. 1,650,058; Nov. 22.
 Potter, John S., assignor to The S. W. Shattuck Chemical Company, Denver, Colo. Treading clays to adapt them for decolorizing and deodorizing oils. 1,649,866; Nov. 15.
 Potter, Joshua M., Binghamton, N. Y. Train-air-blowing machine. 1,621,025; Mar. 15.
 Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Radio receiver and trouble alarms. 1,625,822; Apr. 26.
 Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Radio receiver and trouble alarms. 1,625,823; Apr. 26.
 Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Transmission-level-control system. 1,644,745; Oct. 11.
 Potter, Richard C. (See Watson, Arthur H., assignor.)
 Potter, Robert S., Greenwich, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door closer. 1,629,963; May 24.
 Potter Specialties Company. (See Potter, Earle F., assignor.)
 Potter, Thomas I., Portland, Oreg. Refrigerating unit. 1,635,058; July 5.
 Potter, Thomas I., Orange, N. J., assignor, by mesne assignments, to Hydro Refrigerator Company, Inc., New York, N. Y. Refrigerating apparatus. 1,624,972; Apr. 19.
 Potter, Thomas I., East Orange, N. J., assignor, by mesne assignments, to Hydro Refrigerator Company, Inc., New York, N. Y. Pump. 1,625,163; Apr. 19.
 Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Fuel injector for internal-combustion engines. 1,645,071; Oct. 11.
 Potter, William H., Chicago, Ill. Sausage-making machine. 1,639,270; Aug. 16.
 Potter, William H., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Trimming articles. 1,625,332; Apr. 19.
 Potts, Harold E., Liverpool, assignor to T. Blandford and A. Gee, Doncaster, England. Cementation in the ground. 1,635,500; July 12.
 Potts, Helen, Chicago, Ill. Cigarette holder and the holder. 1,636,681; Apr. 5.
 Potts, Louis M., Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Trouble-indicating system. 1,620,286; Mar. 8.
 Potts, Louis M., Highland, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control mechanism. 1,631,982; June 14.
 Poudrier, Armand, Los Angeles, Calif. Hydraulic snubber. 1,632,041; June 14.
 Pough, Francis H., St. Louis, Mo., assignor, by mesne assignments, to Southern Acid & Sulphur Company, Incorporated. Prepared sulphur. 1,629,528; May 24.
 Poulos, Stivin, Boston, Mass. Alarm. 1,628,908; May 17.
 Poulsen, Arnold, and A. C. G. Petersen, Copenhagen, Denmark. Device for conversion of light variations into electrical currents. 1,650,092; Nov. 22.
 Poulsen, Oscar, Alameda, Calif. Shaft bearing. 1,623,207; Apr. 5.
 Poultney, Edward C., London, A. H. Gilling, and H. A. Akroyd, Sheffield, England. Steam locomotive. 1,618,751; Feb. 22.
 Poulton, George H. (See Scott, R., and Poulton.)
 Poumay, Adolphe, Jambes-lez-Namur, Belgium. Cupola furnace. 1,640,251; Aug. 23.
 Poupard, Albert P., New Orleans, La. Container seal. 1,635,955; July 12.
 Pow, Alexander. (See Brown, Robert M., assignor.)
 Pow, Joseph C., Hays, N. C. Hospital bed. 1,631,888; June 7.
 Powdrell & Alexander, Inc. (See Feather, John A., assignor.)
 Powell, A. L., Power Company, The. (See Powell, Alvah L., assignor.)
 Powell, Alvah L., Miles City, Mont., assignor to The A. L. Powell Power Company, Incorporated. Mechanical movement. 1,622,841; Mar. 29.
 Powell, Alvah L., Miles City, Mont., assignor to A. L. Powell Power Company, Incorporated. Mechanical movement of the planetary gear type. 1,622,842; Mar. 29.
 Powell, Alvah L., Miles City, Mont., assignor, to The A. L. Powell Power Company, Incorporated. Engine. 1,646,110; Oct. 18.
 Powell, Arthur L., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Filament support for series lamps. 1,620,487; Mar. 8.
 Powell, Charles, Pueblo, Colo. Attachment for carburetors. 1,637,455; Aug. 2.
 Powell, Dalton U., Woodsfield, Ohio. Pipe saddle. 1,618,390; Feb. 1.
 Powell, Dalton U., Woodsfield, Ohio, assignor of one-half to S. K. French, Wheeling, W. Va. Oil-well stimulator. 1,648,242; Nov. 8.
 Powell, Edwin L., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Signal receiving circuits. 1,624,148; Apr. 12.
 Powell, Edwin L., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric-crystal apparatus. 1,654,189; Dec. 27.
 Powell, Ernest H., San Antonio, Tex. Nut-shelling machine. 1,653,413; Dec. 20.
 Powell, Everton B., assignor to The Hanson & Van Winkle Company, Newark, N. J. Electroplating machine. 1,634,849; July 5.
 Powell, Everton B., Newark, and G. Todd, Mulburn, assignors to The Hanson & Van Winkle Company, Newark, N. J. Conveying apparatus. 1,649,041; Nov. 15.
 Powell, George R., Merion, Pa. Foot control. 1,630,760; May 15.
 Powell, Hezekiah, Kansas City, Mo., and W. P. Groves, Edwardsville, Kans. Electric shoe cleaning and polishing machine. 1,624,758; Apr. 12.
 Powell, James A., Reading, Pa. Water-heating system. 1,621,853; Mar. 22.
 Powell, John, Kokomo, Ind. Husking unit. 1,622,207; Mar. 22.
 Powell, John E., Issaquah, Wash. Gasoline-consumption tester. 1,645,774; Oct. 18.
 Powell, John M., Galax, Va. Apparatus for exercising eye muscles. 1,638,058; Aug. 9.
 Powell, Otis W., assignor of one-half to E. Worthington, Court House, Ohio. Corn harvester. 1,642,892; Sept. 20.
 Powell, William G., Altoona, Pa. Brake mechanism. 1,654,270; Dec. 27.
 Powell, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,628,611; May 10.
 Powell, William H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,628,612; May 10.

- Powell, William H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,628,613; May 10.
- Powell, William H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,641,644; Sept. 6.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 1,614,441; Jan. 11.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,614,442; Jan. 11.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone circuits. 1,614,443; Jan. 11.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Call-distributing system. 1,625,624; Apr. 19.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 1,641,232; Sept. 6.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. 1,641,233; Sept. 6.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,641,234; Sept. 6.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,641,235; Sept. 6.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 1,641,236; Sept. 6.
- Powell, Winfred T., Rochester, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. 1,650,906; Nov. 29.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 1,652,836; Dec. 13.
- Powelski, Albert, Kansas City, Kans. Journal bearing. 1,630,967; May 31.
- Powelson, Wilfrid V. N., and W. Travell, New York, N. Y. Launching airships from moorings and device therefor. 1,647,472; Nov. 1.
- Powelson, Wilfrid V. N. and W. Travell, New York, N. Y. Equipment for mooring and berthing airships over water. 1,648,423; Nov. 8.
- Power, Henry R., assignor to The Carborundum Company, Niagara Falls, N. Y. Waterproof abrasive. 1,615,231; Jan. 25.
- Power, Manufacturing Company, The. (See Morrison, Frank B., assignor.)
- Power Specialty Company. (See Heenan, John N. D., assignor.)
- Power Specialty Company. (See Hight, Eugene S., assignor.)
- Power Specialty Company. (See Keenan, Walter F., jr., assignor.)
- Power Specialty Company. (See MacDowell, Francis M., assignor.)
- Power Specialty Company. (See Nells, Joseph J., assignor.)
- Power Specialty Company. (See Primrose, John, assignor.)
- Power Specialty Company. (See Woolley, Harold O., assignor.)
- Power Specialty Company. (See Wyld, R. H., and Keenan, assignors.)
- Powers Accounting Machine Corporation. (See Lasker, William W., assignor.)
- Powers Accounting Machine Corporation. (See Lasker, W. W., and Mueller, assignors.)
- Powers, Charles P., Spring Lake, assignor to U. S. Tool Company, Inc., East Orange, N. J. Constructing variable condenser rotors. 1,618,996; Mar. 1.
- Powers, Donald H. (See Bridgwater, E. R., and Powers.)
- Powers, Donald H. (See Elley, H. W., and Powers.)
- Powers, Emmett, assignor of one-third to A. R. Kracaw, Denver, Colo. Electric battery and making the same. 1,634,850; July 5.
- Powers, Frank T., assignor to Powers Photo Engraving Company, New York, N. Y. Photographic apparatus. 1,612,832; Jan. 4.
- Powers, Frank T., assignor to Powers Photo Engraving Company, New York, N. Y. Photographic apparatus. 1,617,079; Feb. 8.
- Powers, Frank T., assignor to Powers Photo Engraving Company, New York, N. Y. Photographic camera. 1,617,080; Feb. 8.
- Powers, Frank T., Douglaston, N. Y. Etching machine. 1,651,968; Dec. 6.
- Powers, George G., assignor to Union Bed & Spring Company, Chicago, Ill. Folding bed structure. 1,636,532; July 19.
- Powers, Herbert H., La Grange, Ill. Method of and machine for making saws. 1,646,870; Oct. 25.
- Powers, Herbert H., La Grange, Ill. Preparing printing plates. 1,651,906; Dec. 6.
- Powers, Howard, Marietta, Ohio. Concrete mixer. 1,620,287; Mar. 8.
- Powers, Mark A., Dallas, Tex. Combined beverage cooler and dispenser. Des. 73,048; July 12.
- Powers Photo Engraving Company. (See Powers, Frank T., assignor.)
- Powers Regulator Company, The. (See Klages, Frank E., assignor.)
- Powers, Thomas E., New York, N. Y. Lamp. Des. 72,634; May 10.
- Powers, Thomas E., New York, N. Y. Wheeled toy. Des. 72,866; June 14.
- Powers, Thomas E., New York, N. Y. Wheeled toy. Des. 72,867; June 14.
- Pownall, Henry D., Canton, Ohio. Liquid-level regulating and controlling apparatus. 1,623,811; Apr. 5.
- Pozder, Steve, Great Falls, Mont. Transmission-gearing-clutching means. 1,647,932; Nov. 1.
- Pozera, Joseph A. (See Macora, T. K., and Pozera.)
- Pracher, John, assignor to The Hazlett Storage Battery Company, Cleveland, Ohio. Apparatus for and method of forming storage-battery grids. 1,636,242; July 19.
- Pracht, Carl J., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Trunk-selecting switch for telephone systems. 1,625,425; Apr. 19.
- Pradon-Guss-Fabrik Gebr. Eckert. (See Eckert, Otto, assignor.)
- Pradas, Henry, assignor of one-third to M. Kroeger and one-third to L. Carrillo, Los Angeles, Calif. Fire alarm and detector. 1,644,949; Oct. 11.
- Prall, Frederick A., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Sheet-metal container. 1,632,848; June 21.
- Prall, James P., Woodbridge, N. J. Nonpneumatic-tire filler. 1,644,609; Oct. 4.
- Prämassing, Adolf. (See Riebe, J., and Prämassing.)
- Prasil, Anton. (See Nelson, R. A., and Prasil.)
- Pratt & Daniel Corporations. (See Whitton, Louis C., assignor.)
- Prat, Esteban M., assignor to Myrurgia, S. A., Barcelona, Spain. Perfume-bottle container. Des. 73,669; Oct. 18.
- Prather, George W., Santa Cruz, Calif. Device for testing kielcke pin casters. 1,622,342; Mar. 29.
- Pratt, George W., Des Moines, Iowa. Preparing water-softening materials. 1,636,942; July 26.
- Prator, Ernest P., assignor of one-third to J. T. Fredricks, Leeper, and one-third to J. R. Stephens, St. Louis, Mo. Automatic shut-off for water gauges. 1,619,828; Mar. 8.
- Pratt, Phonso C., Deep River, Conn., assignor, by mesne assignments, to American Chain Company, Inc. Bead cable for tires. 1,614,206; Jan. 11.
- Pratt, Arthur D. (See Jacobus, D. S., and Pratt.)
- Pratt, Benjamin H., Milwaukee, Wis., assignor to The Elisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 72,895; June 14.
- Pratt, Clara A., St. Paul, assignor of one-half to E. M. Scanlan, Minneapolis, Minn. Sacro-iliac belts. 1,628,685; May 17.
- Pratt, David S. (See Hedenburg, O. F., and Pratt.)
- Pratt, Ernest C., Minneapolis, Minn. Mining coal. 1,624,505; Apr. 12.
- Pratt, Glenn, assignor of one-fourth to D. Krauze, one-fourth to W. A. Lincoln, and one-fourth to C. W. Wingo, Springfield, Mo. Shield for auto headlights. 1,650,298; Nov. 22.
- Pratt, Hartley B., Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Depth charge and like submarine explosive body. 1,639,665; Aug. 23.
- Pratt, Hartley B., Barrow-in-Furness, assignor to Vickers Limited, London, England. Depth-setting gear for submarine mines. 1,639,810; Aug. 23.
- Pratt, Henry B., Antrim, N. H. Sluice-gate construction. 1,644,445; Oct. 4.
- Pratt & Letchworth Co. (See Williams, John P., assignor.)
- Pratt, Lewis M., Eldorado, Kans. Poultry feeder. 1,615,402; Jan. 25.
- Pratt, Lyde S., E. H. Weltz, Penns Grove, N. J., and W. L. Mills, Chester, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making alkyl-nitroaryl ethers. 1,619,368; Mar. 1.
- Pratt, Oscar, Laurier, Wash. Filling devices. 1,626,050; Apr. 26.
- Pratt Read Player Action Company. (See Fisher, Stanley L., assignor.)
- Pratt, Ross H., Washington, D. C. Variable-speed transmission. 1,641,692; Sept. 6.
- Pratt, Ross H., Washington, D. C. Safety clutch release. 1,646,458; Oct. 25.
- Pratt, W. B., Inc. (See Barnard, A. E., and Caswell, assignors.)
- Pratt & Whitney Company. (See Allen, Frederick C., assignor.)
- Pratt & Whitney Company. (See Doane, John A., assignor.)
- Pratt & Whitney Company. (See Durkee, Henry E., assignor.)
- Pratt & Whitney Company. (See Goodrich, Clarence L., assignor.)
- Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)
- Pratt & Whitney Company. (See Ingham, Walter E., assignor.)
- Pratt & Whitney Company. (See Knowles, Carroll, assignor.)

- Pratt & Whitney Company. (See Moyer, Edward A., assignor.)
- Pratt & Whitney Company. (See Müller, Friederich, assignor.)
- Pratt & Whitney Company. (See Schramm, Carl, assignor.)
- Pratt & Whitney Company. (See Schramm, C., and Ukai, assignors.)
- Pratt & Whitney Company. (See Tanner, Hubert D., assignor.)
- Pratt & Whitney Company. (See Theller, S. J., and Thacher, assignors.)
- Pratt & Whitney Company. (See Thacher, John J., assignor.)
- Pratt & Whitney Company. (See Whitehead, A. G., and Sullivan, assignors.)
- Pratt & Whitney Company. (See Wilder, Arthur L., assignor.)
- Pratt, William B., Wellesley, assignor to Research, Incorporated, Boston, Mass. Sponge-rubber product and making the same. 1,614,019; Jan. 11.
- Pratt, William B., Wellesley, assignor to Research, Incorporated, Boston, Mass. Aqueous rubber dispenser and product the same. 1,621,468; Mar. 15.
- Pratt, William C., Jonesboro, Ark. Trowel. 1,648,824; Nov. 8.
- Pratt, William H., Lynn, Mass., assignor to General Electric Company, Electric meter. 1,637,049; July 26.
- Prand, Henri, Paris, France, assignor to American Radiator Company, New York, N. Y. Draft-regulating device for boilers. 1,654,486; Dec. 27.
- Prausnitz, Paul. (See Herschkowitsch, M., and Prausnitz.)
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,616,597; Feb. 8.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Elevating mechanism. 1,616,598; Feb. 8.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Material-gathering machine. 1,644,204; Oct. 4.
- Preble Box Toe Co. (See Preble, George L., assignor.)
- Preble, George L., assignor to Preble Box Toe Co., Lynn, Mass. Stiffener for boots and shoes. 1,637,709; Aug. 2.
- Preble, James J., Newton, and W. B. Thompson, Winchester, assignors to Spraco Painting Equipment Company, Boston, Mass. Apparatus or tool for applying coating material. 1,627,117; May 3.
- Preble, James J., Newton, Mass. Tool or apparatus for applying coating. 1,644,081; Oct. 4.
- Preble, James J., Newton, assignor to Spray Engineering Company, Boston, Mass. Filter-cell washing machine. 1,644,082; Oct. 4.
- Preble, Norman H., assignor to The Cecil R. Lambert Company, Inc., Detroit, Mich. Truck conveyer. 1,628,909; May 17.
- Preble, Norman H., assignor to The Cecil R. Lambert Company, Inc., Detroit, Mich. Conveying apparatus. 1,639,751; Aug. 23.
- Precision Manufacturing Corporation. (See Opperman, Emil L., assignor.)
- Precision Balancing Machine Company. (See Moyer, Amos F., assignor.)
- Precision Metal Workers. (See Grunwald, Albert C., assignor.)
- Predry, Walter G., San Francisco, Calif. Carbon feeding and adjusting mechanism for arc lamps. 1,650,849; Nov. 29.
- Prefontaine, Harry F., Brooklyn, N. Y. Gas safety plate. 1,623,812; Apr. 5.
- Preimesberger, Alois L., assignor of one-half to F. E. Sassenbrenner, Menasha, Wis. Friction clutch pulley. 1,635,192; July 11.
- Preister, Ernst, assignor to Progressive Electrotyping Co., St. Louis, Mo. Plate for multigraph machines. 1,621,271; Mar. 15.
- Preiswerk, Ernst, Basel, Switzerland, assignor to The Edman-Lee-Robert Chemical Works, New York, N. Y. O-O-Diacetyl derivatives of diphenolsinate and manufacture of same. 1,624,675; Apr. 12.
- Prell, Henry, Chicago, Ill. Stove. 1,648,192; Nov. 8.
- Prollwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Balanced chamber clearance unloader. 1,616,986; Feb. 8.
- Prollwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Three-step clearance control. 1,616,987; Feb. 8.
- Prollwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Single-chamber clearance unloader. 1,625,681; Apr. 19.
- Prollwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston assembly. 1,626,614; July 19.
- Prollwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Handle for rock bolts. 1,641,920; Oct. 4.
- Prollwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor. 1,649,076; Nov. 15.
- Prollwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Spring handle. 1,649,730; Nov. 15.
- Premier Coal Saving Device Corporation. (See Braunstein, Julius, assignor.)
- Premier Electric Company. (See Snell, James C., assignor.)
- Premier Grand Piano Corporation. (See Fekete, John, assignor.)
- Premier Warm Air Heater Company. (See Kunder, Albert H., assignor.)
- Prentice, G. E., Manufacturing Company. (See Prentice, G. E., and Legat, assignors.)
- Prentice, George E., Berlin, Conn. Fastener. 1,651,544; Dec. 6.
- Prentice, George E., Berlin, Conn. Buckle. 1,652,211; Dec. 13.
- Prentice, George E., Berlin, and R. C. Legat, New Britain, assignors to G. E. Prentice Manufacturing Company, New Britain, Conn. Separable fastener. 1,626,873; May 2.
- Prentice, Hugh. (See Buckman, H. W., and Prentice.)
- Prentice, John A., San Francisco, Calif. Defensive and offensive projector composition. 1,643,954; Oct. 4.
- Prentiss-Wabers Stove Company. (See Taylor, T. A., and Feiger, assignor.)
- Prentiss, Antoine E. M. (See Prenveille, Donald E., assignor.)
- Prenveille, Antoine E. M. and D. E., Oakland, Calif. Sliding grate for ovens. 1,627,405; May 3.
- Prenveille, Donald E. (See Prenveille, A. E. M. and D. E.)
- Prenveille, Donald E., assignor of one-half to A. E. M. Prenveille, Oakland, Calif. Beam compass. 1,628,426; May 10.
- Prenzel, Adam H., Halifax, Pa. Molded-flange insole. 1,638,705; Aug. 9.
- Prenzel, George C., Columbia, Tenn. Air-moistening device. 1,620,738; Mar. 15.
- Presa, Gilberto N., Ennis, assignor one-tenth jointly to G. O. Wilson and D. C. Biggers, Dallas, Tex. Operating device for automobile headlight shutters. 1,643,030; Sept. 20.
- Prescott, George C., East Orange, N. J., assignor to General Electric Company, Reversing controller. 1,633,825; June 28.
- Prescott, Charles F., Brooklyn, N. Y. Valve. 1,634,339; July 5.
- Prescott Company, The. (See Langill, R. E., and Grueter, assignors.)
- Prescott, Edwin, Arlington, Mass. Platform support. 1,642,265; Sept. 13.
- Prescott, Sydney I., New York, N. Y., and F. J. Rummier, Lyndhurst, N. J. Wheel. 1,626,355; Apr. 26.
- Prescott, William E. (See Baker, G. R., Prescott, and Gibbard.)
- Prescott, William E. (See Head, R., and Prescott.)
- Prescott, William E., London, England, assignor to Baker-Perkins Company Incorporated, White Plains, N. Y. Stop-motion apparatus for use in machines employing conveyed trays or equivalents. 1,616,330; Jan. 4.
- Presho, Charles H., Alma, Nebr. Headlight-rim wrench. 1,620,739; Mar. 15.
- Pressed Steel Car Company. (See Blest, Minot C., assignor.)
- Pressed Steel Car Company. (See Brinckerhoff, Francis M., assignor.)
- Pressed Steel Car Company. (See Frelin, Carl G., assignor.)
- Pressed Steel Car Company. (See Koch, Felix, assignor.)
- Pressed Steel Car Company. (See Kurtz, Benjamin F., assignor.)
- Pressed Steel Car Company. (See Pebrson, A. K., and Winell, assignors.)
- Pressed Steel Car Company. (See Streib, John F., assignor.)
- Pressed Steel Car Company. (See Winell, Karl O., assignor.)
- Pressler, Charles E., Fort Wayne, Ind. Vented wastepipe fitting. 1,627,928; May 10.
- Pressley, Clarence R. (See Scherer, Walter L., assignor.)
- Pressley, Jackson H., Oceanport, N. J. Long-wave or short-wave frequency transformer. 1,647,372; Nov. 1.
- Presstet Engineering Corporation. (See Hall, Herbert, assignor.)
- Presstel Radiator Company. (See Carlberg, Carl S., assignor.)
- Prestage, Edwin, assignor of one-half to H. J. West and Company, Limited, London, England. High-pressure gas compressor. 1,614,851; Jan. 18.
- Prestinari, Eugen, Pawtucket, R. I., assignor to New Jersey Chain Corporation, Newark, N. J. Bracelet hook. 1,624,561; Apr. 12.
- Preston-Lite Company, The. (See Benner, Raymond C., assignor.)
- Prest-O-Lite Company, The. (See Benner, R. C., and French, assignors.)
- Prest-O-Lite Company, The. (See Filedner, Carlyle S., assignor.)
- Prest-O-Lite Company, The. (See Herly, Clarence J., assignor.)
- Prest-O-Lite Company, The. (See Werking, Leroy C., assignor.)
- Prest-O-Lite Storage Battery Corporation. (See Benner, R. C., and Werking, assignors.)
- Prest-O-Lite Storage Battery Corporation. (See Gossling, Walter E., assignor.)

- Presto Lock Corporation. (See Levine, Abraham, assignor.)
- Preston, Bruce B., Cleveland Heights, assignors to The Ideal Heating Equipment Company, Cleveland, Ohio. Thermostatic wafer. 1,638,958; Aug. 16.
- Preston, Clarence E., Oklahoma City, Okla. Display device. 1,632,504; June 14.
- Preston, Clarence S., San Diego, Calif. Tire valve. 1,628,064; May 10.
- Preston, Edward S., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electrically-heated utensil. 1,650,999; Nov. 29.
- Preston, Francis W. (See Taylor, W., and Preston.)
- Preston, Frederick A., Highland Park, assignor to The P & M Company, Chicago, Ill. Bond-wire supporter. 1,612,984; Jan. 4.
- Preston, Frederick A., Highland Park, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,618,674; Feb. 22.
- Preston, Frederick A., Highland Park, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,628,232; May 10.
- Preston, George E. (See Colbert, C. C., and Preston.)
- Preston, Herbert E., assignor to American Engineering Company, Philadelphia, Pa. Stoker-side-wall construction. 1,620,488; Mar. 25.
- Preston, Marshall V., Boston, Mass. Pattern-grading machine. 1,627,062; May 8.
- Preston, Marshall V., Boston, Mass. Method of and apparatus for making cutting dies. 1,647,415; Nov. 1.
- Preston, Norman A., New York, N. Y. Automobile lock. 1,650,651; Nov. 29.
- Preston, Robert, Mangapapa, Gisborne, New Zealand. Milk appliance for use with milking machines. 1,633,953; June 28.
- Prestwich, Ernest. (See Prestwich, Wright and E.)
- Prestwich, Wright and E., Lawrence, Mass. Removable-handle mechanism for brushes and the like. 1,615,483; Jan. 25.
- Pretat, Frederick E., Waterville, Conn. Toilet brush. 1,621,900; Mar. 22.
- Pretsch, Elise, Brooklyn, N. Y. Bed table. 1,653,657; Dec. 27.
- Preuthaler, Vinzenz, Betzdorf, Sieg, Germany, assignor to Mrs. E. Halbe. Sick bed with means for easing nature. 1,636,705; July 26.
- Preuss, Alexander B., Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, Berlin, Germany. Automatic telephone system. 1,646,387; Oct. 25.
- Pribil, Alexis R., Saginaw, Mich. Coaster wagon. 1,633,272; June 21.
- Pribil, Alexis R., Saginaw, Mich. Piston. 1,646,871; Oct. 25.
- Price, Albert M. (See Gronberg, Clarence O., assignor.)
- Price, Charles L., Baraboo, Wis. Fuel mixer. 1,629,964; May 24.
- Price, Charles P., Boston, Mass. Gas heater. 1,628,427; May 10.
- Price, Chester P., San Antonio, Tex. Tire spreader. 1,647,054; Oct. 25.
- Price, David R., Wellesley, assignor to Florence Stove Company, Gardner, Mass. Oil stove and electrical igniting means. 1,620,489; Mar. 8.
- Price, David R., Lynn, and F. H. Bowman, Swampscott, Mass., assignors to General Electric Company. Synchroscope. 1,641,693; Sept. 6.
- Price, Edgar, Schenectady, N. Y., assignor to General Electric Company. Electromagnetic clutch. 1,629,304; May 17.
- Price, Edward W., Warren, Ohio. Rail joint. 1,639,859; Aug. 23.
- Price, Edward W., Syracuse, N. Y. Tooth-paste holder. 1,653,414; Dec. 20.
- Price, Edwin G. (See Weber, V., and Price.)
- Price, Emil, and W. Webster, Los Angeles, Calif. Adjustable man. 1,632,042; June 14.
- Price, Frank E., Pontiac, Mich. Side bumper. 1,643,517; Sept. 27.
- Price, Freeman B., Butte, Mont. Coffee percolator. 1,652,955; Dec. 13.
- Price, George H. (See Boucher, G. F., Price, and Foster.)
- Price, George R., Monessen, Pa. Changeable exhibitor. 1,619,155; Mar. 1.
- Price, Harold, Moncton, New Brunswick, Canada. Collapsible mast. 1,634,595; July 5.
- Price, Harry, Buffalo, N. Y., assignor to The American Mine Door Co., Canton, Ohio. Cable splice. 1,646,660; Oct. 25.
- Price, Howard W., Swartz, La., and J. B. Merlam, assignors to Merlam Company, Cleveland, Ohio. Primary gauge stabilizer. 1,622,843; Mar. 29.
- Price, Jacob L., assignor to Bendix Brake Company, Chicago, Ill. Manufacture of brake drums. 1,628,804; May 17.
- Price, Jacob L., South Bend, Ind., assignor to V. Bendix, Chicago, Ill. Brake. 1,643,862; Nov. 8.
- Price, Jacob L., assignor to Bendix Brake Company, Chicago, Ill. Disk brake. 1,649,185; Nov. 15.
- Price, Jacob L., Dobbs Ferry, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic hammer. 1,652,374; Dec. 13.
- Price, James W., Bloomington, Ind. Fish-scaling machine. 1,615,184; Jan. 18.
- Price, James W., Tulsa, Okla. Casing puller. 1,625,909; Apr. 26.
- Price, John D., Milwaukee, Wis. Electric wire housing. 1,643,725; Sept. 27.
- Price, John M., assignor to Boncilla Laboratories, Inc., Indianapolis, Ind. Face-powder box. 1,650,039; Nov. 22.
- Price, John W., and R. M. Leake, Laramie, Wyo. Pump. 1,623,203; Apr. 5.
- Price, Joseph, assignor to The Grisco-Russell Company, New York, N. Y. Evaporator. 1,617,081; Feb. 8.
- Price, Joseph, assignor to The Grisco-Russell Company, New York, N. Y. Heat exchanger. 1,617,083; Feb. 8.
- Price, Joseph, assignor to The Grisco-Russell Company, New York, N. Y. Sectional condenser. 1,619,034; Mar. 1.
- Price, Joseph, Stapleton, assignor to The Grisco-Russell Company, New York, N. Y. Film-type sectional evaporator. 1,617,082; Feb. 8.
- Price, Joseph, Stapleton, assignor to The Grisco-Russell Company, New York, N. Y. Condenser-type heater. 1,624,973; Apr. 19.
- Price, Leonard G., Modesto, Calif. Combination bumper, luggage carrier, and trailer hitch attachment. 1,641,502; Sept. 6.
- Price, Lydia A., executrix. (See Price, Melvin B.)
- Price, Melvin B., deceased, Los Angeles, Calif.; L. A. Price executrix. Adjustable window hanger. 1,621,484; Mar. 15.
- Price, Nina B., New York, N. Y. Vanity case for automobiles. 1,639,003; Aug. 16.
- Price, Owen A., Kilmarnock, Scotland. Automatic self-closing valve. 1,620,151; Mar. 8.
- Price, Owen A., Kilmarnock, Scotland. Automatic self-closing valve. 1,629,637; May 24.
- Price, Owen A., Kilmarnock, Scotland. Automatic self-closing valve. 1,631,059; May 31.
- Price, Paul L., Mount Vernon, N. Y. Floor grating. Des. 73,440; Sept. 13.
- Price, William E., Hartsdale, N. Y. Lantern. 1,623,699; Apr. 5.
- Price, William G. (See Kemoe, E. W., and Price.)
- Price, William G., Yakima, Wash. Packing press. 1,622,669; Mar. 29.
- Price, William G., Yakima, Wash. Vehicle wheel. 1,653,372; Dec. 20.
- Price, William T. (See Crosby, Arthur P., assignor.)
- Price, Wortley H. and H. G. Blumberg, San Antonio, Tex. Alarm system. 1,640,294; Aug. 23.
- Richard, Channing, Seattle, Wash., assignor of one-half to J. T. Beamish, Baker, Oreg. Draft regulator. 1,628,428; May 10.
- Richard, George L., and H. Henderson, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Making aluminum chloride. 1,616,549; Feb. 8.
- Richard, George L., and H. Henderson, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Method of and apparatus for condensing aluminum chloride. 1,641,503; Sept. 6.
- Pride of Petaluma Brooder Stove Company. (See Frenge, F., and Rohan, assignors.)
- Fridham, Edwin S., and P. L. Jensen, assignors to The Grisco-Russell Company, Oakland, Calif. Cabinet for radio receiving apparatus. Des. 72,869; June 14.
- Priebe, Ernest B., Inwood, N. Y., and D. P. Miner, Providence, R. I.; said Miner assignor of his undivided one-half interest to W. C. Drake, Inwood, N. Y. Furnace grate. 1,633,413; June 21.
- Priebe, Herman C., Blue Island, Ill. Truck frame. 1,631,335; June 7.
- Priebe, Herman C., Blue Island, Ill. Friction draft gear. 1,636,435; July 19.
- Priem, Paul, Heidenheim-on-the-Brenz, Germany. Apparatus for feeding continuous woodworking grinders. 1,644,748; Oct. 4.
- Priem, Paul, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Inc., New York, N. Y. Drive of drying cylinders of paper machines. 1,635,765; July 12.
- Priess, William H., Belmont, assignor to Wireless Special Apparatus Company, Boston, Mass. Electrical condenser and making it. 1,652,212; Dec. 13.
- Priess, William H., Montclair, N. J., assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical apparatus. 1,621,901; Mar. 22.
- Priest, Charles A., Marion, Ind. Dental machinery. 1,635,766; July 12.
- Priest, Henry M. (See Ford, R. H., Richardson, Greenbaum, and Priest.)
- Priest, Walter P., Somerville, assignor to The Ashton Valve Company, Cambridge, Mass. Alarm gauge. 1,639,967; Aug. 23.
- Priester, Harry, executrix. (See Falloot, Alfred.)
- Priestley, Abraham L., New York, N. Y. Selective printing machine. 1,643,608; Sept. 27.
- Priestley, Charles E. (See Keniston, G. I., and Priestley.)
- Priestley, Willard J., South Sioux City, Nebr. Air heater and moistener for carburetors. 1,623,438; Apr. 5.
- Priestman, Thomas J., Birmingham, England. Paving Block. 1,638,744; Aug. 9.
- Priford, George, Somerville, N. J. Printing rugs. 1,647,738; Oct. 25.
- Prisker, Joseph, Valjevo, Yugoslavia. Transparent sealing wax. 1,638,960; Aug. 16.

- Prillaman, Elmer E. (See Newhouse, George A., assignor.)
- Prillwitz, Hans, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Mixing apparatus. 1,630,406; May 31.
- Prime, Orton L., Milwaukee, Wis. Washout plug. 1,630,761; May 31.
- Primley, Kathleen D., Evanston, Ill. Golf-ball carrier. 1,648,565; Nov. 8.
- Primeo Company, Inc. (See Handy, James O., assignor.)
- Primrose, John, Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Oil still. 1,614,689; Jan. 18.
- Primrose, John, Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Oil still. 1,654,347; Dec. 27.
- Primrose, John, assignor to Power Specialty Company, New York, N. Y. Oil heater and operating same. 1,626,874; May 3.
- Primrose, John, Richmond, assignor to Foster Wheeler Corporation, New York, N. Y. Vapor condenser. 1,654,190; Dec. 27.
- Primrose Tapestry Co. (See Newton, James F., assignor.)
- Prince, Alva L., Dallas, Tex. Mopping and scrubbing machine. 1,619,313; Mar. 1.
- Prince, Burton A., Westfield, Mass., assignor to Irving Iron Works Company. Metal and concrete structure for flooring and similar purposes. 1,645,622; Oct. 18.
- Prince, Charles E., Burchetts Green, England. Mechanism for converting oscillating movement into a step-by-step rotational movement particularly applicable to electrically driven indicators. 1,613,533; Jan. 4.
- Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Excitation of alternating-current machines. 1,618,725; Feb. 22.
- Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,632,622; June 14.
- Prince, George W., Clemencen, Ariz., assignor to United Verde Extension Mining Company, New York, N. Y. Reverberatory furnace. 1,650,907; Nov. 29.
- Prince, John F. (See Nilson, J. L., and Prince.)
- Prince, Joseph E., and J. E. Schooley, Seattle, Wash. Light attachment for hub and spindle. 1,650,153; Nov. 22.
- Prince, Robert K., Westfield, Mass., assignor to Vitamin Food Co., Inc., New York, N. Y. Vitamin food product and method. 1,633,711; June 28.
- Prince-Smith, William, and J. Robinson, Keighley, England. Spindle of filer-spinning, roving, and analogous machines. 1,629,365; May 17.
- Prince-Smith, William, and D. Waterhouse, Keighley, England. Driving mechanism of spinning and analogous machines. 1,649,751; Nov. 15.
- Prince, Thomas R., St. Georges, Newfoundland. Rotary engine. 1,616,333; Feb. 1.
- Prindle, Edwin J., South Orange, N. J. Roll-film holder for cameras. 1,618,387; Feb. 22.
- Prindle, Raymond B., Schenectady, N. Y., assignor to General Electric Company. Heat-insulated receptacle. 1,615,649; Jan. 25.
- Pringle, Wayne, assignor to Woods Brothers Construction Company, Lincoln, Nebr. Pipe clamp and connection. 1,612,838; Jan. 4.
- Pringle, Wayne, assignor to Woods Brothers Corporation, Lincoln, Nebr. Jetty. 1,640,168; Oct. 18.
- Pringle, William A., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Feeding device for computing machines. 1,627,201; May 3.
- Prins, Anton, Surabaya, Java. Amusement or game device. 1,616,280; Feb. 1.
- Printing Index Company. (See Dement, Isaac S., assignor.)
- Prinz, Herman L., Chicago, Ill. Movable bridge. 1,619,678; Mar. 1.
- Prior, Ethel M., Hartford, Conn. Cover for flatiron stands. 1,632,348; June 14.
- Priskey, Leonard C., Montowese, assignor of one-half to E. Williams, New Haven, Conn. Adjusting device for doors and the like. 1,637,655; Aug. 2.
- Pritchard, George E., Elizabeth City, N. C. Separator attachment for bean harvesters. 1,643,629; Sept. 27.
- Pritchard, Ralph W., Chicago, Ill. Corn popper and popping. 1,648,005; Nov. 8.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Radiator shield. 1,644,690; Oct. 11.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Windshield. 1,644,691; Oct. 11.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Guard for heater pipes. 1,650,804; Nov. 29.
- Pritchett, George E., assignor of one-fifth to J. A. Sampson, Butte, Mont. Wheeled toy. 1,637,129; July 28.
- Pritchett, William H., San Diego, Calif. Automobile curtain. 1,627,457; May 3.
- Pritchett, William H., San Diego, Calif. Gasoline regulator. 1,627,458; May 3.
- Pritzl, Frank S. (See Chermak, E. G., and Pritzl.)
- Privat, Bernard, Stockton, Calif. Garden wheelbarrow. 1,631,333; June 7.
- Prizma, Incorporated. (See Kelley, William V. D., assignor.)
- Probst, Albert, Los Angeles, Calif. Eskimo-pie-vending machine. 1,627,865; May 10.
- Probst, Albert, Los Angeles, Calif. Handkerchief-vending machine. 1,646,314; Oct. 18.
- Probst, Albert E., et al. (See Franke, George O., assignor.)
- Probst, Karl, Toledo, Ohio. Traction wheel. 1,634,683; July 5.
- Process Engineers, Inc. (See De Cew, Judson A., assignor.)
- Prochaska, Emil, Catawba, Wis. Two-wheeled vehicle. 1,615,408; Jan. 25.
- Prockow, George J., assignor to Paine Lumber Company, Ltd., Oshkosh, Wis. Saw guard. 1,640,517; Aug. 30.
- Procter and Gamble Company, The. (See Knowles, Harvey C., assignor.)
- Procter & Gamble Company, The. (See Richardson, A. S., and Conley, assignors.)
- Proctor, H. C., Manchester, England. Electric-lighting apparatus for motor vehicles. 1,623,700; Apr. 5.
- Proctor, Joseph H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic circuit interrupter. 1,632,983; June 21.
- Proctor, Joseph H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Waffle iron. 1,633,954; June 23.
- Proctor, Albert E., Bellingham, Wash. Band-saw-tooth roller. 1,631,336; June 7.
- Proctor, Charles V., Biron, Wis. Method and machine for making paper. 1,637,240; July 26.
- Proctor, Frederick G., assignor to Proctor-Keefe Company, Detroit, Mich. Slidable curtain for vehicles. 1,618,022; Feb. 15.
- Proctor, George A. (See Higginson, Connan D., assignor.)
- Proctor, James W., Belle Vernon, Pa., assignor to General Chemical Company, New York, N. Y. Making ammonium fluoride. 1,642,738; Sept. 20.
- Proctor, John A., Lexington, assignor to Wireless Specialty Apparatus Company, Boston, Mass. High-potential electrical apparatus. 1,614,762; Jan. 18.
- Proctor, John A., Lexington, assignor to Wireless Specialty Apparatus Company, Boston, Mass. High-potential electrical condenser. 1,633,285; June 21.
- Proctor, John H., Andover, Mass., assignor to G. W. Pearson, Lowell, Mass. Wooden container. 1,625,280; Apr. 19.
- Proctor-Keefe Company. (See Proctor, Frederick G., assignor.)
- Proctor, Robert V., and H. M. Schaab, assignors to The Commercial Shoring & Stamping Company, Youngstown, Ohio. Pallet. 1,619,759; Mar. 1.
- Proctor & Schwartz, Incorporated. (See Allen, Thomas W., assignor.)
- Proctor & Schwartz, Incorporated. (See Buckley, Joseph L., assignor.)
- Proctor & Schwartz, Incorporated. (See Hurxthal, Alpheus O., assignor.)
- Proctor & Schwartz, Incorporated. (See Kershaw, Frederick, assignor.)
- Proctor & Schwartz, Incorporated. (See Kershaw, F., and Hurxthal, assignors.)
- Proctor & Schwartz, Incorporated. (See Rhoads, Thomas H., assignor.)
- Proctor & Schwartz, Inc. (See Roberts, Joseph, assignor.)
- Proctor & Schwartz, Incorporated. (See Schwartz, Walter M., assignor.)
- Proctor & Schwartz, Incorporated. (See Schwartz, Walter M., assignor.)
- Proctor, Warren C., and F. R. Dudley, Fitchburg, Mass. Road tamper. 1,654,014; Dec. 27.
- Proctor, William A., Amesbury, Mass. Windshield regulator. 1,652,938; Dec. 13.
- "Prodor." Fabrique de Produits Oraniques S. A. (See L'Et. Marcel, assignor.)
- Producers Pictures Corporation, The. (See Kern, George H., assignor.)
- Production Meter Company. (See Cannon, Frank J., assignor.)
- Products Protection Corporation, The. (See Smith, Franklin S., assignor.)
- Prostet, Delbert W., Portland, Oreg. Multiple Pilot and piezometer tube for measuring the flow of water through closed conduits. 1,645,449; Oct. 11.
- Progression, S. A. (See Laub, Adolf, assignor.)
- Progressive Corrugated Paper Machinery Co. (See Schroeder, Louis H., assignor.)
- Progressive Electrotyping Co. (See Preisler, Ernst, assignor.)
- Progressive Shoe Machinery Company. (See Havr, Andrew H., assignor.)
- Prokop, John, assignor of one-half to F. V. Elbertz, Detroit, Mich. Extensible spindle. 1,647,747; Nov. 1.
- Prokop, Josef, Pardubice, Czechoslovakia. Feeding and discharging apparatus for machines for material treatment. 1,623,701; Apr. 5.
- Proksa, John, assignor to Helios Corporation, Chicago, Ill. Projecting apparatus. 1,621,599; Mar. 22.
- Proulin, Rocco, Smith River, Calif. Lock spike. 1,646,630; Oct. 25.

- Pronto Manufacturing Company, The. (See Mayer, Benjamin, assignor.)
- Pro-phy-lac-tic Brush Company. (See Elliot, William S., assignor.)
- Prophy-lac-tic Brush Company. (See Noble, William, assignor.)
- Propp, Louis, et al. (See Shapiro, Hyman, assignor.)
- Propp, Louis, New York, N. Y. Plug socket. 1,613,959; Jan. 11.
- Propp, M. C., Co., The. (See Shapiro, Hyman.)
- Propp, Morris, et al. (See Shapiro, Hyman, assignor.)
- Propst, Jacob Y., Ohatchee, Ala. Apparatus for the recovery of waste heat. 1,646,836; Oct. 25.
- Proskouriakoff, Avenir. (See Raiziss, G. W., and Proskouriakoff.)
- Prosperity Company, The. (See Braun, Aquila R., assignor.)
- Prosperity Company, The. (See Braun, Gaius A., assignor.)
- Prosperity Company, The. (See Braun, Philip N., assignor.)
- Prosperity Company, The. (See Clisson, Albert B., assignor.)
- Prosperity Company, The. (See Daly, Joseph P., assignor.)
- Prosperity Company. (See Davis, Ernest, assignor.)
- Prosperity Company. (See Dorsey, William H., assignor.)
- Prosperity Company, The. (See Houck, George C., assignor.)
- Prosperity Company, The. (See Ledbetter, James C., assignor.)
- Prosperity Company, The. (See Maury, Alfred D., assignor.)
- Prosperity Company, The. (See Ryan, George E., assignor.)
- Prosperity Company, The. (See Simpson, George F., assignor.)
- Prosperity Company, The. (See Titterington, Morris M., assignor.)
- Prosperity Company Inc., The. (See Daly, Joseph P., assignor.)
- Prosperity Company Inc., The. (See Haacke, William F., assignor.)
- Prosser, Harold P., New Rochelle, N. Y. Automatically reversible toy vehicle. 1,643,903; Sept. 27.
- Prosser, Joseph W., New York, N. Y. Process and apparatus for producing depth effects in photography. 1,616,636; Feb. 8.
- Protected Refill Corporation. (See Ausmus, William A., assignor.)
- Protectolite Co., The. (See Rosemier, George M., assignor.)
- Pro-tex Corporation, The. (See Macy, Alfred J., assignor.)
- Protzeller, Harry W., East Chicago, Ind., assignor to O. F. Jordan Company, East Chicago, Ind. Automatic make and break contactor. 1,630,580; May 31.
- Proud, Harry M., West Ealing, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Electric signaling and indicating apparatus. 1,629,049; May 17.
- Proudit Loose Leaf Co. (See Proudit, W. S., and Graf, assignors.)
- Proudit, William S., Walker Township, Kent County, and E. F. Graf, Grand Rapids, Mich., assignors to Proudit Loose Leaf Co. Loose-leaf binder. 1,641,397; Sept. 6.
- Proulx, Amie G., St. Paul, Minn. Steering-gear attachment. 1,623,751; Apr. 5.
- Prouty, Enoch, Detroit, Mich. Internal-combustion engine. 1,616,391; Feb. 1.
- Prouty, George W., Boston, Mass. Press. 1,646,872; Oct. 25.
- Prouty, Theodore C. and W. O. Hermosa Beach, Calif., assignors, by mesne assignments, to American Ecaustic Tiling Company, Ltd., Los Angeles, Calif. Tunnel kiln. 1,613,054; Jan. 4.
- Prouty, Theodore C. and W. O. Hermosa Beach, assignors, by mesne assignments, to American Ecaustic Tiling Company, Ltd., Los Angeles, Calif. Ceramic products and product. 1,623,810; May 17.
- Prouty, Willis O. (See Prouty, Theodore C. and W. O.)
- Providence Collar Button Company. (See Hallihan, John J., assignor.)
- Providence Stock Company. (See Lederer, Sigmund L., assignor.)
- Providence Stock Company. (See Myrberg, Sven O., assignor.)
- Provost, Agnes, Milwaukee, Wis. Cuticle stick. 1,636,148; July 19.
- Provost, Frank W., and G. B. Haywood, Houston, Tex. Lint condenser. 1,628,065; May 10.
- Provost, Henry J., New Bedford, Mass. Double test plug. 1,616,392; Feb. 1.
- Provost, Virgile E., Cohoes, N. Y. Chain connection. 1,650,652; Nov. 29.
- Prowse, Joseph S., Kansas City, Mo., assignor to J. A. Carson, Seattle, Wash. Window or windshield cleaner. Re 6,892; Aug. 2.
- Prox, Herman C., et al. (See Fulke, Frank L., assignor.)
- Pruden, Harold M., Wyoming, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave signaling system. 1,624,506; Apr. 12.
- Prudential Oil Corporation. (See Porterfield, Robert A., assignor.)
- Prudden, Theodore M., Hingham, assignor to Kalix Cup Company, Boston, Mass. Container and cover therefor. 1,623,605; June 28.
- Prudden, Theodore M., Hingham, assignor to Kalix Cup Company, Boston, Mass. Cup-dispensing machine. 1,648,147; Nov. 8.
- Prudhomme, Eugene A., Neuilly-sur-Seine, assignor to Société Internationale des Procédés Prudhomme, Paris, France. Regeneration of metal catalysts contaminated by sulphur. 1,640,068; Aug. 30.
- Pruett, Forrest L., assignor of one-half to W. A. Poole, Jackson, Tenn. Insurance cash register. 1,616,867; Feb. 8.
- Pruger, Raoul, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing. 1,621,751; Mar. 22.
- Pruger, Raoul, East Liberty, Pa., assignor to Westinghouse Electric & Manufacturing Company. Roller bearing for clutch motors. 1,638,959; Aug. 16.
- Pruitt, Jerome B., Temple, Tex. Drifting valve. 1,641,864; Sept. 6.
- Prupton, Carl F. (See Smith, A. K., and Prutton.)
- Pruzman, Paul W., Los Angeles, assignor, by mesne assignments, to Contact Filtration Company, San Francisco, Calif. Decolorizing oils under pressure. 1,653,735; Dec. 27.
- Pruzman, Paul W., Los Angeles, assignor, by mesne assignments, to Contact Filtration Company, San Francisco, Calif. Revivifying spent adsorbents for oil treatments. 1,633,871; June 28.
- Pyde, Robert D., Orange, and W. M. Day, Seymour, Conn. Golf club. 1,615,262; Jan. 25.
- Pym, Hans, Stolberg, Germany. Wire-straightening machine. 1,645,072; Oct. 11.
- Pryor, Edward G., Pueblo, Colo. Lock. 1,634,755; July 5.
- Pryor, John A., Vancouver, Wash. Hand truck. 1,653,927; Dec. 27.
- Pryor, Joseph E., Summit, N. J. Golf-tee anchor. 1,632,801; June 21.
- Pryor, Walter J., Lakewood, and C. G. Schuller, Brecksville, Ohio. Dental anchorage. 1,615,034; Jan. 18.
- Pryor, William A., Savannah, Ga. Rainy-day tablet shield. 1,642,384; Sept. 13.
- Pryor, William A., Savannah, Ga. Rainy-day tablet shield. 1,642,385; Sept. 13.
- Psayla, Joseph E., New Orleans, La. Registering bite tray. 1,652,910; Dec. 13.
- Psilander, Charles A., Youngstown, Ohio, assignor to American Japanese Steel Company, Chicago, Ill. Reversible-point dipper tooth. 1,620,132; Mar. 8.
- Ptacek, Joseph F., Milwaukee, Wis. Rug-weaving machine. 1,629,886; May 24.
- Public Service Cup Company. (See Nias, Henry, assignor.)
- Pucci, Corrado, Rome, Italy. Flow integrator and recorder. 1,630,134; May 24.
- Pucek, Ferdinand, Johnson City, N. Y. Sound-recording mechanism. 1,638,059; Aug. 9.
- Pucillo, Frank, Bridgeport, Conn. Coil tester. 1,636,968; July 26.
- Pudge, George, Lakefield, Minn. Motor attachment for corn pickers. 1,645,868; Oct. 18.
- Pudelski, Riccard, assignor to Landis & Gyr A-G, Zug, Switzerland. Contact device for key switches. 1,653,823; Dec. 27.
- Puget Sound Iron & Steel Works. (See Draper, John B., assignor.)
- Pugh, John V., assignor to Rudge-Whitworth, Limited, Coventry, England. Wheel brake for vehicles. 1,648,821; Nov. 8.
- Pugh, John V., assignor to Rudge-Whitworth, Limited, Coventry, England. Wheel brake for vehicles. 1,648,862; Nov. 8.
- Puhl, John, assignor to The John Puhl Products Co., Chicago, Ill. Bottle. Des. 73,866; Nov. 15.
- Puhl, John, Products Co., The. (See Puhl, John, assignor.)
- Pulliam, Thomas S., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Separating device for circuit interrupters. 1,621,026; Mar. 15.
- Pukt, Albert J., Boston, and I. Hendlin, South Boston, Mass. Container for ice-cream cones. 1,619,883; Mar. 8.
- Pulaski, Edward A. (See Petersen, Emil, assignor.)
- Pulaski, Stanley, Brooklyn, N. Y. Trolley-pole. 1,643,751; Sept. 27.
- Pullis, Oscar B. (See Moss, R. M., and Pullis.)
- Pullecan Manufacturing Corporation. (See Trinks, William W., assignor.)
- Pullen, Joseph W., Chicago, and W. L. Fiene, Elmhurst, Ill. Merry-go-round. 1,635,387; July 12.
- Pullen, Ovid, Harmony, N. C. Thimble. 1,628,188; May 10.
- Pulley, Dorothy H., Charlotte, N. C. Motor meter. Des. 73,362; Aug. 16.
- Pulliam, Clarence, Detroit, Mich. Transmission mechanism. 1,648,027; Nov. 8.
- Pulliam, James S., Champaign, Ill. Package tie. 1,614,690; Jan. 18.
- Pulliam, Keeling G., jr. (See Rose, D. E., Pulliam, and Hossfeld.)

- Pullman, William Z., Inglewood, Calif. Centrifugal spreader. 1,644,031; Oct. 4.
- Pullis, Frederick J., Jersey City, N. J. Mail-bag ejector for toy railways. 1,646,315; Oct. 18.
- Pullman Car and Manufacturing Corporation. (See Lunn, Ernest, assignor.)
- Pullman Car & Manufacturing Corporation. (See Oehm, W. N., and Test, assignors.)
- Pullman Company, The. (See Hawkes, A. G., and Test, assignors.)
- Pullman Company, The. (See Pearson, John, assignor.)
- Pullman, Grace D., New York, N. Y. Doll. 1,617,498; Feb. 15.
- Pullman, James H., Fall River, Mass. Textile roll. 1,645,348; Oct. 11.
- Puls, Erich F., Hamburg, Germany. Speed-controlling device. 1,647,580; Nov. 1.
- Puls, Louis J., Walla Walla, Wash. Apparatus for treating grains. 1,629,050; May 17.
- Puls, Ludwig S. (See Tisdell, W. M., and Puls.)
- Pulver, Wyllis F., Rensselaer, N. Y. Brush. 1,652,213; Dec. 13.
- Purcell, Philip E., Charleston, W. Va., assignor to The Visometer Corporation, New York, N. Y. Plunger for pressure gauges or similar articles. 1,629,887; May 24.
- Pütz, Willy, Berlin-Niederschönhausen, Germany. Weighing machine. 1,613,192; Jan. 4.
- Purvey, Joseph R., et al. (See O'Leary, William C., assignor.)
- Pumphrey, Walter H., New York, N. Y. Binding post. 1,642,695; Sept. 20.
- Pumphrey, William B., Sequoia, Calif. Filtering device. 1,633,604; June 28.
- Purkin, Olga, and V. Austrin, Bronx, N. Y. Float. 1,652,253; Dec. 13.
- Punnett, Reuben F. (See Sheppard, S. E., and Punnett.)
- Punzak, Joseph F., Brooklyn, N. Y. Coin bank. Des. 73,008; July 5.
- Purell, Francis A., Brooklyn, N. Y. Automobile signal device. 1,638,677; June 28.
- Purchas, Frederick A., McGraw, N. Y. Candy box or the like. Des. 71,887; Jan. 18.
- Purdie, Thomas, Brooklyn, N. Y. Clip for vehicle springs. 1,648,566; Nov. 8.
- Purdue University. (See Ross, David E., assignor.)
- Purkin, Samuel E., Macomb, Ill. Pocketknife and savings bank. 1,613,481; Jan. 4.
- Purdy, Asa R., Boundbrook, N. J. Internal-combustion engine. 1,616,064; Feb. 1.
- Purdy, Walter S., Huntington, W. Va., assignor to F. H. Gibbs, trustee, New York, N. Y. Mine car. 1,624,801; Apr. 12.
- Purecold Products of America, Inc. (See Burns, J. G., and Davis, assignors.)
- Pure Food Factory "Hansa." (See Stoll, K., and Meyer, assignors.)
- Purnell, Charles S. (See Guy, Harry L., assignor.)
- Purox Company. (See Coberly, Clarence J., assignor.)
- Purox Company. (See Marshall, W. H., Kilgore, and Bedortha, assignors.)
- Purox Company. (See Mott, Chester, assignor.)
- Purschel, Ernst, Berlin, Germany, assignor to Radio Corporation of America. Arrangement for feeding vacuum tubes. 1,615,098; Jan. 18.
- Purtle, Albert D., Marietta, Ohio. Clamp. 1,630,863; May 31.
- Purtyman, George S., Clemenceau, Ariz. Process and apparatus for treating gases, fumes, and the like. 1,652,956; Dec. 13.
- Purtzer, Edward, Lamar, Ind. Power take-off shaft for automobile wheels. 1,645,401; Oct. 11.
- Purvey Carburetor Corporation, The. (See Purvey, Moreton F., assignor.)
- Purvey, Moreton F., Detroit, Mich., assignor to The Purvey Carburetor Corporation. Carburetor. 1,635,433; July 12.
- Purvis, Charles A. and T. A., St. Joseph, Mo. Mop. 1,653,415; Dec. 20.
- Purvis, George, Detroit, Mich. Boiler blow-off and circulating device. 1,648,028; Nov. 8.
- Purvis, Thomas A. (See Purvis, Charles A. and T. A.)
- Purwin, Klemens. (See Stoney, J. T., and Purwin.)
- Putnam, Henry V., assignor to The Ideal Electric & Manufacturing Company, Mansfield, Ohio. Starting apparatus for synchronous motors. 1,638,274; Aug. 9.
- Putnam, Albert J., and J. W. Wilson, Kalispell, Mont. Artificial bait. 1,624,116; Apr. 12.
- Putnam, Alden L., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Vehicle wheel. Des. 74,023; Dec. 6.
- Putnam, Alden L., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Vehicle wheel. Des. 74,024; Dec. 6.
- Putnam, Alden L., assignor to Motor Wheel Corporation, Lansing, Mich. Metal wheel. 1,618,887; Feb. 22.
- Putnam, Alden L., assignor to Whitehead & Kales Company, Detroit, Mich. Wheel rim and attachment therefor. 1,624,974; Apr. 19.
- Putnam, Alden L., Detroit, assignor, by mesne assignments, of one-half to Motor Wheel Corporation, Lansing, Mich., and of one-half to The Midland Steel Products Company, Cleveland, Ohio. Rim fastener for vehicle wheels. 1,639,108; Aug. 16.
- Putnam, Alden L., Dearborn, assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Welding metal spokes. 1,639,109; Aug. 16.
- Putnam, Alden L., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Four-wheel brake. 1,652,214; Dec. 13.
- Putnam, Carl E., Fairport, N. Y., assignor of one-half to F. A. Putnam, Keene, N. H. Hand-operable labeling machine. 1,648,590; Nov. 8.
- Putnam, Delmer M. (See Dunlap, H. M., and Putnam.)
- Putnam, Fred A. (See Putnam, Carl E., assignor.)
- Putnam, Fred A., Keene, N. H., assignor to Mackam Machine Company, Boston, Mass. Marking machine. 1,631,060; May 31.
- Putnam, George E., Fullerton, Calif. Valve-seat retainer. 1,634,081; June 28.
- Putnam, Samuel, New York, N. Y. Removable ladder step. 1,615,195; Jan. 13.
- Putnam, Walter T., assignor to Davis & Furber Machine Company, North Andover, Mass. Carding machine. 1,652,215; Dec. 13.
- Putra, Samuel, Lansford, Pa. Measuring instrument. 1,643,087; Sept. 20.
- Putt, Edgar B., New York, N. Y. Denatured ethyl-alcohol composition. 1,635,635; July 12.
- Putt, Edward D., and H. D. Stevens, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for cutting fan belts or the like. 1,622,253; Mar. 22.
- Pye, David W., Brooklyn, N. Y. Machine for mixing cementitious materials. 1,613,846; Jan. 11.
- Pyle-National Company, The. (See Dake, Charles W., assignor.)
- Pyle-National Company, The. (See Dake, C. W., and Pyle, assignors.)
- Pyle-National Company, The. (See McGinnis, Crawford P., assignor.)
- Pyle-National Company, The. (See McGinnis, C. P., and Dake, assignors.)
- Pym, Charles F., Clifton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. 1,634,510; July 5.
- Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack-pulling machine. 1,614,628; Jan. 18.
- Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,634,511; July 5.
- Pym, Charles F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,627,999; May 10.
- Pym, James P., Toledo, Ohio. Valve seat and head. 1,634,512; July 5.
- Pyrene Manufacturing Company. (See Ferguson, G. E., and Timpson, assignors.)
- Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
- Pyrene Manufacturing Company. (See Waring, Edward J., assignor.)
- Pyrocol Corporation. (See Warga, Kalman, assignor.)
- Pysher, Lincoln, Grand Junction, Colo. Vegetable slicer and shredder. 1,617,499; Feb. 15.
- Pysher, Daniel, Piedmont, assignor to Simplex Refining Company, San Francisco, Calif. Separating hydrocarbon fractions. 1,622,737; Mar. 29.
- Pyzer, Lisle N. (See Cumpston, I. E., and Pyzer.)
- Q & C Company. (See Young, Charles D., assignor.)
- Q & C Company. (See Zimmerman, Emil C., assignor.)
- Quak, Gilbert, Weldon, Saskatchewan, Canada. Wash-boiler rack. 1,629,888; May 24.
- Quade, Alfred, and A. H. Klumb, assignors to West Bend Equipment Corporation, West Bend, Wis. Stall and stanchion. 1,631,337; June 7.
- Quade, Alfred, and A. H. Klumb, assignors to West Bend Equipment Corporation, West Bend, Wis. Stanchion. 1,636,072; July 19.
- Qualit, Robert, Jr., Brooklyn, assignor of one-half to J. M. Ehrlich, New York, N. Y. Duplicate sound record and making the same. 1,621,749; Mar. 22.
- Qualit, Robert, Jr., Brooklyn, assignor of one-half to J. M. Ehrlich, New York, N. Y. Phonograph record and producing the same. 1,635,862; July 12.
- Quaker City Iron Works. (See Jensen, James A., assignor.)
- Quaker Oats Company, The. (See Hagmann, Ulrich, assignor.)
- Quaker Oats Company, The. (See Miner, Carl S., assignor.)
- Quaker Oats Company, The. (See Miner, C. S., and Steern, assignors.)
- Quaker Oats Company, The. (See Trickey, John P., assignor.)
- Quaker Oats Company, The. (See Wilson, William C., assignor.)
- Quality Metal Bed Co. (See Simon, William M., assignor.)
- Quarles, Plating and Manufacturing Company. (See Piscator, Robert C., assignor.)
- Quarles, Donald A., Englewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Supervisory system. 1,616,823; Feb. 8.
- Quarzlampen-Gesellschaft m. b. H. (See Mensing, Karl, assignor.)
- Quarzlampen-Gesellschaft mit beschränkter Haftung. (See Girard, Fritz, assignor.)

- Quates, Leonard S., Montgomery, Ala. Automatic re-
leasing valve for air-brake systems. 1,638,457; Aug. 9.
Quatman, George B., Sidney, Ohio. Waffle iron.
1,641,455; Sept. 6.
Que, Jose E., Manila, P. I. Traffic signal. 1,638,706;
Aug. 9.
Queen City Products, Inc. (See Phillips, F. H., and
Mann, assignors.)
Queen, Walter K. (See Long, Henry N., assignor.)
Queenev, Frank E., Teaneck, N. J., assignor to Inter-
national Motor Company, New York, N. Y. Switch.
1,646,764; Oct. 25.
Questel, William L., and H. M. Rhind, assignors to The
Hugh Rhind Golf Shaft Company, Portsmouth, Ohio.
Golf club. 1,621,750; Mar. 22.
Questel, William L., and H. M. Rhind, assignors to The
Vulcan Lase Company, Portsmouth, Ohio. Golf-club
handle. 1,650,040; Nov. 22.
Quick, Aaron N., Los Angeles, Calif. Detachable anti-
glare lens. 1,620,569; Mar. 8.
Quick, Charles B., Houston, Tex. Motor. 1,612,985;
Jan. 4.
Quick, Charles H. (See Milligan, L. H. and Quick.)
Quick, George W. (See Jordan, L. and Quick.)
Quick, William, North Earling, London, S. E. Thomas.
Hounslow, and F. W. Berwick, Kensington, London,
England. Window-control device. 1,614,629; Jan. 18.
Quigan, Frank J., Brooklyn, N. Y. Vanity-case frame.
1,624,070; Apr. 12.
Quigan, Frank J., Brooklyn, and S. Carolin, New York,
N. Y. Hand-bag accessory. 1,627,063; May 3.
Quig, James K. (See Shipley, R. C., and Quig.)
Quiggle, Arthur W., assignor to The Creamette Company,
Minneapolis, Minn. Drying macaroni. 1,643,821;
Sept. 27.
Quizley, John T., Boston, Mass., assignor, by mesne as-
signments, to Postindex Company, Inc. Filing and in-
dexing equipment. 1,616,508; Feb. 8.
Quigley, John T., assignor, by mesne assignments, to
Postindex Company, Inc., Boston, Mass. Filing and
indexing equipment. 1,637,534; Aug. 2.
Quigley, John T., Los Angeles, Calif. Device for filing
cards and the like. 1,631,983; June 14.
Quigley, Julia E., Charlestown, Mass. Cooking utensil.
1,618,675; Feb. 22.
Quillen, Wrigdon E., assignor of one-third to F. Spitz,
Pittsburgh, Pa. Fountain soldering iron. 1,626,552;
Apr. 26.
Quimby, William E., Inc. (See Rathman, Gilbert, as-
signor.)
Quin, William H., Toronto, Ontario, Canada. Sander for
railway rolling stock. 1,614,207; Jan. 11.
Quinlan, Robertson & Janin Limited. (See Maxwell,
Colin J. E., assignor.)
Quinn, Charles H., San Francisco, Calif. Fuel-feeding
mechanism. 1,637,028; July 26.
Quinn, James J., Mimico, Ontario, Canada. Meat slicer.
1,622,609; Mar. 29.
Quinn, James L., Rahway, N. J., assignor to National
Pneumatic Company, New York, N. Y. Door-operating
mechanism. 1,622,394; Mar. 29.
Quinn, John J., assignor, by mesne assignments, of one-
half to J. J. Lane, Englewood, N. J. Fitting. 1,650,737;
Nov. 29.
Quinn, John W., Hull, Mass. Apparatus for drying shoes.
1,636,195; July 19.
Quinn, Marshall A., Roanoke, Va. Culvert. 1,648,148;
Nov. 8.
Quinn, Martin J., Toronto, Ontario, Canada. Pump.
1,625,500; Apr. 9.
Quinn Patrick A., Clifton, N. J. Automobile brake.
1,626,151; Apr. 26.
Quint, Everett A., assignor to Johnson & Johnson, New
Brunswick, N. J. Surgical needle and making it.
1,636,915; July 29.
Quirk, Harry (See Gay, J. C., Smith, and Quirk.)
Quirk, Mary E., et al. (See Keating, Robert M., as-
signor.)
Quirk, Thomas J. (See Setchfield, James, assignor.)
Quiroz, Francisco A., New York, N. Y. Centrifugal appar-
atus for separating purposes. 1,631,383; June 7.
Quist, Andrew J., and B. A. Mandler, Mount Jewett,
Pa. Shoe stretcher. 1,637,915; Aug. 2.
Quist, Frank J. (See Blanch, S. M., and Quist.)
Quist, Irving E., Warren, Minn. Cable guard. 1,637,241;
July 26.
Qvarnstrom, Ernest J., Attleboro, Mass. Receiptacle.
1,631,334; June 7.
Qviller, Olaf. (See Holter, K., and Qviller.)
R. C. Can Company. (See Rutkowski, Walter L., as-
signor.)
R. K. M. Mfg. Co. et al. (See Bogdonoff, Glenn, as-
signor.)
R. K. M. Mfg. Company. (See Rosenman, Leo, assignor.)
R. M. Company, Inc. (See Murray, Howard J., assignor.)
Rabalais, Malo J., Hessmer, La. Brush. 1,641,865;
Sept. 6.
Rabbit, Frank, Brooklyn, Md. Antiglare device for ve-
hicle headlights. 1,615,199; Jan. 18.
Rabe, Paul, Leverkusen, near Cologne-on-the-Rhine, Ger-
many, assignor, by mesne assignments, to Grasselli
Dyestuff Corporation, New York, N. Y. Dyeing.
1,622,122; Mar. 22.
Rabe, Paul, Leverkusen, near Cologne-on-the-Rhine, and
W. Scheps, Wiesdorf, near Cologne, Germany, assignors, by mesne
assignments, to Grasselli Dyestuff Corporation, New York,
N. Y. Dyeing acidyl celluloses. 1,645,450;
Oct. 11.
Rabe, Paul, Leverkusen, near Cologne-on-the-Rhine, and
W. Scheps, Wiesdorf, near Cologne-on-the-Rhine, Ger-
many, assignors, by mesne assignments, to Grasselli
Dyestuff Corporation, New York, N. Y. Dyeing acidyl
celluloses. 1,645,451; Oct. 11.
Raber, William H., Peilham Manor, N. Y. Collar.
1,640,805; Aug. 30.
Raber, August, Evansville, Ind. Center finder for shafts.
1,640,295; Aug. 23.
Raber, Samuel M., Colony, Wyo. Lambing tent.
1,649,324; Nov. 15.
Rabert, Chester T., Huntington, W. Va. Seat or hat
check. 1,616,669; Feb. 8.
Rabeziana, Hector, assignor to A. C. Spark Plug Company,
Flint, Mich. Vacuum tank. 1,642,461; Sept. 13.
Rabidoux, Charles J., and W. M. Einhorn, Blue Island,
Ill. Rim. 1,629,411; May 17.
Rabinovitch, David, Womissing, Pa. Drying form for
hosiery. 1,614,388; Jan. 11.
Rabinowitz, Gedalia, Arverne, N. Y., assignor to Venus
Lighting Fixture Corporation. Lighting fixture back-
plate. Des. 72,238; Mar. 15.
Rabinowitz, Mendel, New York, N. Y. Folding pin ticket.
1,650,535; Aug. 20.
Rabitzer, Theodore J., Dayton, Ohio. Display holder.
1,642,086; Sept. 13.
Rabjohn, Lloyd E., Burlingame, and R. W. Hollenberg,
Alameda, Calif. Water filter. 1,621,684; Mar. 22.
Rabner, Walter E., Tacoma, Wash. Auto signal.
1,654,015; Dec. 27.
Rabun, Wiley T., Inglewood, Calif. Arm for bridge
lamps. Des. 74,072; Dec. 13.
Rabus, George F., Cedar Rapids, Iowa. Pencil-printing
press. 1,638,127; Aug. 9.
Rachford, John, Chicago, Ill. Sausage-linking machine.
1,616,868; Feb. 8.
Rachlin, Eva, Brooklyn, N. Y. Gutter hanger. 1,632,561;
June 14.
Rachlin, Max, Brooklyn, N. Y. Pipe support. Des.
73,198; Aug. 2.
Rachlin, Max, Brooklyn, N. Y. Gutter hanger. 1,629,305;
May 17.
Rachlin, Max, Brooklyn, N. Y. Eaves-trough elbow.
1,642,556; Sept. 13.
Rachne Confectioners Machinery Company. (See Hislop,
Robert S., assignor.)
Rachne Confectioners' Machinery Co. (See Marr, Zachues
M., assignor.)
Rachne Horseshoe Tire Company. (See Caldwell, Truman
S., assignor.)
Rachne Horseshoe Tire Company, The. (See McCready,
Lloyd E., assignor.)
Rachne Horseshoe Tire Company. (See Reichard, Harold
D., assignor.)
Rachne Radiator Company. (See Young, Fred M., as-
signor.)
Rackham, George J., assignor to Yellow Coach Manu-
facturing Co., Chicago, Ill. Change-speed transmis-
sion. 1,631,338; June 7.
Rackstraw, Albert V., Los Angeles, Calif. Boring-
machine head. 1,633,752; June 28.
Racz, Michael, Philadelphia, Pa. Telescope side in-
closure for vehicles. 1,646,794; Oct. 25.
Radandt, Joseph H., Emmett, Idaho. Lock for tire rims.
1,615,907; Mar. 1.
Radcliffe, John C. (See Radcliffe, Owen F., assignor.)
Radcliffe, Owen F., assignor of one-half to J. C. Radcliffe,
Los Angeles, Calif. Sanitary garbage can. 1,637,656;
Aug. 2.
Raddatz, Richard, Milwaukee, Wis., assignor, by mesne
assignments, to Wood Hydraulic Hoist & Body Com-
pany, Dundas, Ontario, Canada. Apparatus. 1,615,404; Jan. 25.
Radeeff, Andrew, New York, N. Y. Perfumer for electric
fans. 1,632,245; June 14.
Rademacher, Broer G., Burr, Nebr. Wagon-box support.
1,621,685; Mar. 22.
Rademakers, William H., jr. (See Rademakers, William
H., sr., and W. H., jr.)
Rademakers, William H., sr., and W. H. Rademakers,
jr., Newark, N. J. Collision bumper device. 1,619,540;
Mar. 1.
Rader, Marion A., Walla Walla, Wash. Glare shield.
1,633,190; June 21.
Rader, William O. (See Seaton, A., and Rader.)
Radford, Donalds R. (See Lamb, C., and Radford.)
Radford, Eric H., Los Angeles, Calif. Wrapper. 1,628,429;
May 10.
Radford, Herbert A., assignor to U. S. Shutter Lens Com-
pany, Denver, Colo. Relieving the glare from projector
lights. 1,637,622; Aug. 2.
Radford, Stephen C., Oshkosh, Wis. Index card.
1,648,822; Nov. 8.
Radhu, Ferdinand. (See Hellawell, H. H., and Rad-
huber.)
Radnec Metals, Ltd. (See Shackelford, E. J., Penniman,
and Cain, assignors.)
Radiant Heat Corporation of America. (See Kennedy,
Walter, assignor.)
Radiant Lighting Fixture Co. (See Bohl, Hugo, assignor.)

- Radiator Specialty Company. (See Ray, George I., assignor.)
- Radice Electric Co. (See Baum, Max, assignor.)
- Radio Corporation of America. (See Agate, C. S., and Willams, assignors.)
- Radio Corporation of America. (See Blakeney, Edward, assignor.)
- Radio Corporation of America. (See Carlson, Wendell L., assignor.)
- Radio Corporation of America. (See Carter, Philip S., assignor.)
- Radio Corporation of America. (See Clark, George H., assignor.)
- Radio Corporation of America. (See Clough, Newsome H., assignor.)
- Radio Corporation of America. (See Ditcham, William T., assignor.)
- Radio Corporation of America. (See Dowsett, Harry M., assignor.)
- Radio Corporation of America, The. (See Dowsett, Harry W., assignor.)
- Radio Corporation of America. (See Franklin, Charles S., assignor.)
- Radio Corporation of America. (See Goldsmith, A. N., and Weinberger, assignors.)
- Radio Corporation of America. (See Graham, William A., assignor.)
- Radio Corporation of America. (See Hill, G., and Clark, assignors.)
- Radio Corporation of America. (See Loewe, Siegmund, assignor.)
- Radio Corporation of America. (See Lowenstein, Fritz.)
- Radio Corporation of America. (See MacIvain, Karl M., assignor.)
- Radio Corporation of America. (See Parkin, Thomas D., assignor.)
- Radio Corporation of America. (See Purschel, Ernst, assignor.)
- Radio Corporation of America. (See Ranger, Richard H., assignor.)
- Radio Corporation of America. (See Round, Henry J., assignor.)
- Radio Corporation of America, et al. (See Semm, A., and Schaffer, assignors.)
- Radio Corporation of America. (See Smith, Sidney B., assignor.)
- Radio Corporation of America, The. (See Smith, S. B., and Wright, assignors.)
- Radio Corporation of America. (See Van Dyck, Arthur, F., assignor.)
- Radio Corporation of America. (See Weagant, Roy A., assignor.)
- Radio Corporation of America. (See Weinberger, Julius, assignor.)
- Radio Corporation of America. (See Whistlercroft, Arthur W., assignor.)
- Radio Corporation of America. (See Wright, George M., assignor.)
- Radio Corporation of America. (See Young, A. M., and Simons, assignors.)
- Radium Dial Company. (See Goetschius, Dalton M., assignor.)
- Radio Electric Clock Corporation. (See Casner, Thaddeus S., assignor.)
- Radio Frequency Laboratories, Incorporated. (See Hull, L. M., and Seabury, assignors.)
- Radio Frequency Laboratories, Incorporated. (See Seabury, Richard W., assignor.)
- Radio Lab. & Mfg. Co. et al. (See Scott, Ray W., assignor.)
- Radio Motion Picture Phon. Corp. (See Lubé, Henry, assignor.)
- Radio Patents Corporation. (See Van Deventer, Harry R., assignor.)
- Radiologie Aktengesellschaft. (See Firtenau, Robert, assignor.)
- Radiotive Corporation. (See Schmidt, Lambert, assignor.)
- Radium Emanation Corporation, The. (See Cervi, Armando, assignor.)
- Radke, Theodore J., Oak Park, Ill. Valve-controlling mechanism for water heaters. 1,639,666; Aug. 23.
- Radlowski, Stanley, Ward, W. Va. Window-fastening device. 1,644,354; Oct. 4.
- Radley, Samuel S., Gardner, assignor to Evans Case Co., Attleboro, Mass. Loose-powder container. 1,624,874; Apr. 12.
- Rado, Adelaide D. W. (See Rado, Adolph and A. D. W.)
- Rado, Adolph and A. D. W., East Orange, N. J. Dust-mop cleaner. 1,614,968; Jan. 18.
- Radol-sky, Joseph, New York, N. Y. Safety-boiling vessel. 1,644,353; Oct. 4.
- Radtke, Albert, Berlin, Germany. Portable tree-felling saw. 1,626,553; Apr. 26.
- Radway, Laura M., New York, N. Y. Outer foot covering. 1,651,631; Dec. 6.
- Rae, Frank B., Jr., et al. (See Stranzsky, Emil, assignor.)
- Raeburn, William, assignor to The Mattatuck Manufacturing Company, Waterbury, Conn. Making chair glides. 1,617,254; Feb. 8.
- Raeth, Frederick C., Milwaukee, Wis. Converting chemical fertilizers to yeast and other organic substances. 1,632,312; June 14.
- Raffloer, Emil, Duisberg-on-the-Rhine, Germany, assignor of one-half to W. E. Leuchtenberg, New York, N. Y. Desulphurizing coal, water or mixed gases for illuminating or heating. 1,624,625; Apr. 12.
- Rafter, Albert, assignor to Rafter Machine Company, Newark, N. J. Shock absorber. 1,619,035; Mar. 1.
- Rafter Machine Company. (See Rafter, Albert, assignor.)
- Ragan, Sidney A., New Orleans, La. Paper-perforating machine. 1,644,950; Oct. 11.
- Ragar, John S., Bowdoin, Mont. Pump. 1,615,484; Jan. 26.
- Ragg, Mary E., Upper Norwood, England. Obstetric appliance. 1,625,662; Apr. 19.
- Ragona, Vincent, assignor, by mesne assignments, to Cary Manufacturing Co., Brooklyn, N. Y. Machine for making divergent fasteners. 1,639,895; Aug. 23.
- Ragona, Vincent, assignor to Cary Manufacturing Co., Brooklyn, N. Y. Package-binding implement. 1,639,896; Aug. 23.
- Ragonot, Edmond, Malakoff, France. Vacuum cleaner. 1,635,344; July 12.
- Ragsdale, Earl J. W., Norristown, assignor to Budd Wheel Company, Philadelphia, Pa. Wheel. 1,627,202; May 8.
- Ragsdale, Earl J. W., Norristown, Pa., assignor to Secretary of War, Dwight F. Davis. Dummy bomb. 1,632,147; June 14.
- Rabe, William, Newtown, Ohio. Spring bumper. 1,617,027; Feb. 8.
- Rabe, William, Cincinnati, Ohio. Automobile bumper. 1,629,587; May 24.
- Rabe, William, Cincinnati, Ohio. Automobile bumper. 1,644,032; Oct. 4.
- Rahling, Henry D., East Aurora, assignor to Steel Drum Accessories Corporation, Buffalo, N. Y. Valve body. Des. 73,236; Aug. 9.
- Rahling, Henry D., East Aurora, assignor to Steel Drum Accessories Corporation, Buffalo, N. Y. Bib or faucet. 1,634,960; July 5.
- Rahn, Robert C., Wyomissing, assignor to Berks Engineering Co., Inc., Reading, Pa. Dyeing machine. 1,654,092; Dec. 27.
- Rahn, Franz. (See Schneider, H., and Rahn.)
- Rahn, Robert C. (See Weber, W. S., and Snyder, assignors.)
- Rahr, Chester E. (See Kirschbraun, L. and Rahr.)
- Rahr, Chester E., Brookline, Mass., and L. Kirschbraun, Evanston, Ill. Waterproof composition and making same. 1,616,921; Feb. 8.
- Rahr, Maximilian, Jr., Manitowoc, Wis. Storage sling for automobile side curtains. 1,648,961; Nov. 15.
- Raible, John B., Lakewood, assignor to The Greif Brothers Co., Inc., Cleveland, Ohio. Sheet metal keg. 1,628,686; May 14.
- Raiche, Paul A., and T. B. Dowling, Providence, and T. J. Brides, Warwick, assignors to Davor Rubber Company, Providence, R. I. Machine for gumming the edges of nipples. 1,646,359; Oct. 18.
- Rail Joint Company, The. (See Armstrong, Victor C., assignor.)
- Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
- Rail Joint Company, The. (See Disbrow, C. A., and Gadd, assignors.)
- Rail Joint Company, The. (See Thomson, McLeod, assignor.)
- Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
- Rail, Joseph, Terre Haute, Ind. Blade-grader level and slope indicator. 1,625,683; Apr. 19.
- Rail, Joseph, and H. E. Sprow, Rockville, Ind. Automobile side light. 1,624,433; Apr. 12.
- Railway and Industrial Engineering Company. (See Koppitz, Carl G., assignor.)
- Railway Devices Company. (See Campbell, Sterling H., assignor.)
- Railway Devices Company. (See Hoerr, Louis A., assignor.)
- Railway Devices Company. (See Pletzsch, Frank H., assignor.)
- Railway Improvement Company. (See Clark, Leverett M., assignor.)
- Railway Metal Products Company. (See Gilpin, Garth G., assignor.)
- Railway Metal Products Company. (See Small, Arthur B., assignor.)
- Railway Metal Products Company. (See Thalheimer, Nicholas C., assignor.)
- Railway Signal Company, The. (See Nicholson, J. H., and Roberts, assignors.)
- Railway Signal Company Limited, The. (See Roberts, V. S., and Burton, assignors.)
- Railway Signal Company Limited, The. (See Roberts, Walter S., assignor.)
- Rail Welding & Bonding Company, The. (See Burgett, Lynn S., assignor.)
- Raimo, Joseph B. (See Raimor, Philip and J. B., and Rolfs.)
- Raimor, Philip and J. B., and E. A. Rolfs, Maple Heights, Ohio. Power take-off device for tractors. 1,633,273; June 21.
- Raimond, Francesco, Milan, Italy. Inductive limiting device for electric currents. 1,642,343; Sept. 13.
- Rain, John, Shawnee, Okla. Oil cellar. 1,641,601; Sept. 6.

- Rainbow Light, Inc. (See Machlett, Raymond R., assignor.)
- Rainbow Photo Reproductions, Inc. (See Flammer, E. F., and Silliman, assignors.)
- Rainer, Earl, Oak Hill, Ohio. Pump. 1,614,389; Jan. 11.
- Raines, Benjamin D., and O. Billingsley, New York, N. Y. Lock. 1,642,219; Oct. 18.
- Rainey, Edward E., Denver, Colo. Valve lifter. 1,623,752; Apr. 5.
- Rainsford, Thomas F., Detroit, Mich., assignor of one-fourth to T. C. Whitehead. River Rouge, Mich. Automobile radiator. Des. 72,187; Mar. 8.
- Rainsford, Thomas F., Detroit, assignor to Whitehead and Kaes, Inc., River Rouge, Mich. Derrick attachment for tractors. 1,630,540; May 31.
- Rainsford, Thomas F., Detroit, assignor to Whitehead & Kaes Company, River Rouge, Mich. Method and apparatus for bending spokes. 1,654,913; July 5.
- Rairden, Albert S., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Welding wire-rope ends. 1,649,855; Nov. 22.
- Raisig, Charles, Pittsburgh, Pa. Flexible coupling. 1,640,852; Aug. 30.
- Raisner, August C., Philadelphia, Pa. Toy trick box. 1,628,180; May 10.
- Raison, Jean L., Paris, France. Syringe for local anesthesia. 1,615,136; Jan. 18.
- Raizis, George W., Philadelphia, Pa., assignor to The Abbott Laboratories, Chicago, Ill. Manufacture of mercuri-mononitro-orthocresol and its salts. 1,630,072; May 24.
- Raizis, George W., Philadelphia, and A. Proskouriakoff, Lansdowne, Pa., assignors to Abbott Laboratories, Chicago, Ill. Compound of acetylaminosalicylic acid with aliphatic amines and making same. 1,652,796; Dec. 13.
- Ralco Manufacturing Company. (See Loigren, John, assignor.)
- Raleigh, James F., et al. (See Furber, Frederick M., assignor.)
- Raleigh, James F., River Forest, assignor to Pines Winterfront Company, Chicago, Ill. Thermostatic wafer. 1,613,292; Jan. 4.
- Raleigh, James F., River Forest, assignor to Pines Winterfront Company, Chicago, Ill. Thermostatically-controlled radiator shutter for automobiles. 1,634,301; July 5.
- Raleigh, James F., assignor to Pines Winterfront Company, Chicago, Ill. Locking device. 1,628,740; May 17.
- Raleigh, James F., assignor to Pines Manufacturing Company, Chicago, Ill. Shutter apparatus for radiators. 1,633,794; June 28.
- Raley, Otis, and G. Apperson, Paragould, Ark. Switch. 1,622,541; Mar. 29.
- Rau-Osterwalder, Gustav, Rentlingen, Germany. Folding umbrella. 1,643,724; Sept. 27.
- Ralph, Paul J. (See Alsberg, J., and Ralph.)
- Ralston, David S., assignor to Allied Packers, Inc., Chicago, Ill. Container for hams and the like. 1,635,688; July 12.
- Ralston, Florence V., New York, N. Y. Cleaner. 1,629,965; May 24.
- Ralston, Samuel F., assignor of one-half to V. L. Holman, Kallispell, Mont. Sealing jar. 1,615,519; Jan. 25.
- Ramage, Alexander S., et al., trustees. (See Ramage, Alexander S., assignors.)
- Ramage, Alexander S., assignor to F. F. Beall, A. S. Ramage, and B. Briscoe, trustees, Detroit, Mich. Agitator. 1,626,297; Apr. 26.
- Ramage, Charles F., Langdon, N. Dak. Amusement device. 1,631,292; Nov. 29.
- Ramage, William H., Girard, Ohio, assignor to Valley Mold and Iron Corporation, Sharpville, Pa. Apparatus for casting ingot molds and the like. 1,613,895; Dec. 6.
- Ramapo Ajax Corporation. (See Hoffman, P., and Strong, assignors.)
- Rambo, James H., assignor to Minneapolis Knitting Works, Minneapolis, Minn. Child's sleeping garment. 1,623,753; Apr. 5.
- Rambo, Joseph F., Pomona, Calif. Hydraulic motor. 1,626,298; Apr. 26.
- Ramdor, Leopold, Segefeld, assignor to the Firm Deutsche Post- und Eisenbahn-Verkehrswesen Aktiengesellschaft (Dapag-Erhag), Stanken, near Spandau, Germany. Rotary printing machine. 1,616,922; Feb. 8.
- Ramer, Philip W., River Falls, Wis. Spraying machine. 1,623,702; Apr. 5.
- Ramin, Ezra, assignor of one-third to J. H. Wolfson and one-third to L. W. Harlem, Boston, Mass. Folding wire easel. 1,648,243; Nov. 8.
- Ramos, Jose B., Habana, Cuba. Farming implement. 1,633,905; June 28.
- Ramp Buildings Corporation. (See d'Humy, Fernand E., assignor.)
- Rampfel, Heinrich, Jersey City, N. J., assignor to Nathan Straus & Sons, Inc., New York, N. Y. Plate or similar article. Des. 73,441; Sept. 13.
- Ramsay, Glendora B. (See Jackson, Thomas, assignor.)
- Ramsay, Karl H. W., Summit, assignor to Diamond Electric Specialties Corp., Newark, N. J. Dry-cell electrode and making the same. 1,644,746; Oct. 11.
- Ramsburg, Charles J., Edgeworth, Pa. Humidifier. 1,618,726; Feb. 22.
- Ramsburg, George S., Somersworth, N. H. Sectional florist bench. 1,626,095; Apr. 26.
- Ramsdell, Thomas S., Great Barrington, Mass. Pipe cleaner. 1,617,457; Feb. 15.
- Ramsdell, William E. (See Hose, H. G., and Ramsdell.)
- Ramsey, Clifford H., Glen Rock, N. J. Tenting machine. 1,622,049; Mar. 22.
- Ramsey, Clifford H., Glen Rock, N. J. Breaking roller. 1,633,839; Apr. 18.
- Ramsey, Clifford H., Glen Rock, N. J. Beam-bearing block. 1,649,077; Nov. 15.
- Ramsey, Edward J., Brooklyn, N. Y. Shoe construction. 1,614,933; Jan. 18.
- Ramsey, Elmer R. (See Blomfield, A. L., and Ramsey.)
- Ramsey, George, Brooklyn, N. Y. Speedometer. 1,628,271; May 10.
- Ramsey, George, Brooklyn, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Sealing cap and package. 1,634,724; July 5.
- Ramsey, George, Brooklyn, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Closure cap. 1,640,962; Aug. 30.
- Ramsey, George, Brooklyn, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Spring-lock cap. 1,646,765; Oct. 25.
- Ramsey, George, Brooklyn, N. Y. Method and apparatus for identifying ammunition. 1,650,908; Nov. 29.
- Ramsey, George, Brooklyn, N. Y. Sound-producing device. 1,651,150; Nov. 29.
- Ramsey, George, Brooklyn, N. Y. Exposure meter. 1,651,151; Nov. 29.
- Ramsey, George, assignor to Anchor Cap and Closure Corporation, Brooklyn, N. Y. Closure-applying machine. 1,653,470; Dec. 20.
- Ramsey, George M. (See Gladwill, R. H., and Ramsey.)
- Ramsey, Henry W., assignor of one-fourth to G. Morrow, Los Angeles, Calif. Coin-controlled vending machine. 1,617,689; Feb. 15.
- Ramsey, James C., Roswell, N. Mex. Friction fire starter. 1,629,638; May 24.
- Ramsey, James C., Roswell, N. Mex. Fire-making device. 1,643,726; Sept. 27.
- Ramsey, Marcellus, North Girard, Pa. Cultivator blade. 1,611,050; Aug. 30.
- Ramsey, Maxwell E., St. Louis, Mo. Bed. 1,641,991; Sept. 13.
- Ramsey, Robert L., Ben Wheeler, Tex. Organized lifting mechanism. 1,625,743; Apr. 19.
- Ramsey, Robert P., assignor to Clyde Iron Works, DuPont, Minn. Cable block. 1,625,910; Apr. 26.
- Ramstad, Carl N., Valdez, Alaska. Fastening device. 1,620,391; Mar. 8.
- Ramsten, Gunnar L. A., et al., administrators. (See Broberg, I., Eriksson, and Sjölin.)
- Ranck, Edward D., Toronto, Ontario, Canada, assignor to The Coleman Lamp Co., Wichita, Kans. Air pump for pressure tanks. 1,653,969; Dec. 27.
- Rand, Benjamin G., North Tonawanda, N. Y. Filing cabinet. 1,619,761; Mar. 1.
- Rand, Charles E., San Diego, Calif. Collapsible shaving cup. 1,636,323; July 19.
- Rand, Charles H., Cheyenne, Wyo. Implement tongue. 1,622,241; Mar. 22.
- Rand, Clarence, Auburn, Me. Ring-adjusting machine for bobbins. 1,649,186; Nov. 15.
- Rand, James H., North Tonawanda, assignor to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Index element. 1,619,760; Mar. 1.
- Rand, James H., Jr., assignor to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Card-index device. 1,622,870; Mar. 29.
- Rand, James H., North Tonawanda, assignor, by mesne assignments, to Rand Kardex, Inc., Tonawanda, N. Y. Index tab. 1,625,154; Apr. 19.
- Rand, James H., North Tonawanda, assignor to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Index. 1,637,535; Aug. 2.
- Rand, James H., North Tonawanda, assignor to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Index device. 1,637,536; Aug. 2.
- Rand, James H., North Tonawanda, assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y. Typewriter attachment. 1,643,997; Oct. 4.
- Rand, James H., Jr., Tonawanda, and L. E. Hutchings, Buffalo, assignors, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y. Card index or record device. 1,651,907; Dec. 6.
- Rand, James H., North Tonawanda, assignor, by mesne assignments, to Remington-Rand Inc., Tonawanda, N. Y. Index. 1,654,052; Dec. 27.
- Rand, James H., North Tonawanda, assignor, by mesne assignments, to Remington-Rand Inc., Tonawanda, N. Y. Index device. 1,654,053; Dec. 27.
- Rand Kardex Bureau, Inc. (See Dawson, George H., assignor.)
- Rand Kardex Bureau, Inc. (See Day, W. H., and Thomas, assignors.)
- Rand Kardex Bureau, Inc. (See Hayes, Robert D., assignor.)
- Rand Kardex Bureau, Inc. (See Ouchie, Elmer L., assignor.)
- Rand Kardex Bureau, Inc. (See Rand, James H., assignor.)
- Rand Kardex Bureau, Inc. (See Rand, James H., Jr., assignor.)
- Rand Kardex Bureau, Inc. (See Sprenger, James A., assignor.)

- Randall, Chester J., Woonsocket, R. I., and C. Wurttemberg, Union City, assignors to The Goodyear's Metallic Rubber Shoe Company, Naugatuck, Conn. Machine for stripping vulcanized articles. 1,623,208; Apr. 5.
- Randall, Gertrude E., Seattle, Wash. Educational device. 1,614,390; Jan. 11.
- Randall, Herbert C., and C. F. Colbert, assignors to Canning Machinery Exchange, Baltimore, Md. Machine for washing, grading, and peeling fruits, etc. 1,648,823; Nov. 8.
- Randall, John W. (See Randall, Thomas L. and J. W.)
- Randall, Karl C., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for forming insulators. 1,630,762; May 31.
- Randall, Karl C., Edgewood Park, and H. K. Ansingh, Murrsville, Pa., assignors to Westinghouse Electric and Manufacturing Company. Circuit-interrupting device. 1,637,351; Aug. 2.
- Randall, Karl C., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,654,809; Dec. 27.
- Randall, Oliver C., Union Village, Vt. Carrier for milk and cream separators. 1,652,837; Dec. 13.
- Randall, Purdy M., assignor, by mesne assignments, to F. C. Briggs, trustee, New York, N. Y. Commutator. 1,641,194; Sept. 6.
- Randall, Sheridan, et al. (See Hale, William H., assignor.)
- Randall, Thomas L. and J. W. Conner, Fla. Centering device for veneering machines. 1,613,903; Jan. 11.
- Randle, George J. (See Wenzel, W. A., and Randle.)
- Randle, George N., Oakland, Calif. Urinal for automobiles and the like. 1,650,154; Nov. 22.
- Randle, George N., Oakland, Calif. Automobile commode. 1,650,155; Nov. 22.
- Randleman, Albert B. (See Randleman, Zouave S., assignor.)
- Randleman, Zouave S., Carlisle, Iowa, assignor of one-half to A. B. Randleman, Carlisle, Iowa. Paper holder and display rack. 1,652,411; Dec. 13.
- Randol, Glenn T., Marmaduke, assignor of one-half to S. S. Steinberg, Paragould, Ark. Control means for gear-shifting mechanism. 1,648,193; Nov. 8.
- Randolph, Charles P., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric toaster. Des. 72,495; Apr. 19.
- Randolph, Clifford F., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Machine tool. 1,634,384; July 5.
- Randolph, Clifford F., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Tailstock. 1,652,412; Dec. 13.
- Randolph, Clifford F., and N. Marcalus, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Tool holder. 1,637,785; Aug. 2.
- Randolph, Howard H. (See Amen, Nicholas C., assignor.)
- Randolph, Howard H. (See Anderson, Victor T., assignor.)
- Randolph, Lloyd G., Big Run, Pa. Pan-turning device for cooking stoves. 1,638,745; Aug. 9.
- Randolph, Mustapha K., Huntington, W. Va. Shirt. 1,614,898; Jan. 18.
- Randolph, Oliver W., Toledo, Ohio. Coal drying. 1,623,553; Apr. 5.
- Randolph, Otis M., Kinsley, Kans. Topping and pruning knife. 1,620,133; Mar. 8.
- Randomtex Dyeing Machine Corporation. (See Johnston, James S., assignor.)
- Raney, Clemma R. (See Benjamin, B. R., and Raney.)
- Raney, Clemma R., Chicago, Ill., assignor to International Harvester Company. Grain shocker. 1,627,203; May 8.
- Raney, Clemma R., assignor to International Harvester Company, Chicago, Ill. Grain shocker. 1,632,148; June 14.
- Raney, Clemma R., Chicago, Ill., assignor to International Harvester Company. Grain shocker. 1,643,173; Sept. 20.
- Raney, Clemma R., Riverside, assignor to International Harvester Company, Chicago, Ill. Combined tucker and stripper for binding mechanisms. 1,648,459; Oct. 25.
- Raney, Edward J. (See Murphy, J. T., and Raney.)
- Raney, James J. (See Bellman, Edward T., assignor.)
- Raney, Murray, Chattanooga, Tenn. Producing finely divided nickel. 1,628,190; May 10.
- Rangel, Hilary, New York, N. Y. Novelty mirror. 1,651,836; Dec. 6.
- Ranger, Richard H., Brooklyn, N. Y., assignor to Radio Corporation of America. Interference-reducing means for radio receiving apparatus. 1,616,923; Feb. 8.
- Ranger, Richard H., Brooklyn, N. Y., assignor to Radio Corporation of America. Radio position finding. 1,639,607; Aug. 23.
- Ranger, Richard H., Newark, N. J., assignor to Radio Corporation of America. Ink supply for picture recorders. 1,635,977; July 12.
- Rank, Henry W. (See Rank, John and H. W.)
- Rank, John and H. W., Minneapolis, Minn. Traffic signal. 1,643,955; Oct. 4.
- Rank, John and H. W., Minneapolis, Minn. Anchoring base for traffic signals. 1,650,093; Nov. 22.
- Rankin, Carl H., Wellsburg, W. Va. Apparatus for controlling the flow of molten glass through a discharge aperture. 1,631,061; May 31.
- Rankin, David P., Kearney, Nebr. Drive belt. 1,613,193; Jan. 4.
- Rankin, Ernest L., assignor of one-half to C. W. W. Hanbridge, London, England. Gramophone. 1,646,316; Oct. 18.
- Rankin, Julian, assignor of one-half to J. Isarlsky, Louisa, Ky. Match box. 1,642,629; Sept. 13.
- Rankin, Karl L. (See Furber, J. B., and Rankin.)
- Rankin, Nathaniel A., assignor of one-half to E. B. Adams, Los Angeles, Calif. Braiding attachment. 1,616,637; Feb. 8.
- Rankin, William A. (See Frieman, J. G., and Rankin.)
- Rankin, William A., Oak Park, Ill., assignor to Edison Electric Appliance Company, Inc. Temperature indicator. 1,637,050; July 26.
- Rankin, William K. (See Hewlett, E. M., and Rankin.)
- Ranney, Clark E., Tulsa, Okla. Derrick. 1,631,156; June 7.
- Ranney, Leo, Jacksboro, Tex., assignor to Standard Development Company. Method of and apparatus for recovering oil. 1,634,235; June 28.
- Ranney, Leo, Jacksboro, Tex., assignor to Standard Development Company. Method of and apparatus for recovering oil. 1,634,236; June 28.
- Ranney, William C., Blbridge, N. Y. Holder and carrier for golf club. 1,627,459; May 3.
- Rannikko, Hjalmar W., Wilmington, Calif. Concrete-rod puller. 1,652,729; Dec. 13.
- Ransdell, Clarence C., Monroe City, Mo., assignor of one-half to W. L. Harrison, Shelbyville, and one-fourth to J. C. Delonay, Monroe City, Mo. Grate. 1,627,866; Nov. 22.
- Ransdell, Robert W., San Diego, Calif., assignor, by mesne assignments, to Apco Manufacturing Company, Providence, R. I. Combination magneto contact and oil conductor for engine crank cases. Re1,632; Jan. 11.
- Ransoff, Nathan, Cincinnati, Ohio. Building-block-molding apparatus. 1,649,731; Nov. 15.
- Ransom, Henry N., New York, N. Y. Apparatus for lubricating. 1,651,545; Dec. 6.
- Ransom, John B. (See Sibbald, C. T. A., and Ransom.)
- Ransome Concrete Machinery Company. (See Bushnell, James E., assignor.)
- Ransome, Stafford M., assignor to Barber-Colman Company, Rockford, Ill. Nut and screw feed. 1,624,676; Apr. 12.
- Ransomes & Rapier Limited. (See Ionides, Philip I., assignor.)
- Rapeport, William H., Philadelphia, Pa. Wheel construction for motor vehicles. 1,637,160; July 26.
- Raper, Charles E. (See Raper, Edward H. and C. E.)
- Raper, Edward H., Mapleton, Iowa, and C. E. Raper, Sheridan, Wyo. Ventilating closet. 1,639,966; Aug. 23.
- Raphael, Nathaniel W., South Orange, N. J. Marking and measuring device. 1,613,676; Jan. 11.
- Raphael, Nathaniel W., South Orange, N. J. Transmission chock. 1,651,227; Nov. 29.
- Rapid Addressing Machine Company. (See Geiger, Edwin A., assignor.)
- Rapid Addressing Machine Company. (See Geiger, E. A., Schragele, and Jennings, assignors.)
- Rapp, Adolf, Brooklyn, N. Y. Seeder. 1,653,228; Dec. 20.
- Rapp, Axel G. J., Chicago, Ill. Sand separator. 1,634,355; July 5.
- Rapp, Bernhard, Darmstadt, Germany. Shadow-producing agent and making the same. 1,644,446; Oct. 4.
- Rapp, Henry, Maplewood, N. J. Tobacco pipe. 1,653,508; Dec. 20.
- Rapp, William F., Chicago, Ill. Screen hanger. 1,624,881; Apr. 12.
- Rappeport, William A., and C. Hardy, New York, N. Y. Self-filler lever device for fountain pens. 1,637,202; July 26.
- Rappley, William J., Billings, Mont. Drive-shaft puller. 1,651,889; June 7.
- Rappley, Silver Creek, N. Y. Separating and grading machine. 1,645,402; Oct. 11.
- Rappold, Hermann, Duren, Germany, assignor to Zimmermann & Jansen, Gesellschaft mit beschränkter Haftung, Duren, Rheinland, Germany. Working blast heaters used in connection with blast furnaces. 1,631,950; June 7.
- Rapport, Nathan, New York, N. Y. Combined checker and chess board. Des. 74,025; Dec. 6.
- Raqué, Arthur E., Jersey City, N. J. Electric snap switch. 1,616,000; Feb. 1.
- Raqué, Arthur E. and P. E. Jersey City, N. J. Combined speed-regulating and mixing valve. 1,625,281; Apr. 19.
- Raqué, Philip E. (See Raqué, Arthur E. and P. E.)
- Rardin, W. B. (See Minor, Edward M., assignor.)
- Raschick, Charles T., St. Paul, Minn. Index. 1,619,089; Mar. 1.
- Raschick, Charles T., St. Paul, Minn. Check calculator. 1,621,686; Mar. 22.
- Raschick, Charles T., St. Paul, Minn. Bottle cover and cap remover. 1,621,902; Mar. 22.
- Raschitz, Friedrich, Ludwigshafen-on-the-Rhine, Germany. Wasp-pressing iron. 1,616,468; Feb. 8.
- Rasmussen, George A., Jr., Winnetka, Ill. Wire brush. 1,633,274; June 21.

- Rasmussen, Andrew M., Montrose, Colo. T square. 1,624,280; Apr. 12.
- Rasmussen, Albert B., Yakima, assignor of one-half to A. B. Fossee, Spokane, Wash. Pipe-laying implement. 1,636,243; July 19.
- Rasmussen, Anders, New Albany, Ind. Crew-saving device for submarines. 1,653,310; Dec. 20.
- Rasmussen, Anton M., Rockford, Ill. Ironing machine. 1,627,747; May 10.
- Rasmussen, Carl, Menlo Park, Calif. Wood-splitting machine. 1,626,162; Apr. 26.
- Rasmussen, Charles, Toledo, Ohio. Windshield. 1,615,035; Jan. 18.
- Rasmussen, Charles E. (See Jandus, H. S., and Rasmussen.)
- Rasmussen, Charles M., Seattle, Wash. Tractor-truck side plate. 1,647,540; Nov. 1.
- Rasmussen, Chester A., assignor of one-half to C. R. Butler, Long Beach, Calif. Casing wedge. 1,619,268; Mar. 1.
- Rasmussen, Eigil. (See Petersen, T. E., and Rasmussen.)
- Rasmussen, Jørgen. (See Petersen, T. E., and Rasmussen.)
- Rasmussen, Martin. (See Ritter, J., Jr., and Rasmussen.)
- Rasmussen, Martin, assignor to Hartmann Trunk Company, Racine, Wis. Trunk lock. 1,623,318; Apr. 5.
- Rasmussen, Martin, assignor to Hartmann Trunk Company, Racine, Wis. Latching device. 1,631,758; June 7.
- Rasmussen, Martin, assignor to Hartmann Trunk Company, Racine, Wis. Trunk lock. 1,632,195; June 14.
- Rasmussen, Martin, assignor to Hartmann Trunk Company, Racine, Wis. Garment retainer. 1,653,658; Dec. 27.
- Rasmussen, Sidney C. (See Horspool, F. L., and Rasmussen.)
- Rasor, Floyd O., Westerville, Ohio. Spotlight. 1,630,217; May 24.
- Rasp, John, McKeesport, Pa. Combined curtain and shade holder and rod for use therewith. 1,636,835; July 26.
- Rassmann, F., Manufacturing Company. (See Rassmann, Hugo C., assignor.)
- Rassmann, Hugo, C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Water-bowl structure. 1,652,046; Dec. 6.
- Rassnick, Abraham, Elmhurst, N. Y. Extension table. 1,621,083; Mar. 15.
- Rastetter, Harry O., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Lamp Standard. Des. 73,442; Sept. 13.
- Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,616,742; Sept. 20.
- Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,614,763; Jan. 18.
- Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,638,879; Aug. 16.
- Ratcliff, William D., London, England, assignor to Inventors' Trading Company, Limited, London, England. Guard for the wheels of vehicles. 1,625,824; Apr. 26.
- Rateike, Charles J., assignor to Chicago Forging & Mfg. Co., Chicago, Ill. Forming objects with integral cup and shank. 1,642,696; Sept. 20.
- Ratel, Maurice, New York, N. Y. Automatic stoker. 1,635,501; Oct. 12.
- Ratzenstein, William, Chicago, Ill. assignor to Cresco Creamery Supply Co. Valved outlet for Pasteurizers. 1,625,765; Apr. 19.
- Rath, Albert J., Acton, London, assignor of four-fifteenths to Gwynnes Limited, four-fifteenths to Gwynnes Engineering Company Limited, London, and two-fifteenths to W. Cannell, Oxford, England. Method and apparatus for machining spiral-tooth gears. 1,614,391; Jan. 11.
- Rathbun, Edward, Toledo, Ohio, assignor to Ingersoll-Rand Company, Jersey City, N. J., and The Rathbun-Jones Engineering Company, Toledo, Ohio. Governor regulator. 1,632,349; June 14.
- Rathbun, Edward H., Mittineague, Mass. Printer's composing stick. 1,644,033; Oct. 4.
- Rathbun, George F., Pontiac, Mich. Rotary valve. 1,635,767; July 12.
- Rathbun, George F., Pontiac, Mich. Rotary valve. 1,653,121; Dec. 20.
- Rathbun-Jones Engineering Company, The, et al. (See Rathbun, Edward, assignor.)
- Rathburn, J. R. (See Harris, Carlton G., assignor.)
- Rather, James E., Brooklyn, and F. S. Shepard, New Rochelle, assignors to Standard Oil Company of New York, New York, N. Y. Reactivating desulphurizing agents for hydrocarbon oils. 1,622,671; Mar. 29.
- Rathers, John J., assignor to Lovell Manufacturing Company, Erie, Pa. Vringer roll and making the same. 1,640,216; Dec. 23.
- Rathgeb Grate Company. (See Rathgeb, Joseph J., Jr., assignor.)
- Rathgeb, Joseph J., Jr., assignor to Rathgeb Grate Company, Incorporated, New York, N. Y. Grate for boilers. 1,648,424; Nov. 8.
- Rathjen, Lillian K. (See Rathjen, William L. and L. K.)
- Rathjen, William L. and L. K., Oakland, Calif. Hot-air device. 1,639,897; Aug. 23.
- Rathman, Gilbert, Newark, N. J., assignor to William E. Quimby, Inc., New York, N. Y. Screw pump. 1,645,349; Oct. 11.
- Rathmell, John M., assignor to Dunn Road Machinery Company, Conneaut, Ohio. Road-making machine. 1,648,913; Nov. 15.
- Ratigan, James P., Los Angeles, Calif. Beam-hanger cable eye. 1,613,847; Jan. 11.
- Ratigan, James P., Los Angeles, Calif. Beam adjuster. 1,643,588; Sept. 27.
- Ratigan, James P., Walnut Park, Calif. Beam adjuster. 1,619,216; Mar. 1.
- Ratigan, James P., Walnut Park, Calif. Cable hook. 1,625,155; Apr. 19.
- Ratigan, James P., Walnut Park, Calif. Lock pin. 1,643,586; Sept. 27.
- Ratigan, James P., Walnut Park, Calif. Connector. 1,643,587; Sept. 27.
- Ratigan, James P., Walnut Park, Calif. Beam hanger. 1,646,555; Oct. 25.
- Ratigan, James P., Walnut Park, Calif. Rod-rotating and shock-absorbing device. 1,649,078; Nov. 15.
- Ratignier, Marius, Villeurbanne, France, assignor to Anglo Shan Corporation Ltd., London, England. Knitting machine. 1,649,126; Nov. 15.
- Ratliff, Lester, Morven, N. C. Liquid-spraying machine. 1,643,813; Sept. 27.
- Ratner, Abraham J. (See Ratner, Elias, assignor.)
- Ratner, Elias, assignor of one-half to A. J. Ratner, New York, N. Y. Electric switch. 1,647,250; Nov. 1.
- Ratner, Richard I., New York, N. Y., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Drinking glass. Des. 72,158; Mar. 8.
- Ratner, Richard I., New York, N. Y., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Goblet. Des. 72,189; Mar. 8.
- Ratner, Richard I., New York, N. Y., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Goblet. Des. 72,190; Mar. 8.
- Ratner, Richard I., New York, N. Y., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Goblet. Des. 72,635; May 10.
- Ratnour, William H., Sherrill, N. Y. Light-deflecting attachment for headlights of motor vehicles. 1,638,408; Aug. 9.
- Rattay, Joseph J., McKeesport, Pa. Double-pole two-way push-button switch. 1,628,191; May 10.
- Ratterman, George B., New York, N. Y. Stand for electrically-heated utensils. 1,613,194; Jan. 4.
- Rattl, Giuseppe. (See Franchini, Oreste, assignor.)
- Ratynski, Harry, New York, N. Y. Pressure lubricator. 1,643,956; Oct. 4.
- Ratzer, John, Ridgewood, N. J. Fire-escape apparatus. 1,616,924; Feb. 8.
- Rau, Edward F., Brooklyn, N. Y. Collapsible and adjustable grate for furniture. 1,633,354; June 21.
- Rau Frazier Company. (See Reiter, Daniel I., assignor.)
- Rau, Henry V. (See Pierce, G. L., and Rau.)
- Rau, Henry V. (See Stimpson, E. B., and Rau.)
- Rau, Henry V., assignor to Edward B. Stimpson Company, Brooklyn, N. Y. Rivet. 1,638,165; Aug. 9.
- Rau, Henry V., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Golf-bag top. 1,642,043; Sept. 13.
- Rau, John, assignor to Fairmount Glass Works, Indianapolis, Ind. Glass-feeding trough. 1,647,541; Nov. 1.
- Rauch, George F., Pukwana, S. Dak. Time-operated clock. 1,631,644; June 7.
- Rauch, John D., assignor to The Ohio Steam Shovel Company, Lima, Ohio. Power shovel. 1,635,434; July 12.
- Rauch, John D., assignor to The Ohio Steam Shovel Company, Lima, Ohio. Turntable bearing device. 1,635,689; July 12.
- Rauchbach, Aaron, Newark, N. J., assignor to The Rauchbach-Goldsmith Co. Interior trunk-lock mechanism. 1,617,348; Feb. 15.
- Rauchbach-Goldsmith Co., The. (See Rauchbach, Aaron, assignor.)
- Rauchbach-Goldsmith Co., The. (See Rauchbach, Hyman, assignor.)
- Rauchbach-Goldsmith Co., The. (See Silverman, Samuel, assignor.)
- Rauchbach, Hyman, Newark, N. J., assignor to The Rauchbach-Goldsmith Co. Locking bar for drawer-holding sections of wardrobe trunks. 1,646,492; Oct. 25.
- Raugstad, John K., Grass Range, Mont. Smoking set or similar article. Des. 72,030; Feb. 15.
- Raun, Peter H., assignor to The Frederick Iron & Steel Company, Frederick, Md. Classifying or separating machine. 1,647,312; Nov. 1.
- Rauv, Anton, Cleveland, and E. B. Isaac, East Cleveland, Ohio, assignors to General Electric Company. Stem-forming machine. 1,646,258; Oct. 18.
- Raus, John, assignor to The National Formetal Company, Cleveland, Ohio. Fire extinguisher. 1,638,017; Aug. 25.
- Rausch, Roswell H. (See Greenleaf, G. E., Blood, and Rausch.)
- Rausch, Roswell H., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Control mechanism. 1,617,165; Feb. 8.
- Rauscher, Theodore, Evansville, Ind. Expansion joint for concrete work. 1,643,257; Sept. 20.
- Rautenberg, Isidor, Chicago, Ill. Folding crib. 1,639,110; Aug. 16.
- Rauter, Fred W., assignor to Leach Company, Oshkosh, Wis. Vehicle wheel. 1,627,406; May 3.

- Rauworth, Edwin S., assignor to Apollo Piano Company, De Kalb, Ill. Apparatus for leveling piano keys. 1,623,359; Apr. 5.
- Ravery, Edward J., assignor to H. H. Martin, New Albany, Ind. Channeling machine. 1,647,885; Nov. 1.
- Ravetti, Armand J., Tacoma, Wash. Route indicator for automobiles. 1,615,036; Jan. 18.
- Revineux, Pol, Neuilly-Sur-Seine, France. Closing device for belts. 1,638,023; July 26.
- Ravit, Godefroy L., Annadale, N. Y. Powder container. 1,647,886; Nov. 1.
- Ravner, Øystein. (See Halvorsen, B. F., Falck, and Ravner.)
- Ræstad, Andreas J., Fredrikstad, Norway. Clarifying and purifying liquids and waste waters. 1,619,036; Mar. 1.
- Raw, Charles, Toledo, Ohio. Sash fastener. 1,642,266; Sept. 13.
- Rawak, George, New York, N. Y. Headlight. 1,626,626; May 3.
- Rawe, Franz, Osnabrück-Schinkel, Germany. Railway buffer construction. 1,614,208; Jan. 11.
- Rawling, Arthur, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch contact. 1,626,692; May 3.
- Rawling, Francis G., Knoxville, Tenn. Improving the color of pulp. 1,630,035; May 31.
- Rawlings, Ernest J., assignor to Rawlings Manufacturing Company Limited, London, England. Latching and braking device for adjustable windows. 1,632,677; June 14.
- Rawlings, George W., East Ham, London, England. Casting in situ of concrete building structures. 1,642,893; Sept. 20.
- Rawlings, J. L., et al. (See Epperson, Charles B., assignor.)
- Rawlings Manufacturing Company. (See Latina, Harry B., assignor.)
- Rawlings Manufacturing Company Limited. (See Rawlings, Ernest J., assignor.)
- Rawlings, William E., Santa Clara County, Calif. Ant trap. 1,623,439; Apr. 5.
- Rawn, Edward V., Hopkinsville, Ky. Making ferrophosphorus. 1,613,125; Jan. 4.
- Rawolle, Frederick C., Salem, Conn. Decolorizing, treating and dissolving shellac for bleaching purposes. 1,644,491; Oct. 4.
- Rawolle, Frederick C., Salem, Conn. Centrifugal settling machine. 1,644,492; Oct. 4.
- Rawson, George A., et al. (See O'Brien, J. R., and Revell, assignors.)
- Rawson, Grant L., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,644,275; Oct. 4.
- Rawson, Edwin E., Montreal, Quebec, Canada. Picker for looms. 1,652,730; Dec. 13.
- Rawson, Frank, Rawlins, Wyo. Fire-poking apparatus. 1,651,908; Dec. 6.
- Rawson, Leslie A., Houston, Tex., assignor to Emeco Derrick & Equipment Company, Los Angeles, Calif. Anchor for crown blocks. 1,642,170; Sept. 13.
- Ray, Albert D., Cleveland, Ohio. Aeroplane. 1,622,844; Mar. 29.
- Ray, Arthur J., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Substation telephone circuits. 1,633,286; June 21.
- Ray, Arthur J., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Elapsed-time and zone metering. 1,633,678; June 28.
- Ray, Arthur J., assignor to Automatic Electric Inc., Chicago, Ill. Multifunction automatic telephone system. 1,636,648; July 19.
- Ray, Arthur J., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,646,421; Oct. 25.
- Ray, Arthur J., Chicago, Ill.; F. T. Madsen, Green Bay, Wis.; and H. F. Oberfell, River Forest, Ill., assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,624,007; Apr. 12.
- Ray, Béla, M., London, England. Accessory for use in connection with hair waving or curling appliances. 1,637,277; July 26.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Fertilizer distributor. 1,613,411; Jan. 4.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Tillage implement. 1,643,519; Sept. 27.
- Ray, Emil and H. S., Minneapolis, Minn. Weather strip. 1,646,559; Oct. 25.
- Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. 1,637,417; Feb. 15.
- Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. 1,638,785; Aug. 9.
- Ray, Fellert A., Wichita Falls, Tex. Tank for separating oil and water from gas. 1,625,052; Apr. 19.
- Ray, George I., Charlotte, N. C. Composition for stopping leaks in hot-water-circulating systems. 1,613,055; Jan. 4.
- Ray, George I., assignor to Radiator Specialty Company, Charlotte, N. C. Leak-stopping composition. 1,648,863; Nov. 8.
- Ray, George I., assignor to Radiator Specialty Company, Charlotte, N. C. Leak-stopping composition for hot-water systems. 1,648,868; Nov. 8.
- Ray, George I., assignor to Radiator Specialty Company, Charlotte, N. C. Composition for hot-water systems. 1,648,867; Nov. 8.
- Ray, George I., assignor to Radiator Specialty Company, Charlotte, N. C. Composition for repairing leaks in hot-water systems. 1,648,868; Nov. 8.
- Ray, George I., assignor to Radiator Specialty Company, Charlotte, N. C. Composition for repairing leaks. 1,648,869; Nov. 8.
- Ray, George M., Newton Center, Mass. Making shoes. 1,641,732; Sept. 6.
- Ray, George W., Forty Fort, Pa. Trackway. 1,650,041; Nov. 22.
- Ray, Harry S. (See Ray, Emil and H. S.)
- Ray, James L., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade lashing. 1,618,296; Feb. 22.
- Ray, John M., Apollo, Pa. Corn planter. 1,625,390; Apr. 19.
- Ray, Joseph L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Produced coated cores. 1,630,451; May 31.
- Ray, Joseph V., Greensboro, N. C. Auto wheel puller. 1,623,440; Apr. 5.
- Ray, Matt, Arkadelphia, Ark. Insect-destroying device. 1,633,763; June 28.
- Ray, Samuel T. (See Braswell, F. E., and Ray.)
- Ray, Thomas, Charleston, W. Va. Track extension. 1,621,687; Mar. 22.
- Ray, William A., Hempstead, N. Y., assignor to Curtiss Aeroplane & Motor Co., Inc. Aeroplane landing gear. 1,653,122; Dec. 20.
- Ray, William D., La Fayette, Ga. Truss. 1,637,130; July 26.
- Ray, William H., Monroe, Mich. Internal-combustion-engine radiator. 1,632,803; June 21.
- Ray, William H., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming apparatus. 1,643,086; Sept. 20.
- Ray, William H., Chicago, Ill., and M. L. Strawn, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Skiing apparatus. 1,643,089; Sept. 20.
- Raybestos Company, The. (See Greenstein, Philip D., assignor.)
- Raybestos Company, The. (See Stanley, Frederick C., assignor.)
- Rayburn, Alden G., Sausalito, assignor to E. Winship, San Francisco, Calif. Door opener. 1,617,864; Feb. 15.
- Raycraft, Francis J., San Francisco, Calif. Sanitary dental floss holder. 1,618,351; Feb. 22.
- Rayfield, Fred J., Chicago, Ill., assignor to Champion Pneumatic Machinery Co. Automatic air-compressor unit. 1,638,212; Aug. 9.
- Rayman, Frank, Chicago, Ill. Heater. 1,635,636; July 12.
- Raymer, Frederick J. (See Brown, D. F., and Raymer.)
- Raymer, Paul H., East Orange, N. J. Chewing gum. 1,630,731; Mar. 31.
- Raymond Bros. Engineering Co. (See Bergman, Lars H., assignor.)
- Raymond Brothers Impact Pulverizer Company, The. (See Raymond, Fred L., assignor.)
- Raymond, Edward F., Santa Fe Springs, Calif. Guide for silencers. 1,615,037; Jan. 18.
- Raymond, Fred L., River Forest, assignor to The Raymond Brothers Impact Pulverizer Company, Chicago, Ill. Stuffing box. 1,621,272; Mar. 15.
- Raymond, Gwynne, assignor to Black, Sivalis & Bryson Mfg. Co., Kansas City, Mo. Relief-valve mechanism for oil tanks. 1,645,722; Oct. 18.
- Raymond, Horace H., assignor to The Stanley Works, New Britain, Conn. Ball-bearing hinge. 1,639,633; Aug. 16.
- Raymond, Horace H., Berlin, assignor to The Stanley Works, New Britain, Conn. Ball-bearing hinge. 1,639,634; Aug. 16.
- Raymond, Joseph F., Surrey Hills, Melbourne, Victoria, Australia. Tool for weeding, cultivating, and like purposes. 1,640,094; Aug. 23.
- Raymond, Lambert L., assignor to Broderickson-Raymond Co., Minneapolis, Minn. Reflector for Christmas trees. 1,617,221; Feb. 8.
- Raymond, Lambert L., assignor to Broderickson-Raymond Co., Minneapolis, Minn. Lamp socket with leads on side. 1,632,849; June 21.
- Raymond, Lambert L., assignor to Broderickson-Raymond Co., Minneapolis, Minn. Christmas-tree reflector and lamp. 1,632,850; June 21.
- Raymond, Ward, assignor to Pennsylvania Pump & Compressor Company, Easton, Pa. Magnetically-controlled fluid valve. 1,622,672; Mar. 29.
- Raymond, Ward, assignor to Pennsylvania Pump and Compressor Company, Easton, Pa. Governor for steam-driven compressors. 1,643,129; Sept. 20.
- Raymond, Ward, assignor to Pennsylvania Pump & Compressor Company, Easton, Pa. Cooling-water-controlling means for compressors. 1,643,996; Oct. 4.
- Rayner, Albert R., Beaver, Pa. Railway-track rail. 1,638,458; Aug. 9.

- Raynolds, John F., assignor to The Parafactor Company, Minneapolis, Minn. Headlight reflector. 1,621,752; Mar. 22.
- Raynolds, Laurence, New York, N. Y. Aeroplane. 1,631,603; June 7.
- Raynor, Harold H., assignor to Les Parfums de Rosine, Inc., New York, N. Y. Box or similar container for toilet preparations. Des. 72,330; Mar. 29.
- Raynor, John S., Philadelphia, Pa. Plaster-board-fastening means. 1,640,468; Aug. 30.
- Raynor, John S., Philadelphia, Pa. Plaster-board-fastening means. 1,641,903; Sept. 6.
- Rayon, Joseph D., assignor of one-fourth to J. E. Josey, one-fourth to R. C. Miller, and one-fourth to C. C. Chinski, Beaumont, Tex. Chick-brooding machine. 1,650,042; Nov. 22.
- Raytheon Manufacturing Company. (See Bush, Vannevar, assignor.)
- Raytheon Manufacturing Company. (See Smith, Charles G., assignor.)
- Reach, George A. (See Barrett, William, assignor.)
- Reach, Milton B., assignor to Stopperless Water Bottle Company, Springfield, Mass. Closure for water bags. 1,632,457; Dec. 13.
- Reach, Milton B., Springfield, and W. W. MacDonald, Chicopee, Mass., assignors to A. G. Spalding & Bros., New York, N. Y. Valve for sport balls or fluid containers. 1,618,676; Feb. 22.
- Reach, William F., Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Racket frame. 1,618,727; Feb. 22.
- Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club shaft. 1,626,967; May 3.
- Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf club. 1,642,462; Sept. 13.
- Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club shaft. 1,644,083; Oct. 4.
- Read, Alexander M., Columbus, Ohio. Pulverizing machine. 1,614,899; Jan. 18.
- Read, Augustus R. L., Covington, Ky. Toothbrush. 1,618,476; Feb. 22.
- Read, Augustus R. L., Covington, Ky. Toothbrush. 1,636,838; July 26.
- Read, Claude C., Detroit, Mich. Doorstop. 1,634,886; July 5.
- Read, Henry, Kansas City, and S. M. Higgins, Webb City, Mo. Semimetall flexible form for floor domes. 1,619,269; Mar. 1.
- Read, Howard W., assignor to Baker-Vawter Company, Benton Harbor, Mich. Bookkeeping form. 1,630,073; May 24.
- Read, John B., Golden, and M. F. Coolbaugh, assignors to The Complex Ores Recoveries Company, Denver, Colo. Roasting. 1,644,692; Oct. 11.
- Read, Thomas T., Washington, D. C. Closure. 1,636,487; July 19.
- Read, Walter C., Bloomfield, N. J. Broom. 1,621,273; Mar. 15.
- Reader, Bose. (See Winslow, F. H., and Reader.)
- Reader, Edward C., Cleveland, Ohio. Drying apparatus. 1,639,967; Aug. 23.
- Reading Chain & Block Corporation. (See Hoffmaster, Harry W., assignor.)
- Reading Chain & Block Corporation. (See Nelles, Russell E., assignor.)
- Reading, Edward J., Paterson, N. J. Packet container. 1,636,757; July 26.
- Ready Aprom Company. (See Mercola, Michael, assignor.)
- Ready, William A., Brookline, Mass. Dial mechanism for radio apparatus. 1,653,875; Dec. 27.
- Ready, William J., assignor to American Glass Works, Incorporated, Richmond, Va. Glass bottle. Des. 73,540; Sept. 27.
- Reagan, George D., Oklahoma City, Okla. Hollow building unit. 1,633,192; June 21.
- Reagan, George D., Oklahoma City, Okla. Reinforced hollow fracture building unit. 1,633,192; June 21.
- Reagan, George D., Oklahoma City, Okla. Hollow building unit. 1,633,193; June 21.
- Reagan, George D., Oklahoma City, Okla. Building unit. 1,649,387; Nov. 15.
- Reagan, Maurice E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic reclosing-circuit interrupter. 1,638,880; Aug. 16.
- Reams, Joseph A., assignor to Fulton Brick Works, Richmond, Va. Process and apparatus for burning clay products. 1,639,271; Aug. 16.
- Reaney Limited. (See Reaney, Russell J., assignor.)
- Reaney, Russell J., assignor to Reaney Limited, Ottawa, Ontario, Canada. Mechanical means for transmitting power. 1,637,352; Aug. 2.
- Reap, Stephen J., Olyphant, Pa. Cage-locking means. 1,624,759; Apr. 12.
- Reap, Stephen J., Olyphant, Pa. Car-chocking means for mine cages. 1,635,956; July 12.
- Reardon, Robert E., Columbia, Pa. Bottle-capping utensil. 1,631,289; June 7.
- Reaser, Fred S., et al. (See Thompson, William H., assignor.)
- Reason, Walter M., assignor to Elizabeth Ballamos, Pontiac, Mich. Automobile transmission lock. 1,623,319; Apr. 5.
- Reason, Walter M., assignor to E. Ballamos, Pontiac, Mich. Transmission lock. 1,631,157; June 7.
- Reason, Walter M., assignor to E. Ballamos, Pontiac, Mich. Transmission lock. 1,641,992; Sept. 13.
- Reaveler, Emmett, Chicago, Ill. Woodwork shaper table. 1,626,153; Apr. 26.
- Reaves, William P., Greensboro, N. C. Operating headlight. 1,632,351; June 21.
- Reaves, William P., Greensboro, N. C. Optical apparatus. 1,647,016; Oct. 25.
- Reaves, William P., Greensboro, N. C. Optical apparatus. 1,647,017; Oct. 25.
- Reaves, William P., Greensboro, N. C. Eye-testing apparatus. 1,650,768; Nov. 29.
- Reaves, Wilson A., and G. P. Nicolopoulos, Sheffield, Ala. Brake-applying device. 1,614,538; Jan. 18.
- Reber, J., Los Angeles, Calif. Book sander. 1,642,171; Sept. 13.
- Rebell, Fred, North Fremantle, Australia. Concrete reinforcing bond and connector. 1,624,802; Apr. 12.
- Reber, Christian, Lincoln Park, Mich. Emergency-brake mechanism. 1,621,431; Mar. 15.
- Rebman, Ira F. (See Scrichfield, Amos J., assignor.)
- Rebner, Werner. (See Neimeier, W., Nocken, and Rebner.)
- Rebora, Stephen F., Chicago, Ill. Toaster. 1,624,182; Apr. 12.
- Reboul, Louise, St. Etienne, France. French. 1,645,999; Oct. 18.
- Reclitz, Rocco, St. Louis, Mo. Toy trundle. 1,626,756; May 3.
- Recen, Henry A. (See Carlson, H. F., and Recen.)
- Rechard, Otis H., York, Pa. Extrusion machine. 1,614,256; Jan. 11.
- Rechberg, A., Gesellschaft mit beschränkter Haftung et al. (See Bell, A., and Meyer, assignors.)
- Reck, Peter W., assignor to The Bettendorf Company, Bettendorf, Iowa. Pump loading and unloading mechanism. 1,633,035; June 21.
- Reckard, Henry L., assignor to Sloss Perfect Coffee Maker, Inc., New York, N. Y. Coffee-urn apparatus. 1,630,904; May 31.
- Reckard, Irven, Duncombe, Iowa. Snowplow. 1,619,314; Aug. 2.
- Recker, Adolph C., Oakville, assignor to Chase Companies, Inc., Waterbury, Conn. Socket casing. 1,637,874; Aug. 2.
- Reckford, John K., New York, N. Y. Pencil tip. Des. 73,670; Oct. 18.
- Reckler, Laurence L., Westwood, Calif. Liquid-control means for hydraulic brakes. 1,626,968; May 3.
- Reckmann, Hugo, Altona-on-the-Elbe, Germany. Sliding device for sails. 1,647,813; Nov. 1.
- Reckmann, Hugo, Altona-Elbe, Germany. Sliding device for sails. 1,652,957; Dec. 13.
- Record Book Cabinet Company. (See Seward, Leslie W., assignor.)
- Recording Thermometer Company. (See Frantz, Charles T., assignor.)
- Record-O-Phone Company. (See Kaplan, Jacob, assignor.)
- Recreator Phonograph Corporation. (See Antonelli, Orazio, assignor.)
- Recreation Phonograph Corporation. (See Perrault, J. A., and Lubé, assignors.)
- Rectifier Manufacturing Company. (See Wall, William G., assignor.)
- Rector, Thomas M. (See Hupfel, A. G., jr., and Rector.)
- Rector, Thomas M., New York, N. Y., assignor to Vita-pack Corporation, Hoboken, N. J. Canning process. 1,649,127; Nov. 15.
- Recurer Camilo. (See Lamarque, G., and Recuro.)
- Reddick, John C., Toronto, Ontario, Canada. Typewriter. 1,650,299; Nov. 22.
- Reddick, John J., deceased, San Francisco; J. H. Reddick, administratrix, Los Angeles, Calif. Weighing scale. 1,617,301; Feb. 8.
- Reddick, Josephine H., administratrix (See Reddick, John J.)
- Reddig, Charles E., Kew Gardens, assignor to Western Electric Company, Incorporated, New York, N. Y., Ironing machine. 1,628,996; May 17.
- Redding, James T., Wilkesboro, N. C. Calculator. 1,615,385; Feb. 1.
- Redinski, Albert J., assignor to Atlas Box Company, Chicago, Ill. Fiber-board package. 1,647,581; Nov. 1.
- Redfield, Harry B., New York, N. Y. Telephone attachment. 1,625,333; Apr. 19.
- Redfield, John H., Denver, Colo. Gun sight. 1,618,225; Feb. 22.
- Redfield, John H., Denver, Colo. Rear sight for rifles. 1,644,149; Oct. 4.
- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Two chamber clearance unloader. 1,616,988; Feb. 8.
- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. By-pass clearance unloader. 1,616,989; Feb. 8.
- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Single-end clearance unloader. 1,616,990; Feb. 8.

- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Three-chamber clearance unloader. 1,616,991; Feb. 8.
- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centralizer interlocking control for multistage compressors. 1,623,494; Apr. 5.
- Redfield Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Discharge unloader. 1,637,875; Aug. 2.
- Redford, William C., Cincinnati, Ohio. Typographical machine. 1,624,434; Apr. 12.
- Redgrave, Gilbert R., et al. (See Boswell, George B., assignor.)
- Redheffer, Charles R., Philadelphia, Pa., and H. L. Mason, New York, N. Y. Tobacco-tamping device. 1,649,614; Nov. 15.
- Redick, Frank, Parkerton, Wyo. Hydraulic swivel hook. 1,631,890; June 7.
- Redick, Frank, Parkerton, Wyo. Sand-reel bearing. 1,632,678; June 14.
- Redick, Frank, Parkerton, Wyo. Wire-jerk-line shock absorber. 1,651,069; Nov. 29.
- Redies, Edward F., and R. M. Van Valkenburgh, assignors to Irving-Bitt Manufacturing Company, Kansas City, Mo. Book holder. 1,654,191; Dec. 27.
- Redlin, Ekstrom & Company. (See Carlson, George H., assignor.)
- Redinger, Joseph M., Providence, R. I. Cutter holder. 1,615,233; Jan. 25.
- Redinger, Joseph M., Providence, R. I. Milling-machine collet and end mill. 1,618,998; Mar. 1.
- Redington, F. B., Company. (See Milmoce, Michael J., assignor.)
- Redirected Light Corporation of America. (See Whalen, Edward J., assignor.)
- Red Jacket Manufacturing Co. (See Stebbins, Timothy J., assignor.)
- Redinger, Michael, Portland, Oreg. Violin. 1,635,502; July 12.
- Redinger, Michael, Portland, Oreg., assignor to International Fruit Vending Corporation. Fruit-vending machine. 1,616,824; Feb. 8.
- Redlon, Osgood M., Bath, Me. Boiler stand. 1,622,884; Feb. 29.
- Redman, Charles H., East Orange, N. J. Golf club. 1,631,504; June 7.
- Redman, Charles H., East Orange, N. J., assignor to H. Boker & Co. Inc., New York, N. Y. Guard for hair clippers. 1,621,641; Mar. 22.
- Redman, James F., and K. W. Schmidt, Glendale, Ky. Railway-crossing surface. 1,618,948; Feb. 22.
- Redmond, Albert G., Indianapolis, Ind., assignor to J. R. Francis, Flint, Mich. Fuel-feeding system for internal-combustion engines. 1,631,984; June 14.
- Redmond, Albert G., Indianapolis, Ind., assignor to Marvel Carburetor Company, Flint, Mich. Charge-heating control for internal-combustion engines. 1,643,957; Oct. 4.
- Redmond, Albert G., Indianapolis, Ind., assignor to Marvel Carburetor Company, Flint, Mich. Throttle-valve control and heater for charge-forming devices. 1,650,156; Nov. 22.
- Redmond, Harriet L., Needham, assignor to The William Carter Company, Needham Heights, Mass. Woman's undergarment. 1,643,568; Sept. 27.
- Rednour, William H., Dugger, Ind. Railroad grass-line and ditch cutter. 1,628,805; May 17.
- Red Raven Corporation, The. (See Bitzer, Louis C., assignor.)
- Redrup, William D., assignor to The Majestic Company, Huntington, Ind. Window. 1,639,148; Aug. 16.
- Red Star Appliances, Inc. (See Eskholme, John W., assignor.)
- Red Star Appliances, Inc. (See Northrop, George E., assignor.)
- Red Sun Products Co. (See Goldman, Sigmund L., assignor.)
- Redus, James E., Memphis, Tenn. Delinter. 1,624,435; Apr. 12.
- Ree, Roeloff. (See Sommer, W. R. Ree, and Kerkhof.)
- Reece Button Hole Machine Company, The. (See Klewicz, John, assignor.)
- Reece Folding Machine Company. (See Dixon, Walter L., assignor.)
- Reece, John, et al. (See Giancola, Nicholas, assignor.)
- Reece, John A., Columbus, Nebr. Shoe protector. 1,646,281; Feb. 1.
- Reece, Joseph A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,618,107; Feb. 15.
- Reece, Joseph A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,639,466; Aug. 16.
- Reece, Joseph A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for making wire glass. 1,641,932; Sept. 6.
- Reece, Raymond H., Joliet, Ill. Timer for ignition systems and the like. 1,624,975; Apr. 19.
- Reece Shoe Machinery Company. (See Oliver, John R., assignor.)
- Reece Shoe Machinery Company. (See Zaleski, Frank, assignor.)
- Reed, Abraham, executor. (See Witham, Frederic E.)
- Reed, Albert C., New York, N. Y., assignor of one-third to T. Cotter, Jersey City, N. J., and one-third to E. L. Lasier, Claremont, N. H. Vanadium compound and making same. 1,651,967; Dec. 6.
- Reed, Anna S. (See Bullock, Jay, assignor.)
- Reed & Barton. (See Schaefer, Louis, assignor.)
- Reed, Benjamin C., Indianapolis, Ind. Joint composition. 1,651,104; Nov. 29.
- Reed, Bess L. (See Reed, Earl A., assignor.)
- Reed, A., Company. (See Jopson, William G., assignor.)
- Reed, Charles E. (See Boynton, Stanley E., assignor.)
- Reed, Charles E. (See Schultz, Herman A., assignor.)
- Reed, Charles M., Kabetown, W. Va. Artificial-minnow fishhook. 1,633,419; June 21.
- Reed, Clarence E., Wichita, Kans. (See Blauvelt, Fred K., assignor.)
- Reed, Clarence E., Wichita, Kans. Well-drilling cutter and bearing therefor. 1,636,663; July 19.
- Reed, Clarence E., Wichita, Kans. Rotary deep-well-drilling apparatus. 1,636,664; July 19.
- Reed, Clarence E., Wichita, Kans. Earth-boring drill. 1,636,665; July 19.
- Reed, Clarence E., Wichita, Kans. Earth-boring drill. 1,636,666; July 19.
- Reed, Clarence E., Wichita, Kans. Deep-well-drilling apparatus. 1,636,667; July 19.
- Reed, Clarence E., Wichita, Kans. Earth-boring tool. 1,636,668; July 19.
- Reed, Clarence E., Wichita, Kans. Deep-well rotary drilling apparatus. 1,642,463; Sept. 13.
- Reed, Clarence E., Wichita, Kans. Rotary deep-well boring and coring apparatus. 1,649,856; Nov. 22.
- Reed, Clarence E., Wichita, Kans. Deep-well boring and coring apparatus. 1,649,857; Nov. 22.
- Reed, Clarence E., Wichita, Kans. Deep-well-drilling apparatus. 1,649,858; Nov. 22.
- Reed, Clarence E., Wichita, Kans. Earth-boring drill. 1,649,859; Nov. 22.
- Reed, Clarence E., Houston, Tex. Rotary deep-well-boring apparatus. 1,653,928; Dec. 27.
- Reed, Clarence E., Houston, Tex. Rotary drilling apparatus for deep wells. 1,653,929; Dec. 27.
- Reed, Earl A., Okemah, Okla. Rotary well-drilling apparatus. 1,632,713; June 14.
- Reed, Earl A., Okemah, Okla., assignor to B. L. Reed, Houston, Tex. Deep-well rotary drilling apparatus. 1,653,876; Dec. 27.
- Reed, Edwin A. (See Wheeler, J. L., Reed, and Hosch.)
- Reed, Evan L., Chicago, Ill. Stepladder stool. 1,644,856; Oct. 11.
- Reed, Ernest C., Easton, Pa. Direct synthesis of ammonia. 1,639,272; Aug. 16.
- Reed, George E., Reed City, Mich. Tie and rail fastener. 1,615,344; Jan. 25.
- Reed, Harold J., Nashua, N. H., and C. L. Spafford, Sherbrooke, Quebec, Canada, assignors to Improved Paper Machinery Company, Nashua, N. H. Screen. 1,639,273; Aug. 16.
- Reed, Harold V., assignor to The Borg & Beck Company, Chicago, Ill. Clutch. 1,619,884; Mar. 8.
- Reed, Harold V., assignor to The Borg & Beck Company, Chicago, Ill. Friction clutch. 1,626,427; Apr. 26.
- Reed, Harrison P., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Elevator controller. 1,640,555; Aug. 30.
- Reed, Harry A., and F. J. Reilly, Jerome, Ariz. Rail roller. 1,634,513; July 5.
- Reed, Harry H. (See Gulick, R. A., and Reed.)
- Reed, James. (See Wilkinson, H., and Reed.)
- Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Applying fasteners. 1,625,957; Apr. 26.
- Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stapling machine. 1,625,958; Apr. 26.
- Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stop mechanism. 1,636,324; July 19.
- Reed, John E., Quinter, Kans. Windshield attachment. 1,635,966; July 12.
- Reed, MacDonough S., assignor to Erie Foundry Company, Erie, Pa. Power hammer. 1,653,509; Dec. 20.
- Reed Manufacturing Company. (See Petersen, Thorvald, assignor.)
- Reed, Ned S., assignor to Paige-Detroit Motor Car Company, Detroit, Mich. Cast-wheel construction. 1,626,211; Apr. 26.
- Reed Propeller Co., The. (See Reed, Sylvanus A., assignor.)
- Reed Roller Bit Company. (See Bull, Clinton H. M., assignor.)
- Reed Roller Bit Company. (See Childs, William L., assignor.)
- Reed Small Tool Works. (See De La Mater, Robert G., assignor.)
- Reed, Sylvanus A., assignor to The Reed Propeller Co., Inc., New York, N. Y. Twisting machine. 1,635,009; July 5.
- Reed, Sylvanus A., assignor to The Reed Propeller Co., Inc., New York, N. Y. Aeronautical propeller. 1,650,494; Nov. 22.
- Reed, Sylvanus A., assignor to The Reed Propeller Co., Inc., New York, N. Y. Aeronautical propeller. 1,651,152; Nov. 29.

- Reader, Charles H., St. Louis, Mo. Chaplet. 1,648,244; Nov. 8.
- Reader, Frank C., assignor, by mesne assignments to The Fulton Sylphon Company, Knoxville, Tenn. Combined temperature and pressure regulator. 1,638,596; Aug. 9.
- Reader, John J., West Union, Iowa. Headrest for barber chairs. 1,629,306; May 17.
- Reeder, Ray (See Williams, W. L., and Reeder.)
- Reeder, Thomas H., Glendive, Mont. Vehicle brake. 1,621,378; Mar. 15.
- Reedy, Alfred J., assignor to A. B. Stove Company, Battle Creek, Mich. Stove-door construction. 1,624,976; Apr. 19.
- Reedy, John H., assignor to The Champion Coated Paper Company, Hamilton, Ohio. Journal box. 1,630,026; May 24.
- Reedy, John H., Hamilton, and W. J. Licker, Cincinnati, Ohio. Soot blower. Re15,714; Aug. 23.
- Reedy, John H., and W. S. Brock, Urbana, Ill. Fungicide and preparing same. 1,620,229; Mar. 8.
- Reedy, John H., and T. A. Cape, assignors to The Champion Coated Paper Company, Hamilton, Ohio. Suction box. 1,630,027; May 24.
- Reef, Francis E., Omaha, Nebr. Tire pump. 1,625,374; Apr. 19.
- Reehorst, Edward C. (See Meyer, H. H., and Reehorst.)
- Reehsing, Ludwig, Bremen, Germany. assignor to Bror Posson, Malmö, Sweden. Absorption refrigerator. 1,626,554; Apr. 26.
- Reekie, James D., St. Paul, Minn. Gasoline gauge. 1,621,274; Mar. 15.
- Reents, Heike H., assignor of one-half to A. G. Obrecht, Havoclock, Iowa. Governor for internal-combustion engines. 1,650,043; Nov. 22.
- Rees, Alfred A., New Haven, Conn. Game apparatus. 1,637,010; July 28.
- Rees, George G. (See Johnston, C. F., and Rees.)
- Rees, William H., Berkeley, Calif. Weighing apparatus. 1,615,405; Jan. 25.
- Rees, William H., Berkeley, Calif. Weighing apparatus. 1,615,485; Jan. 25.
- Reese, Alva R. D., Bisbee, Ariz. Fluid engine. 1,640,616; Aug. 30.
- Reese, Andrew, Massillon, Ohio. Device for displaying cards, etc. 1,619,434; Mar. 1.
- Reese, Arthur S., assignor to Tygart Valley Glass Co., Washington, Pa. Decanter. Des. 74,073; Dec. 13.
- Reese, Daniel W., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Automatic sorter for punch presses. 1,620,687; Mar. 15.
- Reese, Frank, Minneapolis, Minn. Weather strip for insulating casements. 1,619,037; Mar. 1.
- Reese, Henry W. (See Kallmeyer, Ernst, assignor.)
- Reese, Issachar P. (See Truist, William F., assignor.)
- Reese, Thomas E., Baltimore, Md. Transfer holder. 1,620,984; Mar. 15.
- Reese, Thomas S., assignor to The Di-Noc Manufacturing Company, Cleveland, Ohio. Transfer print and making the same. 1,627,407; May 3.
- Reese, Warner L., Kenilridge, Pa. Variable condenser. 1,650,465; Nov. 22.
- Reeve, Charles S., Grantwood, N. J., assignor to The Barrett Company, Plastic composition. 1,643,520; Sept. 27.
- Reeve, Charles S., Grantwood, N. J., assignor to The Barrett Company, Plastic composition. 1,643,521; Sept. 27.
- Reeve, Helen, administratrix. (See Reeve, Henry E.)
- Reeve, Henry E., deceased, New York, N. Y.; H. Reeve, executrix. Thermostatic control device. 1,653,659; Dec. 27.
- Reeve, Howard T., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming refractory crucibles. 1,648,149; Nov. 8.
- Reeve, Vere L., Ballarat, Victoria, Australia. Printing press. 1,630,905; May 31.
- Reeves, Alfred, Small Heath, Birmingham, assignor of one-half to G. H. C. Butler, Birmingham, England. Re16,806; Dec. 6.
- Reeves, Darius M., Belleville, Ill. Pressure-responsive device. 1,634,961; July 5.
- Reeves, Donald H., Dayton, Ohio. Liquid-level gauge. 1,643,469; Sept. 27.
- Reeves, Frank N., Woodensburg, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective-switch-controlling system. 1,647,373; Nov. 1.
- Reeves, George G., Shreveport, La. Outlet valve. 1,626,969; May 3.
- Reeves, Lafayette A. (See Kisselburg, John W., assignor.)
- Reeves Manufacturing Company, The. (See Wendle, V. F., and Hunker, assignors.)
- Reeves, Milton O., assignor to Reeves-Pulley Company, Columbus, Ind. Variable-speed reduction gearing. 1,624,895; Apr. 12.
- Reeves, Milton O., assignor to Reeves Pulley Company, Columbus, Ind. Controller for variable-speed transmission. 1,626,299; Apr. 26.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,639,811; Aug. 23.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Indicator. 1,647,306; Nov. 1.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,647,307; Nov. 1.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,647,308; Nov. 1.
- Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Splice block for V-shaped transmission. 1,626,300; Apr. 26.
- Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Controlling the speed of driven members. 1,626,554; Apr. 26.
- Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Cone-pulley lubricator. 1,646,370; Oct. 18.
- Reeves Pulley Company. (See Reeves, Milton O., assignor.)
- Reeves Pulley Company. (See Reeves, Paul B., assignor.)
- Reeves, William B., and M. J. Poole, Whitehead, N. C. Apparatus for washing clothes. 1,626,154; Apr. 26.
- Reeves, Wilmot G., Stockbridge, Mich. Extension unit. 1,621,275; Mar. 15.
- Re Fil Broom Company, The. (See Helmer, Ralph E., assignor.)
- Refinery Supply Company, The. (See Schluter, William A. C., assignor.)
- Refrigeration Development, Inc. (See Williams, Edward T., assignor.)
- Regal Shoe Company. (See Bliss, Elmer J., assignor.)
- Regal Shoe Company. (See White, William H., assignor.)
- Regal Silver Mfg. Co. (See Danks, R. L., and Baker, assignors.)
- Regan, Patrick J., Iowa City, Iowa. Primer. 1,652,731; Dec. 13.
- Regan Safety Devices Company, The. (See Bodde, Theodore, assignor.)
- Regan Safety Devices Company. (See Kendall, A. B., and Melsel, assignors.)
- Regan Safety Devices Company, The. (See Shaver, Archibald G., assignor.)
- Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft gear. 1,629,307; May 17.
- Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft gear. 1,641,456; Sept. 6.
- Regan, William J., Wilkinsburg, assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. 1,648,525; Nov. 8.
- Regelein, Wilhelm, and A. Glaubt, Mulheim-Ruhr, Germany. Oscillation meter. 1,614,573; Jan. 18.
- Regenbogen, Conrad, Kiel, assignor to Fried. Krupp Aktiengesellschaft, Germaniawerft, Kiel-Garden, Germany. Cooling arrangement for internal-combustion engines. 1,621,560; Mar. 22.
- Regents of the University of Michigan, The. (See Firestone, Floyd, assignor.)
- Reger, Conrad, New York, N. Y. Antiskidding device for vehicle wheels. 1,653,731; Dec. 27.
- Reger, Frederick T. (See O'Dell, Charles, assignor.)
- Rehfeldt, August, Duisburg, Germany. Ironing horse for sleeves. 1,614,043; Jan. 11.
- Rehm, Heinrich, Nuremberg, Germany. Artificial knee joint. 1,619,485; Mar. 1.
- Rehder, Harold D., Lima, Ohio. Adjustable spindle bolt. 1,620,688; Mar. 15.
- Rehn, Guilherme, Porto Alegre, Brazil. Seat-operating mechanism for toilets, etc. 1,616,509; Feb. 8.
- Rehor, Charles A., Portland, Oreg. Rubber button. 1,619,541; Mar. 1.
- Rehr, Howard G., assignor to The Peerless Electric Company, Warren, Ohio. Driving connection for motor-driven fans or the like. 1,648,996; Nov. 15.
- Reiber, Albert H., assignor, by mesne assignments, to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Printing telegraphy. 1,653,606; Dec. 20.
- Reiber, Oscar C., West Webster, N. Y. Bird house. 1,634,209; June 28.
- Reich, Edwin J., Brooklyn, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry battery. 1,640,617; Aug. 30.
- Reich, Ernst. (See Friedrich, G., and Reich.)
- Reichard, Harold D., assignor to Racine Horseshoe Tire Company, Racine, Wis. Tire tread. Des. 71,986; Feb. 8.
- Reichard, Harold D., assignor to Racine Horseshoe Tire Company, Racine, Wis. Tire tread. Des. 71,992; Feb. 8.
- Reichard, Harold D., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,638; May 10.
- Reichard, Harold D., assignor to General Railway Signal Company, Rochester, N. Y. Receiver for continuous inductive train-control systems. 1,654,487; Dec. 27.
- Reichert, James H., assignor to J. L. Moore, Muncie, Ind. Electric heating devices. 1,614,434; Jan. 11.
- Reiche, Julius C., et al. (See Watson, James B., assignor.)
- Reichel, Alvin S., New York, assignor of one-third to P. B. Smith, Brooklyn, N. Y. Motor shears. 1,613,126; Jan. 4.
- Reichel, Hans, Brunswick, Germany. Hand stamp. Des. 72,276; Mar. 22.
- Reichenbach, Carl L., Yonkers, N. Y., assignor to Eclipse Air Brush Company, Newark, N. J. Spray gun. Des. 72,086; Apr. 26.
- Reichert, Paul F. (See France, C. C., and Reichert.)
- Reichhelm, George L., assignor to The Gasifier Company, Elizabeth, N. J. Burner. 1,644,010; Oct. 4.

- Reichman, George F., Philadelphia, Pa. Water heater. 1,615,486; Jan. 26.
- Reichmann, Frank J., Chicago, Ill. Loud-speaker cabinet. Des. 71,849; Jan. 11.
- Reichmann, Willy, Hamburg, Germany, assignor, by mesne assignments, to National Screen Service, Inc. Driving gear for films in projection apparatus. 1,621,334; Mar. 15.
- Reichold, Ludwig, assignor to The Fitzgerald Manufacturing Company, Winsted, Conn. Electric heating device. 1,613,770; Jan. 11.
- Reichold, Ludwig, Winsted, assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Electric toaster. 1,639,385; Aug. 16.
- Reichold, Ludwig, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Centrifugal casting apparatus. 1,634,914; July 5.
- Reichs, Julius C., et al. (See Watson, James B., assignor.)
- Reid, Ebenezer E. and G. L. Schwartz, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Cyclohexyl phthalates and making same. 1,643,393; Sept. 27.
- Reid, Fred A., St. Louis, Mo. Advertising-display device. 1,624,507; Apr. 12.
- Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Steering gear for trailers. 1,637,456; Aug. 2.
- Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Running-gear structure for vehicles. 1,640,217; Aug. 23.
- Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Locking device for semitrailers. 1,641,354; Sept. 6.
- Reid, George H., Orangeville, Ontario, Canada. Traction wheel. 1,618,949; Feb. 22.
- Reid, James, New York, N. Y. Umbrella. 1,619,217; Jan. 1.
- Reid, James E., Moorestown, N. J. Illuminated-chart-holding cabinet for oculists. 1,647,195; Nov. 1.
- Reid, James M., et al. (See Reid, James M., assignor.)
- Reid, James M., assignor to J. O. and J. M. Reid, trading under firm name J. M. and J. O. Reid, Barry Richmond, Ontario, Canada. Broom. 1,646,041; Oct. 18.
- Reid, James O., et al. (See Reid, James M., assignor.)
- Reid, James S., assignor to The Newell-Thompson Company, Cleveland, Ohio. Shock absorber. 1,649,860; Nov. 22.
- Reid, James S., assignor to The Newell Thompson Mfg. Co., Cleveland, Ohio. Drum and band structure. 1,654,192; Dec. 27.
- Reid, James W. (See Berry, H. H., and Reid.)
- Reid, John, Oil City, Pa. Safety stop device. 1,628,332; May 10.
- Reid, John, New York, N. Y. Air-draft system for furnaces. 1,646,111; Oct. 18.
- Reid, John, Glasgow, Scotland, assignor to A. E. White, London, England. Producing advertising signs in the air and product. 1,621,482; Mar. 15.
- Reid, Josiah E., and C. L. Nein, assignors to International Motor Company, New York, N. Y. Hoisting mechanism for dump trucks. 1,624,977; Apr. 19.
- Reid, Josiah E., and C. L. Nein, assignors to International Motor Company, New York, N. Y. Hoisting mechanism for dump trucks. 1,624,978; Apr. 19.
- Reid, Percy H., assignor of one-half to A. S. Piers, Montreal, Quebec, Canada. Internal-combustion engine. 1,639,898; Aug. 23.
- Reid, Robert A., Medford, Mass. Auxiliary air-inlet device for internal-combustion engines. 1,650,388; Nov. 22.
- Reid, Robert G., A. Bates, and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for sewing leather bags or similar articles. 1,614,444; Jan. 11.
- Reid, Thomas A., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace resistor. 1,645,293; Oct. 11.
- Reid, William G., Rosgen, Colo. Pump-rod lift for windmills. 1,654,093; Dec. 27.
- Reid, William L., Lima, Ohio. Locomotive steam pipes. 1,621,600; Mar. 22.
- Reier, George C., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electrical wave filter. 1,636,713; July 26.
- Reif, Allan F. (See Reif, Charles A. and A. F.)
- Reif, Charles A. and A. F., Buffalo, N. Y. Oil-feed-control valve for oil-burning apparatus. 1,613,293; Jan. 4.
- Reiffert, Wilhelm, Cologne Vingst, Germany, assignor to Dr. H. Dux Company, Inc., Jacksonville, Fla. Ball bearing. 1,644,611; Oct. 4.
- Reif, Jacob, Lakewood, assignor of one-half to Emil Greulich, Chagrin Falls, Ohio. Wall and constructing the same. 1,637,657; Aug. 2.
- Reiger, Carl S., St. Louis, Mo., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Toggle mechanism. 1,634,684; July 5.
- Reinders, Franciscus H., Soesterberg, assignor of one-half to Vereniging Vennootschap Nederlandsche Seintoestellen Fabriek Hilversum, Netherlands. Diathermy device. 1,628,806; May 17.
- Reiland, Ernest S. and P. M., St. Paul, assignors to Rayport Foundry Company, Rayport, Minn. Sashweight pulley. Re16,594; Apr. 19.
- Reiland, Ernest S. and P. M., assignors to H. L. Fischer, St. Paul, Minn. Sash-weight pulley. 1,644,276; Oct. 4.
- Reiland, Peter M. (See Reiland, Ernest S. and P. M.)
- Reiling, John J., assignor to George D. Ellis & Sons, Incorporated, Philadelphia, Pa. Measuring funnel. 1,620,689; Mar. 15.
- Reiley, Charles H., Salt Lake City, Utah. Gaming apparatus. 1,622,673; Mar. 29.
- Reilly, Alfred F., Attleboro, assignor to Evans Case Company, North Attleboro, Mass. Pocket lighter. Des. 72,965; June 28.
- Reilly, Alfred F., Attleboro, Mass. Producing the shells of metal boxes. 1,637,242; July 26.
- Reilly, Arthur, (See Coggeshall, G. W., and Reilly.)
- Reilly, Frank J. (See Reed, H. A., and Reilly.)
- Reilly, Frank C., New York, N. Y. Wrench. 1,624,508; Apr. 12.
- Reilly, Hugh P., Philadelphia, assignor to The Electric Generator Corporation, Pittsburgh, Pa. Motor suspension for electrically-driven vehicles. 1,651,153; Nov. 29.
- Reilly, John B., Whittier, and C. H. Stone, Brea, assignors to Kammerer Corporation, Santa Fe Springs, Calif. Tool for cutting and removing pipe from wells. 1,625,391; Apr. 19.
- Reilly, John B., Whittier, and C. H. Stone, Brea, assignors to Kammerer Corporation, Santa Fe Springs, Calif. Tool for cutting and removing pipe from wells. 1,625,392; Apr. 19.
- Reilly, John B., Whittier, and C. H. Stone, Brea, assignors to Kammerer Corporation, Santa Fe Springs, Calif. Tool for cutting pipe in wells. 1,625,393; Apr. 19.
- Reilly, Michael K. (See Svenson, Sven, assignor.)
- Reilly, Rodolphe R., Port Washington, assignor to Angel International Corporation, New York, N. Y. Died-out blank for receipts. 1,623,269; Apr. 5.
- Reilly, Thomas A., Cleveland, Ohio, assignor, by mesne assignments, to The Federal Foundry Supply Company, Air cleaner. 1,639,467; Aug. 16.
- Reilly, William, White Plains, N. Y. Fish scaler. 1,645,970; Oct. 18.
- Reilly, William, White Plains, N. Y. Machine for forming hamburger steaks. 1,651,040; Nov. 29.
- Reilly, William A., Wyoming, Pa. Coal jig. 1,646,422; Oct. 25.
- Reilly, William J., Brooklyn, N. Y. Matting. 1,615,650; Jan. 25.
- Reiman, William H., Oswego, N. Y. Gauge. 1,650,653; Nov. 29.
- Reimer, Georg. (See Singer, K., Paschen, and Reime.)
- Reimer, Fred C., Co. Inc. (See Schmidt, Ferdinand, assignor.)
- Reimer, Jorgen A., and H. C. Hansen, Elk Horn, Iowa. Draft diver for harrows. 1,629,529; May 24.
- Reimers, Alfred E., Harrington Park, and W. K. Tavender, Holworth, N. Y. Heating device for hair treatment. 1,647,748; Nov. 1.
- Reimers, Louis, and N. Erickson, Dalton, Nebr. Harrow tooth. 1,622,343; Mar. 29.
- Rein, Edward A., assignors of one-third to H. W. Irwin and one-third to E. F. Laidy, Seaside Heights, N. J. Liquid gauge. 1,646,317; Oct. 18.
- Rein, Edward A., H. W. Irwin, and A. F. Laidy, Seaside Heights, N. J. Wiper for gauge rods. 1,652,875; Dec. 13.
- Rein, George, Baltimore, Md. Apparatus for printing from negatives onto sensitized surfaces. 1,646,595; Oct. 25.
- Reinbold, Frank, Sheboygan, Wis. Method and apparatus for sealing fruit jars. 1,621,132; Mar. 15.
- Reinbold, Herman, Omaha, Nebr. Preparing a medium for treatment of water. 1,646,596; Oct. 25.
- Reinecke, August, Furstenwalde, assignor to Julius Pintsch Aktiengesellschaft, Berlin, Germany. Valve. 1,616,228; Feb. 1.
- Reinecke, John P., assignor to The Hoffman Heater Company, Louisville, Ky. Water-heating coil. 1,646,560; Oct. 25.
- Reineke, Charles, assignor to The Reineke Motor Corporation, New York, N. Y. Multicylinder internal-combustion engine. 1,629,530; May 24.
- Reineke, Charles, assignor to The Reineke Motor Corporation, New York, N. Y. Internal-combustion engine. 1,630,311; May 31.
- Reineke, Josef H., Bochum, Germany. Apparatus for regulating air supply. 1,645,350; Oct. 11.
- Reineke Motor Corporation, The. (See Reineke, Charles, assignor.)
- Reiner, Leo A., Detroit, Mich. Transmission band. 1,614,084; Jan. 11.
- Reiners, Wilhelm, and G. Kahlisch, assignors to W. Schlafhorst & Co., Munich-Gladbach, Germany. Bobbin-driving shaft for winding frames and its bearing arrangement. 1,638,060; Aug. 9.
- Reinforced Paper Bottle Corporation. (See Koch, Lydia B., assignor.)
- Reinhard, Frank, Eau Claire, Wis. Gear-shift stop. 1,619,955; Mar. 8.
- Reinhardt, Christian, and B. Pelz, New York, N. Y. Movable doll eyes. 1,619,763; Mar. 8.
- Reinhart, James H., East Orange, N. J., assignor to American Bank Note Company, New York, N. Y. Numbering machine. 1,635,503; July 12.
- Reinhardt, Louis W., Brockton, Mass. Display form and making the same. 1,623,931; Apr. 5.

- Reinhardt, Otto, Central Falls, R. I. Curtain-rod holder. 1,646,360; Oct. 13.
- Reinhardt, Otto, Central Falls, R. I. Shade and curtain-rod holder. 1,649,079; Nov. 15.
- Reinhart, Adolf, Hoboken, N. J. Fish boat. 1,619,762; Mar. 1.
- Reinhold, Arno, Cleveland, Ohio. Hair protector. 1,618,297; Feb. 22.
- Reinhold, Oscar, Downers Grove, assignor to Churchill Cabinet Company, Chicago, Ill. Radiocabinet. Des. 73,943; Nov. 22.
- Reinhold, Oscar, Downers Grove, assignor to Churchill Cabinet Company, Chicago, Ill. Radiocabinet. Des. 73,944; Nov. 22.
- Reiniger, Gebbert & Schall Aktiengesellschaft. (See Zacher, Franz, assignor.)
- Reinke, Eugene A., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Designation device. 1,644,084; Oct. 4.
- Reinke, John C., Jr., Pulaski, Wis. Supporting device. 1,620,288; Mar. 8.
- Reinke, William A. (See Penny, V. E., and Reinke.)
- Reinstrom, Gustav, Wandsbek, near Hamburg, Germany. Anodic-current accumulator battery. 1,653,731; Dec. 27.
- Reintjes, George P., Kansas City, Mo. Arch and tile for forming same. 1,618,780; Feb. 22.
- Reintjes, George P., Kansas City, Mo. Corner-fill furnace-wall construction. 1,619,270; Mar. 1.
- Reintjes, George P., Kansas City, Mo. Tile arch. 1,648,363; Nov. 8.
- Reis, G. & Bros., Inc. (See Reis, Julius M., assignor.)
- Reis, G. & Bros., Inc. (See Reis, J. M., and Businger, assignors.)
- Reis, Gale G., Duluth, Minn. Device for cleaning gas-valve seats. 1,648,150; Nov. 8.
- Reis, Julius M., assignor to G. Reis & Bros., Inc., New York, N. Y. Operating upon label tape. 1,642,387; Sept. 13.
- Reis, Julius M., and E. F. Businger, assignors to G. Reis & Bros., Inc., New York, N. Y. Apparatus for operating upon labels. 1,642,386; Sept. 13.
- Reischl, Ludwig, assignor to Bing Werke, vorm. Gebr. Bing & Co., Nuremberg, Germany. Key mechanism for typewriting machines. 1,613,195; Jan. 4.
- Reischl, Ludwig, assignor to Bing Werke (formerly Gebrüder Bing & Co.), Nuremberg, Germany. Child's typewriting machine. 1,634,685; July 5.
- Reischl, Ludwig, assignor to Bing Werke, Nuremberg, Germany. Child's typewriting machine. 1,634,726; July 5.
- Reischl, Ludwig, assignor to Bing Werke, Nuremberg, Germany. Child's typewriting machine. 1,634,726; July 5.
- Reiser, Alfred W., Toledo, Ohio. Electric connector for branch circuits. 1,626,875; May 3.
- Reiser, John A., Port Jervis, N. Y. Smoker's pipe. 1,619,090; Mar. 1.
- Reisert, Mathias, Brooklyn, N. Y. Ornament. 1,629,531; May 24.
- Reisfeld, Louis, Chicago, Ill. Coupling. 1,636,706; July 26.
- Reisinger, Everett E., Los Angeles, Calif., and W. H. Reisinger, Portland, Ore. Headlight pilot. 1,613,805; Jan. 11.
- Reisinger, Walter H. (See Reisinger, Everett E. and W. H.)
- Reisler, Simon. (See Lapenta, V. A., and Reisler.)
- Reiss, Elias and Company. (See Kirchhoff, Ernest, assignor.)
- Reiss, Frank A., Medimont, Idaho. Handle for shipping baskets. 1,622,874; Mar. 29.
- Reiss, Louis, Ryan, Iowa. Combination label. 1,620,833; Mar. 15.
- Reiss, Winold, New York, N. Y., assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa. Towel. Des. 73,541; Sept. 27.
- Reisz, Eugen, Berlin-Dahlem, Germany. Diaphragmless microphone. 1,634,210; June 28.
- Reisz, Eugen, Berlin-Dahlem, Germany. Nonresonant diaphragm. 1,637,243; July 26.
- Reiter Company. (See McGill, Chester T., assignor.)
- Reiter, Daniel I. (See White, M., and Reiter.)
- Reiter, Daniel I., New York, N. Y. Fastening device. 1,616,660; June 21.
- Reiter, Daniel I., New York, N. Y. Fastening device. 1,619,764; Mar. 1.
- Reiter, Daniel I., New York, N. Y. Handle for hand bags and the like. 1,639,574; Aug. 16.
- Reiter, Daniel I., New York, N. Y., assignor to Rau Fastener Company, Providence, R. I. Snap fastener. 1,612,943; Jan. 4.
- Reiter, John M., C. Nanney, and J. F. Payne, Auburn, Wash. Roller-bearing remover. 1,612,884; Jan. 4.
- Reiter, John M., Auburn, assignor of one-third to P. Barnes, Seattle, Wash. Roller-bearing sleeve extractor. 1,654,310; Dec. 27.
- Reiter, Philip, New York, N. Y. Safety back device for ear ornaments. 1,649,187; Nov. 15.
- Reiter, William J., et al. (See Stitt, Charles M., assignor.)
- Reitz, Albert F., Kansas City, Mo. Dilator. 1,628,272; May 10.
- Reitz, Albert F., Kansas City, Mo. Dilator. 1,629,119; May 17.
- Reitz, Charles J. (See Gries, Frank X., assignor.)
- Reitz, Jacob J., assignor of one-fourth to R. D. McDowell, Akron, Ohio. Pattern and making the same. 1,649,262; Nov. 15.
- Reitel, Albert E. (See Tucker, Pinkney R., assignor.)
- Rekar, Jay J., Los Angeles, Calif. Illuminating and heating device. 1,631,645; June 7.
- Rekar, Jay J., assignor to De Luxe Lamp Mfg. Co., Los Angeles, Calif. Therapeutic treatment and dressing-room apparatus. 1,617,028; Feb. 8.
- Rekar, Jay J., assignor to De Luxe Lamp Mfg. Co., Los Angeles, Calif. Incandescent-lamp structure. 1,637,786; Aug. 2.
- Rekewitz, Charles, Racine, Wis. Lavatory. 1,626,155; Apr. 26.
- Relay Automatic Telephone Company, The. (See Moridin, Ralph, assignor.)
- Relay Automatic Telephone Company, The. (See Rausseau, Ernest J. C., assignor.)
- Reliable Knitting Works. (See Rosenberg, S., and Joha, assignors.)
- Reliable Machine Company, The. (See Martindale, Charles A., assignor.)
- Reliable Mfg. Company. (See Herman, Claude A., assignor.)
- Reliance Company, The. (See Wilms, Gustav O., assignor.)
- Reliance Elevator Co. (See Anderson, John C. A., assignor.)
- Reliance Manufacturing Company. (See Watson, Otto P., assignor.)
- Reliance Pump and Machine Company, The. (See Ingram, Walter M., assignor.)
- Reliance Storage and Warehouse Company. (See Sinclair, Cyril C., assignor.)
- Relich, Kosta, New York, N. Y. Fur knife. 1,629,412; May 17.
- Relief Society for the Aged. (See Sprague, Alonzo B., assignor.)
- Relier, Edwin L. (See Watters, L. A., Lloyd, and Relier.)
- Relea, Jessie E., assignor by mesne assignments, to Bonnie Bell Company, Binghamton, N. Y. Decorative fireplace. Des. 73,867; Nov. 15.
- Remas, Isidore T., Woodhaven, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. 1,630,094; May 24.
- Remas, Isidore T., Woodhaven, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. 1,632,350; June 14.
- Rembrandt Lamp Corporation. (See Rothbart, Max, assignor.)
- Remde, Edward H. (See Hertner, J. H., and Remde.)
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,620,038; Mar. 8.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Switch mechanism. 1,620,167; Mar. 8.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Steerable wheel construction. 1,623,554; Apr. 5.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,626,555; Apr. 26.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,654,470; Dec. 27.
- Remhof, Charles, Brooklyn, N. Y. Traverse cord grip for curtains, draperies, and the like. 1,653,586; Dec. 20.
- Remington Accounting Machine Corporation. (See Barr, John H., assignor.)
- Remington Accounting Machine Corporation. (See Wahl, John C., assignor.)
- Remington Arms Company. (See Dickerman, John A., assignor.)
- Remington Arms Company. (See Du Grenier, Arthur, assignor.)
- Remington Arms Company. (See Fuller, Frederick L., assignor.)
- Remington Arms Company. (See Lippert, Walter E., assignor.)
- Remington Arms Company. (See Loomis, Crawford C., assignor.)
- Remington Arms Company. (See Marshall, Norman, assignor.)
- Remington Arms Company. (See Tillmanns, Carl W., assignor.)
- Remington Arms Company. (See Valpey, Arthur L., assignor.)
- Remington-Noiseless Typewriter Corporation. (See Going, George G., assignor.)
- Remington Rand Inc. (See Dawson, George H., assignor.)
- Remington Rand Inc. (See Johnston, William F., assignor.)
- Remington Rand Inc. (See Landsiedel, Walter W., assignor.)
- Remington Rand Inc. (See Ohnstrand, Enoch, assignor.)
- Remington-Rand Inc. (See Rand, James H., assignor.)
- Remington Rand Inc. (See Rand, J. H., Jr., and Hutchings, assignors.)
- Remington Rand, Inc. (See Watters, L. A., and Lloyd, assignors.)
- Remington Typewriter Company. (See Barney, Edwin E., assignor.)

- Remington Typewriter Company. (See Bridgewater, Herbert E., assignor.)
- Remington Typewriter Company. (See Burns, Cloyd E., assignor.)
- Remington Typewriter Company. (See Hart, Frederick A., assignor.)
- Remington Typewriter Company. (See Jones, Robert M., assignor.)
- Remington Typewriter Company. (See Lewis, Richard J., assignor.)
- Remington Typewriter Company. (See Shepard, Herbert C., assignor.)
- Remington Typewriter Company. (See Smith, Charles B., assignor.)
- Remington Typewriter Company. (See Vergara, Gaspar B., assignor.)
- Remington Typewriter Company. (See Walsoe, S. L., and Hill, assignors.)
- Renne, Louis J., assignor of one-half to A. Maier. Newark, N. J. Reed-bending and tuft-forming apparatus. 1,614,355; Oct. 4.
- Rémondy, Léon E., Paris, France. Percussion fuse for projectiles, aerial bombs, and the like. 1,650,300; Nov. 22.
- Rennick, John, Ranger, Tex. Refrigerant container for cooling apparatus. 1,617,650; Feb. 15.
- Remy, Benjamin P., Indianapolis, Ind. Electric generator. 1,621,469; Mar. 15.
- Remy, Benjamin P., Indianapolis, Ind. Magneto. 1,623,270; Apr. 5.
- Remy, Franz, Fosses-lez-Namur, Belgium. Electric traction system for agricultural implements. 1,625,744; Apr. 19.
- Remy, Franz, Fosses-lez-Namur, Belgium. Pressure and suction distributing mechanism. 1,644,792; Oct. 11.
- Renard, Ferdinand. (See Renard, Pierre and F.)
- Renard, Inc. (See Todd, Paul H., assignor.)
- Renard, Pierre and F., assignors to Société Renard Frère et Fils, Nonancourt, France. Power loom for carpets. 1,622,123; Mar. 22.
- Renard, Edwin C., St. Joseph, Mo. Automobile steering mechanism. 1,617,458; Feb. 15.
- Renault, Louis. (See Salves, Léon, assignor.)
- Renaux, Eugène P., Paris, France, assignor to Bendix Brake Company, Chicago, Ill. Servo-expanded brake. 1,629,532; May 24.
- Renaux, Eugène P., Paris, France, assignor to Bendix Brake Company, Chicago, Ill. Compound brake. 1,639,149; Aug. 16.
- Rendleman, Norman C., Dormont, Pa. Manufacture of flanged beams with thin webs. 1,623,272; Apr. 5.
- Rendleman, Norman C., Dormont, Pa. Rolling flanged beams. 1,623,273; Apr. 5.
- Rendleman, Norman C., Dormont, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Manufacture of flanged beams. 1,623,271; Apr. 5.
- Renahan, Claude R., Texas City, Tex. Cut-off. 1,619,956; Mar. 8.
- Renfro, Eugene H., Offerle, Kans. Mail box. 1,629,735; May 24.
- Renholdt, John E., Stratford, Conn. Control mechanism. 1,620,230; Mar. 8.
- Renholdt, John E., Stratford, assignor to Dictaphone Corporation, Bridgeport, Conn. Speed-control mechanism. 1,625,093; Apr. 19.
- Renick, Morris W. (See Kelly, Charles C., assignor.)
- Renna, Luigi. (See Renna, Simone and L.)
- Renna, Simone, Brooklyn, and L. Renna, New York, N. Y. Fan attachment for sewing machines. 1,636,758; July 26.
- Renner, Frank J., Madison, Wis., assignor, by mesne assignments, to F. B. Smith, Washington, D. C. Radio-grafonola. Re-16,728; Aug. 30.
- Renner, James S. (See Adamson, Charles E., assignor.)
- Rennie, John A. (See Cooke, C. J., and Rennie.)
- Reno, Leo, Flint, Mich. Lathe. 1,622,292; Mar. 29.
- Renon, Frederick G., Cardiff, assignor to Australian Bituminous Compounds Limited, Melbourne, Australia. Asphalt or bitumen substitute. 1,649,545; Nov. 15.
- Renshaw, Arnold. (See Fairbrother, T. H., and Renshaw.)
- Renshaw, Bartholomew, Glenbrook, Conn. Weaving narrow width warps and machine for carrying out such method. 1,622,542; Mar. 29.
- Renshaw, Clarence, deceased, M. B. Renshaw, executrix, assignor to National Metal Molding Company, Pittsfield, Pa. Orlet box. 1,638,510; Aug. 9.
- Renshaw, Maudie B., executrix. (See Renshaw, Clarence.)
- Renton, Henry N., assignor to J. S. Thoru Company, Philadelphia, Pa. Casement window. 1,614,435; Jan. 11.
- Renton, Ralph W., Haverhill, Mass. Card-index holder. 1,610,825; Feb. 15.
- Rentschler, Harvey C. (See Marden, J. W., and Rentschler.)
- Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. High-frequency lamp. 1,616,001; Feb. 15.
- Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Treatment of vacuum devices to remove occluded gases therefrom. 1,616,431; Feb. 15.
- Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. High-voltage electron device. 1,626,693; May 3.
- Rentschler, Harvey C., and J. W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company. Target for X-ray tubes. 1,625,426; Apr. 19.
- Rentschler, Harvey C., and J. W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company. Target for X-ray tubes. 1,625,427; Apr. 19.
- Rentschler, Harvey C., and J. W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company. Pre-Rentschler, Harvey C., and J. W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company. Preparing uranium in a coherent mass. 1,648,962; Nov. 15.
- Rentschler, Mahlon J., Willoughby, assignor of one-third to W. R. Jeavons, Cleveland Heights, and one-third to N. S. Jeavons, Mentor, Ohio. Refractory body and producing the same. 1,653,123; Dec. 20.
- Renwick, Charles S. (See Tittlemore, F. A., and Renwick.)
- Renwick, Frederick W., Camden, N. J. Dial for radio apparatus. 1,637,051; July 26.
- Renz, George H., Newark, N. J. Game. 1,637,278; July 26.
- Renz, Joseph P., Brooklyn, N. Y., Attachment for sheeting machines. 1,642,746; Sept. 20.
- Renzo, Francesco, Paterson, N. J. Shuttle-tension device. 1,647,545; Nov. 1.
- Renzulli, Francesco, Newark, N. J. Vehicle bumper. 1,622,050; Mar. 22.
- Reo Motor Car Company. (See Jeffries, Schuyler A., assignor.)
- Repass, George E. (See Brown, L. H., and Repass.)
- Repass, Theodore, Los Angeles, Calif. Separable connector for sectional containers and supports. 1,648,591; Nov. 8.
- Repenstein-Veeder Co. (See Blum, Sidney J., assignor.)
- Repluta Corporation, The. (See Birney, Austin D., assignor.)
- Replogle, Frederick G., et al. (See Replogle, Ulysses G., assignor.)
- Replogle, John R., assignor, by mesne assignments, to Electric Refrigeration Corporation, Detroit, Mich. Valve mechanism. 1,615,406; Jan. 25.
- Replogle, John R., assignor to Electric Refrigeration Corporation, Detroit, Mich. Valved fitting for refrigerating apparatus. 1,634,628; July 5.
- Replogle, Ulysses G., assignor, by mesne assignments, to Electric Refrigeration Corporation, Detroit, Mich. Damper for ventilator openings. 1,652,216; Dec. 13.
- Replogle, Ulysses G., assignor of forty one-hundredths to H. E. Jaquette, twenty-five one-hundredths to F. G. Replogle, twenty-five one-hundredths to J. W. Brown, and ten one-hundredths to A. G. Jaquette, Toledo, Ohio. Automobile tire-alarm mechanism. 1,618,352; Feb. 22.
- Reppert, Hugh E., Washington, D. C. Electric condenser. 1,625,094; Apr. 19.
- Reppert, Charles M. (See Brown, N. F., and Reppert.)
- Republic Brass Company. (See Bloch, Leon, assignor.)
- Republic Brass Company, The. (See Bloch, Leon, assignor.)
- Republic Flow Meters Co. (See Cunningham, Arthur B., assignor.)
- Republic Rubber Company, The. (See McKinney, Carlos J., assignor.)
- Republic Rubber Corporation, The. (See Dumbleton, Harold F., assignor.)
- Re Qua, Frederick L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulation of electric circuits. 1,625,282; Apr. 19.
- Regus, Reginald C., Cold Spring Harbor, N. Y. Literary savings device. 1,625,053; Apr. 19.
- Reschke, William F., Wichita, Kans. Shock absorber for oil-well pump rods. 1,638,213; Aug. 9.
- Reschke, William F., Wichita, Kans. Gearing for oil-well rigs. 1,645,623; Oct. 18.
- Research, Incorporated. (See Pratt, William B., assignor.)
- Resek, Marc. (See Chadwick, L. S., Resek, and Dahlstrom.)
- Resek, Marc, East Cleveland, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio. Thermostatically-controlled water-heating system. 1,621,601; Mar. 22.
- Resh, George O., Cory, Colo. Fruit-packing device. 1,617,963; Feb. 15.
- Resines, Francis J., assignor to By-Products Recovery Company, Philadelphia, Pa. Refining oils. 1,619,486; Mar. 1.
- Respass, William R., St. George, N. Y., assignor, by mesne assignments, to Band Laboratories, Inc., Newark, N. J. Acoustic horn. 1,646,707; Oct. 25.
- Respro Inc. (See Abbott, Royal K., assignor.)
- Restein, Clement, Hattboro, Pa. Fiber packing. 1,625,095; Apr. 19.
- Restor, Henry R., and G. B. Wreckley, Bogalusa, La. Locomotive railway attachment for tractors. 1,618,023; Feb. 15.
- Retallack, John R., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing device for testing register senders. 1,628,997; Nov. 17.
- Rettedal, Olaf, and N. J. Nelson, Minneapolis, Minn. Ellipsograph. 1,644,205; Oct. 4.
- Rottenmeyer, Francis X., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. System for wave analysis. 1,636,436; July 19.
- Retterer, Ray W. (See Murphy, F. K., and Retterer.)

- Letterer, Raymond W. (See Murphy, F. K., and Letterer.)
 Rettig, Max R., Koenigsberg, assignor to Festbaukasten Gesellschaft, mit beschränkter Haftung, Berlin, Germany. Producing models of buildings and the like. 1,619,435; Mar. 1.
 Rettman, Mike F., Kimberly, Wis. Door holder. 1,650,654; Nov. 29.
 Reitz, Andrew J., assignor, by mesne assignments, to R. H. Hoeann & Co., Inc., New York, N. Y. Guard for planing machines and the like. 1,630,671; May 31.
 Reitzlauff, John, Omaha, Nebr. Window fastener. 1,622,808; Mar. 29.
 Reubel, Henry, Company. (See Crawford, James O., assignor.)
 Reusens, Emmanuel, Washington, D. C. Check protector. 1,627,619; May 10.
 Reuleke, Charles F., Philadelphia, Pa. Hat protector. 1,618,781; Feb. 22.
 Reuse, Joseph C., Libertyville, Ill. Checkrow planter. 1,626,012; Apr. 26.
 Reuss, Arthur E., Cincinnati, Ohio. Radiocabinet. 1,619,225; Feb. 1.
 Reuter, John, Jr., Dickinson, N. Dak. Golf club. 1,615,038; Jan. 13.
 Reuther, Howard J. (See Reuther, John and H. J.)
 Reuther, John and H. J., East Aurora, N. Y. Dispensing apparatus. 1,635,287; June 21.
 Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,629,966; May 24.
 Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Combined refill and puff holder. 1,644,085; Oct. 4.
 Revell, Wilfred. (See O'Brien, J. R., and Revell.)
 Reyelle, George H., Seattle, Wash. Telephone dial-setting apparatus. 1,647,543; Nov. 1.
 Reverse Rubber Company, The. (See McGavack, John, assignor.)
 Rex Manufacturing Co., The. (See Custerbender, John M., assignor.)
 Revolutionary Oil Well Tool Company. (See Dougherty, Charles T., assignor.)
 Rewett, Carl J., Los Angeles, Calif. Chain wrench. 1,643,825; Sept. 27.
 Rex, Harry H., assignor of one-third to A. Slavin and one-third to F. R. Slavin, Yakima, Wash. Rotary pump. 1,647,309; Nov. 1.
 Rex Manufacturing Company. (See Benjamin, John P., assignor.)
 Rex Manufacturing Company. (See Hull, Matthew R., assignor.)
 Rex Manufacturing Company. (See Hull, Robert W., assignor.)
 Rex Manufacturing Company. (See Hull, M. R., and Money, assignors.)
 Rex Manufacturing Company. (See Miller, F. V., and Crawford, assignors.)
 Rex Manufacturing Company. (See Patten, Charles H., assignor.)
 Rex Products Co. (See Hontz, Harry E., assignor.)
 Rex, Ralph K., Cleveland Ohio. Finger-nail trimmer. 1,629,987; May 24.
 Rex Research Corporation. (See Hedenburg, Oscar F., assignor.)
 Rey, Augustin, Sains, France. Pump. 1,624,363; Apr. 12.
 Reyes, José de L., Los Angeles, Calif. Article of jewelry. 1,625,375; Apr. 19.
 Reyes, Joseph M., Poughkeepsie, N. Y. Combined camera and projector. 1,647,814; Nov. 1.
 Reymondet, Louis, St. Claude, France. Pipe. Des. 73,443; Sept. 13.
 Reynard, Otto. (See Thornley, F. C., Tapping, and Reynard.)
 Reyer, Cdo, Turin, Italy. Spoked wheel constructed of pressed or stamped metal sheets. 1,613,127; Jan. 4.
 Reynolds, Adrian R. (See Lorraine, David G., assignor.)
 Reynolds, Boyce W., Morgantown, W. Va. Garbage receptacle. 1,612,986; Jan. 4.
 Reynolds, Charles H., Canton, Ohio. Bearing. 1,629,413; May 17.
 Reynolds, Charles L., Seattle, Wash., assignor to myself and W. E. Smith. Drive for transit concrete mixers. 1,636,926; July 26.
 Reynolds, Daniel L., Los Angeles, Calif. Nonstretchable mattress. 1,642,557; Sept. 13.
 Reynolds, De Elbert A., Yonkers, N. Y. Electric welding tool. 1,617,354; Feb. 15.
 Reynolds, De Elbert A., Yonkers, N. Y. Ear phone. 1,630,028; May 24.
 Reynolds, De Elbert A., Yonkers, N. Y. Telephone receiver. 1,633,194; June 21.
 Reynolds, Edward P. (See Beyland, S. A., and Reynolds.)
 Reynolds Electric Company. (See Olson, Waldemar N., assignor.)
 Reynolds, Eugene, Albuquerque, N. Mex. Demountable rim. 1,630,630; Mar. 31.
 Reynolds, Frank D. (See Davis, E. W., and Reynolds.)
 Reynolds, Frank D., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,642,558; Sept. 13.
 Reynolds, Frederick D., et al. (See Frink, Melvin L., assignor.)
 Reynolds Gas Regulator Co. (See Gaunt, F., Reynolds, and Hughes, assignors.)
 Reynolds, George A., Syracuse, N. Y. Exercising apparatus. 1,641,355; Sept. 6.
 Reynolds, George W., Los Angeles, Calif. Lamp-post. Des. 73,193; Aug. 2.
 Reynolds, H. M., Shingle Company. (See Judkins, Orlo W., assignor.)
 Reynolds, Henry L., Seattle, Wash. Stump burner. 1,627,507; May 10.
 Reynolds, Henry W., and R. H. Jenkins, Roanoke, Va., assignor to National Manufacturing Company, New York, N. Y. Oil cap. 1,613,482; Jan. 4.
 Reynolds, James, and J. Wilson, Cleveland, Ohio; said Wilson assignor of his entire right to Reynolds. Beam and joist chair. 1,615,651; Jan. 25.
 Reynolds, James W., and C. L. Ball, Chester, Nebr. Rail spike. 1,621,001; Mar. 15.
 Reynolds, John, assignor to Butler Mill, New Bedford, Mass. Pattern mechanism for dobbies. 1,622,344; Mar. 29.
 Reynolds, John, assignor to Butler Mill, New Bedford, Mass. Pattern mechanism for dobbies. 1,622,345; Mar. 29.
 Reynolds, John J., New York, N. Y. Food product. 1,647,749; Nov. 1.
 Reynolds, Joseph H., Bristol, Tenn. Automatic gluing machine for applying paper to wood. 1,620,570; Mar. 8.
 Reynolds, Joseph S., Long Beach, Calif. Rotary scraper with automatic elevating control. 1,643,828; Sept. 20.
 Reynolds, Joy S., assignor of one-half to C. A. Balcom, San Francisco, Calif. Hydraulic unit. 1,636,488; July 19.
 Reynolds Machine Company, The. (See Steen, James C., assignor.)
 Reynolds, Moore M., Dawmont, W. Va. Gas-separating apparatus. 1,623,636; Apr. 8.
 Reynolds, Myron B. (See Gaunt, F., Reynolds, and Hughes.)
 Reynolds, Palmer W., Bronxville, N. Y. Control circuits. 1,628,192; May 10.
 Reynolds Spring Company. (See Carling, Arthur, assignor.)
 Reynolds Spring Company. (See He, William, assignor.)
 Reynolds Spring Company. (See Kolsmith, George, assignor.)
 Reynolds Spring Company. (See Mann, George, assignor.)
 Reynolds Spring Company. (See Palmer, Harry A., assignor.)
 Reynolds Spring Company. (See Tiffany, Harry J., assignor.)
 Reynolds Spring Company. (See Van Hove, Desire H., assignor.)
 Reynolds Spring Company. (See Webster, Benjamin C., assignor.)
 Reynolds Spring Company. (See Zimmer, Paul H., assignor.)
 Reynolds, Sydney W. (See Bainbridge, G. K., and Reynolds.)
 Reynolds, Thomas G., Toronto, Ontario, Canada. Information tag case. 1,644,150; Oct. 4.
 Reynolds, William A., assignor to The Ohio Rubber Company, Cleveland, Ohio. Bulb for hydrometer syringes. Des. 73,147; July 26.
 Reynolds, William B., and W. E. Jackson, Fort Worth, assignors of one-tenth to S. Morgan, Greenville, Tex. Cutting cylinder. 1,623,495; Apr. 5.
 Reynolds, William F., Dayton, Ohio. Fixture for adjusting connecting rods. 1,651,546; Dec. 6.
 Reynolds, William G., Grandview, Manitoba, Canada. Printing machine. 1,625,959; Apr. 26.
 Reynolds, William H. (See Trullinger, H. A., and Reynolds.)
 Reynolds, Willis E., and T. M. Barbee, Louisville, Ky. Whirligig toy. 1,645,820; Oct. 18.
 Reyrolle, A., & Company. (See Coates, F., and Mirrey, assignors.)
 Reyrolle, A., & Company Limited. (See Anderson, W., and Grotz, assignors.)
 Reyrolle, A., & Company Limited. (See Biles, R. W., and Piquet, assignors.)
 Reyrolle, A., & Company Limited. (See Linstow, Frederick N., assignor.)
 Reyrolle, A., & Company Limited. (See Minton, Richard C., assignor.)
 Reyrolle, A., & Company Limited. (See Waterhouse, Edgar, assignor.)
 Reznor Manufacturing Company. (See Van Patton, John F., assignor.)
 Rheault, George, Lowell, assignor to Draper Corporation, Lowell, Mass. Harness stop motion for looms. 1,636,927; July 26.
 Rheinische Gummi-und Celluloid-Fabrik. (See Beyler, Albert, assignor.)
 Rheinische Kammfer-Fabrik Gesellschaft mit beschränkter Haftung. (See Schöllkopf, Carl, assignor.)
 Rheinische Metallwaren- und Maschinenfabrik. (See Berk, Richard, assignor.)
 Rheinische Metallwaren- und Maschinenfabrik. (See Kottmann, August, assignor.)
 Rheinische Metallwaren- und Maschinenfabrik. (See Otto, Clemens, assignor.)
 Rheinische Metallwaren- und Maschinenfabrik. (See Schiffer, Valentin, assignor.)
 Rhenania Verein Chemischer Fabriken A.-G. (See Marwedel, J. E. and Looser, assignors.)
 Rhoney, John H., Augusta, Ga. Oil can. 1,641,051; Aug. 30.
 Rhind, Hugh, Golf Shaft Company, The. (See Questel, W. L., and Rhind, assignors.)

- Rhind, Hugh M. (See Queistel, W. L. and Rhind.)
- Rhineland, Harry W., Palembang, Sumatra, East Indies. Oil-well jack. 1,622,467; Mar. 29.
- Rhoades, Max, et al. (See Watter, Michael, assignor.)
- Rhoades, Almer W. (See Smith, A. M., and Rhoades.)
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Battery feed for looms. 1,614,209; Jan. 11.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Quick-acting warp stop mechanism for warpers. 1,646,361; Oct. 18.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Quick-acting warp stop mechanism for warpers having an oscillatory detector bar. 1,646,362; Oct. 18.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Quick-acting warp stop mechanism for warpers. 1,646,363; Oct. 18.
- Rhoades, Alonzo E., deceased, by A. M. Buswell and M. M. Buswell, executrices, Dover-Foxcroft, Me., assignors to Draper Corporation, Hopedale, Mass. Reversing-gear mechanism. 1,649,977; Nov. 22.
- Rhoades, Alonzo E., and A. S. Johnson, assignors to Draper Corporation, Hopedale, Mass. Yarn tension for winding machines. 1,620,571; Mar. 8.
- Rhode Island Braiding Machine Company. (See Blaisdell, Sidney B., assignor.)
- Rhode Island Braiding Machine Company. (See Thomas, Frederick, assignor.)
- Rhode Island Lace Works, Inc. (See Newton, Albert E., assignor.)
- Rhode, Lewis W. (See Eckles, Noble, assignor.)
- Rhodes, James W., Harris, Mo. Grease cup. 1,631,158; June 7.
- Rhodes, Lewis T., Mont Clare, Pa., assignor to New York Coil Company, New York, N. Y. Fixed condenser. 1,626,366; Apr. 26.
- Rhodes, Warren A., Shreveport, La., and T. C. McKinley, Charleston, W. Va., assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Skimming glass. 1,631,759; June 7.
- Rhoads, Harry E., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel heater for internal-combustion engines. 1,623,441; Apr. 5.
- Rhoads, Harry E., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio. Intake nozzle. 1,632,196; June 14.
- Rhoads, Jesse B., La Jolla, Calif. Making ornamental scales. 1,622,347; Mar. 29.
- Rhoads, John R., Boyertown, Pa. Automobile headlight wrench. 1,640,296; Aug. 23.
- Rhoads, Thomas H., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drying tank blocks. 1,622,051; Mar. 22.
- Rhodes, Arnold N., Rocky Point, N. C. Door-locking mechanism. 1,623,853; Apr. 6.
- Rhodes, Arthur and C. Kelghey, England. Doffing mechanism for spinning, doubling, twisting, and like machines. 1,639,968; Aug. 23.
- Rhodes, Bert O., assignor, by mesne assignments, to Jay Rhodes, B. Company, Kalamazoo, Mich. Dispensing receptacle. 1,648,029; Nov. 8.
- Rhodes, Charles J., Wakefield, England. Press for drawing hollow ware of sheet metal. 1,629,839; May 24.
- Rhodes, Charles J., Wakefield, England. Machine for hanging and seaming sheet-metal receptacles. 1,648,470; Sept. 27.
- Rhodes, Clifford. (See Rhodes, Arthur and C.)
- Rhodes, Elmer, Long Beach, Calif. Wall construction. 1,620,834; Mar. 15.
- Rhodes, Fay R., Iola, Kans. Windshield attachment. 1,632,079; Jun. 14.
- Rhodes, Hampton P., Houston, Tex. Flexible metallic packing. 1,627,620; May 10.
- Rhodes, Hampton P., assignor to Rhodes Master Packing Company, Houston, Tex. Forming metallic packing. 1,629,051; May 17.
- Rhodes, Hampton P., and R. F. Kreiter, Houston, Tex.; said Kreiter assignor to said Rhodes. Machine for manufacturing metallic packing. 1,634,556; July 5.
- Rhodes-Hochriem Manufacturing Co. (See Burt, Harold F., assignor.)
- Rhodes-Hochriem Manufacturing Co. (See Hochriem, Gustav F., assignor.)
- Rhodes, Jay B., Company. (See Rhodes, Bert O., assignor.)
- Rhodes, John J., assignor of one-half to F. M. Gordon, South Hamilton, Mass. Hook bracket. 1,625,745; Apr. 19.
- Rhodes Manufacturing Company. (See Rhodes, Marcus H., assignor.)
- Rhodes, Marcus H., assignor to Rhodes Manufacturing Company, St. Louis, Mo. Razor-stropping device. 1,614,492; Jan. 18.
- Rhodes Master Packing Company. (See Rhodes, Hampton P.)
- Rhodes, Russell I., North Attleboro, Mass. Jewelry-box hinge. 1,626,201; Apr. 26.
- Rhodes, Russell I., North Attleboro, Mass. Box and making the same. 1,645,403; Oct. 11.
- Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Thermal translating device. 1,630,312; May 31.
- Riach, Henry J., assignor to G. Waldref, St. Paul, Minn. Power take-off device. 1,639,812; Aug. 23.
- Rial, Samuel B., Tempe, Ariz. Fan. 1,641,904; Sept. 6.
- Rial, Virgil D. (See Black, J. C. Rial, and Howes.)
- Rial, Wirt D., and E. W. Gard, Wilmington, Calif. Preparing an adsorbent for oils. 1,634,514; July 5.
- Rial, Wirt D., and E. W. Gard, Wilmington, Calif. Preparing an adsorbent for oils. 1,639,274; Aug. 16.
- Ribes, Paul C., Colombes, France. Automatic water trap. 1,628,430; May 10.
- Ribi, Catharina. (See Ribi, Max, assignor.)
- Ribi, Max, assignor to C. Ribi, Zurich, Switzerland. Ice-making machine. 1,633,712; June 28.
- Riblet, George E., Erie, Pa. Vehicle wheel. Re16,766; Oct. 11.
- Ricardo, Harry R., London, England. Internal-combustion engine. 1,622,885; Mar. 20.
- Ricards, Charles L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Adjusting means for planer cross rails and side heads. 1,618,308; Feb. 22.
- Riccardi, Angelo D., Brussels, Belgium. Transforming machine with symmetrically subdivided flux for the control of traction motors or the like. 1,646,066; Oct. 18.
- Rice, Arthur R., Toronto, Ontario, Canada. Electric switch. 1,639,533; Aug. 16.
- Rice, Charles M., St. Louis, Mo. Identifying tag. 1,621,810; Mar. 22.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Sound-reproducing apparatus. 1,631,646; June 7.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Radio receiving system. 1,640,427; Aug. 30.
- Rice, Clarence L., and T. B. Wilkinson, Laurel, Miss. Lumber-marking machine. 1,618,845; Feb. 22.
- Rice, George E., Brooklyn, N. Y., assignor to Conservation Corporation of America. Treating, impregnating, seasoning, and stabilizing wood. 1,650,738; Nov. 29.
- Rice, George E., and C. L. Simmons, Brooklyn, N. Y., assignors to Conservation Corporation of America. Combination treating tank and dry kiln. 1,643,174; Sept. 20.
- Rice, George L., and L. E. Whitcomb, assignors to International Harvester Company, Chicago, Ill. Piling machine. 1,633,311; Dec. 20.
- Rice, Harold G., Chicago, Ill. Holder for socket-wrench sockets. 1,649,945; Nov. 15.
- Rice, Irwin E., Denver, Colo. Brush. 1,620,783; Mar. 15.
- Rice, John, jr., Easton, Pa. Dump car. 1,613,128; Jan. 4.
- Rice, John, Salineville, Ohio. Slip-pump overflow valve. 1,651,778; Dec. 6.
- Rice, John A., assignor of two-fifths to J. F. Rice, two-fifths to M. B. Solomon, and one-fifth to J. H. Gesing, Cleveland, Ohio. Closure fastener. 1,618,353; Feb. 22.
- Rice, John I., et al. (See Owens, John G., assignor.)
- Rice, John V., jr., Bordentown, N. J., assignor, by mesne assignments, to F. E. Tasker, New York, N. Y. Gasoline rock drill. 1,653,373; Dec. 20.
- Rice, Joseph, assignor to Elevator Company of America, Chicago, Ill. Elevator platform. 1,623,977; Apr. 12.
- Rice, Joseph F., et al. (See Rice, John A., assignor.)
- Rice, Louis E., New Martinsville, W. Va. Automobile lens. 1,619,038; Mar. 1.
- Rice, M. Co. (See Brunswick, Raymond, assignor.)
- Rice, M. Company. (See Shoch, Robert, assignor.)
- Rice, Norman E., Chicago, Ill. Heat distributor. 1,613,534; Jan. 4.
- Rice, Sidney E., Tulsa, Okla. Engraving process and device. 1,648,782; Nov. 8.
- Rice, Steven A., San Francisco, Calif. Illuminated sign. 1,628,912; May 17.
- Rice, Thomas B., and F. W. Williams, Santa Maria, Calif. Cigarette case. 1,638,363; Aug. 9.
- Rice, William C., Holden, Mo. Dustpan. 1,639,899; Aug. 23.
- Rice, William R. (See Smith, E. R., Rice, and Jackson.)
- Rice, Willis B. (See Anderson, J. W., and Rice.)
- Rich, Carl H. (See Taylor, I. A., and Rich.)
- Rich, David, assignor of one-half to J. W. Hendrickson, Spooner, Wis. Nut lock. 1,634,629; July 5.
- Rich, Elmer A., jr., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y. Sand-blast apparatus. 1,643,175; Sept. 20.
- Rich, George R., Battle Creek, Mich. Electrically-welded valve tappet. 1,628,911; May 17.
- Rich, George R., Battle Creek, Mich. Valve tappet and analogous articles. 1,644,793; Oct. 11.
- Rich, George R., Battle Creek, Mich. Valve grinder. 1,650,389; Nov. 22.
- Rich, George R., Battle Creek, Mich. Apparatus for and making composite metal articles by arc welding. 1,651,647; Dec. 6.
- Rich, H. A., et al. (See Smith, Charles F., assignor.)
- Rich, Malcolm N. (See Marden, J. W., and Rich.)
- Rich Manufacturing Company, The. (See Mott, Carl W., assignor.)
- Rich & McLean, Inc. (See Ireland, Charles E., assignor.)
- Rich-Sampler Knitting Mills Company. (See Sampler, Samuel S., assignor.)
- Rich, Theodore A., East Lynn, Mass. assignor to General Electric Company. Electric measuring instrument. 1,632,623; June 14.
- Rich Tool Company. (See Jardine, Robert, assignor.)

- Richard, Charles D., West New Brighton, assignor to Western Electric Company, Incorporated, New York, N. Y. Synchronizing mechanism. 1,637,161; July 26.
- Richard, Charles P., West New Brighton, and G. T. Morris, assignors to Western Electric Company, Incorporated, New York, N. Y. Coil with multiple adjustments. 1,624,364; Apr. 12.
- Richard, Clement C. (See Richard, Otis K. and C. C.)
- Richard, Joseph B., Philadelphia, Pa. Jar holder. 1,646,661; Oct. 25.
- Richard, Otis K. and C. C., Detroit, Mich. Punch and die retainer. 1,621,811; Mar. 22.
- Richard, Robert E. (See Gribble, Elmer T., assignor.)
- Richard, William E., Evansville, Ind. Headlight. 1,622,395; Mar. 20.
- Richards, Adolph H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Metallurgical furnace-feeding mechanism. 1,629,968; May 24.
- Richards, Albert. (See Browning, George, assignor.)
- Richards, Arnold E., Middletown, Md. Timer. 1,624,979; Apr. 19.
- Richards, Charles H., Aurora, Ill., assignor of one-half to Richsto Manufacturing Company. Metal facing for window openings. 1,618,728; Feb. 22.
- Richards, Daniel W., and H. P. Hancock, Roanoke, Va. Railway-traffic-governing apparatus. 1,620,690; Mar. 15.
- Richards, Daniel W., and H. P. Hancock, Roanoke, Va. Railway-traffic-controlling apparatus. 1,620,691; Mar. 15.
- Richards, David R., St. Louis, Mo. Car truck. 1,636,837; July 26.
- Richards, David R., St. Louis, Mo. Rail joint. 1,639,969; Aug. 23.
- Richards, Earl M. (See Swoboda, H. O., and Richards.)
- Richards, Enoch C., Portland, Me. Concrete-mold holder. 1,651,041; Nov. 29.
- Richards Eric H. and H. B. Hutchinson Hertfordshire, assignors to Adco Limited, London, England. Manufacture of nitrogenous fertilizers. 1,619,670; Mar. 1.
- Richards, Ernest J., Mineral Point, Wis. Headlight reflector. 1,631,159; June 7.
- Richards, Ernest W., and E. J. Janos, assignors to Oliver Chilled Plow Works, South Bend, Ind. Screw device. 1,618,677; Feb. 22.
- Richards, Harold L., Crystal Falls, Mich. Golf tee. 1,625,911; Apr. 26.
- Richards, John E., Peckville, Pa. Combined shingle support and cornice-protecting device. 1,627,805; May 10.
- Richards, John H., Yakima, Wash. Box opener. 1,637,916; Aug. 2.
- Richards, Leslie W., assignor to St. Louis Car Company, St. Louis, Mo. Brake. 1,619,039; Mar. 1.
- Richards, Newton D., Los Angeles, Calif. Buckle. Des. 73,009; July 5.
- Richards, Oscar, Montrose, Colo. Transposing mechanism for pianos, organs, and the like. 1,629,052; May 17.
- Richards, Pierce F., assignor of one-half to L. L. Valentine, Chicago, Ill. Hydraulic brake. 1,639,058; Aug. 16.
- Richards, Presley, Newcastle, New Brunswick, Canada. Hose coupling. 1,646,873; Oct. 26.
- Richards, Ralph W., Atchison, Kans. Combined shade and awning for windows. 1,617,964; Feb. 15.
- Richards, Ralph W., Atchison, Kans. Awning for windows. 1,633,275; June 21.
- Richards, Samuel E., Pittsburgh, Pa. Thermostatic damper control. 1,622,973; Mar. 29.
- Richards, Samuel G., Des Moines, Iowa. Signal device for vehicles. 1,641,504; Sept. 6.
- Richards, Sidney H., Inglewood, Calif. Adjustable vise. 1,645,023; Oct. 11.
- Richards, Thomas G., Barbenton, Ohio. Manufacturing laminated articles. 1,647,055; Oct. 25.
- Richards, Walter H., New London, Conn. Fluid meter and motor. 1,625,428; Apr. 19.
- Richards-Wilecox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
- Richdensen, Severin, Strommen, Norway. Airship. 1,638,061; Aug. 10.
- Richardson, Albert S. (See Taylor, G. B., and Richardson.)
- Richardson, Albert S., and C. V. Conley, assignors to The Procter & Gamble Company, Cincinnati, Ohio. De-composing fats or oils into fatty acids and glycerin. 1,622,974; Mar. 29.
- Richardson, Allan S., Butte, Mont. Reinforced air hose. 1,635,957; July 12.
- Richardson Ball Bearing Skate Company. (See Salberg, Gustave R., assignor.)
- Richardson Ball Bearing Skate Company. (See Whitcomb, Henry F., Jr., assignor.)
- Richardson & Boynton Company. (See Gilbert, Maxwell F., assignor.)
- Richardson, Carrie E., Simpsonville, S. C. Toy. 1,633,496; June 21.
- Richardson, Charles M., and Z. E. Sargison, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for reeling strip material. 1,624,183; Apr. 12.
- Richardson, Charles P., trustee. (See Ford, R. H., Richardson, Greenbaum, and Priest, assignors.)
- Richardson, Chester A., San Francisco, Calif. Refrigerator car. 1,643,471; Sept. 27.
- Richardson, Clarence C., Long Beach, Calif. Apparatus for removing solid matter from rotary mud. 1,647,310; Nov. 1.
- Richardson Company, The. (See Fisher, Harry C., assignor.)
- Richardson Company, The. (See Lukens, Alan R., assignor.)
- Richardson Company, The. (See Morris, Warren A., assignor.)
- Richardson Company, The. (See Trefzger, Herbert, assignor.)
- Richardson Corporation. (See Ferree, Harry L., assignor.)
- Richardson, David W., Princeton, N. J. Radio antenna system. 1,620,231; Mar. 8.
- Richardson, De Soto E., Riverside, Wash. Fruit picking and thinning device. 1,642,311; Sept. 13.
- Richardson, De Soto E., Riverside, Wash. Weeding and cultivating implement. 1,645,115; Oct. 11.
- Richardson, Edward A., Mansfield, Mass. Cleat. 1,617,418; Feb. 15.
- Richardson, Edwin F. (See A'Hearn, F. M., and Richardson.)
- Richardson, Ernest, Beaver Falls, Pa. Water-closet structure. 1,636,649; July 19.
- Richardson, Ezra N., Detroit, Mich. Marking mechanism for planters. 1,635,435; July 12.
- Richardson, Frank C., et al. (See Duncan, Charles H., assignor.)
- Richardson, Frederick E., Manchester, Iowa. Rake. 1,621,276; Mar. 15.
- Richardson, Frederick E., Manchester, Iowa. Corn popper. 1,650,044; Nov. 22.
- Richardson, Gordon, New York, assignor of one-fourth to P. J. Eder, Forest Hills, N. Y. Manufacturing barium sulphide. 1,648,570; Nov. 8.
- Richardson, Goshen S., Sydney, assignor to Nupeg (Australia) Limited, Waterloo, Sydney, New South Wales, Australia. Clothes peg. 1,615,725; Jan. 25.
- Richardson, Henry, Chicago, Ill. Corner lock for bedsteads. 1,617,865; Feb. 15.
- Richardson, Henry F., assignor to E. I. Auth, Brooklyn, N. Y. Electrical connecting unit. 1,639,316; Aug. 16.
- Richardson, Henry K. (See MacBae, D., and Richardson.)
- Richardson, Henry K., East Orange, N. J., assignor to Westinghouse Lamp Company. Afixing coatings on incandescent-lamp filaments. 1,624,071; Apr. 12.
- Richardson, Horace G., San Antonio, Tex. Asphalt spreader. 1,627,747; Sept. 20.
- Richardson, Horatio A. (See Fontaine, R. A., and Self, assignors.)
- Richardson, James A., Halkirk, Alberta, Canada. Shocker. 1,632,043; June 14.
- Richardson, James D., assignor to The Die Cast Art Bronze Corporation, Jamestown, N. Y. Clock case. Des. 72,031; Feb. 15.
- Richardson, John H., Melrose, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and method for use in the manufacture thereof. 1,618,729; Feb. 22.
- Richardson, Lawrence, Louisville, Ky. Railway-car side door. 1,645,571; Oct. 18.
- Richardson, Myron H., Chicago, Ill. Windmill. 1,614,804; Jan. 18.
- Richardson, Myron H., Chicago, and A. E. Gebert, Wilmette, assignors to Advance Machine Company, Chicago, Ill. Check-controlled lock. 1,624,980; Apr. 19.
- Richardson, R. R., et al. (See Nesmith, Samuel D., assignor.)
- Richardson, Raymond B., Cape Charles, Va. Wheel guard for railway cars. 1,612,944; Jan. 4.
- Richardson, Rodney G., Chicago, Ill. Speed governor. 1,653,660; Dec. 27.
- Richardson, Rodney G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,616,602; Apr. 19.
- Richardson, Rodney G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,627,929; May 10.
- Richardson, Rodney G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,627,930; May 10.
- Richardson, Rodney G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,629,533; May 24.
- Richardson, Rodney G., assignor to Automatic Electric Inc., Chicago, Ill. Trunking arrangement for automatic telephone systems. 1,641,933; Sept. 6.
- Richardson, Rodney G., Chicago, and J. I. Bellamy, Brookfield, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Party-line automatic telephone system. 1,640,157; Aug. 23.
- Richardson, Rodney G., Chicago, and J. I. Bellamy, Brookfield, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,645,662; Oct. 18.
- Richardson, Walter, Bay City, Mich. Automatic fire lighter. 1,622,738; Mar. 29.
- Richardson, Willard D., Columbus, Ohio. Method and apparatus for burning clayware. 1,628,273; May 10.
- Richart, Joy J. (See Hofferer, Daniel W., assignor.)
- Richie, Jacob C., Kansas City, Mo. Support for metal trays. 1,647,665; Nov. 1.

- Riches, Charles H., Toronto, and C. W. Aird, Brantford, assignors to The Brantford Oven & Rack Co. Limited, Brantford, Ontario, Canada. Baking oven. 1,637,427; Aug. 2.
- Riches, River & Co. (See Sanders, George E., assignor.)
- Richey, Albert E., Fairview, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Cutting device for calendars. 1,631,837; Dec. 6.
- Richey, George H., Boston, Mass., assignor to Sullivan Machinery Company. Broaching tool. 1,631,693; June 7.
- Richey, Thompson R., Atlanta, Tex. Highway safety device. 1,626,627; May 3.
- Richelmer, Isaac D., New York, N. Y. Coffee maker. 1,613,483; Jan. 4.
- Richie, James K., Butler, Pa. Postal scale. 1,622,924; Mar. 29.
- Richie, Joseph D., Casper, Wyo. Chain connector. 1,648,507; Nov. 8.
- Richman, John W., Gilroy, Calif. Power driven brush. 1,633,128; June 21.
- Richman, Solomon, Laurel Hill, assignor to National Enameling and Stamping Company, New York, N. Y. Stirrer for barrels. 1,621,277; Mar. 15.
- Richmond Beverage Machine Corporation. (See Patterson, John L., assignor.)
- Richmond Fireproof Door Company. (See Hewitt, Walter E., assignor.)
- Richmond, Francis A., assignor to The Frostilla Company, Elmira, N. Y. Lotion. 1,631,384; June 7.
- Richmond, Herbert. (See Wike, William L., assignor.)
- Richmond, Jesse P., Memphis, Tenn., assignor of one-half to Adams Grease Gun Corporation, New York, N. Y. E. 1,648,705; Oct. 25.
- Richmond, Leon H., Fort H. G. Wright, N. Y. Sound-detection-training device. 1,646,874; Oct. 25.
- Richmond, Louis E., Cleveland, assignor, by mesne assignments, to The Autocall Company, Shelby, Ohio. Electric bell. 1,635,268; June 21.
- Richmond, Weston Ring Co. (See Booker, Richard A., assignor.)
- Richmond, Robert Y., Paisley, Scotland. Machine for casting dental parts and the like. 1,644,543; Oct. 4.
- Richmond, Roy B., Chicago, Ill. Musical instrument. 1,638,197; June 14.
- Richmond, Samuel L., Balboa, Canal Zone, Panama. Dry storage. 1,649,732; Nov. 15.
- Richmond, Samuel L., Balboa, Canal Zone, Panama. Dry storage. 1,649,733; Nov. 15.
- Richmond, Vincent C., and G. H. Scott, Cardington, England. Mowing gear for alarhops. 1,619,680; Mar. 1.
- Richmond, Waldeemar S., Buffalo, N. Y. Electric self-regulating apparatus. 1,616,230; Feb. 1.
- Richner, Fred C., Rochester, N. Y. Eaves-trough hanger. 1,635,690; July 12.
- Richsto Manufacturing Company. (See Richards, Charles E., assignor.)
- Richter, Alfred, Dohertitz, near Berlin, Germany, assignor to A. G. für Handels- und Industriewerte Glarus, Glarus, Switzerland. Refrigerating apparatus of the absorption type. 1,652,458; Dec. 13.
- Richter, August F., Watertown, and F. A. Augsburg, Oceansburg, assignors to Stebbins Engineering and Manufacturing Company, Watertown, N. Y. Method and apparatus for treating fiber. 1,653,416; Dec. 20.
- Richter, Carl H., assignor to Richter Manufacturing Company, Chicago, Ill. Banjo and the like. 1,636,244; July 19.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Cooling and utilizing the heat content of relief gas from sulphite digesters. 1,616,703; Feb. 8.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Process of and apparatus for treating fiber. 1,632,802; June 21.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Producing white pulp of high strength. 1,635,637; July 12.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Making sulphite cooking liquor. 1,637,353; Aug. 2.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Producing pulp having a high percentage of resistant cellulose. 1,640,853; Aug. 3.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Interrelated pulp-refining and viscose process. 1,653,124; Dec. 20.
- Richter, George A., and M. O. Schur, assignors to Brown Company, Berlin, N. H. Bleaching cellulosic material. 1,639,704; Aug. 23.
- Richter, George A., and M. O. Schur, assignors to Brown Company, Berlin, N. H. Manufacture of high alpha-cellulose fiber. 1,643,355; Sept. 27.
- Richter, Herman J. F., and J. J. Burckhauser, Cincinnati, Ohio. Linen-marking machine. 1,642,172; Sept. 13.
- Richter, John W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Feeding device. 1,632,852; June 21.
- Richter Manufacturing Company. (See Richter, Carl H., assignor.)
- Richter, Morten B., Copenhagen, Denmark. Device for controlling electric inductance. 1,615,884; Feb. 1.
- Richter, Paul C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Trolley construction. 1,646,217; Oct. 18.
- Richter, Paul F., Newark, N. J. Chord-controlling means for instruments of the lute type. 1,652,797; Dec. 13.
- Richter, Robert, Berlin-Friedenau, assignor to the Firm Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Lens attachment for photographic objectives. 1,637,917; Aug. 2.
- Richter, Walter E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Cushioned spring-hanger connection for automobile frames. 1,643,253; Sept. 20.
- Richter, Wilhelm, Berlin, Germany. Instrument for electric ionic medication. 1,652,327; Dec. 13.
- Rick, Edward L., Los Angeles, assignor to Dunn Manufacturing Company, Oxnard, Calif. Elevator. 1,646,981; Oct. 25.
- Rick, George A., Woodhaven, assignor to A. G. Spalding & Sons, New York, N. Y. Shoulder pad. 1,631,694; June 7.
- Rick, Rudolph A., Rhinelander, Wis. Refrigerator-door construction. 1,654,094; Dec. 27.
- Ricken, Charles B., assignor of one-half to G. M. Ketcham, Jr., Brooklyn, N. Y. Adjustable door jamb. 1,614,313; Jan. 11.
- Ricken, Charles B., assignor of one-half to G. M. Ketcham, Brooklyn, N. Y. Concealed inclosure. 1,630,906; May 31.
- Rickenbacher, Adolph, Los Angeles, Calif. Doorstop. 1,613,806; Jan. 11.
- Ricketts, Charles T., Indianapolis, Ind. Change-speed governor. 1,624,008; Apr. 12.
- Ricker, Maurice E., Kalona, Iowa. Leakless cream-can lid. 1,618,730; Feb. 22.
- Ricker, Norman H., assignor to Humble Oil and Refining Company, Houston, Tex. Seismograph. 1,625,625; Apr. 19.
- Ricketts, William J., Crofton Park, England. Electrical condenser. 1,622,052; Mar. 22.
- Ricketts, Richard R., Springfield, Mo. Dispensing receptacle. 1,619,315; Mar. 1.
- Ries, Fred. (See Reid, R. G., Bates, and Ries.)
- Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacturing shoe stiffeners. 1,620,784; Mar. 15.
- Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Blank-preparing apparatus. 1,621,002; Mar. 22.
- Ricks, Fred, and E. G. B. Burgoyne, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,631,385; June 7.
- Ric-Vil Company, The (See Fichtner, J. B., and Crouch, assignors.)
- Ridd, John T., Evanston, Ill. Inflatable ball. 1,613,677; Jan. 11.
- Riddell, John T., Evanston, Ill. Athletic shoe. 1,642,827; Sept. 20.
- Riddell, Katherine J. (See Fullington, William H., assignor.)
- Riddell, William A., Frederick, Md. Separating or classifying machine. 1,647,815; Nov. 1.
- Riddell, William A., Frederick, Md. Separating or classifying machine. 1,647,816; Nov. 1.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-shutter casing. 1,629,225; Feb. 8.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. 1,629,534; May 24.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. 1,645,929; Oct. 18.
- Ridder, Hilda M., et al., administrators. (See Luyties, Otto G.)
- Riddle, Carlton, assignor to The McNeil Boiler Company, Akron, Ohio. Digester. 1,639,613; Aug. 16.
- Riddle, Daniel W., Maywood, Calif. Truck stake and mounting therefor. 1,639,970; Aug. 23.
- Riddle, Edward N., Company, The. (See Crowell, Frank S., assignor.)
- Riddle, Edward N., Company, The. (See Riddle, John K., assignor.)
- Riddle, Frank H., assignor to Champion Porcelain Company, Detroit, Mich. Porcelain. 1,631,695; June 7.
- Riddle, John, assignor to Telegraph Construction and Maintenance Company, Limited, London, England. Galvanometer and like recording instrument. 1,626,694; May 3.
- Riddle, John, assignor to Telegraph Construction and Maintenance Company, Limited, London, England. Siphon and like recorder. 1,628,913; May 17.
- Riddle, John K., assignor to The Edward N. Riddle Company, Toledo, Ohio. Lighting fixture. 1,625,626; May 3.
- Riddle, Robert N., Philadelphia, Pa., assignor to Riddle Process Company, Inc. Filtering medium and making same. 1,643,031; Sept. 20.
- Riddle, Robert N., Germantown, Pa., assignor to Riddle Process Company, Inc. Making a filtering medium. 1,643,032; Sept. 20.
- Riddle, Roy A., New Orleans, La. Paper weight. 1,629,414; May 17.
- Riddle Process Company. (See Riddle, Robert N., assignor.)
- Ridenour, Martin C., assignor of one-sixth to T. M. Ridenour and one-sixth to M. L. Ridenour, Kingwood, W. Va. Steering connecting rod for automobiles. 1,628,914; May 17.

- Ridenour, Minnie L., et al. (See Ridenour, Martin C., assignor.)
- Ridenour, Thomas M., et al. (See Ridenour, Martin C., assignor.)
- Rideout, Arthur E. (See Kimball, W. D., and Rideout.)
- Rideout, Arthur E. (See Kimball, W. D., Rideout, and McFaul.)
- Rideout, Arthur E. (See McFaul, M., and Rideout.)
- Rider, Douglas. (See Morgan, J. S., and Rider.)
- Rider, George F., Chicago, Ill. Ring or similar article of jewelry. Des. 73,010; July 5.
- Rider, Granville S., New York, assignor to Lock-Stub Check Company, Incorporated, Brooklyn, N. Y. Check dispensing machine. 1,637,710; Aug. 2.
- Rider, Herbert E., assignor to E. L. Hall, New York, N. Y. Insulator. 1,620,392; Mar. 8.
- Rider, Herbert E., New York, N. Y., assignor to D. Gray, Portland, Me. Heat indicator. 1,652,838; Dec. 13.
- Ridge, Isaac L., assignor to Ridge Manufacturing Company, Bartlesville, Okla. Theft alarm for automobiles. 1,630,968; May 31.
- Ridge Manufacturing Company. (See Ridge, Isaac L., assignor.)
- Ridge, William F., Akron, Ohio. Windshield cleaner. 1,615,915; Feb. 1.
- Ridgely Heater Company. (See Ridgely, William W., assignor.)
- Ridgely Trimmer Company The. (See Davidson, William W., assignor.)
- Ridgely, William W., Heart Lake, assignor, by mesne assignments, to Ridgely Heater Company, Scranton, Pa. Heater. 1,618,622; Nov. 8.
- Ridgway, Ellis B. (See Ridgway, William H., assignor.)
- Ridgway, Harry W., Denver, Colo. Safety support for crane beams. 1,653,417; Dec. 20.
- Ridgway, Herbert L., Winthrop, Mass. Amusement apparatus. 1,619,988; Mar. 8.
- Ridgway, William H., assignor to W. H. and E. B. Ridgway, Coatesville, Pa. Steam hydraulic system. 1,628,556; Apr. 26.
- Ridler, Harry C., Minneapolis, Minn. Cooling device for drinking fountains. Re16,605; Apr. 26.
- Ridler, Harry C., Minneapolis, Minn. Humidifier. 1,650,739; Nov. 29.
- Ridley, Grahame B., assignor to E. B. Ward, San Francisco, Calif. Desiccator. 1,619,765; Mar. 1.
- Ridley, Grahame B., assignor to E. B. Ward, San Francisco, Calif. Desiccator. 1,620,289; Mar. 8.
- Riebe, Johannes, New York, and A. Prämassing, Bronxville, N. Y. Pipe-bowl cleaner. 1,649,487; Nov. 15.
- Rieck, Hugh W., Roosevelt, Tex. Goat and sheep coat. 1,612,945; Jan. 4.
- Rieck, William A. J., Tyler, Tex. Spring shackle structure. 1,621,028; Mar. 15.
- Rieck, Augustus I., Savannah, Ga. Scrubbing machine. 1,636,437; July 19.
- Riedel, I. D., A. G. (See Boedecker, Friedrich, assignor.)
- Riedel, Walter W., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,638,214; Aug. 9.
- Rieffman, Christine, Oakland, Calif. Bedpan and pad. 1,649,419; Nov. 15.
- Riedinger, Edward, Bloomfield, N. J. Brake mechanism. 1,619,542; Mar. 1.
- Riegel, Clarence H., Niles, Ohio. Making sheet-metal barrels. 1,645,971; Oct. 18.
- Riegel, Samuel S., Scranton, Pa., assignor, by mesne assignments, of one-half to J. H. Allen, Jersey City, N. J. Passenger-car waste-transfer apparatus. 1,613,848; Jan. 11.
- Riegel, Samuel S., Scranton, Pa., assignor, by mesne assignments, of one-half to J. H. Allen, Jersey City, N. J. Passenger-car waste-transfer apparatus. 1,613,849; Jan. 11.
- Riegel, Samuel S., Scranton, Pa., assignor, by mesne assignments, of one-half to J. H. Allen, Jersey City, N. J. Passenger-car waste-transfer apparatus. 1,619,369; Mar. 1.
- Riegel, Samuel S., Scranton, Pa., assignor, by mesne assignments, to J. H. Allen, Jersey City, N. J. Railway-vehicle ash or other waste transfer method and apparatus. 1,625,429; Apr. 19.
- Rieff, John G., London, Wis. Milking stool. 1,652,639; Dec. 13.
- Riehl, Frederick W., Yonkers, N. Y. Headlight for motor vehicles. 1,628,193; May 10.
- Riehl, Robert, St. Louis, Mo. Vehicle wheel. 1,633,606; June 28.
- Riehm, Wilhelm, assignor to the Firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Two-stroke internal-combustion engine. 1,629,535; May 24.
- Riehm, Wilhelm, assignor to the Firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Double-acting two-stroke internal-combustion engine. 1,632,984; June 21.
- Riek, Rudolph A., Rhinelander, Wis. Refrigerator construction. 1,615,099; Jan. 18.
- Riek, Rudolph A., Rhinelander, Wis. Refrigerator door. 1,618,476; Feb. 22.
- Riek, Rudolph A., Rhinelander, Wis. Refrigerator. 1,633,225; June 21.
- Rieke, Theodore W., Chicago, Ill., assignor, by mesne assignments, of one-half to A. Schroeder and one-half to J. M. Finney, Cleveland, Ohio. Fitting for containers. 1,651,632; Dec. 6.
- Riesebeck, Curt, Berlin-Friedenau, Germany. Elastic tire. 1,633,999; June 28.
- Rieser, William, Newark, N. J. Tool for marking tiles. 1,619,091; Mar. 1.
- Rieser, Edward L., Dayton, Ohio. Traction sheave. 1,653,062; Dec. 20.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Mechanism for automatically controlling the unloading valves of air compressors for a plurality of pressures. 1,616,039; Jan. 18.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Cylinder and plunger arrangement for high-pressure compressors. 1,636,438; July 19.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Variable-capacity compressor. 1,636,439; July 19.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Compensating air compressor. 1,636,440; July 19.
- Rietheimer, Rudolph. (See Ulich, Harold E. and W. E., and Rietheimer.)
- Rietzel, Charles W. (See Leonard, F. C., and Rietzel.)
- Rife, Uriah L., Sound Beach, Conn. Key protector. 1,643,904; Sept. 27.
- Rife, William C., Toledo, Ohio. Fishing reel. 1,648,824; Nov. 8.
- Rigby, Albert, assignor of one-half to P. Diamond, Paterson, N. J. Loom. 1,625,156; Apr. 19.
- Rigby, Charles, Cincinnati, Ohio. Golf club. 1,613,360; Jan. 4.
- Rigby, Charles, Cincinnati, Ohio. Golf club. 1,634,082; June 28.
- Rigby, Charles, Cincinnati, Ohio. Golf club. 1,634,887; July 5.
- Rigby, John, New Bedford, Mass. Bag holder. 1,637,131; July 26.
- Rigby, Thomas, London, England. Manufacture of cement. 1,628,000; May 10.
- Rigg, Gilbert. (See Gepp, H. W., Hey, Rigg, Stevens, and Williams.)
- Riggle Automatic Train Control Company. (See Riggle, Thomas M., assignor.)
- Riggle, Leo J., Monroe, Wis. Apparatus for developing picture films. 1,645,452; Oct. 11.
- Riggle, Thomas M., assignor to Riggle Automatic Train Control Company, Oakland, Calif. Automatic train control. 1,634,557; July 5.
- Riggles, John W. (See Rowley, J. S., Riggles, and McCully.)
- Riggs, George, Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,653,752; Dec. 27.
- Riggs, Homer C., and C. C. Harris, assignors to Rodney Hunt Machine Company, Orange, Mass. Piling machine. 1,613,196; Jan. 4.
- Riggs, James. (See Hull, John W., assignor.)
- Riggs, Michael G., Mishawaka, Ind. File holder. 1,618,804; Feb. 22.
- Righter, James B., River Falls, Wis. Cushion lift for shoes. 1,650,466; Nov. 22.
- Rightmire, Neil, Syracuse, N. Y. Trolling spoon. Des. 71,850; Jan. 11.
- Rightnour, Charles H., et al. (See Scotchall, William E., assignor.)
- Risner, William, Irvington, N. J. Self-adjusting water-gauge connection. 1,620,692; Mar. 15.
- Risby, John P., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Auto stop governor. 1,621,084; Mar. 15.
- Rilhoese, Johann, Vienna, and R. L. Leuchter, Weidlingau-Hannorf, assignors of one-half to the R. L. Gebhardt, Hardy Maschinenfabrik und Gessere Aktien Gesellschaft, Vienna, Austria. Apparatus for releasing step-by-step single-chamber air-pressure brakes. 1,652,876; Dec. 13.
- Riihonen, John, Chicago, Ill. Self-service machine. 1,629,536; May 24.
- Riis, Oscar J. C., Copenhagen, Denmark. File for receiving loose sheets, magazines, and the like. 1,614,991; Jan. 18.
- Riise, John, Doylestown, Ohio. Shock insulator. 1,650,045; Nov. 22.
- Riise, John, Doylestown, Ohio. Motor vehicle. 1,635,388; July 12.
- Riise, John, Doylestown, Ohio. Motor shock-insulating means. 1,642,697; Sept. 20.
- Rike Folding Box Company, The. (See Klin, John R., assignor.)
- Rike, Frederick F., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Fill box. 1,654,095; Dec. 27.
- Riker, Andrew L., Fairfield, Conn. Constant compression internal-combustion engine. Re16,711; Aug. 23.
- Riley, Champlin L., North Plainfield, N. J., assignor to Industrial Associates, Incorporated, New York, N. Y. Method and apparatus for atomization of fluids. 1,624,847; Apr. 12.

- Riley, Francis B., Newton Highlands, assignor to Heywood-Wakefield Company, Boston, Mass. Apparatus for producing fabric of nonfaced strands. 1,647,311; Nov. 1.
- Riley, James R. (See White, A. D., and Riley.)
- Riley, John F. (See Smallman, William H. M., assignor.)
- Riley, Lester S., Reading, Mass. Machine for making corner mounts. 1,627,667; May 10.
- Riley, Louis H., and C. O. Wood, Fellows, Calif. Tubing bleeder. 1,639,004; Aug. 16.
- Riley, Lynn G., and H. R. Meyer, Wilkinsburg, and H. H. Johnston, Edgewood Park, and J. M. van Niekerken, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,627,340; Aug. 3.
- Riley, Lynn G., Wilkinsburg, A. H. Candee, Forest Hills, and M. F. Jones, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,640,556; Aug. 30.
- Riley, Michael J., East Cleveland, Ohio, assignor to The E. J. Manville Machine Company, Waterbury, Conn. Machine for trimming blanks of bolts, nuts, screws, and the like. Re16,522; Jan. 4.
- Riley, Olga B., Roxboro, N. C. Detachable brace for plow handles. 1,612,834; Jan. 4.
- Riley, Patrick J., Cleveland, Ohio. Oil container and pump. 1,653,661; Dec. 27.
- Riley, Robert S., assignor to S. Riley Stoker Corporation, Worcester, Mass. Furnace-wall construction. 1,624,009; Apr. 12.
- Riley, Robert S., assignor to S. Riley Stoker Corporation, Worcester, Mass. Side-wall construction for furnaces. 1,624,803; Apr. 12.
- Riley, Robert S., assignor to Riley Stoker Company, Worcester, Mass. Dumping mechanism for mechanical stokers. 1,651,468; Dec. 6.
- Riley Stoker Company. (See Beach, D. K., and Taylor, assignor.)
- Riley Stoker Company. (See Beach, David K., assignor.)
- Riley Stoker Company. (See Harrington, Joseph, assignor.)
- Riley Stoker Company. (See Taylor, I. A., and Rich, assignors.)
- Riley Stoker Corporation. (See Andrews, L. V., assignor.)
- Riley Stoker Corporation. (See Beers, Royce L., assignor.)
- Riley Stoker Corporation. (See Daniels, Fred H., assignor.)
- Riley Stoker Corporation. (See Dornbrook, Fred, assignor.)
- Riley Stoker Corporation. (See Grabame, Dallas F., assignor.)
- Riley, S., Stoker Corporation. (See Riley, Robert S., assignor.)
- Riley, S., Stoker Corporation. (See Taylor, Irving A., assignor.)
- Riley, Thomas J., Philadelphia, Pa. Manually-propelled vehicle. 1,629,308; May 17.
- Riley, William K., Huntington Park, Calif. Lubricating device for vehicle springs. 1,630,581; May 31.
- Rill, Heinrich, assignor of one-half to V. Rill, Sollingen, Germany. Apparatus for pressing dents in bakery rolls. 1,653,063; Dec. 20.
- Rill, Vincenz. (See Rill, Heinrich, assignor.)
- Riller, Heinrich, Wustenbrand, Germany. Violin lute. 1,647,312; Nov. 1.
- Rimbalho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Traveling lock for gun carriages. 1,613,720; Jan. 11.
- Rimberg, Alexander H., New York, N. Y. Pedestal for table lamps or similar article. Des. 73,148; July 26.
- Rimel, Robert A. (See Bergendahl, O. E., and Rimel.)
- Rinsberg, Harry D., assignor to H. J. Hater, Cincinnati, Ohio. Mold. 1,648,194; Nov. 8.
- Rineholt, Guy S., sr., Huntington, Ind. Fishline reel. 1,626,357; Apr. 26.
- Rinz, Hans A., assignor to Burgess Battery Company, Madison, Wis. Apparatus for inserting dry-cell cores into cans. 1,637,711; Aug. 2.
- Rinz, Paul, Detroit, Mich. Automobile headlight. 1,651,070; Nov. 29.
- Rinz, William A. (See Laddin, I. M., Rinz, and Herman.)
- Rinze, John C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 1,644,544; Oct. 4.
- Rinze, John C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimming mechanism for sewing machines. 1,652,413; Dec. 13.
- Rinzel, Herman, assignor to Converters, One-half to Newark, N. J. Garment box. 1,652,798; Dec. 13.
- Rinzenberg, Howell V., assignor of one-half to R. E. Osterreich, Rochester, Minn. Vacuum pump. 1,650,539; Nov. 22.
- Rinzel, O. J., et al. (See World, Charles S., assignor.)
- Rinkler, William A., Philadelphia, Pa. Loose-leaf binder. 1,615,850; Feb. 4.
- Rinkler, William A., Philadelphia, Pa., assignor to Globe-Wernicke Company, Cincinnati, Ohio. Visible-index card system. 1,616,869; Feb. 8.
- Rinkler, William A., Philadelphia, Pa. Savings system. 1,638,005; May 24.
- Rinkler, William A., Philadelphia, Pa. Loose-leaf binder for memorandum books and similar devices. 1,641,031; Oct. 4.
- Rinkler, William A., Philadelphia, Pa., assignor to The Globe-Wernicke Co. Visible index. 1,641,293; Sept. 6.
- Ringrose, Henry T., Newark-on-Trent, England. Detecting, indicating, and recording the presence of inflammable vapors or gases. 1,645,404; Oct. 11.
- Ringwald, Clarence, assignor to Brown & Caine, Inc., Chicago, Ill. Ignition apparatus. 1,616,428; Feb. 1.
- Ringwald, Clarence, Chicago, assignor of one-half to J. A. Diener, Evanston, Ill. Drive for engine starters. 1,644,345; July 5.
- Rinker, Peter G., Chicago, Ill., assignor to Jeannette Glass Company, Jeannette, Pa. Bowl. 1,638,409; Aug. 9.
- Rinker, Charles A., Galesburg, Ill. Bunch former. 1,631,790; June 7.
- Rinker, Ella R. (See Jayne, L., and Rinker.)
- Rinker, Jacob C., Oak Park, and A. J. Kneisinger, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Switching device. 1,618,388; Feb. 22.
- Rinman, Erik L., Djursbolm, Sweden. Dry distillation of alkaliized waste liquor from the soda cellulose manufacture. 1,638,061; Aug. 9.
- Rinsche, Frank C., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding machine. 1,635,691; July 12.
- Riordan, James P. P., and W. Murray, Johannesburg, Transvaal, South Africa. Hose-clamping tool. 1,619,766; Mar. 1.
- Ripley, Daniel A., Pittsburgh, Pa. Goblet or similar article. Des. 72,032; Feb. 15.
- Ripley, Melvin G., et al. (See Turver, William H., assignor.)
- Rippen, Kurt, assignor to F. Pollak, Vienna, Austria. Manufacturing homogeneous glasslike condensation products of urea and formaldehyde. 1,625,283; Apr. 19.
- Ripple, Paul W. (See McCoy, W. F., and Ripple.)
- Rippeto, Curtis E., et al. (See Smith, Robert C., assignor.)
- Rippeto, George A., et al. (See Smith, Robert C., assignor.)
- Rippey, Hugh F. (See Davidson, G., Rippey, Cone, Laucks, and Banks.)
- Rippey, Hugh F., assignor to I. F. Laucks, Inc., Seattle, Wash. Producing crackers and the products of said process. 1,633,872; June 28.
- Ripplien, Walter, Philadelphia, Pa. Lock guard. 1,618,846; Feb. 22.
- Ripplien, Walter, Philadelphia, Pa. Hydrometer. 1,620,393; Mar. 8.
- Rippingillie, Edward V., Detroit, Mich., assignor to The Grolan Manufacturing Company, Dayton, Ohio. Liquid-level indicator. 1,630,029; May 24.
- Rippl, Charles H., East Cleveland, assignor to The Clark Controller Company, Cleveland, Ohio. Overload device for alternating-current motors. 1,621,173; Mar. 15.
- Ripple, Percy H., assignor to The American Hardware Corporation, New Britain, Conn. Doorcheck. 1,629,120; May 17.
- Rippy, Autv C., Amarillo, Tex. Snubber. 1,614,392; Jan. 11.
- Rippy, Autv C., Amarillo, Tex. Cultivator attachment. 1,617,029; Feb. 8.
- Risberg, Johannes V. M., Soderatelj, assignor to Aktiebolaget Baltic, Stockholm, Sweden. Self-adjusting centrifugal bowl. 1,624,117; Apr. 12.
- Risdon Manufacturing Company, The. (See Beardsley, Charles E., assignor.)
- Risher, Merrill C., Olifton, Okla. Rotary drill connection. 1,650,301; Nov. 22.
- Rising, Harry A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stork-fitting machine. 1,649,253; Nov. 15.
- Risher, Frank V., Lakewood, Ohio. Burner. Re16,574; Mar. 15.
- Risinger, Frank V., Lakewood, Ohio. Burner grid and making the same. 1,642,426; Sept. 13.
- Risley, Elton, Ventnor, N. J. Suction pipe. 1,631,761; June 7.
- Riss, Arthur I., assignor to U. S. Bottlers Machinery Company, Chicago, Ill. Cap-feeding appliance. 1,615,040; Jan. 18.
- Rissler, Albin P., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake beam and constructing the same. 1,624,508; Apr. 12.
- Ritchey, Edward A., Huntington Beach, Calif. Perforator. 1,642,970; Sept. 20.
- Ritchey, Park D., Poughkeepsie, and R. A. Holt, Wap-pineers Falls, assignors to Standard Gage Company, Inc., Poughkeepsie, N. Y. Adjustable pin gage. 1,638,005; May 24.
- Ritchie, W. C., & Company. (See Stock, Julius A., assignor.)
- Ritchie, William G., Salt Lake City, Utah. Lifting jack. 1,616,550; Feb. 8.
- Ritchie, William G., Salt Lake City, Utah. Meat-cutting machine. 1,633,662; Dec. 27.
- Rite Hardware Company. (See Kipper, Allen F., assignor.)
- Ritter, William D., et al. (See Gage, Charles H., assignor.)
- Ritter, William D., et al., trustees. (See Gage, Charles H., assignor.)
- Ritow, Herman, Chicago, Ill. Skate. 1,620,232; Mar. 8.
- Ritow, Herman, Chicago, Ill. Slide rule. 1,632,505; June 14.

- Ritt, Michael J., Chicago, Ill. Engine-mounting means. 1,618,354; Feb. 22.
- Rittenhouse, Charles, Jr., Cincinnati, Ohio. Combined signal lamp and supporting bracket for automobiles and other vehicles. Des. 73,093; July 19.
- Rittenhouse, Walter B. (See Fisher, H. H., and Rittenhouse.)
- Ritter Dental Manufacturing Co. (See May, Adam J., assignor.)
- Ritter, Frederick D., assignor to Weatherproof Body Corporation, Corunna, Mich. Door and curtain. 1,626,757; May 3.
- Ritter, George, Brooklyn, assignor of one-half to E. Mueller, Ridgewood, N. Y. Sausage hanger. 1,616,231; Feb. 1.
- Ritter, George, Perth Amboy, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Automatic winding and measuring machine. 1,622,254; Mar. 22.
- Ritter, George, Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Flexible shingle. 1,631,936; June 7.
- Ritter, George, Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Shingle. 1,640,806; Aug. 30.
- Ritter, George F., assignor to The Tillotson Manufacturing Company, Toledo, Ohio. Carburetor. 1,632,198; June 14.
- Ritter, Heinrich, Esslingen, assignor to the Firm Dr. Finkh Apparate-Gesellschaft m. b. H., Stuttgart, Germany. Food preserving jar. 1,623,754; Apr. 5.
- Ritter, John C., Portland, Oreg. Cream scoop. 1,622,348; Mar. 29.
- Ritter, John G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Contour recorder. 1,649,042; Nov. 15.
- Ritter, John G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Truck structure. 1,650,960; Nov. 29.
- Ritter, John J., assignor to The W. B. Barvin Manufacturing Company, Urbana, Ohio. Plane. 1,642,044; Sept. 13.
- Ritter, Julius, Jr., and M. Rasmussen, assignors to Hartmann Trunk Company, Racine, Wis. Automatic trunk lock. 1,613,056; Jan. 4.
- Ritter, Julius, Jr., assignor to Hartmann Trunk Company, Racine, Wis. Trunk drawer attachment. 1,634,302; July 5.
- Ritter, Julius, Jr., assignor to Hartmann Trunk Company, Racine, Wis. Garment retainer. 1,648,195; Nov. 8.
- Ritter, Julius, Jr., and M. J. Wisby, assignors to Hartmann Trunk Company, Racine, Wis. Drawer-locking device. 1,649,188; Nov. 15.
- Ritter, Julius, Jr., assignor to Hartmann Trunk Company, Racine, Wis. Wardrobe-trunk interlocking trimming. 1,652,640; Dec. 13.
- Ritter, Julius, Jr., and M. Rasmussen, assignors to Hartmann Trunk Company, Racine, Wis. Garment-hanger retainer. 1,652,641; Dec. 13.
- Rittner, Heinrich. (See Petzold, G., and Rittner.)
- Ritz, Charles C., Forest Hills, N. Y. Control for music-box movements. 1,618,226; Feb. 22.
- Ritz, Emil, Mount Healthy, assignor to The Hisey-Wolf Machine Company, Cincinnati, Ohio. Grinding-wheel guard. 1,636,459; Aug. 9.
- Ritz, Otto, Brooklyn, N. Y. Headlight. 1,621,085; Mar. 15.
- Ritz Woller, Oliver C., Chicago, Ill. Combined lamp and license-plate holder or similar article. Des. 72,033; Feb. 15.
- Ritz Woller, Oliver C., Chicago, Ill. Combined lamp and license-plate holder or similar article. Des. 72,034; Feb. 15.
- Ritz Woller, Oliver C., Chicago, Ill. Combined lamp and license-plate holder or similar article. Des. 72,035; Feb. 15.
- Ritz-Woller, Oliver C., Chicago, Ill. Fluid-pressure-operated device. 1,613,904; Jan. 11.
- Ritzerfeld, Wilhelm, Berlin-Charlottenburg, Germany. Multiplying recorder. 1,615,930; Oct. 18.
- Rizot, George, assignor, by mesne assignments, to Lyons Piece Dye Works, Paterson, N. J. Weighted artificial silk and its production. 1,631,062; May 31.
- Rix, Frank, assignor of one-half to J. F. Siegel, New York, N. Y. Oil burner. 1,625,334; Apr. 19.
- Rixdorf, Ragnar J., Paris, France, assignor to P. M. Marko, Brooklyn, N. Y. Apparatus for applying paste to battery grids. 1,653,587; Dec. 20.
- Riza, Will E., Nemo, Tex. Cotton harvester. 1,652,459; Dec. 13.
- Rizzo, Earl A., assignor of one-half to E. F. Stella, Los Angeles, Calif. Refrigerator. 1,640,235; Aug. 23.
- Rizzo, Felice, Schenectady, N. Y. Signal transmitter. 1,630,764; May 31.
- Roach-Appleton Manufacturing Company. (See Fischer, Albert C., assignor.)
- Roach-Appleton Manufacturing Company. (See Ginsburg, Henry, assignor.)
- Roach, Emmett J. (See Meeker, J. A., and Roach.)
- Roach, Laura E., New York, N. Y. Glove and stocking form. 1,616,510; Feb. 8.
- Roach, Thomas W., Seattle, Wash. Oil burner. 1,641,356; Sept. 6.
- Roan, John M. (See Carney, Samuel E., assignor.)
- Roan, Luther, Rives, Mo. Cable-operated conveyor. 1,620,785; Mar. 16.
- Roark, Robert H., Waco, Tex. Ice-scoring machine. 1,644,896; Oct. 4.
- Roark, Ruric C., Washington, D. C. Fumigant. 1,649,254; Nov. 15.
- Roat, Harry A. (See Messinger, George M., assignor.)
- Roat, Harry A., Manchester, N. Y., assignor of one-half to G. N. Messinger, Morganza, Pa. Bait box. 1,619,034; Mar. 1.
- Roaten, James T., and R. Bedford, Sheridan, Wyo. Motor-vehicle fuel tank. 1,640,722; Aug. 30.
- Roath, Lynn L. (See Lewis, F. K., and Roath.)
- Robb, Edward A., St. Louis, Mo. Throttle-controlling means for internal-combustion engines. 1,613,197; Jan. 4.
- Robb, George W. (See Harrington, John H., assignor.)
- Robb, James R., Oilton, Okla. Adjustable bearing plate for wire-line pumping jacks. 1,652,048; Dec. 6.
- Rob, John, Cleveland, Ohio, assignor to Koehring Company, Milwaukee, Wis. Cement-measuring and water-proportioning device. 1,628,915; May 17.
- Robbert, Hubert W., Campbell, Nebr. Stove-fuel igniter. 1,625,870; Apr. 26.
- Robbins, Azor D., assignor to International Motor Company, New York, N. Y. Stub-axle mount. 1,654,142; Dec. 27.
- Robbins, Chester C., assignor to B. C. Ames Co., Waltham, Mass. Cylinder gauge. 1,619,370; Mar. 1.
- Robbins, George, Minneapolis, Minn. Coat. Des. 74,121; Dec. 20.
- Robbins, Isaac, Bayonne, N. J. Building block. 1,649,780; Nov. 15.
- Robbins, Meyer, Malden, Mass. Steam generator. 1,627,668; May 10.
- Robbins & Myers Company, The. (See Baker, Edgar N., assignor.)
- Robbins, William H., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool machine. 1,625,158; Apr. 19.
- Robbins, William H., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool-removing machine. 1,625,159; Apr. 19.
- Robbins, William H., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool buffer. 1,636,196; July 19.
- Robe, Robert S. (See Graham, G. C., and Robe.)
- Robel & Co. (See Langkammerer, Karl, assignor.)
- Röber, Constantin F., assignor to "Universelle" Cigarettenmaschinenfabrik J. C. Müller & Co., Dresden, Germany. Device for intermittently driving cigarette-machine shafts. 1,623,978; Apr. 12.
- Röber, Constantin F., assignor to the Firm "Universelle" Cigaretten-Maschinen Fabrik J. C. Müller & Co., Dresden, Germany. Machine for the manufacture of chocolate cigarettes. 1,642,894; Sept. 20.
- Robert, Philip, Milhurst, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Electrical connection. 1,631,550; June 7.
- Roberson, Harvey D. (See Jones, G. W., and Roberson.)
- Roberson, Ross T., South Taft, Calif. Snubbing shock absorber. 1,613,198; Jan. 4.
- Roberts, W. H. (See Chancey, William H., assignor.)
- Robert, Augusta E., Oakland, Calif. Curtain support. Re16,545; Feb. 8.
- Robert Baby Limited. (See Soenens, Maurice, assignor.)
- Robert, Nelly M., Cleveland, Ohio. Foldable wardrobe. 1,629,392; May 17.
- Robert Bros. (See Lofman, Charles, assignor.)
- Roberts, Arthur L., Jackson, assignor to Piggy Wigly Corporation, Memphis, Tenn. Turnstile. 1,652,958; Dec. 13.
- Roberts, Austin, Pretoria, Transvaal, South Africa. Turning stand for road vehicles. 1,624,981; Apr. 19.
- Roberts Brass Manufacturing Company, The. (See Roberts, Earl W., assignor.)
- Roberts Brass Company, The. (See Zannoth, Robert C., assignor.)
- Roberts Brass Manufacturing Company. (See Plaut, Robert C., assignor.)
- Roberts, Charles A., Butte, Mont. Insole. 1,630,135; May 24.
- Roberts, Charles A., Butte, Mont. Gasoline-tank-cap lock. 1,637,279; July 26.
- Roberts, Charles W., Centerville, assignor of one-half to J. H. Hill, Richmond, Ind. Greenhouse bench. 1,618,999; Mar. 1.
- Roberts, Chester J., Milwaukee, assignor to Northern Paper Mills, Green Bay, Wis. Core-tube cutter. 1,641,886; Sept. 6.
- Roberts, Claudius H. M. St. Louis, assignor to Wm. S. Barnhart & Company, Webster Groves, Mo. Separating apparatus for wells. 1,651,968; Dec. 6.
- Roberts, Clifford A., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Tap changer. 1,641,294; Sept. 6.
- Roberts, Earl W., assignor to The Roberts Brass Manufacturing Company, Detroit, Mich. Sprinkler. 1,647,582; Nov. 1.
- Roberts, Edric M. (See Fowler, C. R., and Roberts.)
- Roberts, Edward F., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,614,992; Jan. 18.
- Roberts, Edward H., Kansas City, Mo. Picture frame. 1,637,589; Aug. 2.

- Roberts, Edwin C., San Diego, Calif. Fishing reel. 1,617,543; Feb. 15.
- Roberts, Ellis, East Palestine, Ohio. Building block. 1,625,442; Apr. 5.
- Roberts, Ervin E., San Diego, Calif. Air buoy for bathers and the like. 1,617,723; Feb. 15.
- Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Screen for centrifugal baskets. 1,625,376; Apr. 19.
- Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Backing for centrifugal baskets. 1,625,377; Apr. 19.
- Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal machine. 1,627,868; May 10.
- Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Belt-tensioning device. 1,652,799; Dec. 13.
- Roberts, Frank B., Anaheim, assignor of one-half to W. G. Huntington, Sawtelle, Calif. Stacking and conveying mechanism. 1,646,067; Oct. 15.
- Roberts, Frank B., Anaheim, assignor of one-half to W. G. Huntington, Sawtelle, Calif. Stacking and conveying mechanism. 1,646,881; Oct. 18.
- Roberts, Frank E., Dayton, assignor of one-half to V. Spaite, Oakwood, Ohio. Furnace and boiler cleaner. 1,647,817; Nov. 5.
- Roberts, Fred, Portland, Oreg. Comb for hair cutting. 1,627,408; May 3.
- Roberts, Fred T., Yonkers, assignor to Paramount Rubber Consolidated Inc., Tuckahoe, N. Y. Making hollow rubber articles. 1,625,394; Apr. 19.
- Roberts, Fred T., Yonkers, assignor to Paramount Rubber Consolidated Inc., Tuckahoe, N. Y. Making hot-water bottles, douche bags, etc. 1,625,395; Apr. 19.
- Roberts, Fred T., Upper Montclair, and W. E. Roberts, assignors to Paramount Rubber Consolidated, Inc., Little Falls, N. J. Making inflated balls. 1,649,734; Nov. 15.
- Roberts, Frederick (See Fuzina, J. A., and Roberts.)
- Roberts, Frederick R., Brooklyn, N. Y. Hatband fastener and affixing handbands. 1,653,732; Dec. 27.
- Roberts, George D., Hartford, Conn. Condenser for automobile radiators. 1,634,211; June 28.
- Roberts, George W., Vancouver, British Columbia, Canada. Locomotively-discharge raft. 1,634,888; July 5.
- Roberts, Glen, and M. Dystine, Minneapolis, Minn. Screw clamp. 1,616,232; Feb. 1.
- Roberts, Grant W., Manufacturing Co. (See Roberts, Grant W., assignor.)
- Roberts, Grant W., assignor to Grant W. Roberts Manufacturing Co., Chicago, Ill. Dirigible vehicle. 1,652,049; Dec. 6.
- Roberts, Henry L., Grimsby, Ontario, Canada. Refrigerator. 1,613,721; Jan. 11.
- Roberts, Horace L., Mount Vernon, N. Y. Feeding mechanism for tag-stripping machines and the like. 1,625,157; Apr. 19.
- Roberts, Hugh L., Roanoke, Va. Drifting valve. 1,647,887; Nov. 1.
- Roberts, John, Greenwich, Conn. Detachable finger bowl. 1,644,612; Oct. 4.
- Roberts, John C., Harrisburg, Tex. Valve lifter. 1,620,835; Mar. 15.
- Roberts, John G., Dobbs Ferry, assignor to Western Electric Company, Incorporated, New York, N. Y. Loaded signaling conductor. 1,623,555; Apr. 5.
- Roberts, John G., Dobbs Ferry, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter. 1,650,740; Nov. 29.
- Roberts, Joseph, Englewood, R. I., assignor, by mesne assignments, to Proctor & Schwartz, Inc., Philadelphia, Pa. Drier. 1,646,259; Oct. 18.
- Roberts, Kenneth A. (See Humphris, Frank, assignor.)
- Roberts, Lawson L., Chilton, Tex. Portable toilet or convenience. 1,652,551; Dec. 13.
- Roberts, Millard J., Tonawanda, N. Y. Gas burner. 1,618,024; Feb. 15.
- Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company. Locomotive-booster apparatus. 1,647,171; Nov. 5.
- Roberts, Montague H., Englewood, N. Y., assignor to Franklin Railway Supply Company. Power reverse gear. 1,651,838; Dec. 6.
- Roberts Numbering Machine Company. (See Kern, Maxilian H., assignor.)
- Roberts, Odin, Boston, Mass. Collar and cuff. 1,631,985; June 14.
- Roberts, Oren F., assignor to McGee Manufacturing Company, Kansas City, Mo. Vending apparatus. 1,615,885; Feb. 1.
- Roberts, Ovid E., Jr., Washington, D. C. Manufacture of shaped articles of set plastic material. 1,628,807; May 17.
- Roberts, Owen W. (See Spencer, C. E., and Roberts.)
- Roberts, Park D. (See Roberts, Webster M. and P. D.)
- Roberts, Roy W. (See Elmer, Frank E., and Roberts.)
- Roberts, Sarah, Oakland, Calif. Slipper. Dvs. 72,036; Feb. 15.
- Roberts and Schaefer Company. (See Arms, Ray W., assignor.)
- Roberts, Theodore C., Corporation, New York, N. Y. Supporting vibratory structures. 1,641,602; Sept. 6.
- Roberts Thomas C., Long Beach, Calif. Automatic golf-ball tee. 1,637,537; Aug. 2.
- Roberts, Thomas F., Peckham, London, England. Control of aeroplanes and the like. 1,622,208; Mar. 22.
- Roberts, Thomas H. (See Johnson, L. H., and Roberts.)
- Roberts, Thomas M., Villisca, Iowa. Seed-corn tester. 1,644,895; Oct. 11.
- Roberts, Uriah, Berryville, Ark. Advertising sign. Des. 73,580; Oct. 4.
- Roberts, Walter S. (See Nicholson, J. H., and Roberts.)
- Roberts, Walter S., Ormskirck, assignor of one-half to The Railway Signal Company Limited, London, England. Token system. 1,632,249; June 14.
- Roberts, Walter S., Ormskirck, and J. H. Burton, Liverpool, assignors of one-third to The Railway Signal Company Limited, London, England. Traffic-controlling apparatus for railways. 1,615,652; Jan. 25.
- Roberts, Webster M. and P. D., St. Joseph, Mo. Ice-cream-cone-making machine. 1,616,345; Jan. 25.
- Roberts, William E. (See Roberts, Fred T. and W. E.)
- Roberts, William E., Kenosha, Wis. Cuff link. 1,627,460; May 3.
- Roberts, William E., Yonkers, assignor to Paramount Rubber Consolidated Inc., Tuckahoe, N. Y. Making hot-water bottles. 1,625,396; Apr. 19.
- Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Grading machine. 1,640,372; Aug. 30.
- Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,641,237; Sept. 6.
- Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Stenosing-inserting machine. 1,651,469; Dec. 6.
- Robertshaw, George A., Greensburg, Pa. Thermostat. 1,623,755; Apr. 5.
- Robertshaw, George A., Greensburg, Pa. Fuel-control system. 1,627,341; May 3.
- Robertshaw, George A., Greensburg, Pa. Valve. 1,651,548; Dec. 6.
- Robertshaw, George A., and H. T. Hood, Greensburg, assignors to Robertshaw Thermostat Company, Youngwood, Pa. Electric thermostat. 1,638,410; Aug. 9.
- Robertshaw Thermostat Company. (See Robertshaw, G. A., and Hood, assignors.)
- Robertson, Alexander D. (See Wilson, A. A., and Robertson.)
- Robertson, Charles A., Jackson, Mich., assignor to Montgomery Ward & Company, Chicago, Ill. Governor for explosive engines. 1,627,118; May 3.
- Robertson, Douglas, Nooltorta, Australia. Attachment of motor vehicle to rod springs. 1,654,158; June 28.
- Robertson, Edmond, Newport, Ky. Filter. 1,629,085; May 17.
- Robertson, H. H., Company. (See Beach, Edward F., assignor.)
- Robertson, H. H., Company. (See Young, James H., assignor.)
- Robertson, Harry C., Seattle, Wash. Power-operated window-cleaning device. 1,644,545; Oct. 4.
- Robertson, Harry M., Lakewood, Ohio. Apparatus for burning or calcining materials. 1,621,222; Mar. 15.
- Robertson, Harry M., Lakewood, Ohio. Apparatus for treating articles. 1,627,742; May 17.
- Robertson, Harry M., Lakewood, Ohio. Kiln truck. 1,636,073; July 19.
- Robertson, Harry M., Lakewood, Ohio. Apparatus for producing smoke. 1,644,693; Oct. 11.
- Robertson, Henry, and H. Hirdler, Long Prairie, Minn. Boat-anchor hoist. 1,625,871; Apr. 26.
- Robertson, Henry E., et al. (See Broyles, John E., assignor.)
- Robertson, James E., Dunedin, New Zealand. Lamp of motor vehicles. 1,653,064; Dec. 20.
- Robertson, John K., S. Duquenois, Whitehall, Bristol, England. Web-feeding mechanism. 1,617,411; Feb. 15.
- Robertson, John, Co. (See Jacobson, Conrad C., assignor.)
- Robertson, John W. (See de Lugo, A., and Robertson.)
- Robertson, Neil, Vancouver, British Columbia, Canada. Domestic fireplace structure. 1,651,696; June 7.
- Robertson, Robert L., Rocksprings, Tex. Water motor. 1,622,610; Mar. 29.
- Robertson, Robert D., Windsor, Ontario, Canada. Loading device. 1,620,039; Mar. 8.
- Robertson, Robert H., Dunfermline, Scotland, assignor to Sears, Roebuck & Co., Chicago, Ill. Tablecloth. Des. 74,154; Dec. 27.
- Robertson, Robert R., Evanston, Ill. Copying camera. 1,612,987; Jan. 4.
- Robertson, Robert S. (See Bumstead, R. W., and Robertson.)
- Robertson, William, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,629,736; May 24.
- Robertson, William H. (See Fuller, F. L., and Robertson.)
- Robertson, William H., Dayton, Ohio. Travelling conveyor. 1,635,501; Apr. 19.
- Robertson, William H., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash register. 1,613,129; Jan. 4.
- Robertson, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,616,119; May 3.
- Robertson, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,629,537; May 24.

- Robertson, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,638,275; Aug. 9.
- Robertson, William W. (See Dacey, E. J., and Robertson.)
- Robertson, William W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Check for Axminster-loom needle motion. 1,651,549; Dec. 6.
- Robeson, Hawkins E., Garner, T. Railway motor car. 1,628,513; May 10.
- Robeson-Rochester Corporation. (See Schott, Howard H., assignor.)
- Robichaux, Hermogene, Franklin, La. Animal trap. 1,616,334; Feb. 10.
- Robillard, Godfrey N. (See Blackham, N. A., and Robillard.)
- Robin, Jacob I., New York, N. Y. Casing for a loud speaker. Des. 73,759; Nov. 1.
- Robin, Joseph E., New York, N. Y. Method and apparatus for fire protection in moving-picture machines. 1,619,957; Mar. 8.
- Robin, Joseph E., New York, N. Y. Coordinating signaling systems. 1,645,024; Oct. 11.
- Robin, Marcel A., Port-au-Prince, Haiti. Punctureproof cushion wheel. 1,637,280; July 26.
- Robins Conveying Belt Company. (See Tuite, F. J., and Dodge, assignors.)
- Robins, Frederick G., Montreal, Quebec, Canada. Wind-sailing machine. 1,662,050; Dec. 1.
- Robins, Harry M., Glen Ridge, and J. J. Higgins, East Orange, N. J., assignors to Westinghouse Lamp Company. Automatic flashing machine. 1,626,995; May 3.
- Robins, Samuel D., Stamford, Conn. Circuit-closing device. 1,636,245; July 19.
- Robinson, Albert E., assignor to The American Tool Works Company, Cincinnati, Ohio. Friction-clutch mechanism. 1,625,397; Apr. 19.
- Robinson, Arthur, Minneapolis, Minn. Figure projecting toy. 1,625,430; Apr. 19.
- Robinson, Bld. Chicago, Ill. Centrifugal switch. 1,647,374; Nov. 1.
- Robinson, Charles B., assignor to The Irwin Auger Bit Company, Wilmington, Ohio. Boring and reaming tool. 1,622,209; Mar. 22.
- Robinson, Charles E., and R. S. Carty, Detroit, Mich. Snow-removing machine. 1,642,895; Sept. 20.
- Robinson, Clarence R., South Orange, N. J., assignor to Robinson Fibre Corporation, Wilmington, Del. Treatment of paper pulp. 1,644,447; Oct. 4.
- Robinson, Conway, Baltimore, Md., assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y. Producing metallic carbon. 1,637,052; July 26.
- Robinson, David. (See Blackmore, W., Bazeley, and Robinson.)
- Robinson, David. (See Willison, J., and Robinson.)
- Robinson, David, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Coupler. 1,647,544; Nov. 1.
- Robinson, Douglas G., Weymouth, assignor of one-half to W. E. Collins, London, England. Electrical fuse. 1,633,955; June 28.
- Robinson, Edward A., Atlanta, Ga. Well-drilling tool. 1,634,686; July 5.
- Robinson, Edward A., assignor of one-half to himself and one-half to E. E. Workman, Montreal, Quebec, Canada. Connector-head support. 1,626,630; May 3.
- Robinson, Edward A., assignor of one-half to himself and one-half to E. E. Workman, Montreal, Quebec, Canada. Terminal sleeve for train pipes in connector heads. 1,640,807; Aug. 30.
- Robinson, Edward A., assignor to himself and E. E. Workman, Montreal, Quebec, Canada. Automatic train-pipe connector. 1,645,025; Oct. 11.
- Robinson, Edward P., Mount Vernon, N. Y. Automobile sander. 1,622,165; Mar. 22.
- Robinson, Edward P., Mount Vernon, N. Y. Automobile sander. 1,648,023; Nov. 8.
- Robinson, Edward W. (See Fulenwider, Jesse and H., Robinson, and Norris.)
- Robinson, Ernest, London, England. Cardboard and like box. 1,615,773; Jan. 25.
- Robinson, Ernest Y., Manchester, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Seal, joint, and the like of vacuum containers. 1,639,575; Aug. 16.
- Robinson Fibre Corporation. (See Robinson, Clarence R., assignor.)
- Robinson, Francis T., Brooklyn, assignor to Arkell Safety Bag Company, New York, N. Y. Bag or lining. 1,624,626; Apr. 12.
- Robinson, Franklin P. (See Robinson, William F. and E. P.)
- Robinson, Frederick, Seaforth, Ontario, Canada. Boiler compound. 1,628,514; May 10.
- Robinson, Frederick, Brooklyn, N. Y. Spectacle or eyeglass case. 1,649,255; Nov. 15.
- Robinson, G. L., et al. (See McKenney, F. Y., and Robinson, assignors.)
- Robinson, George A., Battle Creek, Mich., assignor to Pneumatic Seal Corporation, Ltd., Norfolk Downs, Mass. Compensator for carton conveyers. 1,636,014; July 19.
- Robinson, George O. (See Mitchell, D. W., and Robinson.)
- Robinson, George R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,613,130; Jan. 4.
- Robinson, George W., assignor of one-half to F. N. Dorland, San Diego, Calif. Piston. 1,645,256; Oct. 11.
- Robinson, Grover P., Summit, and W. T. Blackwell, Westfield, N. J.; said Robinson assignor, by mesne assignments, to said Blackwell. Lighting fixture. 1,627,461; May 3.
- Robinson, Harvey W., Lakemore, Ohio. Cord take-up. 1,614,393; Jan. 11.
- Robinson, Harvey W., New Orleans, La. Current motor. 1,631,647; June 7.
- Robinson, Henry, Lyndhurst, N. Y. Vegetable-paring machine. 1,644,448; Oct. 4.
- Robinson, Herbert W., West Bromwich, England. Manufacture of match-striking compositions. 1,640,224; Aug. 23.
- Robinson, Herbert W., Birmingham, and D. W. Parkes, West Bromwich, England. Removal of tar acids from ammonia liquor and other liquors. 1,653,783; Dec. 27.
- Robinson, Holton D., New York, N. Y. Cable squeezer. 1,642,508; Sept. 13.
- Robinson, Ira L. (See Murphy, Ralph L., assignor.)
- Robinson, Ivan C., Ferguson, Mo. Extended hinged engine frame. 1,646,931; Oct. 25.
- Robinson, J. L., Inc. (See Robinson, John L., assignor.)
- Robinson, James. (See Prince-Smith, W., and Robinson.)
- Robinson, James K., jr., Altoona, Pa. Glass battery box. 1,629,969; May 24.
- Robinson, James K., jr., Altoona, Pa. Multicell battery box mold. 1,633,036; June 21.
- Robinson, James M. (See Murphy, John F., assignor.)
- Robinson, Joseph, Jr., Chicago, Ill. Fire door for furnaces. 1,628,274; May 10.
- Robinson, John L., assignor to J. L. Robinson, Inc., Reno, Nev. Eye bandage. 1,642,661; Sept. 13.
- Robinson, John S., Beacon, N. Y. Signal means for hat formers. 1,650,467; Nov. 22.
- Robinson, John T., Company. (See Gooding, George E., assignor.)
- Robinson, Joseph. (See Baldwin, G. E., assignor.)
- Robinson, Joseph. (See Leclerc, Albert A., assignor.)
- Robinson, Joseph, Jersey City, N. J. Ornamental wool felt and making same. 1,619,681; Mar. 1.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,631,551; June 7.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,631,552; June 7.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,633,226; June 21.
- Robinson, Joseph, New York, N. Y. Connector head. 1,633,227; June 21.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,633,679; June 28.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,634,951; July 5.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,635,345; July 12.
- Robinson, Joseph, Morristown, N. J. Automatic train-pipe coupling. 1,632,714; June 14.
- Robinson, Joseph, Morristown, N. J. Automatic train-pipe connector. 1,642,748; Sept. 20.
- Robinson, Joseph V., New York, N. Y. Automatic train-pipe connector. 1,630,582; May 31.
- Robinson, Joseph V., New York, N. Y. Automatic train-pipe connector. 1,650,850; Nov. 29.
- Robinson, Junius C., Cincinnati, Ohio. Sled. 1,613,722; Jan. 11.
- Robinson, Lula H., Dallas, Tex. Adjusting and holding device for shade and drapery supports. 1,623,274; Apr. 5.
- Robinson, Lula H., Dallas, Tex. Adjustable rod support for shades, curtains, and drapes. 1,625,160; Apr. 19.
- Robinson, Lula H., Dallas, Tex. Roller suspension for shade and drapery supports. 1,637,162; July 26.
- Robinson, Lula H., Dallas, Tex. Device for vertically adjusting drapery hangers. 1,638,411; Aug. 9.
- Robinson, Lula H., Dallas, Tex. Vertical adjuster for shade and curtain hangers. 1,639,668; Aug. 23.
- Robinson, Manuel G. (See Moss, S. A., and Robinson.)
- Robinson, Nathan H., Braintree, Mass. Wrench. 1,637,590; Aug. 2.
- Robinson, Nathan H., Braintree, Mass. Wrench. 1,649,128; Nov. 15.
- Robinson, Percy G. (See Margatson, O., and Robinson.)
- Robinson, Percy G., Streatham Hill, London, England. Locomotive. 1,648,059; Nov. 8.
- Robinson, R. E., jr., et al. (See McKenney, F. Y., and Cheney, assignors.)
- Robinson, Raymond D., and C. S. Ash, assignors to California Packing Corporation, San Francisco, Calif. Treating dried fruit. 1,649,488; Nov. 15.
- Robinson, Robert M., assignor to Cheatham Electric Switching Device Co., Inc., Louisville, Ky. Switch and signal system. 1,631,648; June 7.
- Robinson, Robert R., Los Angeles, assignor to L. L. Hicks, Oxnard, Calif. Vending apparatus for liquids. 1,628,194; May 10.
- Robinson, Robert W., jr., et al. (See Johnson, Alvin L., assignor.)
- Robinson, Roy H., Chicago, Ill. Tennis racket. 1,636,867; July 26.

- Robinson, Samuel F., Columbus, Ohio. Curette. 1,628,275; May 10.
- Robinson, Stanley I., Nampa, Idaho. Paint and plastic substance. 1,635,095; July 5.
- Robinson, Thomas, Babylon, N. Y., assignor to Anacanda Sales Company. Roofing element. 1,612,885; Jan. 4.
- Robinson, Thomas, Babylon, N. Y., assignor to Anacanda Sales Company. Roofing element. 1,631,604; June 7.
- Robinson, Thomas, New York, N. Y. Protected metal roofing. 1,636,388; July 19.
- Robinson, Thomas, New York, N. Y. Process and apparatus for making roofing elements. 1,640,906; Aug. 30.
- Robinson, Thomas, assignor to Anacanda Sales Company, New York, N. Y. Roofing element. 1,638,746; Aug. 9.
- Robinson, Thomas E., Philadelphia, Pa. Gate or door operating mechanism. 1,632,506; June 14.
- Robinson, Thomas H. (See Bell, Charles E., assignor.)
- Robinson, Thomas T., assignor to Bridgeport Brass Company, Bridgeport, Conn. Tube-bending machine. 1,624,804; Apr. 12.
- Robinson, Weed. (See Whittington, L. E., and Robinson.)
- Robinson, William F., and F. P., Kansas City, Mo. Electric-circuit tester. 1,636,707; July 26.
- Robinson, William H. (See Duffie, Allen M., assignor.)
- Robinson, William W., Kansas City, Mo. Condenser. 1,633,289; June 21.
- Robison, Daniel B., Cicero, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Substation circuit. 1,646,875; Oct. 2.
- Robison, William H., Sparta, Ill. Combined feeder and waterer for poultry. 1,614,394; Jan. 11.
- Robson, Arthur D. (See Hirsch, J. E., and Robson.)
- Robson, Clarence E., Philadelphia, Pa. Making roller bearings. 1,639,351; Aug. 16.
- Roby, Frank M., assignor to H. B. Thurston, Cleveland, Ohio. Low-water alarm. 1,629,929; May 24.
- Roby, J. J., et al. (See Benson, Samuel C., assignor.)
- Roby, Luther E., Peoria, Ill. Fertilizer distributor. 1,619,795; Mar. 1.
- Roch, Sheldon S., assignor, by mesne assignments, to The Miller Company, Meriden, Conn. Automatic dipping machine. 1,628,431; May 10.
- Rocco, Michael. (See Rocco, Ralph, assignor.)
- Rocco, Ralph, assignor of one-half to M. Rocco, Syracuse, N. Y. Padding for clothes-pressing machines. 1,647,545; May 1.
- Rochas, Marcel, Paris, France, assignor to David Crystal, Inc., New York, N. Y. Dress. Des. 73,011; July 5.
- Roche, John, Hoboken, N. J., assignor to American Lead Pencil Company. Process and apparatus for marking articles. 1,619,487; Mar. 1.
- Rochette, Phoebe M., Cleveland, Ohio. Mop. 1,619,040; Mar. 1.
- Rochefort, Francois, Paris, France. Apparatus for distributing fuel. 1,614,493; Jan. 18.
- Rochefort, Francois, Paris, France. Fuel-injection device for internal-combustion engines. 1,616,335; Feb. 1.
- Rochester, Germeide Company Inc. (See Crowell, Clarence P., assignor.)
- Rochet, Joseph, assignor to Compagnie de Produits Chimiques et Electrometallurgiques-Alais Froges et Camargue, Paris, France. Manufacture of hydrogen. 1,617,965; Feb. 15.
- Rochette, Henry C. (See Bennett, M. H., and Rochette.)
- Rochette, Henry C., assignor to Scovill Manufacturing Company, Waterbury, Conn. Relay. 1,638,098; Aug. 9.
- Ročić, Ivan, New York, N. Y. Building wall and block construction. 1,614,035; Oct. 4.
- Rock Asphalt & Construction Co. Inc. (See Bauer, Gustav F. C., assignor.)
- Rock, George L., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating cores. 1,632,853; June 21.
- Rockbestos Products Corporation. (See Mau, Edward A., assignor.)
- Rocke, Edwin C., deceased, Bloomington, Ill.; J. Rocke, administrator. Adjustable drain board for wingers. 1,634,799; July 5.
- Rocke, John, administrator. (See Rocke, Edwin C.)
- Rocke, John, Bloomington, Ill. Agitator for washing machines. Re16,743; Sept. 20.
- Rocke, John, Bloomington, Ill. Agitator for washing machines. 1,617,030; Feb. 8.
- Rocke, John, Bloomington, Ill. Washing-machine wringer mechanism. 1,642,130; Sept. 13.
- Rockefeller, John W., jr., assignor to John Chatillon & Sons, New York, N. Y. Scale head. Des. 73,237; July 5.
- Rockefeller, John W., jr., assignor to John Chatillon & Sons, New York, N. Y. Scale. 1,630,096; May 24.
- Rockefeller, John W., jr., assignor to John Chatillon & Sons, New York, N. Y. Spring scale. 1,636,708; July 26.
- Rockefeller, John W., jr., assignor to John Chatillon & Sons, New York, N. Y. Scale. 1,611,603; Sept. 6.
- Rockenstre, Walter C., Waterfall, N. Y. Uncoupling mechanism for railway cars. 1,618,605; Feb. 22.
- Rockenstre, Walter C., Waterfall, N. Y. Roller side bearing. 1,649,189; Nov. 15.
- Rockford Drilling Machine Company. (See Stickney, Charles A., assignor.)
- Rockford Machine Tool Company. (See Newton, Harry B., assignor.)
- Rockford Steel Furniture Company. (See Faust, Levin, assignor.)
- Rockford Steel Furniture Company. (See McClafferty, Harry J., assignor.)
- Rock Island Plow Company. (See Heider, Henry J., assignor.)
- Rock Island Plow Company. (See Kaupke, Lee H., assignor.)
- Rock Island Stove Co. (See Mitchell, Leon W., assignor.)
- Rockland & Rockport Lime Corporation. (See Wood, George B., assignor.)
- Rockley, Benjamin, Northport, Wash. Saw set. 1,613,199; Jan. 4.
- Rockman, William K., New York, N. Y. Fountain brush. 1,621,432; Mar. 15.
- Rockwell, Byrd C., St. Joseph, Mo. Knife glue clamp. 1,619,989; Mar. 8.
- Rockwell, Edward A., New York, N. Y., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation. Liquid-feeding apparatus. 1,649,190; Nov. 15.
- Rockwell, Forest A., Detroit, Mich. Pin-ball game device. 1,647,583; Nov. 1.
- Rockwell, Harry J., Bellflower, Calif. Thermostatic gas regulator. 1,635,559; July 12.
- Rockwell Manufacturing Co., The. (See Nuesse, Louis, assignor.)
- Rockwood, George O., Indianapolis, Ind., assignor to The Rockwood Manufacturing Company. Pulley construction. 1,613,905; Jan. 11.
- Rockwood Manufacturing Company, The. (See Rockwood, George O., assignor.)
- Rockwood Sprinkler Company. (See Carlson, Hjalmar G., assignor.)
- Rockwell, Walter W., assignor of one-half to A. R. Mellich, Chicago, Ill. Painting apparatus. 1,653,588; Dec. 20.
- Rocky Mountain Steel Products, Inc. (See Le Munyon, E. C., and Moore, assignors.)
- Rodanet, Charles H. H., Versailles, assignor to Etablissements Ed. Jaeger, Paris, France. Control for speed indicators or the like by one of the steering wheels of a motor vehicle. 1,621,433; Mar. 15.
- Rodanet, Charles H. H., assignor to Société Anonyme: Etablissements Ed. Jaeger, Paris, France. Construction of speed indicators. 1,626,697; May 3.
- Rodanet, Charles H. H., Levallois-Perret, France, assignor to Société Anonyme des Etablissements Ed. Jaeger, Paris, France. Mechanism for controlling speed indicators or the like. 1,636,074; July 19.
- Rodanet, Charles H. H., Levallois, France, assignor to Société Anonyme des Etablissements Ed. Jaeger, Switzerland. Setting and winding mechanism for watches. 1,643,630; Sept. 27.
- Rodanet, Charles H. H., Versailles, assignor to Société Anonyme Etablissements Ed. Jaeger, Paris, France. Lamp for instrument boards of motor vehicles. 1,644,277; Oct. 4.
- Roddy, John C., Palatka, Fla. Reinforcing means for flexible couplings of pipe lines. 1,625,684; Apr. 19.
- Rode, Fredrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Sheet-metal-working machine. 1,617,420; Feb. 15.
- Rode, Fredrich J., assignor to Marquette Tool & Manufacturing Co., Chicago, Ill. Die cushion. 1,626,051; Apr. 26.
- Rode, Fredrich J., assignor to Marquette Tool & Manufacturing Co., Chicago, Ill. Pressure-pad-control device. 1,629,538; May 24.
- Rode, Fredrich J., assignor to Marquette Tool & Manufacturing Co., Chicago, Ill. Pressure cushion. 1,636,110; July 19.
- Rode, Fredrich J., assignor to Marquette Tool & Manufacturing Company, Chicago, Ill. Drawing press for heating and drawing sheet metal. 1,636,111; July 19.
- Rode, Fredrich J., assignor to Marquette Tool & Manufacturing Co., Chicago, Ill. Drawing press. 1,638,881; Aug. 16.
- Rode, Fredrich J., assignor to Marquette Tool & Manufacturing Co., Chicago, Ill. Die cushion. 1,644,036; Oct. 4.
- Rodefeld, William H. (See Nickell, T. P., and Rodefeld.)
- Rodenmeyer, Elmer C., et al. (See Clay, Frank, assignor.)
- Roderberg, Jacob, assignor to Aachener Maschinenbaugesellschaft m. b. H., Aachen, Germany. Blank-feeding device for wireworking machines. 1,640,907; Aug. 30.
- Roderick, Charles E., Battle Creek, Mich. Blood-testing device. 1,617,459; Feb. 15.
- Roderick, Charles E., Battle Creek, Mich. Blood-testing device. 1,631,553; June 7.
- Roderick, Marcy B., Rutherford, N. J., assignor to W. L. Brubaker & Bros. Company, Millersburg, Pa. Flue sheet tool. 1,643,679; Sept. 27.
- Rodger Ballast Car Company. (See Hindahl, David, assignor.)
- Rodger Ballast Car Company. (See Hosceit, W. J., and Hindahl, assignors.)
- Rodger Ballast Car Company. (See Morey, William E., assignor.)
- Rodgers, Braxton F., Dallas, Tex. Gas cook stove. 1,636,030; May 24.
- Rodgers, Braxton F., Dallas, Tex. Lap huk. 1,651,909; Dec. 6.

- Rodgers, Claude M., assignor to South Bend Bait Co., South Bend, Ind. Fishing bait. 1,638,215; Aug. 9.
- Rodgers, Claude M., Portage Township, St. Joseph County, Ind., assignor to South Bend Bait Co. Artificial bait. 1,644,151; Oct. 4.
- Rodgers, Daniel C., Canton, Ohio. Shock absorber. 1,632,715; June 14.
- Rodgers, Dominick, Pittsburgh, Pa. Fan. 1,635,768; July 12.
- Rodgers, Edward B., New York, N. Y. Valve construction for engines. 1,621,485; Mar. 15.
- Rodgers, Ellis B., (See Seward, E. A. and Rodgers.)
- Rodgers, Henry J., receiver. (See Forsyth, Robert, assignor.)
- Rodgers Radio Corporation. (See Rodgers, T. T., Giblin, and Moore, assignors.)
- Rodgers, Thomas T., M. A. Giblin, F. K. and G. T. Moore, Milwaukee, Wis., assignors to Rodgers Radio Corporation, West Allis, Wis. Variable condenser. 1,621,379; Mar. 15.
- Rodgers, Thomas T., M. A. Giblin, and F. K. and G. T. Moore, Milwaukee, Wis., assignors to Rodgers Radio Corporation, West Allis, Wis. Condenser. 1,625,360; Apr. 5.
- Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Continuously-operating gas-analyzing apparatus. 1,644,951; Oct. 11.
- Rodino, Cono. (See Porsl, D. D. and Rodino.)
- Rodonoff, Daniel A., et al. (See Milkewich, Wladimir W., assignor.)
- Rodman, Blanche, administratrix. (See Rodman, Earl C.)
- Rodman, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Insulating liquid. 1,622,809; Mar. 29.
- Rodman, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Preventing acidity in oils. 1,633,956; June 28.
- Rodman, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Burner. 1,645,284; Oct. 11.
- Rodman, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Deoxidizer. 1,652,496; Dec. 13.
- Rodman, Earl C., deceased; B. Rodman, administratrix, Tuscola, Ill. Adapter coll. 1,635,096; July 5.
- Rodman, Thomas E., Glencoe, assignor to The Bradford Corporation, Chicago, Ill. Reversible strut for brake beams. 1,640,854; Aug. 30.
- Rodman, Thomas H., New York, N. Y., and P. W. Darlington, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for motor-driven machines of the multituit type. 1,616,760; Feb. 8.
- Rodmeyer, George W., (See Potter, Earl E., assignor.)
- Rodriguez, George, Castroville, Calif. Automobile headlight. 1,651,042; Nov. 29.
- Rodriguez, Manuel R., Brooklyn, N. Y. Cord protecting and supporting device. 1,617,866; Feb. 15.
- Rodriguez, Alfredo, Angiola, Calif. Hand fan. 1,620,394; Mar. 8.
- Rodriguez, Celso J., Wells, Minn. Cultivating implement. 1,644,449; Oct. 4.
- Rodriguez, Ramon, New York, N. Y. Sound-amplifying instrument. 1,634,340; July 5.
- Rodriguez, Roberto, Detroit, Mich. Cold-air-supplying apparatus. 1,632,880; May 17.
- Roe, Edwin O., New Bedford, Mass., and L. P. Frieder, New York, N. Y., assignors to National Spun Silk Co., Inc., New Bedford, Mass. Textile-coiling machine. 1,630,718; May 31.
- Roe, Ernest S., Plymouth, assignor to Markham Air Rifle Company, Detroit, Mich. Air gun. 1,616,449; Feb. 3.
- Roe, Erona S., Patchogue, N. Y. Hose attachment. 1,651,550; Dec. 6.
- Roe, Mayo E., Elyria, Ohio. Bicycle. Des. 73,049; July 12.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Caster mechanism. 1,634,558; July 5.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Caster mechanism. 1,636,325; July 19.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Caster. 1,636,326; July 19.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Cycle. 1,638,327; July 19.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Invalid chair and the like. 1,651,728; Dec. 6.
- Roe, William C., Pittsburgh, Pa. Frequency changer. 1,646,662; Oct. 25.
- Roedel, Ludwig, Mannheim, Germany, assignor to Aktien-gesellschaft Brown, Boveri & Cie., Baden, Switzerland. Machine-control apparatus. 1,632,417; June 14.
- Roedel, Ludwig, Mannheim, Germany. Winding for electrical machines. 1,653,784; Dec. 27.
- Roebken, Carl B., Washington, D. C. Light-reflecting means. 1,621,029; Mar. 15.
- Roebing's, John A., Sons Company. (See Sunderland, Charles C., assignor.)
- Roebuck, Alfred L., Winchendon, Mass. Steering wheel. 1,618,137; Feb. 15.
- Roebuck, Alfred L., Winchendon, Mass., assignor to General Road Company, Chicago, Ill. Box-securing means. 1,650,741; Nov. 20.
- Roebuck, Alvah C., assignor to The Enterprise Optical Manufacturing Company, Chicago, Ill. Arc lamp. 1,650,881; Nov. 29.
- Roebuck, Harold. (See Elliott, E., and Roebuck.)
- Roedding, Gordon E., (See Doerr, F. H., and Roedding.)
- Roedding, Gordon E., Grand Rapids, Mich. Wall pocket or similar article. Des. 72,331; Mar. 29.
- Roedding, Gordon E., Grand Rapids, Mich. Bottle-capping device and the like. 1,648,080; Nov. 8.
- Roeder, Charles W., Bloomington, Ill. Hot-air moistener and deflector. 1,646,837; Oct. 25.
- Roeder, Julius, and W. Wellmann, Witten, Germany. Rolling tubes. 1,626,481; Apr. 26.
- Roeding, George C., (See Beckman, John W., assignor.)
- Roelck, Kurt, (See Sutter, Andrew, assignor.)
- Roelands, Adelson, Wacken, near Courtrai, Belgium. Shock absorber for suspended vehicles. 1,615,653; Jan. 25.
- Roemer, Curt, Chemnitz, Germany. Cleaning device for tenter chains. 1,614,395; Jan. 11.
- Roemer, Joseph V., (See Suktow, Phillip, assignor.)
- Roepke Pan Machine Corporation. (See Roepke, William J., assignor.)
- Roepke, William J., Los Angeles, Calif., assignor, by mesne assignments, to Roepke Pan Machine Corporation, Wilmington, Del. Automatic pan-making machine. 1,625,502; Apr. 10.
- Roepke, William J., Los Angeles, Calif., assignor to Roepke Pan Machine Corporation, Wilmington, Del. Automatic pan-making machine. 1,643,609; Sept. 27.
- Roesch, Aloysius A., Andover, Mass. Expanding tool. 1,621,335; Mar. 15.
- Roesch, George E., Pittsburgh, Pa. Automatic lightning switch for radios. 1,640,253; Aug. 23.
- Roessler, Frank J., (See Dover, Samuel M., assignor.)
- Roessler, Otto, Philadelphia, Pa. Danger-signal attachment for locomotives. 1,637,835; Aug. 2.
- Roessler, Amandus C., Lakewood, assignor to The Rotary Meech & Engineering Company, Cleveland, Ohio. Rotary pump. 1,649,256; Nov. 15.
- Roessler & Hasslacher Chemical Company. (See Andrich, Kurt, assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Garveth, Hector R., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Lebrecke, Hans, assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Liebknecht, Otto, assignor.)
- Roessler & Hasslacher Chemical Co., The. (See Mucken-tuss, Anthony M., assignor.)
- Roessler & Hasslacher Chemical Co., The. (See Whitby, George S., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Williams, Carl S., assignor.)
- Roethel, John H., Brooklyn, N. Y. Window-operating mechanism. 1,646,218; Oct. 18.
- Roettgers, Frederic W., assignor to W. Fruchtman, doing business as Everlite Lamp Co., Brooklyn, N. Y. Lamp. Des. 71,987; Feb. 8.
- Roewer, Walter M., (See Greenwich, Anna J., assignor.)
- Rogan, Thomas T., and E. B. Wright, Piteburgh, Mass. Paper-making machine. 1,617,767; Feb. 15.
- Roger, Gabriel C., Bordeaux, France. Shoe-sole sewing machine. 1,645,872; Oct. 18.
- Rogers, Albert R., administrator. (See Rogers, John F.)
- Rogers, Allen, Brooklyn, N. Y. Painting process and composition therefor. 1,647,666; Nov. 1.
- Rogers, Allen H., Westmoreland Depot, N. H. Hoe. Des. 72,453; May 17.
- Rogers, Almerin E., Placentia, Calif. Nursing nipple. 1,632,854; June 21.
- Rogers, Bruce W., and W. L. Glass, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber-covered rolls. 1,619,371; Mar. 1.
- Rogers, Cephas B., Danbury, Conn. Single electric-light bracket fixture. Des. 72,528; Apr. 26.
- Rogers, Cephas B., Danbury, Conn. Twin electric-light bracket fixture. Des. 72,529; Apr. 26.
- Rogers, Charles B., Joplin, Mo. Bearing. 1,616,002; Feb. 15.
- Rogers, Charles P., and Company (Inc.). (See Albertine, Herman, assignor.)
- Rogers, Chester, Goin, Tenn. Leg holder. 1,635,638; July 12.
- Rogers, Curtis E., Logan, W. Va. Pressure indicator and actuator. 1,652,051; Dec. 6.
- Rogers, Donald G., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Effecting caustic fusions. 1,644,493; Oct. 4.
- Rogers, Donald G., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Manufacture of monoethanolamine. 1,644,494; Oct. 4.
- Rogers, Edward A., assignor to Lockport Cotton Bating Co., Lockport, N. Y. Cotton bating and making the same. 1,642,509; Sept. 15.
- Rogers, Elizabeth M., (See Walker, Elizabeth M.)
- Rogers, Elwood C., Indianapolis, Ind. Photographic enlarger. 1,633,222; June 21.
- Rogers, Florence, Lakewood, N. J. Wheel or tire handling apparatus. 1,640,297; Aug. 23.
- Rogers, Francis C., (See Callahan, J. J., and Rogers.)
- Rogers, Francis C., (See Daniel, Paul U., assignor.)
- Rogers, Francis M., and O. E. Bransky, assignors to Standard Oil Company, Whiting, Ind. Preparing pitches. 1,613,723; Jan. 11.
- Rogers, Francis M., Whiting, Ind., and R. E. Wilson, Chicago, Ill., assignors to Standard Oil Company, Whiting, Ind., and Chicago, Ill. Continuous distillation of crude petroleum oils. 1,615,407; Jan. 25.

- Rogers, Francis M., and Frank V. Grimm, Whiting, Ind., and Gerald L. Wendt, Chicago, Ill., assignors to Standard Oil Company, Whiting, Ind. Treating sludge acid. 1,630,074; May 24.
- Rogers, Fred B., et al., trustees. (See Rogers, Harry R., assignor.)
- Rogers, Harold A., Cardiff, Wales. Sound recording and reproducing machine. 1,618,888; Feb. 22.
- Rogers, Harold A., Cardiff, Wales. Gramophone record. 1,632,313; June 14.
- Rogers, Harrison W., New York, N. Y. Method and apparatus for plural recording and reproducing of sound. 1,645,295; Oct. 11.
- Rogers, Harry R., Chicago, Ill. Foot support. 1,634,516; July 5.
- Rogers, Harry R., et al., trustees. (See Rogers, Harry R., assignor.)
- Rogers, Harry R., assignor to H. R. and F. B. Rogers and W. A. Sharpe, Denver, Colo.; L. T. Martin, Kansas City, Mo.; A. L. Miller, L. Johnson, and L. A. Galbreath, trustees of the Consolidated Producers Trust, Lusk, Wyo. Boiler for carbon-black retorts. 1,644,152; Oct. 4.
- Rogers, Harry T., Chicago, Ill. Concrete-working tool. 1,645,873; Oct. 18.
- Rogers, Homer L., Hartwell, Ohio, assignor to The Philip Carey Manufacturing Company. System of track installation. 1,649,191; Nov. 15.
- Rogers, Homer L., Hartwell, Ohio, assignor to The Philip Carey Manufacturing Company. Rail filler. 1,649,192; Nov. 15.
- Rogers, Homer S., assignor to Milwaukee Air Power Pump Company, Milwaukee, Wis. Pneumatic pump. 1,628,276; May 10.
- Rogers, J. F. (See Moore, Benton, assignor.)
- Rogers, John F., deceased, A. R. Rogers, administrator, assignor to L. A. Rogers, Dayton, Ohio. Blow-out boot. 1,637,712; Aug. 2.
- Rogers, John R., Brooklyn, N. Y. Device for transmitting power. 1,635,585; July 12.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing mechanism. 1,629,889; May 24.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing and distributing machine. 1,651,154; Nov. 28.
- Rogers, Joseph, Indian Trail, N. C. Mail receptacle for steering posts of automobiles. 1,618,227; Feb. 22.
- Rogers, Joseph E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,615,956; Feb. 1.
- Rogers, Lew, Carson City, Nev. Internal-combustion-engine appliance. 1,641,052; Aug. 30.
- Rogers, Loyd P., South Sioux City, Nebr. Dimmer control for headlights. 1,618,355; Feb. 22.
- Rogers, Lucy A. (See Rogers, John F., assignor.)
- Rogers, Myron H., Dearborn, Mich. Screen and seal for automobile doors. 1,651,839; Dec. 6.
- Rogers, Otis J., Washington, D. C. Facial lifting and supporting device. 1,643,090; Sept. 20.
- Rogers, Rodolfo, Culiacan, Mexico. Magazine paintbrush. 1,644,356; Oct. 4.
- Rogers, Samuel L., Washington, D. C. Umbilical cord clamp. 1,650,031; May 24.
- Rohde, Stewart H., Cleveland, Ohio. Tire-chain construction. 1,618,606; Feb. 22.
- Rogers, William A., Ltd. (See James, Sidney V., assignor.)
- Rogers, William F., et al. (See Gallagher, Philip J., assignor.)
- Rogers, William M., Whitesville, Ky. Railway ticket. 1,615,100; Jan. 18.
- Rogers, William M., New York, N. Y. Nonrefillable-bottle cap. 1,640,095; Aug. 23.
- Rogers, William S., Van Buren, Ark. Horse collar. 1,622,427; Sept. 12.
- Rogerson, Grace, assignor of one-third to O. Shank, Jasnouville, Ind. Machine spring. 1,634,212; June 28.
- Rogginger, John, San Diego, assignor to Norco Mfg. Co., Norco, Calif. Milk-bottle supporting and locking device. 1,635,346; July 12.
- Rogovin, John, San Diego, assignor to Norco Mfg. Co., Norco, Calif. Clamping ring. 1,635,347; July 12.
- Rogivue, Carl, Tegel, Germany, assignor to General Electric Company. Condenser plant for locomotives. 1,632,624; June 14.
- Rogley, Peter H., Washington, D. C. Soldering iron. 1,631,063; May 31.
- Rogow, Sydney. (See Duncan, J. H., and Rogow.)
- Rohan, Francis D. (See Frengle, F., and Rohan.)
- Rohan, Francis D., et al. (See Frengle, F., and Rohan, assignors.)
- Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark plug. 1,636,197; July 19.
- Rohde, Paul, Berlin, Germany, assignor to General Electric Company. Alternating-current commutator motor. 1,620,395; Mar. 8.
- Rohen, Even J. (See Havir, A. H., and Fletcher, assignors.)
- Rohlfing, John M., Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y. Lidle elevator. 1,631,339; June 7.
- Rohlfing, John M., Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y. Brake for elevators. 1,631,340; June 7.
- Rohlin, Karl W. (See Fitts, J. L., and Rohlin.)
- Rohm & Haas Company. (See Hollander, Charles S., assignor.)
- Rohm & Haas Company. (See Lamb, Morris C., assignor.)
- Rohm & Haas Company. (See Lauter, Felix, assignor.)
- Rohm, James T., assignor of one-third to K. H. Ashman, Pittsburg, and one-third to J. B. Sipe, Pittsburg, Pa. Rail tie. 1,650,235; Nov. 22.
- Rohmer, Frank D., Lackawanna, N. Y. Combination lock. 1,627,462; May 3.
- Rohmer, Gabriel E., New York, assignor to Andrews Lead Company, Long Island City, N. Y. Oxidizing nonferrous metals. 1,616,233; Feb. 1.
- Rohmer, Gabriel E., New York, N. Y. Construction of swimming-pool water slides. 1,648,196; Nov. 8.
- Rohn, George F., Electric Company. (See Rohn, George F., assignor.)
- Rohn, George F., assignor to George F. Rohn Electric Company, Milwaukee, Wis. Power cabinet. 1,642,698; Sept. 20.
- Rohn, Wilhelm, Hanau-on-the-Main, Germany, assignor to Charles Engelhard, Inc., New York, N. Y. Electric resistance muffle furnace. 1,619,829; Mar. 8.
- Rohr, Even J., Minneapolis, Minn. Electric frying pan. 1,629,737; May 24.
- Rohne, Even J., Minneapolis, Minn. Electrically heated steam brush. 1,629,738; May 24.
- Roholt, Charles. (See Hendrickson, N. T., and Roholt.)
- Rohosek, Johann, Vienna, and E. L. Leuchter, Weidingsau-Hadersdorf, assignors of one-half to the Firm Gebrüder Hardy, Maschinenfabrik und Gießerei, A. G., Vienna, Austria. Single-chamber air-pressure brake. 1,640,905; Aug. 30.
- Rohour, Chris W., assignor to Indiana Lamp Corporation, Connersville, Ind. Screw retainer. 1,613,906; Jan. 4.
- Rohr, Louis N. (See Wilkins, J. M., and Rohr.)
- Rohrbach, Adolf, Charlottenburg, Germany. Wing construction for metal airplanes. 1,619,372; Mar. 1.
- Rohrbach, Adolf, Charlottenburg, Germany. Wing for flying machines. 1,619,373; Mar. 1.
- Rohrbach, Adolf, Berlin-Wilmersdorf, Germany. Method and device for the increase of floating stability of airplanes. 1,619,374; Mar. 1.
- Rohrbach, Adolf, Berlin-Wilmersdorf, Germany. Aircraft fitted with head lamps. 1,648,463; Nov. 8.
- Rohrbacher, Albert L., Jr., Boston, Mass. Molder's shoe. 1,613,131; Jan. 4.
- Rohrbogenwerk Gesellschaft mit Beschränkter Haftung. (See Böhling, Rudolf H., assignor.)
- Rohrer, Arthur M., Kirkwood, assignor to The Moore Shoe Company, St. Louis, Mo. Shoe. 1,623,743; May 17.
- Rohr, John D., assignor to United States Asbestos Company, Mannheim, Pa. Friction lining and making the same. 1,640,373; Aug. 30.
- Röhrich, Curt, Magdeburg, Germany. Ruler. 1,614,044; Jan. 11.
- Rohrke, Hugo F., Ansley, Nebr. Sanitary cream saver. 1,629,309; May 17.
- Rohrsch, Karl, Metallwarenfabrik. (See Von Sazenhofen, Ludwig F., assignor.)
- Rohrnt, Emile, assignor to Societe Anonyme d'Etudes et de Constructions d'Appareils Mecaniques pour la Verrierie, Paris, France. Collecting glass by suction. 1,615,886; Feb. 1.
- Roka, Koloman, (See Krause, E., and Roka.)
- Rokoski, Welles, (See Carlos, Minn. Wall construction. 1,629,310; May 17.
- Rolaff, Walter G. E., St. Louis, Mo. Compressor. 1,632,562; June 14.
- Rolaff, Walter G. E., St. Louis, Mo. Distributor for use in refrigerating systems. 1,650,046; Nov. 22.
- Rolaff, Walter G. E., assignor to Rotary Compressor Company, Belleville, Ill. Air compressor or pump. 1,626,557; Apr. 26.
- Roland, Friedrich, Paterson, N. J. Loom movement. 1,634,915; July 5.
- Rolf, Harry G., et al. (See Koehn, Daniel W., assignor.)
- Rolfs, Edward A. (See Raimer, Philip and J. B., and Rolfs.)
- Rolfs, Harry J. (See Rolfs, Robert H. and H. J.)
- Rolfs, Robert H. and H. J., assignors to Amity Leather Products Co., West Bend, Wis. Bill folder. 1,619,543; Mar. 1.
- Rolfsen, Ole, Larvik, Norway. Rock-cutting tool. 1,653,663; Dec. 27.
- Roline, Carl G., and C. Norre, Chicago, Ill. Machine for folding the corners of book covers. 1,632,452; June 14.
- Rolland, Eugene, assignor to Rolland Glass Company, Clarksburg, W. Va. Splitting buck. 1,652,999; Dec. 13.
- Rolland, Eugene, assignor to Rolland Glass Company. (See Rolland, Eugene, assignor.)
- Rolland Glass Company. (See Hurley, R. D., and Patton, assignors.)
- Rollaway Motor Company, The. (See Fox, Cecil M., assignor.)
- Roller, Louis H., White Plains, N. Y. Electromagnetic pump. 1,647,147; Nov. 1.
- Rolley, Noah F., Karthaus, Pa. Pocket holder for pool tables. 1,625,635; Apr. 19.
- Rolley, Thomas, Brisbane, Queensland, Australia. Metal-bending machine. 1,636,786; July 26.
- Roling, Frank A., Company, The. (See Burgdorf, Hermann, assignor.)

- Rollins, Henry H., Phoenix, Ariz. Shade or awning raising device. 1,619,635; Mar. 1.
- Rollins, Jarrot L., Auburn, Calif. Dimmer glasses. 1,650,236; Nov. 29.
- Rollins, John O., West Los Angeles, Calif. Jar closure. 1,629,639; May 24.
- Rollinson, Earl H., Lyons Farms, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Lamp-bulb socket. 1,629,970; May 24.
- Rollman, Michael A., Mount Joy, Pa. Food receptacle. 1,624,010; Apr. 12.
- Rollman, Michael A., Mount Joy, Pa. Meat chopper. 1,628,988; May 17.
- Rollman, Michael A., Mount Joy, Pa. Meat chopper. 1,647,196; Nov. 17.
- Rolls Royce Limited. (See Rowledge, Arthur J., assignor.)
- Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
- Rolls-Royce Limited. (See Royce, F. H., and Elliott, assignors.)
- Rolnick, Herman, New York, N. Y. Combination muffler holder for coats. 1,629,840; May 24.
- Rolph, Benjamin M., Dixon, Ill. Excavating machine. 1,625,912; Apr. 26.
- Roman, Benjamin. (See Holtzman, John, assignor.)
- Roman, Frank E., Chicago, and H. T. Winseimus, Congress Park, Ill. assignors to Western Electric Company, Incorporated, New York, N. Y. Insulated electrical conductor. 1,649,924; Nov. 22.
- Roman, Henry, Bay Point, Calif. assignor to Yates-American Machine Company, Beloit, Wis. Chip breaker. 1,651,151; Dec. 6.
- Roman, Joseph and M., Brooklyn, N. Y. Safety razor. 1,629,416; May 17.
- Roman, Max. (See Roman, Joseph and M.)
- Romanelli, Emilio, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Electrolytic cell. 1,648,963; Nov. 15.
- Romanoff, William N., Chicago, Ill. Necktie. 1,621,753; Mar. 22.
- Romanowicz, Johann. (See Romanowicz, Marian and J.)
- Romanowicz, Marian and J., Vienna, Austria. Photographic film or plate pack. 1,641,867; Sept. 6.
- Romanowski, Francis, Detroit, Mich. Vehicle signal. 1,635,436; July 12.
- Romberg, Heinrich, Dusseldorf, Germany. Gun carriage. 1,629,739; May 24.
- Rome Metallic Bedstead Company. (See Pittoni, Angelo, assignor.)
- Rome Radiation Company. (See Hart, Austin H., assignor.)
- Romer, Charles, Newark, N. J. Tire-inflating means. 1,641,457; Sept. 6.
- Romer, Morris C., Brooklyn, N. Y. Lock joint for containers and producing the same. 1,617,274; Feb. 8.
- Romero, Alberto R., Tucson, Ariz. Sanitary ice shaver. 1,643,856; Sept. 27.
- Romero, Alfredo L., San Francisco, Calif. Lanterns called personal character reader. 1,624,149; Apr. 12.
- Romero, Alfredo L., San Francisco, Calif. Rice husker and polisher mill. 1,652,733; Dec. 27.
- Romieux, Charles. (See Novotny, E. E., and Romieux.)
- Romine, Robert T., Detroit, Mich. Apparatus for handling metal. 1,615,812; Jan. 25.
- Romine, Robert T., Mount Clemens, Mich. Handling material. 1,615,813; Jan. 25.
- Romine, Robert T., Mount Clemens, Mich. Paint stick for automobiles. 1,634,341; July 5.
- Romine, Robert T., Mount Clemens, Mich. Portable rack. 1,637,960; Aug. 2.
- Romine, Robert T., Mount Clemens, Mich. Bracing apparatus for sheet metal. 1,644,278; Oct. 4.
- Romine, Robert T., Mount Clemens, Mich. Bracing apparatus for sheet metal. 1,644,279; Oct. 4.
- Romine, Robert T., Mount Clemens, Mich. Method and apparatus for handling material. 1,650,540; Nov. 22.
- Romine, William M. (See Clark, W. J., and Romine.)
- Rommel, Ethel B. (See Rommel, Louis, assignor.)
- Rommel, Louis, assignor to E. B. Rommel, Newark, N. J. Combined card and display sign. 1,621,754; Mar. 22.
- Rommer, Isaac A., Brooklyn, N. Y. Doll's limb. 1,621,434; Mar. 15.
- Rommer, Isaac A., Brooklyn, N. Y. Doll's rubber head. 1,650,468; Nov. 22.
- Rond, Victor L., Brooklyn, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electron-discharge device. 1,616,139; Feb. 1.
- Rond, Victor L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,624,562; Apr. 12.
- Rond, Victor L., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,628,999; May 17.
- Rond, Victor L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,636,015; July 19.
- Rond, Victor L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,638,551; Aug. 9.
- Rond, Victor L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Leading-in conductor. 1,640,469; Aug. 30.
- Roney, Grant, Swaledale, Iowa. Veterinary forceps. 1,649,368; Nov. 15.
- Ronk, George T., Fairfield, Iowa. Mechanism for operating and controlling excavator dippers. 1,627,869; May 10.
- Ronk, George T., Fairfield, Iowa. Hoisting mechanism. 1,628,916; May 17.
- Ronk, George T., Fairfield, Iowa. Frame construction for excavator trucks. 1,629,890; May 24.
- Roning, Victor C., assignor to Jahn & Ollier Engraving Co., Chicago, Ill. Reaching half tones on copper together with a formula applicable thereto. 1,628,857; May 17.
- Ronsheimer, Charles G., Penn Grove, Calif. Dehydrator. 1,651,293; Nov. 29.
- Rood, Charles F., Sutherland, Oreg. Doorknob. 1,630,032; May 24.
- Rood, Charles F., Sutherland, Oreg. Smoking pipe. 1,646,876; Oct. 25.
- Rood, Hazel B., Ames, Iowa. Thumb-sucking preventive for babies. 1,633,037; June 21.
- Roodhouse, Benjamin T., Wilmette, Ill. Water-operated circuit closer. 1,648,197; Nov. 8.
- Rook, Harry B., Newark, N. J. Sound-reproducing instrument. 1,629,971; May 24.
- Rooke, George F., Providence, R. I. Toy bank. Des. 71,945; Feb. 1.
- Rookwood, James W., Mountain View, Okla. Seeder. 1,632,213; June 23.
- Rooney, Francis, Flushing, N. Y. Window-sash-retaining device. 1,644,036; Oct. 4.
- Rooney, George B. (See Bahr, August T. J., assignor.)
- Rooney, James H. (See Dickie, W. A., and Rooney.)
- Rooney, John H., Susansville, Calif. Sawmill-carriage offset. 1,623,854; Apr. 5.
- Rooney, John W., Dunedin, New Zealand. Clip for show cards, serviettes, and the like. 1,644,280; Oct. 4.
- Rooney, Leo J. F., Tulsa, Okla. Plumb bob. 1,616,234; Feb. 1.
- Rooney, Walter E., Bellingham, Wash., assignor to Thompson Corporation, New York, N. Y. Can cover. 1,643,958; Oct. 4.
- Roop, Charles E., Richmond Heights, L. M. Dieckmeyer and C. B. Barutis, St. Louis, assignors to Stevens Engineering and Construction Company, St. Louis, Mo. Forming concrete structures. 1,642,753; Sept. 20.
- Roos, Jacob J., Hull, Iowa. Device for use in moving buildings. 1,625,161; Apr. 19.
- Root, Arthur J., Springfield, Ohio. Shock absorber. 1,631,222; June 7.
- Root, Chapman J. (See Samuelson, Alexander, assignor.)
- Root, Charles F., assignor to The Chandler & Price Company, Cleveland, Ohio. Feed table for sheet-feeding mechanism. 1,627,064; May 3.
- Root, John, Chicago, Ill. Manhole frame and cover. 1,618,678; Feb. 22.
- Root, Lemma J., Seattle, Wash. Gasoline engine. 1,617,607; Feb. 15.
- Root, Melvin, N. Y., assignor to Scovill Manufacturing Company. Powder box. 1,615,487; Jan. 25.
- Root, Lloyd B., North Tonawanda, N. Y. Stilt. 1,613,535; Jan. 4.
- Root Manufacturing Company, The. (See Root, Ralph R., assignor.)
- Root, Ralph R., Lakewood, assignor to The Root Manufacturing Company, Cleveland, Ohio. Agricultural powder-distributing device. 1,619,316; Mar. 1.
- Root, Ralph R., Lakewood, assignor to The Root Manufacturing Company, Cleveland, Ohio. Protected bearing for powder-dispensing devices. 1,629,539; May 24.
- Root, Ralph R., Lakewood, Ohio, assignor to The Root Manufacturing Company, Cleveland, Ohio. Fine-powder-distributing device. 1,652,732; Dec. 13.
- Root Spring Scraper Company. (See Utter, Eben B., assignor.)
- Rooth, Adolf, Lndvika, assignor to Allmann Svenska Elektriska Aktiebolaget, Fastars, Sweden. Voltage regulator for transformers. 1,626,970; May 3.
- Roots, P. H. & F. M., Company, The. (See Enyart, Ralph C., assignor.)
- Roots, Preston, San Benito, Tex. Ditch gate. 1,630,407; May 31.
- Roper, Penney W. (See Buck, N. E., Roper, and Thoms.)
- Roper, Geo. D., Corporation. (See Hobson, Stanley H., assignor.)
- Roper, Geo. D., Corporation. (See Larson, Swan, assignor.)
- Roper, Walter L., Maplesville, Ala. Radius-rod holder. 1,644,037; Oct. 4.
- Ropp, Ezra B., Oklahoma City, Okla. Automatic baseball game. 1,643,522; Sept. 27.
- Roraback, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Sprocket wheel. 1,630,313; May 31.
- Roraback, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Endless-chain excavator bucket with digging teeth. 1,638,099; Aug. 9.
- Roraback, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Renewable-rim sprocket wheel. 1,643,472; Sept. 27.
- Rosales, Mariano, San Antonio, Tex. Float-operated circuit closer. 1,632,098; June 14.
- Rosan, Clifford D., deceased, New Haven, Conn., E. H. Rosan, administratrix. Cigarette holder. 1,630,243; May 24.

- Rosan, Eva H., administratrix. (See Rosan, Clifford D.)
- Rosat, Charles, Boudry, assignor to Fabriques des Montres Zenith, successeur des Fabriques des Montres Zenith, George Favre-Tacot & Co., Le Locle, Switzerland. Assembling device for bridges, plates, and the like in timepiece movements, counting mechanisms, and like apparatus. 1,634,214; July 28.
- Rosato, Victor, Bronx, N. Y. Revolving stencil-cylinder machine. 1,625,054; Apr. 19.
- Rosch, Arthur, Charlottenburg, Berlin, Germany, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Industrial-heating elastic-fluid prime-mover installation. 1,621,435; Mar. 15.
- Roschaneck, Otto, assignor of one-half to Huebner & Mayer, Vienna, Austria. Shutting-off device and valve. 1,649,735; Nov. 15.
- Roschitsch, Karl. (See Mische, F. and Roschitsch.)
- Roscoe, Edward, Edendale, Auckland, New Zealand. Apparatus for displaying information, advertisements, and the like. 1,648,364; Nov. 8.
- Rose, Arthur F., West Brighton, N. Y., assignor to American Telephone and Telegraph Company. Telephone receiver system. 1,642,749; Sept. 20.
- Rose, Arthur F., West Brighton, N. Y., assignor to American Telephone and Telegraph Company. System of multifrequency circuits. 1,650,655; Nov. 29.
- Rose, Bert R., H. L. and M. C., Parma, Idaho. Water-lifting device. 1,652,877; Dec. 13.
- Rose, Charles B., Willenhall, England. Stair carpet and like fastenings. 1,645,663; Oct. 18.
- Rose, D. E., Trunk Co. Inc. (See Rose, D. E., Pulliam, and Hossfeld, assignors.)
- Rose, David E., and K. G. Pulliam, jr., Los Angeles, and H. E. Hossfeld, Lynwood, assignors to D. E. Rose Trunk Co. Inc., Los Angeles, Calif. Securing cases to carrying boards. 1,638,216; Aug. 9.
- Rose, Elias B., Los Angeles, Calif. Flush valve. 1,635,010; July 5.
- Rose, Fred G., Rocky Ford, Colo. Transmission. 1,635,958; July 12.
- Rose, Henry L. (See Rose, Bert R., H. L. and M. C.)
- Rose, James, Olean, N. Y. Spindle retainer. 1,626,252; Apr. 26.
- Rose, James A., San Francisco, Calif. Receptacle. 1,613,536; Jan. 4.
- Rose, James A., assignor to Lowell-Wintsch Automatic Train Control, Inc., Lancaster, Pa. Method and apparatus for transmitting electric current. 1,627,409; May 3.
- Rose, James M., Corona, Calif. Elevated railway. 1,616,761; Feb. 8.
- Rose, James R. (See Harris, John, assignor.)
- Rose, James R., Edgeworth, assignor to Carbo-Hydrogen Company of America, Pittsburgh, Pa. Gas for cutting and welding purposes. 1,628,066; May 10.
- Rose, James R., Edgeworth, assignor to Carbo-Hydrogen Company of America, Pittsburgh, Pa. Gaseous fuel. 1,628,067; May 10.
- Rose, Jay, assignor, by mesne assignments, to H. Eisenstadt, Brooklyn, N. Y. Douche nozzle. 1,636,969; July 26.
- Rose, L. W., et al. (See Weisberger, Henry D., assignor.)
- Rose, Merritt C. (See Rose, Bert R., H. L. and M. C.)
- Rose Novelty Co. (See Hurewitz, Joseph.)
- Rose, Omar E. (See Norris, Lewis B., assignor.)
- Rose Patch and Label Co., The. (See Rosenthal, Arthur, assignor.)
- Rose, Richard C., Osceola, Ark. Condenser. 1,646,663; Oct. 25.
- Rose, William, Stuart, Fla. Septic tank. 1,645,116; Oct. 11.
- Rose, William, Gainsborough, England. Apparatus for wrapping cartons, blocks, and similar articles in paper or like material. 1,618,025; Feb. 15.
- Rose, William, Gainsborough, England. Apparatus for winding and twisting a paper web. 1,637,658; Aug. 2.
- Rose, William, assignor to Mathias Klein & Sons, Inc., Chicago, Ill. Fish-tape puller. 1,628,744; May 17.
- Rose, William H., Jersey City, N. J. Windshield. 1,644,397; Oct. 4.
- Rose, William H., Jersey City, N. J. Windshield. 1,644,398; Oct. 4.
- Rose, William H., Jersey City, N. J. Window ventilator. 1,644,399; Oct. 4.
- Rose, William H., Jersey City, N. J. Window ventilator. 1,644,400; Oct. 4.
- Rose, William H., Jersey City, N. J. Air deflector. 1,650,237; Nov. 22.
- Rose, William H., Jersey City, N. J. Ventilating device. 1,650,724; Nov. 29.
- Rosebush, Waldo D., Millwood, Wash. Exhaust system for paper-machine driers. 1,631,833; June 7.
- Rosebush, Waldo D., assignor to Inland Empire Paper Company, Millwood, Wash. Method and apparatus for mixing pulp. 1,631,762; June 7.
- Rosell, Axel J., Brooklyn, N. Y. Counterweighted sidewalk elevator. 1,628,556; May 10.
- Rosenbain, Leo, Newark, N. J. Garment-fastener means. 1,644,357; Oct. 4.
- Rosenbier, George M., assignor to The Protocollite Co. Inc., New York, N. Y. Automobile light. 1,624,436; Apr. 12.
- Rosen, Abraham W., New York, N. Y. Combined ash receiver and match box. Des. 72,803; June 7.
- Rosen, Carl G. A., San Francisco, Calif. Internal-combustion engine. 1,640,515; Aug. 30.
- Rosen, Isidor, Brooklyn, N. Y. Game board. Des. 73,012; July 5.
- Rosenband, Albert. (See Greenbaum, N., and Rosenband.)
- Rosenband Mfg. Co. (See Brauns, W., and Walker, assignors.)
- Rosenbaum, Fritz, Nuremberg, Germany. Toy automobiles. 1,646,169; Oct. 18.
- Rosenbaum, Ilse A. M., et al., sole heirs. (See Rosenbaum, Theodor.)
- Rosenbaum, Lester F., assignor to Sam Rosenbaum & Sons Company, Kalamazoo, Mich. Knickerbockers. 1,633,607; June 28.
- Rosenbaum, Rudolph R., Chicago, Ill. Fuller's-earth-treating process. 1,649,193; Nov. 15.
- Rosenbaum, Sam, & Sons Company. (See Rosenbaum, Lester F., assignor.)
- Rosenbaum, Selma, et al., sole heirs. (See Rosenbaum, Theodor.)
- Rosenbaum, Sidney. (See Doty, William W., assignor.)
- Rosenbaum, Theodor, deceased; S. and I. A. M. Rosenbaum, sole heirs, assignors to Gyroretor Gesellschaft mit beschränkter Haftung, Berlin, Germany. Direction indicator for moving bodies. 1,642,087; Sept. 13.
- Rosenberg, Abraham, Far Rockaway, N. Y. Manifold pen. 1,616,551; Feb. 8.
- Rosenberg, Abraham, Far Rockaway, N. Y. Producing apparatus and process. 1,624,806; Apr. 12.
- Rosenberg, Abraham, and W. Ollinger, New York, N. Y., assignors to F. T. Moore, Washington, D. C. Signaling and direction-indicating apparatus for automobiles. 1,625,565; Apr. 19.
- Rosenberg, Emanuel, Wetz, Austria. Continuous-current generator. 1,650,851; Nov. 29.
- Rosenberg, Irwin L., Chicago, Ill. Attaching objects. 1,636,075; July 19.
- Rosenberg, Joseph H., Denver, Colo. Alarm gauge. 1,648,507; Nov. 8.
- Rosenberg, Louis, Milwaukee, Wis. Apparatus for cleaning metal parts. 1,624,982; Apr. 19.
- Rosenberg, Louis, New York, N. Y. Can. 1,651,552; Dec. 6.
- Rosenberg, Maurice J., Baltimore, Md. Knickers. 1,631,064; May 31.
- Rosenberg, Ralph H., Syracuse, N. Y., assignor to American Cable Company, Inc. Wheel car. 1,646,932; Oct. 25.
- Rosenberg, Samuel, Milwaukee, and B. N. Jaha, Wauwatosa, assignors to Reliable Knitting Works, Milwaukee, Wis. Cap. 1,639,468; Aug. 16.
- Rosenberger, Hermann. (See Braach, Paul, assignor.)
- Rosenblatt, Isidor. (See Petersen, Thorvald J., assignor.)
- Rosenblatt, Isidor, New York, assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 72,681; May 17.
- Rosenblatt, Isidor, New York, assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 72,682; May 17.
- Rosenblatt, Isidor, New York, N. Y. Chandelier or article of similar nature. Des. 73,200; Aug. 2.
- Rosenblatt, Isidor, New York, N. Y. Body for lanterns or articles of similar nature. Des. 73,334; Aug. 23.
- Rosenblum, Harry and M. Schneider, New York, N. Y. Stair plate. 1,622,739; Mar. 29.
- Rosenblum, Morris, Pittsfield, Mass. Pocket for garments. 1,616,140; Feb. 1.
- Rosenblum, Morris, Pittsfield, Mass. Blade holder. 1,616,141; Feb. 1.
- Rosenblum, Morris, Pittsfield, Mass. Thread and cord cutter. 1,620,572; Mar. 8.
- Rosenblum, Morris, Pittsfield, Mass. Pressing apparatus. 1,626,255; Apr. 26.
- Rosener, Leland S., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Machine for preparing but. 1,633,132; Jan. 4.
- Rosener, Leland S., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Paper receptacle. 1,613,133; Jan. 4.
- Rosener, Leland S., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Applying designs to a surface. 1,633,264; Aug. 9.
- Rosenfeld, Harry, Cleveland, Ohio. Lantern. Des. 73,444; Sept. 13.
- Rosenfeld, Hyman L., Bronx, N. Y. Self-adjusted cap. 1,633,457; June 21.
- Rosenfeld, Irvin. (See Gottesman, O. M., and Rosenfeld.)
- Rosenfeld, Louis, assignor to Cherry-Bassett Company, Baltimore, Md. Bottle washing and sterilizing apparatus. 1,634,215; June 28.
- Rosenfeld, Mortimer C. (See Wertz, Austin L., assignor.)
- Rosenfeld, William S., Baltimore, Md. Alignment device for automobile wheels. 1,625,431; Apr. 19.
- Rosenhahn, Carl, East Orange, N. J. Lock. 1,643,752; Sept. 27.
- Rosenheim Co. Inc. (See Jones, Percival W., assignor.)
- Rosenhoffer, Henry J. (See Kerlin, J. F., and Rosenhoffer.)
- Rosenman, Leo, Newark, N. J., assignor to R. K. M. Mfg. Company. Fastener strip or fly for garments. 1,623,361; Apr. 5.

- Rosenman, Leo, Newark, N. J., assignor to R. K. M. Mfg. Company. Fastener strip or fly for garments. 1,629,540; May 24.
- Roseman, Leo, Newark, N. J., assignor to R. K. M. Mfg. Company. Sewing machine. 1,647,148; Nov. 1.
- Rosenquits, Edward, Oakland, Calif. Chiropractic table. 1,616,065; Feb. 18.
- Rosenshine, Annette, New York, N. Y. Ash tray. Des. 73,201; Aug. 2.
- Rosenstein, Ludwig, San Francisco, Calif. Removing sulphur dioxide and compounds from food products. 1,623,070; Apr. 5.
- Rosenstein, Paul, Berlin, Germany. Observation instrument. 1,640,096; Aug. 23.
- Rosenthal, Aaron E., and W. E. Clarin, assignors to Beacon Steel Furniture Co., Chicago, Ill. Removable foot for legs. 1,651,000; Nov. 29.
- Rosenthal, Abraham, New York, N. Y. Woman's undergarment. 1,623,937; Apr. 5.
- Rosenthal, Arthur, assignor to The Rose Patch and Label Co., Grand Rapids, Mich. Label folding and packing machine. 1,618,138; Feb. 15.
- Rosenthal, August, assignor to Rosenthal Mfg. Co., West Allis, Wis. Shaker trough for corn huskers. 1,629,930; May 24.
- Rosenthal China Corporation. (See Wesp, George, assignor.)
- Rosenthal, Dunbar A., and C. P. Winter, assignors to United States Paper Mills, Inc., Chambersburg, Pa. Folding machine. 1,625,566; Apr. 19.
- Rosenthal, Frank, New York, N. Y. Manufacture and treatment of threads. 1,617,544; Feb. 15.
- Rosenthal, Frank, New York, N. Y. Making thread. 1,620,233; Mar. 8.
- Rosenthal, Hans, Berlin, Germany. Gas-pressure regulator. 1,630,408; May 31.
- Rosenthal, Hugo. (See Kovarik, Karl, assignor.)
- Rosenthal, Isadore L., assignor to J. Rosenthal, Brooklyn, N. Y. Method of and device for preventing the skidding of self-propelled road vehicles. 1,625,746; Apr. 19.
- Rosenthal, Julia. (See Rosenthal, Isadore L., assignor.)
- Rosenthal Mfg. Co. (See Rosenthal, August, assignor.)
- Rosenthal, Max H., Los Angeles, Calif. Drawer pull. Des. 72,725; May 24.
- Rosenthal, Robert H., assignor to Pi Lambda Phi Fraternity, Incorporated, New York, N. Y. Pi Lambda Phi fraternity pin. Des. 73,863; Nov. 15.
- Rosenthal, Robert H., assignor to Pi Lambda Phi Fraternity, Incorporated, New York, N. Y. Pi Lambda Phi fraternity pin. Des. 73,869; Nov. 15.
- Rosenthal, Sam, assignor to The Pony Fruit Corporation, New York, N. Y. Paper box and making the same. 1,633,229; June 21.
- Rosenthal, Uriah I., and J. J. Crowley, Montreal, Quebec, Canada. Mattress-wrapping machine. 1,643,091; Sept. 20.
- Rosenthal, William, assignor to Enid Manufacturing Company, New York, N. Y. Brassière. 1,648,464; Nov. 5.
- Rosenthal, William, assignor to Enid Manufacturing Co., Inc., New York, N. Y. Brassière for formal wear. 1,649,736; Nov. 15.
- Rosenzweig, Fred, Pittsburgh, Pa. Recovering metals from slag. 1,643,610; Sept. 27.
- Roser, Mathias F., Detroit, Mich. Collapsible hand bag. 1,636,838; July 26.
- Rosewall, George F. (See Nuhrah, G. A., Thoman, and Rosewall.)
- Rosewater, Benjamin J., Eureka Springs, Ark. Traffic sign. 1,626,876; May 3.
- Rosl, Giovanni V., Los Angeles, Calif. Exercising apparatus. 1,618,847; Feb. 22.
- Rosier, Charles A., New York, N. Y. Hydrocarbon burner. 1,614,045; Jan. 11.
- Rosin, Florence M., Philadelphia, Pa. Tray. Des. 72,966; June 28.
- Rosine, Conrad, Chicago, Ill. Lubricating apparatus. 1,616,199; Feb. 1.
- Rosine, Conrad, Chicago, Ill. Adjustable fan. 1,621,603; Mar. 22.
- Rosinia, James. (See Perciabosco, Michael, assignor.)
- Rosinia, James, et al. (See Kraus, Morris F., assignor.)
- Rosner, Francis A., St. Paul, Minn. Towel holder. 1,646,068; Oct. 18.
- Ross, Albert M., Grand Island, Nebr. Container-cutting machine. 1,649,194; Nov. 15.
- Ross, Albert S., Dallas, Tex. Amusement device. 1,622,495; Mar. 29.
- Ross, Barton, Chicago, Ill. Automatic belt guide. 1,628,614; May 10.
- Ross, Bernie A. (See Ross, Maurice L. and B. A.)
- Ross, Byron C., and J. E. Zomir, Springfield, Mass., assignors to The Diamond Match Company, Chicago, Ill. Composition-applying mechanism for match machines. 1,649,787; Nov. 15.
- Ross, Charles E., assignor to The Collette Manufacturing Company, Amsterdam, N. Y. Nut-tapping machine. 1,632,855; June 21.
- Ross, Clarence E. (See Smith, Marion D., assignor.)
- Ross, Clyde B., Kenilworth, Ill. Pivoted gate for skip hoists. 1,653,589; Dec. 2.
- Ross, David E. (See Gruenewald, E. J., and Ross.)
- Ross, David E., La Fayette, Ind. Compensating gearing. 1,626,156; Apr. 26.
- Ross, David E., La Fayette, Ind. Internal-combustion engine. 1,626,877; May 3.
- Ross, David E., La Fayette, Ind. Differential gearing. 1,647,750; Nov. 1.
- Ross, David E., La Fayette, Ind. Compensating gearing. 1,651,228; Nov. 29.
- Ross, David E., assignor to Purdue University, La Fayette, Ind. Sectional tunnel. 1,642,559; Sept. 13.
- Ross, Donald W. (See Lambie, J. M., and Ross.)
- Ross, Edward E. (See Hbrew, J. S., and Ross.)
- Ross, Elton F., Seattle, Wash. Pump. 1,644,401; Oct. 4.
- Ross, Ernest. (See Farrand, C. L., and Ross.)
- Ross, Ernest. (See Farrand, C. L., Ross, and Godley.)
- Ross, Ernest, assignor to U. S. Tool Co., Inc., East Orange, N. J. Multiple condenser drive. 1,615,041; Jan. 18.
- Ross, Ernest, assignor to U. S. Tool Co., Inc., East Orange, N. J. Rotor-plate spindle mounting for variable condensers. 1,630,075; May 24.
- Ross, Frank A., Wilmette, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Expandible shackle bolt and the like. 1,630,499; May 31.
- Ross, Frank M., Blackburn, Mo. Farm gate. 1,617,135; Feb. 8.
- Ross, Frederick N., Detroit, Mich. Clutch mechanism. 1,643,473; Sept. 27.
- Ross, Frederick N., Detroit, Mich., assignor to The Patent Button Company, Waterbury, Conn. Hopper construction. 1,631,160; June 7.
- Ross, Frederick N., Pontiac, Mich., assignor, by mesne assignment, to The Button Attaching Machine Co., Waterbury, Conn. Button-attaching machine. 1,653,065; Dec. 20.
- Ross Gear & Tool Company. (See Chandler, F. F., and Young, assignors.)
- Ross Gear & Tool Company. (See Gruenewald, E. J., and Ross, assignors.)
- Ross, Harry, assignor to Fur Guide Machine Corporation, New York, N. Y. Needle plate for fur-sewing machines. 1,631,605; June 7.
- Ross, Harry H., Toledo, Ohio. Card game. 1,632,681; June 14.
- Ross, Harry M., assignor of one-half to Beverage Paper Company, Indianapolis, Ind. Mottling device for paper making. 1,624,184; Apr. 12.
- Ross, Homer B. (See Benham, R. E., and Ross.)
- Ross, Hugh C., Toledo, and H. W. Falconer, near Perrysburg, Ohio; said Ross assignor to said Falconer. Identification device for vehicles. 1,619,271; Mar. 1.
- Ross, Hugh M., Woodhaver, assignor to Adriane Machine Works, Inc., Brooklyn, N. Y. Bottle-filling machine. 1,641,550; Sept. 6.
- Ross, James A., North Tonawanda, N. Y. Hot-air distributor. 1,649,738; Nov. 15.
- Ross, James C., Seattle, Wash. Faucet. 1,616,826; Feb. 8.
- Ross, James G. (See Martus, M. L., Becker, and Ross.)
- Ross, John D., Washington, D. C. Nonslip attachment for automobile wheels. 1,627,866; May 10.
- Ross, Joseph, New Albany, Ind. Drill-hole reamer. 1,621,812; Mar. 22.
- Ross, Joseph A., Nanticoke, assignor of one-half to W. L. Delaney, Sheatown, Pa. Toy pump. 1,635,978; July 12.
- Ross, Julius. (See Schuelke, E. A., and Ross.)
- Ross, Julius, and E. A. Schuelke, assignors to The Napier Co., Meriden, Conn. Vanity box. 1,645,351; Oct. 11.
- Ross, Lloyd L. (See Fennell, Charles H., assignor.)
- Ross Manufacturing Company. (See Ryan, James C., assignor.)
- Ross, Maurice L. and B. A., assignors to Hertz Drive-U-Self Stations, Inc., Chicago, Ill. Key carrier. 1,616,704; Feb. 8.
- Ross, Phillip A., Bradford, Pa. Vegetable washer. 1,630,136; May 24.
- Ross, Philip S., Montreal, Quebec, Canada. Fly screen. 1,645,775; Oct. 18.
- Ross, Rufus R., Detroit, Mich. Fuel economizer and carbonizing device. 1,619,830; Mar. 8.
- Ross, Rufus R., assignor to Detroit Specialty Products Corporation, Detroit, Mich. Carburetor attachment. 1,639,242; May 24.
- Ross, Thomas S., Allentown, Pa. Friction roll for looms. 1,649,080; Nov. 15.
- Ross, Thomas W., Manchester, England, assignor to West Inghouse Electric and Manufacturing Company. Regulating or control system for dynamo-electric machines. 1,647,313; Nov. 1.
- Ross, Vaughn H., Vancouver, British Columbia, Canada. Wire-twisting machine. 1,652,460; Dec. 13.
- Ross, Walter, Louisville, Ky. Ball-bearing porch-swing hook. 1,629,363; May 17.
- Ross, Walter E., Hibbs, Pa. Photographic camera. 1,622,925; Mar. 29.
- Ross, William, Surbiton, England. Device for feeding and controlling material. 1,651,633; Dec. 6.
- Rossbach, Adolph H., Columbus, Ohio. Apparatus for coating zinc bars with lead. 1,638,882; Aug. 16.
- Rosselle, George T., Tiffin, Ohio, assignor to Austin Machinery Corporation, Muskegon, Mich. Excavator-bucket extension. 1,648,783; Nov. 8.
- Rosselle, George T., assignor to Austin Machinery Corporation, Muskegon, Mich. Power shovel. 1,649,739; Nov. 15.
- Rosseter, John H. (See McClure, Ralph R., assignor.)

- Rossi, Angelo, Santa Rosa, Calif. Valve-operating structure for motor cycles. 1,624,365; Apr. 12.
- Rossi, Louis M., Perth Amboy, N. J., assignor to Bakelite Corporation, New York, N. Y. Making a phenolic resin varnish. 1,613,724; Jan. 11.
- Rossi, Paul A., Campbell, Ohio. Paintbrush. 1,653,374; Dec. 20.
- Rosier, Wayne F., Vallejo, Calif. Pistol grip for cameras. 1,621,903; Mar. 22.
- Rossman, Agnes R., Scotch Plains, N. J. Sleeping car. 1,621,086; Mar. 15.
- Rossman, Agnes R., Scotch Plains, N. J. Service door. 1,626,157; Apr. 26.
- Rossman, Agnes R., Scotch Plains, N. J. Sleeping car. 1,647,584; Nov. 1.
- Rossman Corporation. (See Southwick, Myron J., assignor.)
- Rossmann, Rudolf, assignor to Deutsche Wollenwaren Manufaktur Aktiengesellschaft, Grunberg, Germany. Method of and apparatus for passing threads into fabrics. 1,645,257; Oct. 11.
- Rossner, May H., New York, N. Y. Combination dish drainer and tub cover. 1,643,905; Sept. 27.
- Rosson, Alpine B., Lincoln, Ark. Hammer. 1,639,614; Aug. 16.
- Rostkinkie, Herman, Marshfield, Oreg. Headrest. 1,644,402; Oct. 4.
- Rostworn, George J., and S. H. Smith, Cumberland, Md. Tire flap. 1,638,460; Aug. 9.
- Rost, Huzo, Dover, N. J. Toy. 1,635,223; July 12.
- Rost, Robert W., Newark, N. J., assignor of one-half to F. Bigzer, New York, N. Y. Playing ball. 1,626,302; Apr. 26.
- Rost, Robert W., Newark, N. J., assignor of one-half to A. F. Bigzer, New York, N. Y. Manufacture of coagulum rubber articles. 1,628,195; May 10.
- Roston, Jacques, London, County, England. Sound-reproducing instrument. 1,621,278; Mar. 15.
- Rostron, Joseph A., Cambridge, Mass. Rheostat. 1,620,573; Mar. 8.
- Roszak, Charles L., Paris, France, assignor to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. 1,646,933; Oct. 25.
- Rotary Compressor Company. (See Roloff, Walter G. E., assignor.)
- Rotary Machine & Engineering Company, The. (See Roessler, Amandus C., assignor.)
- Rotary Printing Company, The. (See Willard, Louis J., assignor.)
- Rotary Refrigeration Incorporated. (See Ryder, C. D., and Moores, assignors.)
- Rotary Rod Weeder & Mfg. Co. (See Wolfe, Henry K., assignor.)
- Roth, Albert. (See Mallory, E. B., and Roth.)
- Roth, Anthony and J. W., New Brunswick, N. J. Automobile attachment. 1,648,784; Nov. 8.
- Roth Brothers & Co. (See Williams, Ralph T., assignor.)
- Roth-Buchner Aktiengesellschaft. (See Feist, Eugen, assignor.)
- Roth, Claude L., administrator. (See Kelth, Nathaniel S.)
- Roth, Edward B., St. Louis, Mo. Retort for treating oil shale. 1,649,195; Nov. 15.
- Roth, Edward B., St. Louis, Mo. Retort for treating oil shale. 1,649,195; Nov. 15.
- Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Flexible pipe joint. 1,649,616; Nov. 15.
- Roth, Frank H., Bay Shore, N. Y. Fuel economizer. 1,637,591; Aug. 2.
- Roth, G. A., Manufacturing Company. (See Cleland, Melvin L., assignor.)
- Roth, Herman, Wauwatosa, Wis. Plumbing fixture. 1,626,255; Apr. 26.
- Roth, Irving. (See Stern, I. Roth, and Markowitz.)
- Roth, Irving. (See Weinberger, V., Jakobovits, and Roth.)
- Roth, Joseph W. (See Roth, Anthony and J. W.)
- Roth, Louis, Elizabeth, N. J., assignor to Sterling Bronze Company, New York, N. Y. Operating means for sash adjusters. 1,615,851; Feb. 1.
- Roth Manufacturing Company. (See Roth, Edward N., assignor.)
- Roth, Martin A., Lille, France. Machine for drafting fibrous materials. 1,644,747; Oct. 11.
- Roth, Thomas P., Louisville, Ky. Tube and tire saving device. 1,648,825; Nov. 8.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 72,914; June 21.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,039; July 19.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,100; July 19.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,101; July 19.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,102; July 19.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 73,202; Aug. 2.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 73,203; Aug. 2.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 73,204; Aug. 2.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 73,205; Aug. 2.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 73,206; Aug. 2.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 73,207; Aug. 2.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp bracket. Des. 73,208; Aug. 2.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,335; Aug. 23.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,336; Aug. 23.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,337; Aug. 23.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,338; Aug. 23.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,339; Aug. 23.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,340; Aug. 23.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,341; Aug. 23.
- Rothbart, Max, assignor to Rembrandt Lamp Corporation, Chicago, Ill. Lamp base. Des. 73,342; Aug. 23.
- Rothbart, Henry A. (See Mahler, E., and Rothchild.)
- Rotheram, John, Creighton, and A. E. Evans, Pittsburgh, Pa. Assignors to Pittsburgh Plate Glass Company. Glass-tann construction. 1,622,346; Mar. 29.
- Rotherham, Walter S., Little Falls, N. Y., assignor to Westinghouse Lamp Company. Sealing-in head for incandescent electric lamps. 1,626,628; May 3.
- Rothermel, Frederick E., Newark, N. J. Bag liner. 1,614,993; Jan. 16.
- Rothermund, Werner F., Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,631,723; June 7.
- Rothlis, Jacob, Muncie Ind., assignor to W. D. Smith Silver Co., Chicago, Ill. Spoon or similar article. Des. 4,026; Dec. 6.
- Rothman, Alex., New York, N. Y. Car-seat handle. 1,650,961; Nov. 29.
- Rothman, Robert, Brooklyn, N. Y. Knit fabric. 1,636,943; July 26.
- Rothmann, Albert, Heidelberg, and H. Stein, Mannheim, assignors to F. Boehringer & Soehne G. m. b. H., Mannheim-Waldhof, Germany. Making bisulky-xanthogens. 1,626,558; Apr. 26.
- Rothschild, Louis, Philadelphia, Pa., and E. G. Clements, Washington, D. C. Dispensing apparatus and means for operating same. 1,641,783; Sept. 6.
- Rothschild, Max, New York, N. Y., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,445; Apr. 12.
- Rothschild, Max, New York, N. Y., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,446; Apr. 12.
- Rothschild, Max, New York, N. Y., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,447; Apr. 12.
- Rothschild, Max, New York, N. Y., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,779; May 31.
- Rothschild, Max, New York, N. Y., assignor to Susquehanna Silk Mills. Textile fabric. Des. 72,780; May 31.
- Rotor Air Tool Company, The. (See Van Hamersveld, John J. N., assignor.)
- Rott, William, New York, N. Y. (See Van Hamersveld, J. J. N., and Cook, assignors.)
- Rotsch, Theodore A., Whittier, Calif. Clamping or separating device. 1,639,111; Aug. 16.
- Rotsted, William, Chicago, Ill. Keeping accounts. 1,636,441; July 19.
- Rotstein, Morris, and R. Nicholson, Vicksburg, Miss. Knockdown camp stove. 1,634,517; July 5.
- Rott, William, New York, N. Y. Game apparatus. 1,649,740; Nov. 15.
- Rottler, William, New York, and E. J. Panish, Brooklyn, N. Y., said Panish assignor to said Rottler. Spring motor. 1,616,142; Feb. 1.
- Rottgardt, Karl, Dahlem, near Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Antenna reel. 1,637,354; Aug. 2.
- Rottgardt, Karl, Dahlem, near Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Control unit for variable instruments. 1,643,787; Sept. 27.
- Rottger, John F., Modesto, Calif. Automatic siphon. 1,634,518; July 5.
- Rothhouse, Charles A., Brandywine Hundred, assignor of one-half to E. G. Cook, Wilmington, Del. Clothes hanger. 1,616,870; Feb. 1.
- Rothhouse, Charles A., Brandywine Hundred, assignor of one-half to E. G. Cook, Wilmington, Del. Vehicle top. 1,629,588; May 24.
- Rottler, Clarence T., Seattle, Wash. Boring machine. 1,614,691; Jan. 18.
- Rottler, Clarence T., Seattle, Wash. Holding blades in cutter heads. 1,618,782; Feb. 22.
- Rottloff, Oswin, Auerbach, Germany. Stocking with longitudinal and transverse reinforcements. 1,621,133; Mar. 15.
- Rottum, Charles. (See Stonequist, L. W., Rottum, and Stonequist.)
- Rouanet, Louis, Ivry-Port, France, assignor to Compagnie d'Applications Mecaniques, Paris, France. Bearing with rolling members. 1,631,763; June 7.
- Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Split pulley. 1,643,611; Sept. 27.

- Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Split pulley. 1,649,978; Nov. 22.
- Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Manufacturing cages for ball or roller bearings. 1,650,852; Nov. 29.
- Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Manufacturing cages for ball or roller bearings. 1,650,853; Nov. 29.
- Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Manufacturing cages for ball or roller bearings. 1,650,854; Nov. 29.
- Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Device for assembling two-piece ball-bearing cages by spot welding. 1,651,779; Dec. 6.
- Roubaix Mills, Incorporated. (See Lister, James R., assignor.)
- Rouband, Emile C. C., and R. A. Veillon, Paris, France. Product for destroying mosquito larvae. 1,625,927; Apr. 19.
- Roucaeyrol, Ernest, Paris, France. Apparatus for controlling and distributing electric currents. 1,621,279; Mar. 16.
- Rouven, Verner E., and W. J. Abbott, Fulton, Ind. Electrical tire-pressure indicator. 1,652,733; Dec. 18.
- Roučka, Erich, Blansko, Czechoslovakia. Impulse system of control. 1,621,280; Mar. 15.
- Roučka, Erich, Blansko, Czechoslovakia. Automatic regulator. 1,630,314; May 31.
- Roučka, Erich, Blansko, Czechoslovakia. Compound system for transmitting a plurality of values. 1,633,713; June 28.
- Roučka, Erich, Blansko, Czechoslovakia. Measuring system. 1,638,100; Aug. 9.
- Roučka, Erich, Blansko, Czechoslovakia. System of measuring by auxiliary energy. 1,638,101; Aug. 9.
- Roučka, Erich, Blansko, Czechoslovakia. Measuring system. 1,638,102; Aug. 9.
- Roučka, Erich, Blansko, Czechoslovakia. System for transmitting or measuring variable conditions. 1,638,103; Aug. 9.
- Roučka, Erich, Blansko, Czechoslovakia. Measuring system. 1,638,104; Aug. 9.
- Roučka, Erich, Blansko, Czechoslovakia. System for transmitting variable conditions. 1,638,105; Aug. 9.
- Roučka, Erich, Blansko, Czechoslovakia. Measuring system. 1,641,185; Sept. 6.
- Roučka, Erich, Blansko, Czechoslovakia. Measuring system. 1,641,196; Sept. 6.
- Roučka, Erich, Blansko, Czechoslovakia. System for transmitting variable conditions. 1,641,197; Sept. 6.
- Roučka, Erich, Blansko, Czechoslovakia. System for transmitting variable conditions. 1,641,198; Sept. 6.
- Roučka, Erich, Blansko, Czechoslovakia. Recording system. 1,641,199; Sept. 6.
- Roučka, Erich, Blansko, Czechoslovakia. System of measuring by impulses of auxiliary energy. 1,641,200; Sept. 6.
- Roučka, Erich, Blansko, Czechoslovakia. Flow-measuring system. 1,645,624; Oct. 18.
- Roučka, Erich, Blansko, Czechoslovakia. Automatic regulator of the rate of combustion in boiler furnaces or groups of furnaces. 1,650,094; Nov. 22.
- Roudanez, Georges, assignor, by mesne assignments, to L. J. Roudanez, Chicago, Ill. Bolt-locking device. 1,624,663; Apr. 12.
- Roudanez, Lucille J. (See Roudanez, Georges, assignor.)
- Rouleau, Wilfred J., Quincy, Mass. Computing scale. 1,623,134; Apr. 5.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Wireless-telegraph receiving system. 1,622,000; Mar. 22.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Wireless receiving circuits. 1,624,185; Apr. 12.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Reproducing sound. 1,625,959; July 12.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Radio signaling system. 1,642,173; Sept. 13.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Vacuum tube. 1,649,489; Nov. 15.
- Round, Henry J., London, England, assignor to Radio Corporation of America. New York, N. Y. Electron-emission device. 1,654,513; Dec. 27.
- Rounds, Charles W., and J. C. Seattle, Wash. Non-chattering gear. 1,619,799; Mar. 1.
- Rounds, John C. C. (See Rounds, Charles W. and J. C.)
- Rounds, Washington Woodstock, Canada. Cutting or trimming device. 1,622,053; Mar. 22.
- Rouprich, Wendie R., McDonoughville, La. Indicator board. 1,653,312; Dec. 20.
- Rouse, George M., assignor, by mesne assignments, of third to E. W. Bellinger, Westmoreland, and one-third to G. M. Thomas, Utica, N. Y. Fire escape. 1,626,698; May 3.
- Rouse, H. B., & Company. (See Knoll, William J., assignor.)
- Rouse, Thomas C., Washington, D. C. Milk-bottle holder. 1,650,409; May 31.
- Rousseau, Ernest J. C., assignor to The Relay Automatic Telephone Company, Limited, London, England. Telephone trunking scheme. 1,645,972; Oct. 18.
- Rousseau, Joseph L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Justifying spacer or space band. 1,635,960; July 12.
- Roussie, Helen M., Providence, R. I. Can for gasoline or the like. 1,627,807; May 10.
- Routh, Arthur P., New Haven, Conn. Dispensing device. 1,618,751; Feb. 22.
- Routin, Joseph, et al. (See Schneider, Eugene, assignor.)
- Routson, Howard W., Oakland, Calif., assignor, by mesne assignments, to Minimax Utilities Corporation. Washing machine. 1,625,096; Apr. 19.
- Routson, John H., Flint, Mich. Stapling device. 1,622,298; Mar. 29.
- Routt, Orville L., Los Angeles, Calif. Making plaster board. 1,646,597; Oct. 25.
- Routt, Orville L., Los Angeles, Calif., assignor to Plasteroid Products, Inc. Plaster board. 1,646,598; Oct. 25.
- Roux, Joseph S., Manchester, N. H. Mop handle. 1,636,714; July 12.
- Rovelli, August, San Francisco, Calif. Cutlery holder for cooking receptacles. 1,627,575; May 10.
- Row, William, Melbourne, Victoria, Australia. Electrical plug switch. 1,615,726; Jan. 25.
- Row, William, Melbourne, Victoria, Australia. Electrical dimmer switch. 1,633,047; June 28.
- Rowan, Albert J., assignor, by mesne assignments, to Uncas Manufacturing Company, Providence, R. I. Display card. 1,643,421; Sept. 27.
- Rowan, James T. (See Cunningham, W. H., and Rowan.)
- Rowan, John V., U. S. Army, Aurora Heights, Va. Shock absorber. 1,627,742; Nov. 29.
- Rowan, Thomas, Brooklyn, assignor to Structural Gypsum Corporation, New York, N. Y. Building construction. 1,632,453; June 14.
- Rowart, Eugene, Anvelais, Belgium, assignor to Pilkington Brothers Limited, Liverpool, England. Drawing glass in sheet form and apparatus therefor. 1,637,961; Aug. 2.
- Rowe, Alvin V., Galesburg, Ill. Ladder and preparing rungs and rails thereof. 1,644,694; Oct. 11.
- Rowe, Charles R., and W. H. Gerns, East Orange, assignors to Brandes Laboratories, Inc., Newark, N. J. System for armature of electromagnetic sound reproducers. 1,649,257; Nov. 15.
- Rowe, Irving R. (See Bradley, E. E., and Rowe.)
- Rowe, Knox M. (See St. Clair, James A., assignor.)
- Rowe, Levi L., deceased, Boston, Mass.; T. H. Rowe, administrator. Valve. 1,645,156; Oct. 11.
- Rowe, Perry R., Amarillo, Tex. Tool-handle fastener. 1,635,961; July 12.
- Rowe, Thomas H., administrator. (See Rowe, Levi L.)
- Rowe, Walter, Chicago, Ill. Game board. Des. 73,103; July 19.
- Rowe, Walter A., Tiffin, Ohio. Lavatory. 1,654,664; July 19.
- Rowe, William A., assignor to American Blower Company, Detroit, Mich. Machine for making sheet-metal fan wheels. 1,648,060; Nov. 8.
- Rowe, William W., assignor to The Paper Service Company, Cincinnati, Ohio. Crinkling and reinforcing paper. 1,628,515; May 10.
- Rowell, E. R., Co. (See Fisher, Charles T., assignor.)
- Rowell, Thorold C., Long Beach, Calif. Transporting jack. 1,614,764; Jan. 18.
- Röwer, Fritz. (See Röwer, Heinrich and F.)
- Röwer, Heinrich and R., Blender, Germany. Attachment for lawnmowers. 1,626,358; Apr. 26.
- Rowland, Jasper M., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Liquid-weighing apparatus. 1,625,825; Apr. 26.
- Rowland, Philip J., and C. J. Scanlan, Jr., San Francisco, Calif. 26 game. 1,649,979; Nov. 22.
- Rowlage, Arthur J., assignor to Rolls Royce Limited, Derby, England. Gearing for propelling aircraft. 1,654,432; Dec. 27.
- Rowlett, Homer A., Oklahoma City, Okla. Stitch pick. 1,642,510; Sept. 13.
- Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Fusible link. 1,622,054; Mar. 22.
- Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Alarm mechanism. 1,641,827; Sept. 6.
- Rowley, Charles A., Los Angeles, Calif. Container for radiocystals and wires used for cat whiskers. 1,616,235; Feb. 1.
- Rowley, Charles P., Ninette, Manitoba, Canada. Trap. 1,635,224; July 12.
- Rowley, Edward G., Belleville, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling machine. 1,618,309; Feb. 22.
- Rowley, Edward G., Belleville, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,619,375; Mar. 1.
- Rowley, Edward G., Belleville, assignor to Underwood Typewriter Company, New York, N. Y. Stenciling machine. 1,638,461; Aug. 9.
- Rowley, Edward G., Belleville, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,643,130; Sept. 20.
- Rowley, Edward G., Belleville, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,649,357; Nov. 15.
- Rowley, James H., assignor to The Sykes Company, Chicago, Ill. Door structure. 1,624,760; Apr. 12.

- Rowley, John S., J. W. Riggles, and H. E. McCully, Lansing, Mich. Dirigible headlight mechanism. 1,634,680; July 5.
- Rowley, Raymond W., St. Louis, Mo. Plasterer's float. 1,627,410; May 3.
- Rowlins, Clifton M. (See Jenks, Charles R., assignor.)
- Rowntree and Company Limited. (See Baker, George R., Prescott, and Gilderdale, assignors.)
- Rowntree, Harold, assignor to National Pneumatic Company, New York, N. Y. Safety system for railway cars. 1,627,748; May 10.
- Rowntree, Harold, Searsdale, N. Y. Manually-operable door and step. 1,627,749; May 10.
- Rowntree, Harold, Searsdale, N. Y., and R. D. Conklin, Rahway, N. J., assignors to National Pneumatic Company, New York, N. Y. System for operating the exit and trap doors of railway coaches. 1,623,556; Apr. 5.
- Roxana Petroleum Corporation. (See Jenny, Willy, assignor.)
- Roy, Edmond J., New York, N. Y. Moving-picture machine. 1,621,953; Mar. 22.
- Roy, Joseph, Cleveland, Ohio, assignor to American Store Company, St. Louis, Mo. Detachable plate for concealed manifolds of gas ranges. 1,643,176; Sept. 20.
- Roy, Joseph W., Detroit, Mich. Storage-battery post clamp. 1,648,914; Nov. 15.
- Roy, Joseph W., assignor of fifty-one one-hundredths to P. Delage, Detroit, Mich. Valve-seat grinder. 1,626,212; Apr. 26.
- Roy, William O., Montreal, Quebec, Canada. Tree. 1,612,272; Mar. 1.
- Roy, William O., Montreal, Quebec, Canada. Developing and transplanting plants. 1,634,727; July 5.
- Royal, Charles B., Chicago, Ill. Lubricator for railway journal boxes. 1,626,428; Apr. 26.
- Royal Electrotape Company. (See Maginnis, William J., assignor.)
- Royal Electrotape Company. (See Walsh, John J., assignor.)
- Royal, Ellery E., assignor to United States Screw & Stamping Co., Worcester, Mass. Shuttle tip. 1,620,234; Mar. 8.
- Royal Glass Works. (See Cantor, Ruban, assignor.)
- Royal, Hugh W. L., North Youngstown, Ohio. Terminal regulator. 1,620,693; Mar. 15.
- Royal, Joseph N., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada. Box or similar container. Des. 72,870; June 14.
- Royal, Joseph N., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada. Box. Des. 74,122; Dec. 20.
- Royal Luma Shade Co. (See Hirsch, Jacob, assignor.)
- Royal Metal Lighting Fixture Co. (See Brown, Max., assignor.)
- Royal Metal Lighting Fixture Company. (See Cricchio, Paul, assignor.)
- Royal Typewriter Company. (See Degener, Gustavo O., assignor.)
- Royal Typewriter Company. (See Handley, George F., assignor.)
- Royal Typewriter Company. (See Hess, Edward B., assignor.)
- Royal Typewriter Company. (See Myers, Lewis C., assignor.)
- Royal Typewriter Company. (See Myers, L. C., and Handley, assignors.)
- Royalty Holding Corporation. (See Maby, Frederick W., assignor.)
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Ignition device of internal-combustion engines. 1,652,328; Dec. 13.
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Mounting engines in vehicles. 1,648,061; Nov. 8.
- Royce, Frederick H., and A. G. Elliott, West Wittering, near Chichester, assignors to Rolls-Royce Limited, Derby, England. Support of aero engines. 1,624,761; Apr. 12.
- Royer, Georges G., Paris, France. Automatic means for running off liquid from containers at predetermined conditions of temperature. 1,630,907; May 31.
- Royer, Ralph, and J. A. Sognis, assignors to M. J. McDonald Estate, Trenton, N. J. Extension tower. 1,644,613; Oct. 4.
- Royer, William R., Wilkes-Barre, Pa. Auxiliary valve for pneumatic tire valve stems. 1,629,972; May 24.
- Royle, Vernon, Paterson, N. J. Tubing machine. 1,618,026; Feb. 15.
- Royle, Vernon, Paterson, N. J. Gearing mechanism for routing machines. 1,627,576; May 10.
- Royle, Vernon, Paterson, N. J. Chip fan for routing machines. 1,635,769; July 12.
- Royle, Vernon, Paterson, N. J. Tubing machine. 1,645,157; Oct. 11.
- Rovee, Grover C., Ogden, Utah. Convertible built-in hot-air furnace. 1,620,235; Mar. 8.
- Royston Paper Company, The. (See Atkinson, Thomas M., assignor.)
- Rozic, Joseph, Palmerton, Pa. Cooking kettle. 1,622,975; Mar. 29.
- Rozier, Honoré, Marseille, France. Universal woodworking machine for carpenters, joiners, and cabinetmakers. 1,624,559; Apr. 26.
- Rubarth, Joseph, Wittlage, Germany. Agricultural implement. 1,642,342; Sept. 13.
- Rubber Latex Research Corporation, The. (See Wescott, William B., assignor.)
- Rubber Service Laboratories Co., The. (See North, Clifton, assignor.)
- Rubber Service Laboratories Co., The. (See Scott, Winfield, assignor.)
- Rubber Shackle Company. (See Blomgren, Henry E., assignor.)
- Rubber Shock Insulator Company, The. (See Lipcot, Fred L., assignor.)
- Rubber Shock Insulator Company. (See Masury, A. F., and Fink, assignors.)
- Rubberstone Corporation. (See Hannam, G. C., and Schede, assignors.)
- Rubel, Charles F., and F. Kucera, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine for cording. 1,619,436; Mar. 1.
- Rubel, Charles F., and F. Kucera, assignor to Union Special Machine Company, Chicago, Ill. Seam for sewed articles. 1,619,437; Mar. 1.
- Ruben Rectifier Corporation of Delaware. (See Ruben, Samuel, assignor.)
- Ruben, Samuel, New York, N. Y. Apparatus for indicating the presence and the concentration of gases and vapors in atmosphere. 1,627,204; May 3.
- Ruben, Samuel, New York, N. Y. Electron relay. 1,627,413; May 3.
- Ruben, Samuel, New York, N. Y. Electrostatic relay device. 1,631,764; June 7.
- Ruben, Samuel, New York, N. Y. Pyrometer. 1,639,534; Aug. 16.
- Ruben, Samuel, New York, N. Y. Electrical vacuum discharge tube. 1,649,420; Nov. 15.
- Ruben, Samuel, New York, N. Y., assignor, by mesne assignments, to Ruben Rectifier Corporation of Delaware. Electric-current rectifier. 1,649,741; Nov. 15.
- Ruben, Samuel, New York, N. Y., assignor, by mesne assignments, to Ruben Rectifier Corporation of Delaware. Electric-current rectifier. 1,649,742; Nov. 15.
- Ruben, Samuel, New York, N. Y., assignor, by mesne assignments, to Ruben Rectifier Corporation of Delaware. Electric-current rectifier. 1,649,744; Nov. 15.
- Ruben, Samuel, New York, N. Y., assignor, by mesne assignments, to Ruben Rectifier Corporation of Delaware. Electric-current rectifier. 1,649,743; Nov. 15.
- Ruben, Samuel, New York, N. Y., assignor, by mesne assignments, to Ruben Rectifier Corporation of Delaware. Electric-current rectifier. 1,649,744; Nov. 15.
- Rubin, Abraham, assignor to Henry Hyman & Co., Inc., New York, N. Y. Cord connector. 1,637,836; Aug. 2.
- Rubin, Adolph, St. Louis, Mo., assignor, by mesne assignments, to Arcade Manufacturing Company, Freeport, Ill. Fastener for refrigerator doors. 1,619,831; Mar. 8.
- Rubin, Adolph, St. Louis, Mo., assignor, by mesne assignments, to Arcade Manufacturing Company, Freeport, Ill. Springless fastener. 1,621,087; Mar. 15.
- Rubin, Adolph, St. Louis, Mo., assignor, by mesne assignments, to Arcade Manufacturing Company, Freeport, Ill. Refrigerator latch. 1,651,553; Dec. 6.
- Rubin, Adolph J., Brooklyn, N. Y. Signal ball. 1,620,290; Mar. 8.
- Rubin, Harry, Brooklyn, N. Y. Slip joint for bedsteads. 1,653,665; Dec. 27.
- Rubin, Samuel, Brooklyn, N. Y. Auto fender. 1,647,933; Nov. 1.
- Rubins, Kay B., Morral, Ohio. Three-wheel riding cultivator. 1,635,560; July 12.
- Rubsam, Charles F., assignor to Rubsam Corporation, Jackson, Mich. Vehicle wheel. 1,622,846; Mar. 29.
- Rubsam Corporation, Inc. (See Rubsam, Charles F., assignor.)
- Rubwood, Inc. (See Atwood, Harry N., assignor.)
- Ruby Frank J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Feeding mechanism. 1,615,137; Jan. 18.
- Ruby, James E., Waynoka, Okla. Animal trap. 1,630,969; May 3.
- Ruck, Richard M., London, England. Gear-changing apparatus. 1,640,808; Aug. 30.
- Ruckel, Le Roy, Stamford, Conn. Windshield cleaner. 1,619,885; Mar. 8.
- Ruckelshaus, John G., Newark, N. J. Magnetic motor. 1,622,258; Mar. 22.
- Rucker, John. (See Kempton, W. E., and Rucker.)
- Rucker, Winfred L. (See MacDonald, Joel W., assignor.)
- Ruckert, Harry E., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Method and apparatus for forming articles from sheet material. 1,627,412; May 3.
- Ruckert, Harry E., and B. M. Fine, assignors, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Method and apparatus for making paper plates and the like. 1,645,931; Oct. 13.
- Ruckstahl, Alfred, assignor to Holcroft & Company, Detroit, Mich. Electric heating device. 1,649,925; Nov. 22.
- Ruckstahl, Alfred, and R. T. Cadwell, assignors to Holcroft and Company, Detroit, Mich. Conveyer. 1,649,926; Nov. 22.
- Rudolph, Albert, Winterthur, Switzerland. Rotary compressor. 1,616,992; Feb. 8.
- Ruda Manufacturing Company. (See Boucek, Charles F., assignor.)

- Rudd, Emil, assignor of one-third to K. W. Bergman and one-sixth to A. J. Franson, Duluth, Minn. Storm-sash fastener. 1,641,551; Sept. 6.
- Rudd, Albert V., East St. Louis, Ill. Railway-tie mechanism. 1,633,130; June 21.
- Rudd, Harry B., Chicago, Ill., assignor to Electropure Corporation, Detroit, Mich. Regenerative heat-exchange device. 1,617,807; Feb. 15.
- Rudd Manufacturing Company. (See Humphrey, Herbert S., assignor.)
- Rudd, Ole E. (See Leslie, John N., assignor.)
- Ruddick, John J., West Newton, Mass. Trolley switch. 1,624,011; Apr. 12.
- Ruddick, John J., West Newton, Mass. Trolley switch. 1,624,012; Apr. 12.
- Ruddick, John J., West Newton, Mass., assignor to General Street Signal Corporation, Rochester, N. Y. Traffic-signaling system. 1,641,694; Sept. 6.
- Ruddy Manufacturing Company, The. (See Markle, George, assignor.)
- Rüdenberg, Reinhold, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Cooling electric machinery. 1,631,765; June 7.
- Rüdenberg, Reinhold, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Deenergizing generators. 1,650,910; Nov. 29.
- Rüdenberg, Reinhold, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Induction motor. 1,645,296; Oct. 1.
- Rüdenberg, Reinhold, Berlin-Grunewald, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Device for the protection of communication systems. 1,651,729; Dec. 6.
- Rüdenberg, Reinhold, Berlin-Grunewald, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Switch tube for controlling electric circuits. 1,650,909; Nov. 29.
- Rüdenberg, Reinhold, Berlin-Charlottenburg, and K. Kurda, Nürnberg, assignors to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Devices for neutralizing the higher harmonics in high-voltage-line plants. 1,625,567; Apr. 19.
- Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Manufacturing sheet metal. 1,621,380; Mar. 15.
- Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Magnetic core for electrical machinery. 1,629,311; May 17.
- Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Alloy. 1,633,826; June 28.
- Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Treating magnetic material. 1,648,697; Nov. 8.
- Rudge-Whitworth Limited. (See Coquille, Emile H., assignor.)
- Rudge-Whitworth Limited. (See Heathcote, Henry L., assignor.)
- Rudge-Whitworth, Limited. (See Pugh, John V., assignor.)
- Rudisill, Henry B., Anniston, Ala. Wrought iron or steel core bar. 1,615,887; Feb. 1.
- Rudland, Johannes, Nordre Furu, Gudbrandsdalen, assignor to Interessentskapet Johs. Rudlands Selvbinder, Lillehammer, Norway. Mowing and reaping machine. 1,630,033; May 24.
- Rudlin, Frederick W., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Distributing valve for rock drills. 1,614,969; Jan. 18.
- Rudolf, Ferdinand A. (See Zieley, F. D., and Rudolf.)
- Rudolph, Carl F., Washington, D. C. Piezo-electric-crystal mounting. 1,649,081; Nov. 15.
- Rudolph, Ernst A., New York, N. Y. Musical toy. 1,648,245; Nov. 8.
- Rudolph, Franklin, Chicago, Ill., assignor to American Can Company, New York, N. Y. Can-body blank. 1,642,174; Sept. 13.
- Rudolph, Walter J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Air pump. 1,625,097; Apr. 19.
- Rudolph, Walter J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Atomizing cleaner. 1,625,098; Apr. 19.
- Rudolph, Walter J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Pump. 1,625,099; Apr. 19.
- Rudolph, Wilhelm. (See Hahemann, W., Rudolph, and Wilekens.)
- Rudolph, Wilhelm, Kiel, and A. du Bois-Reymond, Ploen, near Kiel, assignors to the Firm Signal Gesellschaft m. b. H., Kiel, Germany. Sound-direction finder. 1,636,576; July 19.
- Rudolph Wurltzer Company, The. (See Starke, Emil O., assignor.)
- Rudolph Wurltzer Manufacturing Company, The. (See Deverall, Charles N., assignor.)
- Rudolph, Frank. (See Widell, M. E., and Rudolph.)
- Rudqvist, Carl A., Staket, Sweden. Ignition plug for internal-combustion motors. 1,632,314; June 14.
- Rudqvist, Carl A., Kungskangen, assignor to J. & C. G. Bolinders Mek. Verkstads Aktiebolag, Stockholm, Sweden. Spark-plug valve for internal-combustion motors. 1,623,349; Mar. 29.
- Rudy, Addison E., Matewan, W. Va. Frame for steam shovels. 1,619,156; Mar. 1.
- Ruebensaal, Fred W., Rockford, Ill. Shipping box for chickens. 1,647,043; Oct. 25.
- Ruedebsch, Herman H., Elkton, S. Dak. Adjustable pneumatic horse collar. 1,614,994; Jan. 18.
- Ruedebsch, Herman H., Elkton, S. Dak. Fastener for horse collars. 1,614,995; Jan. 18.
- Ruedebsch, Herman H., Elkton, S. Dak. Vehicle signal. 1,646,766; Oct. 25.
- Ruegg, Leonard, Los Angeles, Calif. Faucet. 1,632,418; June 14.
- Ruegger, Ernest, Creswell, Oreg. Rotating advertising device. 1,628,432; May 10.
- Ruemelin, Richard, Minneapolis, Minn. Sand sifter. 1,617,768; Apr. 13.
- Ruetz, Carl, Zurich, Switzerland. Potato-laying machine. 1,619,488; Mar. 1.
- Ruff, Edward, and E. C. L. Bailey, Newark, N. J. Automatic reciprocating bolt. 1,628,808; May 17.
- Ruff, Frederick A., Newark, N. J. Luggage carrier. 1,617,768; Apr. 13.
- Ruff, Frederick A., Belleville, N. J. Shock absorber. 1,630,275; May 31.
- Ruff, Israel P., Connellsville, Pa. Kitchen utensil. 1,623,703; Apr. 5.
- Ruff, Martin L., Jacksonville, Fla. Attachment for hair clips. 1,625,747; Apr. 19.
- Ruff, Samuel P., Jr., Chester, Pa. Treating yarns for knitting. 1,615,234; Jan. 25.
- Ruffin, Allan F., et al., executors. (See Ruffin, John A.)
- Ruffin, Horace E., et al., executors. (See Ruffin, John A.)
- Ruffin, John A., deceased, Middletown, Conn.; H. E. Ruffin, executors. Noiseless typewriter. 1,630,765; May 31.
- Ruffner, George E., Racine, Wis. Power mechanism for driving tools. 1,617,512; Feb. 15.
- Ruffy, J. O., et al. (See Ruffy, Verdie C., assignor.)
- Rufy, Verdie C., assignor of one-half to L. O. Moose and J. O. Rufy, Stony Point, N. C. Window-shade bracket. 1,638,707; Aug. 9.
- Rugger, Charles, Sioux City, Iowa. Current motor. 1,653,970; Dec. 27.
- Ruggles, Charles H. (See Traylor, S. W., and Ruggles.)
- Ruggles, Horace F., Brooklyn, N. Y. Sling hook. 1,621,604; Mar. 22.
- Ruggles-Klingman Mfg. Co. (See Kimball, James L., assignor.)
- Ruggles, Leonard L., Wheaton, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Party-line automatic telephone system. 1,648,031; Nov. 8.
- Rugh, John M., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Producing ferrocyanides from crude calcium cyanides. 1,650,390; Nov. 22.
- Ruguenet, John A., Elbow Lake, Minn. Attachment for autos. 1,617,651; Feb. 15.
- Ruhloff, Frederick C. (See Bager, W. M., Lehman, and Ruhloff.)
- Rukenbrod, Cornelius J., Princeton, assignor to The Electric Porcelain and Manufacturing Company, Trenton, N. J. Securing vitreous articles in place. 1,652,052; Dec. 6.
- Rukop, Hans, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Halesches, Berlin, Germany. Circuit arrangement for generating oscillations. 1,614,494; Jan. 18.
- Rukop, Hans, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Halesches, Berlin, Germany. Circuit arrangement for generating electrical oscillations. 1,622,001; Mar. 22.
- Rukop, Hans E., assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Halesches, Berlin, Germany. Valve amplifier. 1,618,298; Feb. 22.
- Ruiz, John F., assignor to The Owens Bottle Company, Toledo, Ohio. Forming and delivering charges of molten glass. 1,623,362; Apr. 5.
- Rule, John F., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,642,828; Sept. 20.
- Rule, Oliver, and J. A. Bennett, Chicago, Ill. Tire-spreading device. 1,652,414; Dec. 13.
- Rulife, Carroll J., Clay, N. Y. Trap. 1,616,562; Feb. 8.
- Rumbaugh, Roland C., Shreveport, La. Jack-post construction. 1,617,966; Feb. 15.
- Rumble, Alex C., assignor of one-half to W. E. Lauer, Los Angeles, Calif. Automatic disconnecting pot heads. 1,637,090; July 26.
- Rumbolt, Alex C., Los Angeles, Calif. Splice head for electric cables. 1,647,251; Nov. 1.
- Rumbough, Stanley M., New York, N. Y. Cap. 1,627,065; May 3.
- Rumely, Vincent P., Detroit, Mich. Tool for adjusting points of spark plugs. 1,629,000; May 17.
- Rumely, Vincent P., assignor to Hudson Motor Car Company, Detroit, Mich. Brace for shipping vehicles in freight cars. 1,651,351; Nov. 29.
- Rumke, George H., Denver, Colo. Amusement apparatus. 1,628,745; May 17.

- Rummer, John C. Flemington, assignor of one-half to D. Stewart, Lock Haven, Pa. Combined tire and rim carrier and rim tool. 1,635,907; July 12.
- Rummins, John, Lansing, assignor to General Motors Corporation, Detroit, Mich. Shaft bearing. 1,649,258; Nov. 15.
- Rummier, Francis J. (See Prescott, S. I., and Rummier.)
- Rumore, Joseph, Bessemer, Ala. Battery terminal. 1,631,294; Nov. 29.
- Rumrich, Alfons, Pittsburgh, Pa. Burglar alarm. 1,629,812; May 17.
- Rumsch, Emil, Forst-Lausitz, Germany. Safety device for steam mangles. 1,639,386; Aug. 16.
- Runde, Rupert E., Rockville Center, N. Y., assignor to Photometric Products Corporation. Color-sorting machine. 1,626,359; Apr. 26.
- Rundgren, John, and C. A. Billetdoux, Philadelphia, Pa. Drafting table. 1,622,847; Mar. 29.
- Rundlett, George W., Washington, D. C. Temporary tire-tube valve. 1,637,499; Aug. 2.
- Rundqvist, Thore R. E., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,654,514; Dec. 27.
- Runge, Richard M., assignor, by mesne assignments, to The Miller Company, Meriden, Conn. Lamp support. 1,625,100; Apr. 19.
- Runge, Richard W., assignor to Leach Company, Oshkosh, Wis. Track roller. 1,627,413; May 3.
- Runge, Richard W., assignor to Leach Company, Oshkosh, Wis. Power boom-swinging mechanism. 1,637,457; Aug. 2.
- Runge, Robert F., Forest Hills, N. Y., assignor to The Skafey Ball Bearing Company, Hartford, Conn. Sheet-metal cage for roller bearings. 1,616,827; Feb. 8.
- Runge, Robert F., Forest Hills, N. Y., assignor to The Skafey Ball Bearing Company, Hartford, Conn. Sheet-metal cage for roller bearings. 1,616,828; Feb. 8.
- Runge, Robert F., Forest Hills, N. Y., assignor to The Skafey Ball Bearing Company. Hanger box. 1,638,747; Aug. 9.
- Runge, Walter, Orange, N. J., assignor to The Brekeat Corporation of America, New York, N. Y. Agent for recovery of volatile solvents and method of using it. 1,631,355; Nov. 23.
- Runne, Ernst. (See Thiess, K. Müller, Runne, and Schaeffer.)
- Runnels, Paul P. (See Williamson, F., and Runnells.)
- Running, Albert O., Dallas, Wis. Map holder. 1,632,856; Aug. 21.
- Runyan, William B., assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Melting furnace. 1,614,085; Jan. 11.
- Runyan, William B., assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Jack. 1,652,582; Dec. 13.
- Runyon, Carroll T., Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Cushioning connection for shafting. 1,615,138; Jan. 18.
- Ruoff, Frederick, Irvington, N. J., assignor to H. N. Smith, New York, N. Y. Vending machine. 1,626,429; Aug. 26.
- Ruoff, Leroy R., assignor of one-fourth to H. P. Denison and one-fourth to E. A. Thompson, Syracuse, N. Y. Wireless apparatus. 1,648,592; Nov. 8.
- Rupf, Frank E., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder. 1,641,987; Oct. 4.
- Rüping, Max, Munich, assignor to Döbelwerke G. m. b. H., Berlin, Germany. Driver for driving thin-walled dowels into railway sleepers. 1,618,889; Feb. 22.
- Rupp, Charles, assignor to J. S. Thorn Company, Philadelphia, Pa. Window frame. 1,623,496; Apr. 5.
- Rupp, Guy A. (See Snelling, W. O., and Rupp.)
- Rupp, John L., Wilkensburg, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa. Casing for combined battery and battery charger for radio apparatus. Des. 72,576; May 3.
- Rupp, Virgil R., Quincy, Ill. Mineral feed and preparing the same. 1,637,428; Aug. 2.
- Ruppel, Frederick C., Grand Rapids, Mich. Automobile radiator cap. Des. 73,509; Sept. 20.
- Ruppel, Frederick C., Grand Rapids, Mich. Assignor to Peerless Motor Car Corporation, Cleveland, Ohio. Radiator cap for motor vehicles. Des. 74,074; Dec. 13.
- Ruppel, Sigward, Frankfurt-on-the-Main, Germany. Automatic excess current switch with electro-magnetic and thermic release. 1,641,201; Sept. 6.
- Ruppel, Sigward, Frankfurt-on-the-Main, Germany. Interrupter for electric circuits. 1,641,202; Sept. 6.
- Ruppenkamp, William G. (See Gehersky, William W., assignor.)
- Ruppert, Albert A., assignor to General Motors Corporation, Detroit, Mich. Trimming. 1,643,318; Sept. 27.
- Rupprecht, Louis, Montclair, N. J., and A. G. Kollstedt, New York, N. Y. Method of and machine for grinding. 1,622,849; Mar. 29.
- Rurup, Walter F., Santa Ana, Calif. Tree-shaking device. 1,623,497; Apr. 5.
- Rusby, Hermann. (See Fletcher, G. H., and Rusby.)
- Rusch, Christ A., et al. (See Haussmann, John F., assignor.)
- Ruscher, Harold, New York, N. Y. Diagram holder. 1,631,986; June 14.
- Rusconi, Louis, Fresno, Calif. Draft equalizer. 1,647,888; Nov. 1.
- Russell, William J., Wolverhampton, England. Pumping liquid and apparatus therefor. 1,615,139; Jan. 18.
- Rush, William J., Wolverhampton, England. Pump or motor. 1,615,140; Jan. 18.
- Ruse, Charles L., Warsaw, Ind., assignor of one-half to G. J. Steinhilbert, Peru, Ind. Railway-rail brace. 1,643,177; Sept. 26.
- Rush, Albert, and R. H. Greeger, assignors to The Kinnear Manufacturing Company, Columbus, Ohio. Door and operating mechanism therefor. 1,629,973; May 24.
- Rush, Frank B., Detroit, Mich. Vehicle tire. 1,622,848; Mar. 29.
- Rush, Henry R., Endicott, N. Y. Presser foot. 1,615,042; Jan. 18.
- Rush, Joseph K., assignor, by mesne assignments, to Rush Outing Co., Inc., Syracuse, N. Y. Folding tent. 1,642,267; Sept. 13.
- Rush Outing Co. (See Rush, Joseph K., assignor.)
- Rush, W. S., & Co. (See Muhleisen, Henry W., assignor.)
- Rush, W. S., and W. Plainfield, N. J. Engine-cooling system. 1,621,755; Mar. 22.
- Rushmore, Samuel W., Plainfield, N. J. Temperature control for internal-combustion engines. 1,651,156; Nov. 29.
- Rushmore, Samuel W., Plainfield, N. J. Cooling system for internal-combustion engines. 1,644,088; Oct. 4.
- Rushmore, Samuel W., Plainfield, N. J. Cooling system. 1,631,347; Nov. 29.
- Rushmore, Walter C., Denver, Colo. Device for supplying cleaning solution. 1,647,473; Nov. 1.
- Rushton, Eugene R., Madison, Wis. Producing arsenic compounds. 1,624,281; Apr. 12.
- Rushton, Kenneth, deceased, by executrix, to The Baldwin Locomotive Works, Philadelphia, Pa. Locomotive boiler. 1,614,396; Jan. 11.
- Rushton, Margaret P., executrix. (See Rushton, Kenneth.)
- Rusznicki, Fabrizio, Turin, Italy. Manoeuvring indicator. 1,629,227; May 17.
- Russ, George F., Jersey City, N. J., assignor to Russ Inserting Machine Co., Inc., Dover, Del. Envelope-filling machine. 1,633,350; June 21.
- Russ Inserting Machine Co. (See Russ, George F., assignor.)
- Russ Manufacturing Company, The. (See Joslin, C. T., and Klotz, assignors.)
- Russak, Michael J., New York, N. Y. Cigarette holder. 1,627,463; May 3.
- Russe, William H. (See Allen, Chester B., assignor.)
- Russell, John W., Marietta, Ga. Combination drain board and tub cover. 1,643,906; Sept. 27.
- Russell, Philip S., St. Louis, and D. M. Boyd, Kirkwood, Mo. Assignors, by mesne assignments, to Electrol, Inc., of Missouri, St. Louis, Mo. Pump. 1,629,121; May 17.
- Russell, Alvin B., Brooklyn, N. Y. Wall-paper-removing tool. 1,617,921; Feb. 15.
- Russell, David M., and J. H. Shley, Chicago, Ill. Egg crate. 1,621,904; Mar. 22.
- Russell, Edward A. (See Gold, E. H., and Russell.)
- Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible joint. 1,615,774; Jan. 25.
- Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible pipe joint. 1,619,218; Mar. 1.
- Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Automatic regulating apparatus for car-heating systems. 1,619,219; Mar. 1.
- Russell, Edward A., Chicago, and P. B. Parks, Oak Park, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Limit switch for valve-operating mechanism. 1,631,161; June 7.
- Russell, Charles L. (See Warner, Albion L., assignor.)
- Russell, Charles S. (See Carlton, James A., assignor.)
- Russell, George E., Florence, Ala. Dispensing stand. 1,621,905; Mar. 22.
- Russell, Guy M., deceased, Syracuse, by American Piano Company, New York, N. Y., assignee. Automatic musical instrument. Re16,729; Aug. 30.
- Russell, Harry G., assignor to Consolidated Electric Sign Corporation, Battle Creek, Mich. Sign. Des. 74,123; Dec. 20.
- Russell, Herbert O., Detroit, Mich., and C. L. Paulus, Dayton, Ohio. Electrically-operated wing-pit flare bracket. 1,627,066; May 3.
- Russell, Herbert O., Parlier, Calif., and C. L. Paulus, Dayton, Ohio. Gun sight for night use. 1,635,059; July 5.
- Russell, Howard W., Collingswood, N. J. Buckle. 1,648,062; Nov. 8.
- Russell, James M., Dayton, Ohio. Solder iron. 1,641,604; Sept. 6.
- Russell, James M., Dayton, Ohio. Parachute pack. 1,627,007; May 3.
- Russell, James M., assignor to H. R. McClintock, San Diego, Calif. Parachute. 1,631,766; June 7.
- Russell, James M., assignor to H. R. McClintock, San Diego, Calif. Parachute pack. 1,631,767; June 7.
- Russell, James M., assignor to H. R. McClintock, San Diego, Calif. Parachute harness. 1,631,768; June 7.
- Russell, Jesse E. S., Los Angeles, Calif. Laundry carrier. 1,641,458; Sept. 6.

- Russell, John W., Columbia, Pa., assignor of one-half to Marietta Hollow Ware and Enameling Company, Marietta, Pa. Combination drain board and cover. 1,628,746; May 17.
- Russell, Leon L., Livermore Falls, Me. Game board. Des. 73,269; Aug. 16.
- Russell, Leon L., Livermore Falls, Me. Game. 1,624,282; Apr. 12.
- Russell, Leon L., Livermore Falls, Me. Game. 1,649,082; Nov. 15.
- Russell, Leslie A., assignor to Koehring Company, Milwaukee, Wis. Power shovel. 1,639,752; Aug. 23.
- Russell, Lucia H., Casa Piedra, Tex. Adjustable broom. 1,618,771; Jan. 11.
- Russell, Mark N., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Lamp grip. 1,644,038; Oct. 4.
- Russell, Nelson J., Chicago, Ill. Fuel-saving device. 1,613,907; Jan. 11.
- Russell, Philip J., assignor of forty-nine one-hundredths to E. Kellykoudas, Fall River, Mass. Lock nut and allied fastening means. 1,640,374; Aug. 30.
- Russell, Robert A., Rustburg, Va. Road scraper. 1,634,216; June 28.
- Russell, Robert A., Ridgewood, N. J. Receptacle closure. 1,645,158; Oct. 11.
- Russell, Robert A., Ridgewood, assignor to Paragon Can & Cap Company, Inc., Paterson, N. J. Receptacle closure. 1,633,276; June 21.
- Russell, Robert A., Ridgewood, assignor to Paragon Can & Cap Company, Inc., Paterson, N. J. Combined receptacle closure therefor and dauber. 1,645,159; Oct. 11.
- Russell, Robert L., et al. (See Ackerman, Chester W., assignor.)
- Russell, Rufus A., Jr., Hendersonville, N. C. Automobile headlight. 1,618,108; Feb. 15.
- Russell, Samuel G., assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 1,640,375; Aug. 30.
- Russell, Susan V., et al. (See Poble, Walter B., assignor.)
- Russell, Thomas C., Chicago, Ill. Electric heating structure. 1,637,391; Aug. 2.
- Russell, Thomas C., Chicago, Ill. Electric terminal. 1,654,143; Dec. 27.
- Russell, Thomas N., Chicago, Ill. Brake-lever connection. 1,647,252; Nov. 1.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Uncoupling device. 1,618,228; Feb. 22.
- Russell, Thomas N., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Uncoupling device for couplings. 1,622,055; Mar. 22.
- Russell, Thomas N., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,622,056; Mar. 22.
- Russell, Thomas N., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car end. 1,637,518; Aug. 2.
- Russell, Thomas N., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline. 1,644,450; Oct. 4.
- Russell, Walter B. (See La Londe, Moses, assignor.)
- Russell, Walter S., Los Angeles, Calif. Material-handling device. 1,625,913; Apr. 26.
- Russell, Walter S., Los Angeles, Calif. Material-handling device. 1,625,960; Apr. 26.
- Russell, William A. (See Stewart, C. and Russell.)
- Russell, Willis W., Cincinnati, Ohio. Carton. 1,626,971; May 3.
- Russell, Zachary E., assignor to C. W. Warren, Sauk Rapids, Minn. Curtain guide and support. 1,646,493; Oct. 25.
- Russell Manufacturing Company, The. (See Fisher, William C., assignor.)
- Russell Manufacturing Company, The. (See Ingersoll, Charles A., assignor.)
- Russell Manufacturing Company, The. (See Moore, Harold J., assignor.)
- Russell & Stoll Company. (See Meschenmoser, William F., assignor.)
- Russo, Albert, Hurstton, Pa. Nipple. 1,621,134; Feb. 15.
- Russo, Albert, and J. Brooklyn, N. Y. Clothesline support. 1,639,275; Aug. 16.
- Russo, Angelo, Burlington, Mass. Lock. 1,639,535; Aug. 16.
- Russo, Giocchino, Catania, Italy. Optical apparatus, as photographic camera, for reproducing the objects with their natural colors. 1,629,974; May 24.
- Russo, Joseph. (See Russo, Albert, and J.)
- Rutenber, Edwin A. (See Lindemann, W. C., and Rutenber.)
- Rutenber, Edwin A., assignor to A. J. Lindemann & Hoversen Company, Milwaukee, Wis. Timer for electrically-operated devices. 1,622,002; Mar. 22.
- Rutenber, Edwin A., assignor to A. J. Lindemann & Hoversen Company, Milwaukee, Wis. Curling iron. 1,630,766; May 31.
- Rutenber, Edwin A., assignor to A. J. Lindemann & Hoversen Company, Milwaukee, Wis. Timer for electrically-operated devices. 1,634,083; June 28.
- Rutenber, Samuel, New York, N. Y. Necktie and lining. 1,621,336; Mar. 15.
- Rütgerswerke Aktiengesellschaft Abteilung Planlawerke. (See Kahl, Leopold, assignor.)
- Ruth, Charles H., Huntington Park, Calif. Connecting means for bed rails. 1,644,281; Oct. 4.
- Ruth, George P. (See Davis, Emerson, assignor.)
- Ruth Glass Company. (See Koenig, Robert H., assignor.)
- Ruth, Ross T., Winterset, Iowa. Wall-board support. 1,653,824; Dec. 27.
- Ruth, Walter H., Greensburg, Kans. Automobile attachment. 1,649,083; Nov. 15.
- Ruthenbusch, Louis R., East Moline, Ill. Boat. 1,636,076; Apr. 19.
- Rutherford, Edward J. Y., Cheltenham, England. Liquid-fuel burner. 1,650,391; Nov. 22.
- Rutherford, Harry K., U. S. Army, and W. E. Krotee, Philadelphia, Pa. Telescopic musket sight. 1,613,807; Jan. 11.
- Rutherford, Marvin E., Los Angeles, Calif. Storage-battery terminal. 1,630,218; May 24.
- Rutherford, Walter, et al. (See Geake, William H. G., assignor.)
- Ruths Accumulator Company. (See Wettstein, Fritz, assignor.)
- Ruths, Johannes, Djursholm, assignor to Aktiebolaget Vaporkumulatör, Stockholm, Sweden. Steam plant. 1,622,675; Mar. 29.
- Ruths, Johannes, Djursholm, assignor to Aktiebolaget Vaporkumulatör, Stockholm, Sweden. Support. 1,634,084; June 28.
- Rutkowski, Walter L., assignor to R. C. Can Company, St. Louis, Mo. Powder can. 1,653,471; Dec. 20.
- Rutledge, John J., assignor of one-half to J. H. Harrison, Joliet, Ill. Engine-stopping device. 1,633,386; June 21.
- Ruther, Stanley A., Hill, Calif. Bailer dump. 1,625,686; Apr. 19.
- Rüttsche, Gallus, Rorschach, Switzerland. Removing deposit, scale, or incrustations from metal. 1,645,664; Oct. 18.
- Ruttan, Alfred A., Rochester, assignor to Eastman Kodak Company, Rochester, N. Y. Film-pack construction. 1,638,552; Aug. 9.
- Rüttenauer, Alfred, Berlin-Charlottenberg, Germany, assignor to General Electric Company, Inclosed arc lamp. 1,629,313; May 17.
- Rüttenauer, Alfred, Charlottenburg, Berlin, and G. Galdies, Pankow, Berlin, Germany, assignors to General Electric Company, Inc. Inclosed arc lamp. 1,624,762; Apr. 12.
- Rutter, Essington O., Bangaroo, near Canowindra, New South Wales, Australia. Swiveling headlight of automobiles. 1,620,291; Mar. 8.
- Rüttger-Pelli, Maria, Lucerne, Switzerland. Massaging apparatus. 1,635,497; July 12.
- Rüttger-Pelli, Maria, Lucerne, Switzerland. Manicuring appliance. 1,653,871; Dec. 27.
- Ruttiman, Alfred, and F. E. White, assignors to Florence Stove Company, Gardner, Mass. Oil-burning heater. 1,615,852; Feb. 1.
- Ruttle, John H., Carsonville, Mich. Bean-separating machine. 1,623,275; Apr. 5.
- Rutz, Frank C., Rockford, Ill. Hand brake for railway cars. 1,624,510; Apr. 12.
- Rutz, Frank C., Rockford, Ill. Brake device for railway cars. 1,639,669; Aug. 23.
- Ruwwe, Frank B. (See Thomas, G. E., Jr., Wade, and Ruwwe.)
- Ruwwe, Frank B., Eagle Lake, Tex. Gravity-operated figure toy. 1,630,137; May 24.
- Ruzicka, Henry, New York, N. Y. Braking device for sleds. 1,630,970; May 31.
- Ruzicka, Leopold, Zurich, assignor to M. Naef & Co., Stettin, Switzerland. Manufacture of d. l-nerolidol. 1,644,546; Oct. 4.
- Ryan, Alva L., assignor of one-half to W. J. Artz, Pittsburgh, Pa. Pressure gauge. 1,636,077; July 19.
- Ryan, Bertha C., et al. (See Kay, Oscar, assignor.)
- Ryan, Commodore D. (See Ryan, Theodore J. and C. D.)
- Ryan, Dorsy M., Hinton, W. Va. Diagnostic apparatus. 1,619,886; Mar. 8.
- Ryan, Edward A., and F. L. Marksman, Milwaukee, Wis. Tire chain. 1,633,277; June 21.
- Ryan, Edward P. (See Chant, J., and Ryan.)
- Ryan, Francis M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Supervisory system for carrier telephone systems. 1,616,638; Feb. 8.
- Ryan, Francis M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric wave signaling system. 1,652,995; Dec. 13.
- Ryan, Frederick E., Danbury, Conn. Bill fold. 1,638,462; Aug. 9.
- Ryan, George E., Taunton, Mass. Heating and humidifying device. 1,619,092; Mar. 1.
- Ryan, George E., Los Angeles, Calif., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Spring-pad construction. 1,628,196; May 10.
- Ryan, Isaac A., Ironton, Ohio. Barge-unloading apparatus. 1,631,065; May 31.
- Ryan, James C., assignor to Ross Manufacturing Company, Kansas City, Mo. Flush-tank valve. 1,637,592; Aug. 2.
- Ryan, Jeremiah, Syracuse, N. Y. Offset tool holder. 1,635,437; July 12.
- Ryan, John J., Chicago, Ill. Valve. 1,624,186; Apr. 12.
- Ryan, John J., and J. Gaffney, assignors to National Folding Box Company, New Haven, Conn. Display carton. 1,625,687; Apr. 19.
- Ryan, John J., and J. Gaffney, assignors to National Folding Box Company, New Haven, Conn. Display container. 1,650,392; Nov. 22.

- Ryan, John W., French Camp, Calif. Filers. 1,640,723; Aug. 30.
- Ryan, Joseph F., Chicago, Ill. Oil-well-regulation method and means. 1,634,085; June 28.
- Ryan, Michael B., Milford, Conn. Chain link and making the same. 1,614,900; Jan. 18.
- Ryan, Theodore J. and J. D. Los Angeles, Calif. Frictional hinge device. 1,634,052; June 28.
- Ryan, Thomas C., Wilmington, Del. Golf-simulating game. 1,638,365; Aug. 9.
- Ryan, Timothy J., Douglas, Ariz. Folding table. 1,614,539; Jan. 18.
- Ryan, Walter D.A., Schenectady, N. Y. Headlight. 1,647,149; Nov. 1.
- Ryan, Walter D.A., Schenectady, N. Y. Headlight. 1,647,150; Nov. 1.
- Ryan, Walter D., Schenectady, N. Y. Headlight. 1,648,198; Nov. 8.
- Ryan, Walter D., Schenectady, N. Y. Headlight. 1,648,997; Nov. 15.
- Ryan, William J., jr. (See Weir, J. W., and Ryan.)
- Rybar, Stephen, Budapest, Hungary. Eotvos's torsion balance. 1,617,823; Feb. 15.
- Rybeck, Adolph W., Milwaukee, Wis. Shaft coupling. 1,633,930; Dec. 27.
- Rybeck, Adolph W., assignor to The T. L. Smith Company, Milwaukee, Wis. Valve. 1,623,557; Apr. 5.
- Rybeck, Adolph W., assignor to The T. L. Smith Company, Milwaukee, Wis. Drive and drum support for concrete mixer. 1,648,063; Nov. 8.
- Rybeck, Adolph W., assignor to The T. L. Smith Company, Milwaukee, Wis. Liquid-measuring apparatus. 1,648,151; Nov. 8.
- Ryberg, Fritz R., Cleveland, Ohio. Cleaning mechanism. 1,629,740; May 24.
- Rykowski, John S., Endicott, N. Y. Ignition switch. 1,650,469; Nov. 22.
- Ryckman, Norman E. (See Kemp, C. T., and Ryckman.)
- Rydberg, Gustav G. H. (See Broady, H. W., and Rydberg.)
- Rydberg, John T., Brooklyn, N. Y., assignor to Supreme Player Action Corporation. Automatic playing instrument. 1,630,034; May 24.
- Rydberg, John T., Harrison, N. J., assignor to Supreme Player Action Corporation. Transmission mechanism for player actions. 1,630,035; May 24.
- Rydberg, John T., Harrison, N. J., assignor to Supreme Player Action Corporation. Piano action. 1,650,095; Nov. 22.
- Ryder, John, and C. Gustavson, Rockford, Ill. Adjustable clamp. 1,642,829; Sept. 20.
- Ryder, Alfred C. (See Ryder, Alfred and A. C.)
- Ryder, Alfred and A. C., Sheffield, Ala. Adjustable hat block. 1,630,803; May 31.
- Ryder, Charles, assignor to Wolverine Motor Works, Inc., Bridgeport, Conn. Operating oil engines and improved oil engine. 1,618,229; Feb. 22.
- Ryder, Charles D., and C. F. Moores, said Ryder assignor to Rotary Refrigeration, Incorporated, New York, N. Y. Ice-cream cabinet. 1,635,962; July 12.
- Ryder, Elmer, Berwyn, Ill. Shock absorber. 1,615,916; Feb. 1.
- Ryder, Elmer, Berwyn, Ill. Liquid-level gauge. 1,654,666; Dec. 27.
- Ryder, Elmer, Elgin, Ill. Vaporizing attachment for internal-combustion engines. 1,618,139; Feb. 15.
- Ryder, Elmer, Elgin, Ill. Motor-vehicle heater. 1,653,667; Dec. 27.
- Ryder, Elmer, Elgin, Ill. Motor-vehicle heater. 1,653,668; Dec. 27.
- Ryder, Forest C., Elgin, Oreg. Glareshield. 1,642,045; Sept. 13.
- Ryder, Frank P., Niagara Falls, N. Y. Green-pea viner. 1,652,499; Dec. 13.
- Ryder, Gilbert E., Leonia, N. J., assignor to The Superheater Company, New York, N. Y. Locomotive tender water oil separator. 1,636,787; July 26.
- Ryder, Harry M. (See Grondahl, L. O., and Ryder.)
- Ryder, Harry M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermionic device. 1,652,497; Dec. 13.
- Ryder, Hugh T. (See Matthews, H. E. Love, and Ryder.)
- Ryder, Mark H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube structure and assembling the same. 1,615,654; Jan. 25.
- Ryder, Parly H., and C. W. Moore, Bucyrus, Ohio, assignors to Smokeless Oil Burner Company. Oil burner. 1,624,806; Apr. 12.
- Ryder, Parly H., and C. W. Moore, Bucyrus, Ohio, assignors to Smokeless Oil Burner Company. Oil burner. 1,645,546; Oct. 18.
- Ryder, Robert W., assignor to Santa Cruz Portland Cement Company, San Francisco, Calif. Cement kiln feeder. 1,628,197; May 10.
- Rydning, Herbert C., and A. B. Howwell, Birmingham, Ala. Heating furnace. 1,624,763; Apr. 12.
- Rydner, Gustaf W., assignor to Huron Industries, Inc., Alpena, Mich. Air vent for transmission unit. 1,639,670; Aug. 23.
- Rydzy, Bunny M., Michigan City, Ind. Combination flash light and circuit tester. 1,653,609; Dec. 27.
- Rye, Olaf. (See Sandvold, O., Rye, and Platou.)
- Ryerson, Cornelius A., Toronto, Ontario, Canada. Thermal-efficiency casing for fluid-heating boilers. 1,614,805; Jan. 18.
- Ryerson, Cornelius A., Toronto, Ontario, Canada. Thermal-efficiency casing for heating boilers. 1,614,806; Jan. 18.
- Ryerson, Ellof S., Dayton, Wash. Load-bracing jack. 1,613,057; Jan. 4.
- Ryerson, Joseph T., & Son, Inc. (See Seymour, W., jr., Groff, and Schaaf, assignors.)
- Rylander, James B., et al. (See Rylander, Parrish H., assignor.)
- Rylander, Parrish H., et al. (See Rylander, William P., assignor.)
- Rylander, Parrish H., assignor to W. P., J. B., and P. H. Rylander, constituting the Firm of the Rylander Company, Austin, Tex. Sterilizing cotton and other seeds. 1,641,097; Aug. 30.
- Rylander, William P., et al. (See Rylander, Parrish H., assignor.)
- Rylander, William P., assignor of one-third to T. F. Caldwell, Austin, and one-third to P. H. Rylander, San Antonio, Tex. Storage and display apparatus for merchandise. 1,633,907; June 28.
- Ryders, George W., Carpentersville, Ill. Washing machine. 1,622,543; Mar. 29.
- Ryngaert, Winfield S., Edmonds, Wash. Collapsible tent support. 1,627,546; May 8.
- Ryon, Eppa H., Pasadena, Calif. Gas-burner control. 1,629,228; May 17.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Stop motion for winders. 1,632,507; June 14.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle placer for warp-replenishing looms. 1,633,648; June 28.
- Ryon, Eppa H., Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread-cutting mechanism for looms. 1,643,422; Sept. 27.
- Rypinski, Maurice C., Yonkers, N. Y. Radiocabinet. Des. 71,811; Jan. 4.
- Rypinski, Maurice C., Yonkers, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Loud-speaker cabinet. Des. 72,111; Mar. 1.
- Rypinski, Maurice C., Yonkers, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Loud-speaker cabinet. Des. 72,112; Mar. 1.
- Rypinski, Maurice C., Yonkers, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Loud-speaker cabinet. Des. 72,113; Mar. 1.
- Rypinski, Maurice C., Yonkers, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Sound-reproducing diaphragm. 1,618,553; Feb. 8.
- Ryngaert, Winfield S., Edmonds, Wash. Staunton, Jackson Heights, and S. Bourne, New York, N. Y., assignors to Brandes Laboratories, Inc., Newark, N. J. Cone speaker. Des. 72,871; June 14.
- Rystedt, Ingemar K., Dayton, Ohio, assignor of one-fourth to G. K. Ander and one-fourth to A. H. Dunham. Deposition advertising cabinet or the like. 1,622,210; Mar. 22.
- Rystedt, Ingemar K., assignor of one-half to C. R. Snyder, Dayton, Ohio. Motor car. 1,642,971; Sept. 20.
- Rzucidlo, John, Shenandoah, Pa. Ice slipper. 1,654,348; Dec. 27.
- S & B Specialties Manufacturing Company. (See Blanc, Adolph L.)
- S-C Regulator Manufacturing Company, The. (See Barrett, Joseph M., assignor.)
- S & W Machine Company. (See Wermes, Frederick J., assignor.)
- Sear, Clifford. (See Dick, Charles O., assignor.)
- Schae, Walter, Leipzig, Germany. Washbottle. 1,635,979; Jan. 12.
- Saballschka, Theodor, Berlin-Steglitz, Germany. Preserving food for men or animals. 1,627,342; May 3.
- Sabbag, Litfallah G., East Boston, assignor of one-half to M. A. Tawa, Boston, and one-half to N. G. Sabbag, East Boston, Mass. Machine for automatically rolling articles from blanks of plastic material. 1,652,375; Dec. 13.
- Sabbag, Nasseb G., et al. (See Sabbag, Litfallah G., assignor.)
- Sabbag, Camille A., Schenectady, N. Y., assignor to General Electric Company. Pressure-control apparatus. 1,618,100; Feb. 15.
- Sabel, John C., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Biconcave microscope. 1,622,350; Mar. 29.
- Sabin, Alex., & Sons. (See Sabin, Milton, assignor.)
- Sabin, Clayton R., assignor to General Insulating and Manufacturing Company, Alexandria, Ind. Pipe insulation. 1,613,725; Jan. 11.
- Sabin, Ernest E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for operating on parts of shoes. 1,621,519; Mar. 22.
- Sabin, Ernest E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pasting machine. 1,634,519; July 5.
- Sabin, Milton H., New York, N. Y. Watch bracelet. Des. 72,496; Apr. 19.
- Sabin, Milton, assignor to Alex. Sabin & Sons, New York, N. Y. Chain. 1,621,954; Mar. 22.

- Sabourin, Jean B. (See Smith, C. F., and Sabourin.)
 Sacerdote, Secondo, Milan, Italy. Cooking stove with thermoelectric storage. 1,633,290; June 21; Aug. 30.
 Sacerdote, Secondo, Milan, Italy. Thermoelectric oven. 1,637,659; Aug. 2.
 Sachs, Albert P. (See Minaeff, M. G., and Sachs.)
 Sachs, John H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. N-dihydro-dianthra-quinone-saline compounds and making same. 1,640,724; Aug. 30.
 Sachs, Joseph, Hartford, Conn. Electrical connection block. 1,645,453; Oct. 11.
 Sachs, Joseph, Hartford, Conn. Test contact. 1,651,554; Dec. 6.
 Sacks, Morris, and S. Fliederaum, New York, N. Y. Moving sign. 1,632,316; June 14.
 Sachs, Philip, New York, N. Y. Transit system. 1,616,554; Feb. 8.
 Sachs, Philip, New York, N. Y. Transit system. 1,645,026; Oct. 11.
 Sachs, R., Gesellschaft mit beschränkter Haftung. (See Gronfeld, Johannes, assignor.)
 Sack, Herman P. (See Klopsteg, P. E., and Sackse.)
 Sackse, Herman P., assignor to Central Scientific Company, Chicago, Ill. Plate for vacuum pumps. 1,629,931; May 24.
 Sacksewerk Licht- und Kraft-Aktiengesellschaft. (See Sarfert, W. P., and Hübner, assignors.)
 Sachtleber, Rudolph, Brooklyn, N. Y. Radio receiving system. 1,634,962; July 5.
 Sacia, Charles F., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording and reproducing of sounds. 1,623,756; Apr. 5.
 Sack, Earl, Flint, Mich. Antiskidding device. 1,615,235; Jan. 25.
 Sack, Leo S., assignor to Durable Knitting Mills, Philadelphia, Pa. Knitted sweater. Des. 73,671; Oct. 18.
 Sack, Leo S., assignor to Durable Knitting Mills, Philadelphia, Pa. Knitted sweater. Des. 73,672; Oct. 18.
 Sackerman, Milton G., and I. E. Heller, assignors to Eastman Machine Company, Buffalo, N. Y. Cloth-cutting machine. 1,619,605; Mar. 22.
 Sackett, Edward H. (See O'Brien, V. J., and Sackett.)
 Sackett, Herbert S., Windom, Minn. Advertising device. 1,620,596; Mar. 8.
 Sacks, Abraham, Brooklyn, N. Y. Tassel. 1,618,110; Feb. 15.
 Sacks, Abraham, Brooklyn, N. Y. Tassel. 1,618,111; Feb. 15.
 Sacks, Abraham, Brooklyn, N. Y. Combination dish mop and scraper. 1,643,857; Sept. 27.
 Sacks, George P. (See Wolfe, George H., assignor.)
 Sacksteder, Overton, jr., assignor to Aladdin Manufacturing Company, Muncie, Ind. Portable lamp. Des. 73,871; Nov. 15.
 Saco-Lowell Shops. (See Borovoy, S., and Perry, assignors.)
 Saco-Lowell Shops. (See Gagnon, Samuel, assignor.)
 Saco Lowell Shops. (See Langevin, Felix D., assignor.)
 Sacre, Albert N. (See Catlett, Harry, assignor.)
 Sacre, Anton T., San Antonio, Tex. Automobile wheel. 1,632,382; June 14.
 Saccomone, Rocco, Brooklyn, N. Y. Neckband shaper. 1,636,248; July 19.
 Sadler, F. H., Company, The (See Sadler, Louis E., assignor.)
 Sadler, Frederick W., assignor of one-fourth to B. E. Turney, Oklahoma City, Okla. Casing cover and tool holder. 1,625,774; Apr. 19.
 Sadler, Louis E., assignor to The F. H. Sadler Company, Attleboro, Mass. Compact holder. 1,644,282; Oct. 4.
 Sadler, Luther, Los Angeles, Calif. Vehicle periscope. 1,635,011; July 5.
 Sadler, Will K., et al. (See Schumacher, Robert H., assignor.)
 Sadtler, Helena S., Erdenheim, Pa. Transferring dyestuffs to fabrics. 1,651,470; Dec. 6.
 Sadtler, Samuel S., Springfield Township, Montgomery County, Pa., assignor to Amiesite Asphalt Company of America, Camden, N. J. Treating Kentucky and similar rock asphalt in the making of paving material. 1,650,047; Nov. 22.
 Saed, Theodore J., et al. (See Ankarlo, Victor E., assignor.)
 Saenger, Carl, Irvington, N. J. Socket for radio vacuum tubes. 1,639,971; Aug. 28.
 Sáenz, Mauro G., Colonia Postal, General Anaya, Mexico. Electrical connector socket of the wall and plug type. 1,639,437; Aug. 16.
 Saferg, Bror F. E. (See Hiller, N. H., and Saferg.)
 Safe-T-Stat Co., The. (See Collins, William A., assignor.)
 Safety Car Heating & Lighting Company, The. (See Cole, T. S., and Johnson, assignors.)
 Safety Car Heating & Lighting Company, The. (See Hulse, George E., assignor.)
 Safety Car Heating & Lighting Company, The. (See Hutchison, Miller E., assignor.)
 Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsay, assignor.)
 Safety Car Heating & Lighting Company, The. (See Turbayne, William A., assignor.)
 Safety Car Heating & Lighting Company, The. (See Varley, Thomas W., assignor.)
 Safety Concrete Incinerator Co. Inc. (See Feigenbaum, Joseph, assignor.)
 Safety Hone Company. (See Sullivan, James M., assignor.)
 Safety Pressure Mining & Equipment Company. (See Crawford, J. H., Helmholtz, and Ferrell, assignors.)
 Safeway Lock Company. (See Anakin, Arthur E., assignor.)
 Saffold, James W., Cleveland, Ohio. Bumper. 1,617,824; Feb. 15.
 Safford, C. C., New York, N. Y. Bath robe package. 1,641,552; Sept. 6.
 Sagar, Charles, Seattle, Wash. Towing and hauling device. 1,632,922; June 21.
 Sage, Andrew, Farrell Borough, Pa. Combined cover-holding-down and pressure-relief device for maulways. 1,630,672; May 31.
 Sage, M. J., et al. (See Hawhurst, John J., assignor.)
 Sage, M. Jay, et al. (See Hawhurst, John J., assignor.)
 Sager, J. H., Company. (See Sager, James H., assignor.)
 Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. 1,632,563; June 14.
 Sager, John W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding mechanism. 1,625,432; Apr. 19.
 Sager, Lee R., and R. H. Mitchell, Minneapolis, Minn. Piece feeder for flatwork ironers. 1,641,784; Sept. 6.
 Sagers, Bert, et al. (See Moore, Samuel M., assignor.)
 Sagers, Bonnie R., et al. (See Moore, Samuel M., assignor.)
 Saget, Andre, Paris, France. Locking hand-operated brakes. 1,631,066; May 31.
 Sagley, Frank, New York, N. Y. Automatic window-cleaning device. 1,652,734; Dec. 13.
 Sagi, Eugen, Bratislava, Czechoslovakia, assignor to Chemosan Aktiengesellschaft, Vienna, Austria. Production of solutions of mercury derivatives of hydroxy-sulpho-benzoic acids. 1,613,569; Jan. 4.
 Saginaw Manufacturing Co. (See Gilbert, Henry J., assignor.)
 Saharoff, Alexander V., Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Intake silencer. 1,644,794; Oct. 11.
 Sahlborg, Carl A., Chicago, Ill. Canning meats. 1,632,144; June 14.
 Sahrb, Benjamin P., Hutchinson, Minn. Dental impression trays. 1,629,177; May 17.
 Saikawa, Sakuhel, Higashinogiri-Mura, Japan. Arrangement for transforming direct-current voltage. 1,628,097; Apr. 26.
 Sainson, Eugene, Great Kills, N. Y. Dish or similar article. Des. 71,928; Jan. 25.
 Sainson, Eugene, Great Kills, N. Y. Plate or similar article. Des. 71,929; Jan. 25.
 St. Aubin, Arthur P., Yakima, Wash. Headlight-lens-rim tool. 1,650,807; Nov. 29.
 St. Clair, James A., assignor of one-half to K. M. Rowe, Broken Arrow, Okla. Measuring device. 1,651,643; Dec. 6.
 St. Clair, John C., Butte, Mont. Combined coal stoker and burner. 1,633,465; June 21.
 St. Clair, Moffat, Gait, Ontario, Canada. Fuel pump for combustion engines. 1,613,854; Jan. 11.
 St. Clair, Alexander, Los Angeles, Calif. Light indicator for reflector lamps. 1,644,207; Oct. 4.
 St. Helens Cable and Kubber Company Limited. (See Harrison, Harry C., assignor.)
 St. Helens Iron & Marine Works. (See Usher, John J., assignor.)
 St. Jacques, Emile J. M., Montreal, Quebec, Canada, assignor to O. Surprenant, himself, and J. T. Durkin, Schenectady, N. Y. Deraiment brake. 1,613,252; Jan. 4.
 St. James, Robert T., Chicago, Ill. Transformer. 1,633,047; June 21.
 St. James, Robert T., assignor to Chicago Miniature Lamp Works, Chicago, Ill. Exhausting detector tubes. 1,646,633; Oct. 25.
 St. John, Ancel, Brooklyn, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Method of apparatus for radiographic examination. 1,622,149; Mar. 22.
 St. John, Ancel, Brooklyn, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. X-ray filter. 1,624,443; Apr. 12.
 St. John, Ancel, Brooklyn, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Producing homogeneous X-rays and apparatus therefor. 1,626,306; Apr. 26.
 St. John, Everett, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Battery light. 1,651,480; Dec. 6.
 St. John, Henry A., and J. F. Griffin, Utica, N. Y. Calipers. 1,631,896; June 7.
 St. John, Walter S., New York, N. Y. Building construction. 1,635,231; July 12.
 St. Lawrence, Joseph N., Grand Forks, N. Dak. Carrying case. 1,647,551; Nov. 1.
 St. Louis Braid Company. (See Hebel, Henry, jr., assignor.)
 St. Louis Car Company. (See Richards, Leslie W., assignor.)
 St. Louis Pump & Equipment Company. (See Hinds, S. A., assignor.)
 St. Louis Reaming Tool Co. (See Davis, Robert R., assignor.)

- St. Louis Screw Company. (See Miller, Edward J., assignor.)
 St. Louis Steel Ball Corporation. (See Mangano, Meritt W., assignor.)
 St. Onge, Azarias. (See Gingras, L. J., and St. Onge.)
 St. Peter, Nelson, Mount Vernon, N. Y. Tool for removing and replacing motor parts. 1,652,063; Dec. 6.
 Salves, Léon, assignor to L. Renault, Billancourt, France. Valve tappet. 1,633,038; June 21.
 Salves, Léon, assignor to L. Renault, Billancourt, France. Self-propelled vehicle. 1,639,536; Aug. 16.
 Salves, Léon, assignor to L. Renault, Billancourt, France. Electromagnetic control. 1,652,329; Dec. 13.
 Salves, Léon, assignor to L. Renault, Billancourt, France. Internal-combustion engine. 1,653,825; Dec. 27.
 Saklatwalla, Byramji D., Craiton, Pa. Door fastening. 1,645,352; Oct. 11.
 Saklatwalla, Byramji D., Craiton, Pa. Manufacture of alloy steels. 1,616,393; Feb. 1.
 Saklatwalla, Byramji D., Craiton, Pa. Manufacture of alloy steel and iron. 1,619,462; Mar. 1.
 Saklatwalla, Byramji D., Craiton, Pa. Manufacture of chromium iron alloys. 1,623,757; Apr. 5.
 Sakowski, Hugo K., New York, N. Y. Pin. 1,626,303; Apr. 26.
 Sala, Theodore A. (See Carl, John S., assignor.)
 Sala, Theodore A., Dallas, Tex. Gas-log heater. 1,618,477; Feb. 22.
 Sala, Theodore A., Dallas, Tex. Fireplace heater. 1,618,478; Feb. 22.
 Sala, Theodore A., Dallas, Tex. Fireplace heater. 1,621,135; Mar. 15.
 Salmon, Matyas, Brooklyn, N. Y. Safe. 1,627,464; May 3.
 Salberg, Gustave R., assignor to Richardson Ball Bearing Skate Company, Chicago, Ill. Roller skate. 1,640,134; Aug. 23.
 Sale, Burt, Riverside, Calif. Nut lock. 1,624,764; Apr. 12.
 Sale, John W., and J. B. Wilson, Washington, D. C., assignors to the Government and the People of the United States of America. Manufacturing a true maple flavoring product. 1,642,789; Sept. 20.
 Sale, Nelson, et al. (See Jones, Henry R., assignor.)
 Sala China Co., The. (See Sebring, Frank H., Jr., assignor.)
 Salerni, Edoardo M., Paris, France. Treating gaseous mediums with liquids. 1,644,089; Oct. 4.
 Salerno, Ferdinando, G., Chicago, Ill. Machine for applying top coatings of comminuted materials to confection coated wafers. 1,627,577; May 10.
 Salinger, Hans, Berlin, Germany. Telegraph cable provided with loading coil. 1,639,201; Aug. 16.
 Salinger, Hans, Berlin, Germany. Duplex method for telegraph cables. 1,653,971; Dec. 27.
 Salinger, Hans W. G., Berlin, Germany. Duplex arrangement for telegraph cables. 1,619,041; Mar. 1.
 Salisbury, Edgar E., Chicago, Ill. Signal system. 1,645,353; Oct. 11.
 Salisbury, Frank C., Cleveland, Ohio. Steam hair curler. 1,639,900; Aug. 23.
 Salisbury, Orange J., Salt Lake City, Utah. Continuous process of treating oils. 1,628,747; May 17.
 Salisbury, Wilbur, Craigmont, Idaho. Log-loading hook. 1,621,030; Mar. 15.
 Sall, John A., Rockford, Ill. Vehicle heater. 1,614,996; Jan. 18.
 Sallac, Harry C., St. Louis, Mo. Resilient wheel. 1,614,307; Jan. 11.
 Sallada, Clarence E., Minneapolis, Minn. Air moistener. 1,621,436; Mar. 15.
 Sallee, Robert A., Port Richmond, Calif. Gate. 1,640,135; Aug. 23.
 Sales, Pierre M. R., Caudezan, assignor to Compagnie Française Thomson Houston, Paris, France. Static converter of current. 1,650,470; Nov. 7.
 Saley, Thomas P., Mobile, Ala. Operating mechanism for dirigible headlights. 1,635,097; July 5.
 Salop, Harry A., New York, N. Y. Automobile seat-cover fastener. 1,647,934; Nov. 1.
 Salmi, Johan P., Chicago, Ill. Saw. 1,624,072; Apr. 12.
 Salmi, Einar M., Severna Park, Md. Frying-pan cover. 1,622,351; Mar. 29.
 Salmon, Frank, Luzerne, N. Y. Bouquet pin. 1,647,197; Nov. 1.
 Salmon, René L., Paris, France. Large-sized reservoir for liquids. 1,654,016; Dec. 27.
 Salmon, Wilmer W., Larchmont, assignor to General Railway Signal Company, Rochester, N. Y. Continuous inductive train-control system. 1,647,970; Nov. 1.
 Salmons, George C., West Brighton, assignor to Wired Radio, Inc., New York, N. Y. Amplifying three-phase high-frequency power. 1,620,694; Mar. 15.
 Salo, Nels, Watton, Mich. Antikick auto crank. 1,631,649; June 7.
 Saloun, Martin, Milwaukee, Wis. Bolt-locking means. 1,621,854; Mar. 22.
 Saloun, Martin, Milwaukee, Wis. Preserving receptacle. 1,639,059; Aug. 16.
 Salsus, Spero M., Chicago, Ill. Atomizer. 1,617,545; Feb. 15.
 Salsbery, Charles E. (See Jensen, H., Salsbery, and Graham.)
 Salsich, Neil E., Bethlehem, Pa. Gauge rod. 1,631,769; June 7.
 Salstrom Carving Machine Company. (See Salstrom, David B., assignor.)
 Salstrom, David B., assignor to Salstrom Carving Machine Company, Chicago, Ill. Wood-carving machine. 1,644,952; Oct. 11.
 Salt, William B. (See Kissinger, George B., assignor.)
 Salterini, John B., New York, N. Y. Bridge lamp. Des. 73,581; Oct. 4.
 Salterini, John B., New York, N. Y. Lamp arm. Des. 73,582; Oct. 4.
 Salterini, John B., New York, N. Y. Lamp arm. Des. 73,583; Oct. 4.
 Salterini, John B., New York, N. Y. Lamp arm. Des. 73,584; Oct. 4.
 Salterini, John B. (See Seidel, G. F., Salts, and Whitcomb.)
 Saltzman, Joseph. (See Zeman, Anton, assignor.)
 Salvage Process Corporation. (See Wheeler, H. J., and Engstrand, assignors.)
 Salvesson, Fredrik B., Brooklyn, N. Y. Cultivator. 1,628,748; May 17.
 Salvucci, Natalie, Detroit, Mich., assignor of one-half to J. W. Headley, Jr., Wrench. 1,616,871; Feb. 8.
 Salyards, Elmer S., Moline, Ill. Coal-dust-feed mechanism. 1,645,932; Oct. 18.
 Sambor, Samuel, Newark, N. J. Machine for dispensing articles. 1,634,916; July 5.
 Samuels, Paul B., Los Angeles, Calif. Educational game. 1,631,505; June 7.
 Sammis, H. M., et al. (See Nesmith, Samuel D., assignor.)
 Samouco, George A., Brooklyn, N. Y. Animal trap. 1,634,270; July 5.
 Samson, Victor O., Brooklyn, N. Y. Animal trap. 1,647,416; Nov. 1.
 Samper, Joaquin, Bogota, Colombia. Indicating electrical overloads. 1,635,348; July 12.
 Sample, Milton B., Elizabeth City, N. C. Bean and pea bugle. 1,621,642; Mar. 22.
 Sample, John W., Sue, W. Va. Shipping crate. 1,637,660; Aug. 2.
 Sampiner, Samuel S., assignor to The Rich-Sampiner Knitting Mills Company, Cleveland, Ohio. Knitted cap. Des. 72,239; Mar. 15.
 Sampson, Charles H., and J. L. Whitley, Rochester, N. Y. Bottle. 1,618,859; Feb. 22.
 Sampson, Harold A., Burlingame, Calif. Golf-club carrying case and bag. 1,637,538; Aug. 2.
 Sampson, Joseph A. (See Pritchett, George E., assignor.)
 Sampson Martin Corporation. (See Sampson, Robert.)
 Sampson, Maurice H., Chicago, Ill. Organ relay. 1,639,901; Aug. 23.
 Sampson, Robert W., assignor to Sampson Martin Corporation, New York, N. Y. Pneumatic cushion, mattress, and the like. 1,640,618; Aug. 30.
 Sampson, Victor O., Woodland, Wash. Track brace and gauge. 1,637,919; Aug. 2.
 Sams, Clyde O., De Noya, Okla. Pump jack. 1,612,886; Jan. 4.
 Samson, Alta M., Albion, Nebr. Colander. 1,652,053; Dec. 6.
 Samson Cordage Works. (See Lewis, Warren K., assignor.)
 Samson, Curt, Berlin, Germany, assignor to General Electric Company. Incandescent electrode device. 1,620,397; Mar. 8.
 Samstag, Henry R., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Leather. Des. 71,988; Feb. 8.
 Samstag, Henry R., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Leather. Des. 71,989; Feb. 8.
 Samstag & Hilder Bros., Inc. (See Bowman, Chatham E., assignor.)
 Samstag & Hilder Bros., Inc. (See Samstag, Henry R., assignor.)
 Saneels, Alfred S., Saugus, Mass. Spring and recoil chisel. 1,628,749; May 17.
 Samuelson, Alexander, assignor to C. J. Root, Terre Haute, Ind. Glass-working machine. 1,620,292; Mar. 8.
 Samuelson, Eric, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. 1,615,043; Jan. 18.
 Samuelson, Eric, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. 1,646,495; Oct. 25.
 Samuelson, Victor K., Chicago, Ill. Lamp. Des. 72,074; Feb. 22.
 Sanborn, Albert E., Laconia, N. H. Stocking top. 1,616,003; Feb. 1.
 Sanborn, George H., Malden, Mass. Automatic train-control device. 1,634,119; June 28.
 Sanborn, Albeuto, Kinman, Ariz. Automobile signal device. 1,637,962; Aug. 2.
 Sandage, William L., Los Angeles, Calif. Rotatably-driven reciprocating-piston pump. 1,649,196; Nov. 15.
 Sandbeck, Gustaf E., New York, N. Y. Sliding board. 1,623,498; Apr. 5.
 Sandbottle Creek, Mich. Gravel screen and cleaning device therefor. 1,651,555; Dec. 6.
 Sandberg, Eugene S., Allentown, Pa. Vibratory distributor of electric current. 1,635,802; July 12.
 Sandberg, Johannes. (See Ensdorf, W., and Sandberg.)
 Sandberg, Johannes, Elizabeth, N. J., and W. Ensdorf, New York, N. Y. Soldering iron. 1,639,637; Aug. 16.
 Sandberg, John R., Denver, Colo. Folding towing device for automobiles. 1,649,084; Nov. 15.

- Sandberg, Oscar, assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Wrapping machine. 1,646,496; Oct. 25.
- Sandberg, Oscar, assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Wrapping machine. 1,646,497; Oct. 25.
- Sandberg, Alvie E., St. Louis, Mo. Basket-ball goal. 1,614,970; Jan. 18.
- Sandel, Albert, assignor of one-half to F. Scholz, Chicago, Ill. Game apparatus for multisix color games. 1,625,055; Apr. 19.
- Sandel Manufacturing Company. (See Sturnam, Morris C., assignor.)
- Sandell, Henry K., Chicago, Ill. Electric motor. 1,634,852; July 5.
- Sandell, Henry K., Chicago, Ill. Transforming system. 1,634,853; July 5.
- Sander, Fritz, Griesheim-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of fluorides. 1,642,896; Sept. 20.
- Sander, Mart, Hapsal, Esthonia. Surveying instrument with drawing device. 1,631,891; June 7.
- Sander, Wilhelm. (See Guertler, W., and Sander.)
- Sander, William E. C., Hollis, N. Y. Typographic numbering apparatus. 1,633,278; June 21.
- Sanders, Albert H., Glendora, Calif. Mortar-applying device. 1,626,972; May 3.
- Sanders, Allen C., Erie, Pa. Ellipsograph. 1,626,430; Apr. 26.
- Sanders, Clyde W., Eagle Rock, Calif. Combined cabinet and table. 1,613,294; Jan. 4.
- Sanders, Edgar R., Lakerville, Ind. Clamping means for extra tread rims of tractor wheels. 1,637,876; Aug. 2.
- Sanders, George M., Deloro, Ontario, Canada, assignor to Riches, Piver & Co. Copper-lime dust. 1,620,490; Mar. 8.
- Sanders, George E., Deloro, Ontario, Canada, assignor to Riches, Piver & Co. Copper-arsenic dust. 1,642,511; Sept. 13.
- Sanders, George R. (See Hall, E. A., and Sanders.)
- Sanders, John W., Detroit, Mich. Cigarette-printing device. 1,643,349; Sept. 27.
- Sanders, Joseph A., Philadelphia, Pa., assignor to The Artists' Supply Company. Display block for mounting artificial teeth. 1,634,687; July 5.
- Sanders, Robert L., St. Louis, Mo. Tie plate and rail brace. 1,645,258; Oct. 11.
- Sanders, Walter C., assignor to The Timken Roller Bearing Company, Canton, Ohio. Car-axle bearing. 1,617,349; Feb. 15.
- Sanders, Walter C., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car truck. 1,640,963; Aug. 30.
- Sanderson, Edward S., assignor to Scovill Manufacturing Company, Waterbury, Conn. Electric-lamp socket. 1,643,927; Nov. 22.
- Sanderson, Samuel E., Brooklyn, N. Y. Automatic variable-speed transmission. 1,644,614; Oct. 4.
- Sandhoff, Jacob, Saskatoon, Saskatchewan, Canada. Weeding attachment for land harrows. 1,645,933; Oct. 18.
- Sandifer, William T., Jackson, Miss. Flexible coupling. 1,633,412; Aug. 9.
- Sandifer, William T., Jackson, Miss. Spring hanger. 1,645,821; Oct. 18.
- Sandilands, James, Toronto, Ontario, Canada. Indicating valve. 1,635,349; July 12.
- Sandin, David A., assignor to W. H. Deubener, St. Paul, Minn. Decorating device for automatic bag machine. 1,641,828; Sept. 6.
- Sandin, Maurits J., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cut-out. 1,630,358; May 31.
- Sandman, August G. (See Muhlfeld, J. E., and Sandman.)
- Sandman, August G., Baltimore, Md. Automatic drain and discharge trap for refrigerator cars. 1,613,908; Jan. 11.
- Sandman, August G., Baltimore, Md. Corner post for drop-end gondola cars. 1,638,128; Aug. 9.
- Sandner, Henry, assignor of one-half to J. Aschinger, Union City, N. J. Adjustable damper-wire connection for grand-piano actions. 1,653,590; Dec. 20.
- Sandoz, Henry, Tavannes, Switzerland. Micrometer. 1,638,366; Aug. 9.
- Sands, Edwin T. (See Birkin, C. W., and Sands.)
- Sands, Thomas J., Auburn, R. I., assignor to Universal Winding Company, Boston, Mass. Compensating device for winding machines. 1,647,198; Nov. 1.
- Sands Manufacturing Company, The. (See Hamilton, Paul H., assignor.)
- Sand Spun Patents Corporation. (See Beatty, Douglas T., assignor.)
- Sand Spun Patents Corporation. (See Moore, William D., assignor.)
- Sand Spun Patents Corporation. (See Moore, W. D., and Morgan, assignors.)
- Sandstrom, Eric, Erie, Pa. Tool-driving spindle. 1,630,541; May 31.
- Sandstrom, Ferdinand E., St. Paul, Minn. Run board for freight cars. 1,628,809; May 17.
- Sandvick, Naford E., Grafton, N. Dak. Grain separator. 1,626,585; Apr. 26.
- Sandvold, Ole, O. Rye, and O. Platou, Notodden, assignors to Norsk Hydro-Elektrisk Kvaestofaktiesselskab, Oslo, Norway. Electrode device for electric furnaces. 1,617,136; Feb. 8.
- Sandy, Richard E., Cloverdale, Ind. Adjustable measure. 1,625,056; Apr. 19.
- Sanford, Alfred F., Knoxville, Tenn. Radio apparatus. 1,619,544; Mar. 1.
- Sanford, Alfred F., Knoxville, Tenn. Radio apparatus. 1,619,545; Mar. 1.
- Sanford, Alfred F., Knoxville, Tenn. Mechanism for converting motion. 1,632,923; June 21.
- Sanford, Choral B., Avalon, Calif. Diving sinker for deep-sea angling. 1,645,874; Oct. 18.
- Sanford, Henry, New York, N. Y. Lubricating device. 1,635,563; July 12.
- Sanford, Hugh W., Knoxville, Tenn. Annealing metal. 1,613,726; Jan. 11.
- Sanford, Hugh W., Knoxville, Tenn. Wheel and axle. 1,618,848; Feb. 22.
- Sanford, Hugh W., Knoxville, Tenn. Journal box and axle. 1,618,890; Feb. 22.
- Sanford, Hugh W., Knoxville, Tenn. Grease-gun connection. 1,632,149; June 14.
- Sanford, Hugh W., and H. W. Jones, Knoxville, Tenn., assignors to Sanford Investment Company, Wilmington, Del. Journal box. 1,650,213; May 24.
- Sanford Investment Company. (See Sanford, H. W., and Jones, assignors.)
- Sanford, Lynn H., assignor of one-half to C. L. Mann, Toledo, Ohio. Brake-shoe-key holder. 1,619,767; Mar. 1.
- Sanford Motor Truck Company. (See Wilkins, Fred W., assignor.)
- Sanford, Robert G., Yonkers, N. Y. Motor compressor. 1,650,769; Nov. 29.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,620,921; Mar. 15.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake system. 1,652,290; Dec. 13.
- San Francisco-Sacramento Railroad Co. (See Miller, Frank A., assignor.)
- Sanford, Joseph E., assignor to Filtrators Company, Incorporated, New York, N. Y. Apparatus for use in preventing the incrustation of steam boilers. 1,645,973; Oct. 18.
- Sangamo Electric Company. (See Holtz, Frederick C., assignor.)
- Sanger, Harry A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,630,276; May 31.
- Sanger, Harry A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,641,785; Sept. 6.
- Sanger, Harry A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,654,054; Dec. 27.
- Sanguinetti, Louis, San Jose, Calif. Cooker. 1,651,730; Dec. 6.
- Sani-Tubi-Tub Company. (See Darrow, Benjamin H., assignor.)
- Sanitarium and Hospital Equipment Company. (See Goodrich, Norris E., assignor.)
- Sanitarium and Hospital Equipment Company. (See Tuttle, Roy K., assignor.)
- Sanitarium and Hospital Equipment Company. (See Wentworth, Merton W., assignor.)
- Sanitary Nursing Bottle Company. (See McMullen, George B., assignor.)
- Sanitary Products Corporation of America. (See Mallory, George P., assignor.)
- Sanitary Products Corporation of America. (See Ruckert, Henry E., assignor.)
- Sanitary Products Corporation of America. (See Ruckert, H. E., and Fine, assignors.)
- Sanitary Refrigerator Corporation. (See Shore, Morris, assignor.)
- Sankes, Clinton E., Ellwood City, Pa. Foot protector. 1,640,669; Aug. 30.
- Sankey, Harold B., Albrighton, England. Spoked wheel. 1,614,901; Jan. 18.
- Sannar, John T., and C. R. Lawler, Enterprise, Oreg. Log-securing device. 1,619,958; Mar. 8.
- Sanner, Hubert, assignor to L. Ederer, Chicago, Ill. Distributing switch. 1,653,313; Dec. 20.
- Sanni, Bartolo, Boston, Mass. Vehicle. 1,646,664; Oct. 25.
- Sanson, Charles E., East Syracuse, N. Y. Sectional mold for making concrete blocks. 1,645,776; Oct. 18.
- Santa Barbara Lumber Company. (See Cummings, Earle W., assignor.)
- Santa Cruz Portland Cement Company. (See Ryder, Robert W., assignor.)
- Santee, Walter H., Allentown, Pa. Closure fastening. 1,638,748; Aug. 9.
- Santiago, Antonio, Los Angeles, Calif. Upgrading and collapsing portable bed. 1,641,459; Sept. 6.
- Santiago, Juan S., San Juan, P. R. Direction indicator for vehicles. 1,645,454; Oct. 11.
- Santiago, Juan S., San Juan, P. R. Direction indicator for vehicles. 1,645,455; Oct. 11.
- Santiago, Juan S., San Juan, P. R. Direction indicator for vehicles. 1,645,456; Oct. 11.

- Santibáñez, José R., San Juan, P. R. Elastic supporter. 1,654,433; Dec. 27.
- Santino, Salvatore, assignor to L. C. Berman, Chicago, Ill. Lifting jack. 1,651,556; Dec. 6.
- Santmyer, Roy, New York, N. Y. Tube-repairing clamp. 1,640,376; Aug. 30.
- Santos, Juan de Jesús, New York, N. Y. Automobile display device. 1,617,724; Feb. 15.
- Santoyo, Guillermo F., Santa Paula, Calif. Pruning saw. 1,638,749; Aug. 9.
- Santurello, Peter, Columbus, Ohio. Hair-curling apparatus. 1,623,758; Apr. 5.
- Sanymetal Products Company, The. (See Carpenter, R. E., and Anderson, assignors.)
- Saoucheb, Jacques, Neuilly-sur-Seine, France. Window opening and closing mechanism. 1,631,892; June 7.
- Sapp, Casiah, Enterprise, Oreg. Paper-bag-sealing means. 1,619,887; Mar. 8.
- Sapp, George B. (See Howell, J. E., and Sapp.)
- Sapp, James E., assignor of one-half to R. Bower, Bainbridge, Ga. Animal trap. 1,634,688; July 5.
- Sapp, James E., assignor of one-half to R. Bower, Bainbridge, Ga. Bottle-vending machine. 1,639,615; Aug. 16.
- Saranac Automatic Machine Corporation. (See Craig, Edward, assignor.)
- Saranac Automatic Machine Corporation. (See Newhouse, Walter P., assignor.)
- Saranchuk, William, Ferguson Flats, Alberta, Canada. Lines guard. 1,618,356; Feb. 22.
- Sardou, Etienne, Marseille, France. Chemical process for the etching of rubber principally for the obtention of impression prints. 1,614,935; Jan. 18.
- Sart, Willy, Dresden, and P. Fabrice, Zschieren, near Dresden, assignors to Sachsenwerk Licht- und Kraft-Aktiengesellschaft, Niedersieditz n/Dresden, Saxony, Germany. Oil-insulated transformer. 1,613,412; Jan. 4.
- Sarff, Forest M., Los Angeles, Calif. Constant supply for fluid braking systems. 1,617,275; Feb. 8.
- Sarff, Forest M., Los Angeles, Calif. Wheel brake. 1,617,276; Feb. 8.
- Sargeant, Leonard, Fairmont, W. Va. Railway tie. 1,639,234; Aug. 16.
- Sargent & Company. (See English, Huntington, assignor.)
- Sargent & Company. (See Kimball, Frank L., assignor.)
- Sargent & Company. (See Sargent, Edward R., assignor.)
- Sargent & Company. (See Shaw, John H., assignor.)
- Sargent, Albert H., Bangor, Me. Heater for automobile engines. 1,641,011; Aug. 30.
- Sargent, Don A., Bangor, Me. Snow fence. 1,647,585; Nov. 1.
- Sargent, Edmund S., Windsor, assignor to The Fuller Brush Company, Hartford, Conn. Toggle spreader. 1,628,615; May 10.
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Sliding bolt. 1,626,482; Apr. 26.
- Sargent Engineering Corporation. (See Sargent, Sumner B., assignor.)
- Sargent, Frank P. (See Cravens, Graham H., assignor.)
- Sargent, George H., Chicago, Ill. Inspection plug. 1,619,273; Mar. 1.
- Sargent & Greenleaf, Inc. (See Hill, William R., assignor.)
- Sargent, Hedda J., San Francisco, Calif. Balancing block. 1,648,199; Nov. 8.
- Sargent, Howard R., Bridgeport, Conn. Indicating device. 1,623,950; Apr. 5.
- Sargent & Lundy. (See Monroe, William S., assignor.)
- Sargent & Lundy Incorporated. (See Schroeder, Bernhard, assignor.)
- Sargent, Sumner B., assignor to Sargent Engineering Corporation, Los Angeles, Calif. Sucker rod and plunger rotor. 1,638,510; Dec. 28.
- Sargent's C. G. Sons Corporation. (See Furbush, Frank L., assignor.)
- Sargisson, Zachaeus E. (See Richardson, C. M., and Sargisson.)
- Sargwood, Harry M. (See McQuinn, Thomas H., assignor.)
- Sarjeant, Cyril J. (See Hastings, H. C., and Sarjeant.)
- Sarkey, Nicholas J., Gas City, Ind. Safety crank for automobiles. 1,616,872; Feb. 8.
- Sarpy, George, et al. (See Dominguez, Manuel D., assignor.)
- Sarr, Elmer E., Huron, Ohio. Rail-spike puller. 1,650,098; Nov. 22.
- Sarr, Elmer E., assignor of one-half to H. M. Ronnett, Huron, Ohio. Railway-crossing gate. 1,646,877; Oct. 25.
- Sartain, Louis M., Pelham, Tenn. Coupling. 1,613,909; Jan. 11.
- Sartakoff, Jack D., assignor of one-half to Khetach Corporation, New York, N. Y. Signal for fuel-supply system. 1,650,000; Jan. 28.
- Sartakoff, Jack D., assignor of one-half to Khetach Corporation, New York, N. Y. Variable condenser. 1,652,376; Dec. 13.
- Sartakoff, Jack D., assignor by mesne assignments of one-half to Khetach Corporation, New York, N. Y. Liquid gauge. 1,652,377; Dec. 13.
- Sartig, Johannes, Berlin-Zehlendorf, Germany. Tobacco-decolorizing process and apparatus. 1,640,298; Aug. 12.
- Sartini, Achille, New York, N. Y. Flying machine. 1,622,676; Mar. 29.
- Sartory, Peter, Bayswater, London, England. Hair curler and waver. 1,610,090; Feb. 1.
- Sarver, Glenn C., Lone Elm, Kans. Mail-bag receiving and delivering device. 1,617,222; Feb. 8.
- Sarver, Ray D., Owatonna, Minn. Tire casing and tube protector. 1,642,897; Sept. 20.
- Sasgen, Derrick Company. (See Sasgen, Michael J., assignor.)
- Sasgen, Michael J., assignor to Sasgen Derrick Company, Chicago, Ill. Semiportable derrick. 1,650,656; Nov. 29.
- Sassman, David C., River Forest, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Seal breaker. 1,619,959; Mar. 8.
- Sasser, Otis, Clovis, N. Mex. Carbonated-water-cut-off valve for soda fountain. 1,632,625; June 14.
- Sather, Edmund O., Oakland, Calif. Windshield wiper. 1,628,198; May 10.
- Satin Finish Hardwood Flooring Company. (See Gardner, William C., assignor.)
- Sato, Ryuj, New York, N. Y. Pencil sharpener. 1,652,583; Dec. 13.
- Sato, Sadasuke, San Francisco, Calif. Lamp shade. Des. 74,124; Dec. 20.
- Sato, Shizuo, Osaka-Shi, Japan. Stethoscope. 1,617,652; Feb. 15.
- Sato, Takeo, Honolulu, Hawaii. Machine for preparing pineapple crowns for planting. 1,651,158; Nov. 29.
- Satterlee, Francis L., Flushing, N. Y. Coil mounting. 1,614,020; Jan. 11.
- Satterlee, Henry S., New York, N. Y. Sound amplifier. 1,647,253; Nov. 1.
- Satterlee, John P., San Diego, Calif. Theater chair. 1,649,546; Nov. 15.
- Satterstrom, Ferdinand, Hastings, Minn. Signaling means. 1,639,112; Aug. 16.
- Sattler, Gustav. (See Syptorch, Emil, assignor.)
- Sattley Company. (See Howard, William B., assignor.)
- Saudino, Dominic. (See Lazzari, L., and Saudino.)
- Sauer, August F. (See Benditt, Paul M., assignor.)
- Sauer, Johan N. A., Amsterdam, Netherlands. Apparatus for treating liquids with decolorizing, purifying, and filtering agents and for separating undissolved substances from liquids. 1,619,042; Mar. 1.
- Sauer, Johan N. A., Amsterdam, Netherlands. Process of and apparatus for treating liquids with purifying and decolorizing agents. 1,627,343; May 3.
- Sauer, Johan N. A., Amsterdam, Netherlands. Manufacture of active carbon. 1,641,053; Aug. 30.
- Sauer, John, Cincinnati, Ohio. Interlocking underbelt. 1,642,046; Sept. 13.
- Sauer, Louis A., Willows, Calif. Chick brooder. 1,616,762; Feb. 8.
- Sauer, Louis B., Western Springs, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Condenser. 1,636,328; July 19.
- Sauer, Louis J., Oak Park, and C. H. Joy, Jr., assignors to C. H. Joy, Jr., Chicago, Ill. Ball bearing. 1,619,058; Jan. 4.
- Sauer, Theodor, Co. (See Sauer, Walter P., assignor.)
- Sauer, Walter P., Forest Hill, assignor to Theodor Sauer Co., Inc., New York, N. Y. Extension table. 1,622,544; Mar. 29.
- Saul, Harold, Vancouver, British Columbia, Canada. Mop head. 1,618,553; Feb. 22.
- Saulin, Charles, New York, N. Y. Pneumatic tool. 1,640,470; Aug. 30.
- Saulnier, Joseph, New Bedford, Mass. Mixing machine. 1,622,294; Mar. 29.
- Saums, Joseph R., assignor to Dr. Wood Foot Appliance Co., Cleveland, Ohio. Foot-corrective appliance. 1,614,934; Jan. 18.
- Saunders, Addison T., Akron, Ohio, assignor to A. G. Spalding & Bros., New York, N. Y. Shuttle for badminton and the like. 1,620,922; Mar. 15.
- Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Teapot construction. 1,635,639; July 12.
- Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Arrangement and construction of store fixtures. 1,647,889; Nov. 1.
- Saunders, Edward W., St. Louis, Mo. Windshield. 1,646,758; May 3.
- Saunders, Orion R., Cove, Oreg. Weeding machine. 1,635,098; July 5.
- Saunders, William T., Los Angeles, Calif. Brush protector. 1,612,887; Jan. 4.
- Sauppe, Ernst, Limbach, Germany. Axleless loop wheel for rubber-knitting machines. 1,621,136; Mar. 15.
- Saure, Waldemar. (See Anstötz, C., and Saure.)
- Saurwein, Karl. (See Nawinsky, P., Zahn, and Saurwein.)
- Sause, Richard, New York, N. Y. Coin-controlled radio-receiver. 1,650,238; Nov. 22.
- Sauger, Bert, and H. B. Rinks, assignors to Rinks Spray Equipment Co., Chicago, Ill. Spray cooling. 1,626,860; Apr. 26.
- Sausen, Bert R., and E. E. Olson, assignors to Peerless Pneumatic Systems Inc., Chicago, Ill. Spray gun. 1,633,291; June 21.
- Savage, Joseph A., assignor to The Toy Thinkers, Inc., Evanston, Ill. Wheeled toy. Des. 72,497; Apr. 19.
- Sauvazé, Fernand, Paris, France. Phosphorescent luminous enamel. 1,637,963; Aug. 2.

- Sauvage, Herbert J. (See Goodhue, J. G., and Sauvage.)
 Sauvage, Herbert J., assignor to trustees of The Electro Thermostatic Control Company, Chicago, Ill. Thermostatic control. 1,619,636; Mar. 1.
 Sauvage, Herbert J., assignor, by mesne assignments, to the trustees of Electro Thermostatic Control Company, Chicago, Ill. Thermostatic appliance. 1,639,902; Aug. 23.
 Sauvage, Herbert J., assignor to Electro Thermostatic Control Company, Chicago, Ill. Electrically-operated valve. 1,613,523; Sept. 27.
 Sauvage, Herbert J., assignor to trustees of the Electro Thermostatic Control Company, Chicago, Ill. Thermostatic control. 1,643,858; Sept. 27.
 Sauvage, Herbert J., assignor to Electro Thermostatic Control Company, Chicago, Ill. Control for fluid-fuel furnaces. 1,643,859; Sept. 27.
 Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,618,783; Feb. 22.
 Sauvage, William H., New York, N. Y., assignor, by mesne assignments, to The Gould Coupler Company. Slack adjuster. 1,645,777; Oct. 18.
 Sauveur, Harry, Berlin-Lankwitz, Germany, assignor to the firm of Elektro-Industrie-Gesellschaft m. b. H., Vienna, Austria. Chuck. 1,623,705; Apr. 5.
 Sauveur, Harry, Berlin-Lankwitz, and T. Kollinek, Berlin, Germany, assignors to Handel-Maatschappij H. Albert De Bary & Co., Amsterdam, Netherlands. Compressed-air brake apparatus for motor vehicles. 1,653,785; Dec. 27.
 Sauzedde, Claude, Detroit, assignor to Sauzedde Manufacturing Corporation, Mount Clemens, Mich. Hub construction. 1,635,504; July 12.
 Sauzedde, Claude, Detroit, Mich. Hub-locking device for wheels. 1,635,505; July 12.
 Sauzedde Manufacturing Corporation. (See Sauzedde, Claude, assignor.)
 Savage Arms Corporation. (See Nelson, Charles A., assignor.)
 Savage, Basil H., assignor of four-sixteenths to N. B. Bennett, one-sixteenth to O. F. Bowman, four-sixteenths to M. A. Davis, and two-sixteenths to H. B. Newcomb, Los Angeles, Calif. Fuel-feed apparatus for internal-combustion engines. 1,630,971; May 31.
 Savage, Edward S., Rochester, N. Y. Changeable assembly set for amusement and educational purposes. 1,620,574; Mar. 8.
 Savage, Gardner D., West Boylston, Mass. Chalk-line reel andawl. 1,653,191; Dec. 20.
 Savage, Guyton D., Norfolk, Va. Ring. Des. 73,673; Oct. 18.
 Savage, John C., Ryde, Isle of Wight, England, assignor to The Skytiting Corporation of America. Smoke, luminous or other visible trails from aircraft. 1,613,134; Jan. 4.
 Savage, Marion A., Scotia, N. Y., assignor to General Electric Company. Winding for alternating-current apparatus. 1,645,178; Sept. 20.
 Savage, Walter E., Modesto, Calif. Container. 1,648,785; Nov. 8.
 Sauvageau, Frederic L. (See Howes, F. C., and Sauvageau.)
 Savery, Benjamin F., Dexter, Mich. Automobile head-light switch. 1,641,905; Sept. 6.
 Savidge, Albert C., Indianapolis, Ind. Valve seat reamer. 1,641,868; Sept. 6.
 Saville, Roy G., Mount Park, Okla. Calf weaner. 1,650,962; Nov. 29.
 Savills, Thomas, Sons. (See MacKay, John, assignor.)
 Savio, Ignazio, Genoa, Italy. Dinner table on ships. 1,624,437; Apr. 12.
 Savitzky, Morris, New York, N. Y. Embroidered lace medallion. Des. 72,389; Apr. 5.
 Savitzky, Morris, New York, N. Y. Embroidered lace medallion. Des. 72,390; Apr. 5.
 Savitzky, Morris, New York, N. Y. Embroidered lace medallion. Des. 72,391; Apr. 5.
 Savitzky, Morris, New York, N. Y. Table scarf. Des. 72,657; May 10.
 Savoy, Philip A., Fullerton, Calif. Renewable fuse. 1,632,316; June 14.
 Savoye, Richard G., et al., executors. (See Francke, William J., assignor.)
 Sawday, John M., assignor to Dakota Koolaire Company, Mitchell, S. Dak. Deposit receptacle. 1,644,039; Oct. 4.
 Sawdon, Jonas. (See Butterfield, C. L., and Sawdon.)
 Sawford, Harold S., Brooklyn, N. Y. Screen for reducing secondary radiation from X rays. 1,621,813; Mar. 22.
 Sawford, Harold S., Brooklyn, N. Y. X-ray screen. 1,621,814; Mar. 22.
 Sawick, Peter, et al. (See McCarthy, Joseph P., assignor.)
 Sawyer, Albert F., assignor to J. L. Keith, Haverhill, Mass. Refrigerating system. 1,643,179; Sept. 20.
 Sawyer, Albert L., Old Town, Me. Current take-off clamp. 1,648,326; Nov. 8.
 Sawyer, Charles, Occogan, Va. Rail tie and rail-fastening means. 1,613,295; Jan. 4.
 Sawyer, Charles S., Piscataway Township, Middlesex County, N. J. Extender for card holders. 1,651,471; Dec. 6.
 Sawyer, Emerson D., Chicago, Ill. Yielding barrier for stopping vehicles. 1,653,670; Dec. 27.
 Sawyer, Geo. W., Germantown, Philadelphia, Pa., assignor to Sinclair Refining Company, Chicago, Ill. Tank wagon. 1,644,090; Oct. 4.
 Sawyer, Philip A. (See Peer, Richard W., assignor.)
 Sawyers, John S., Glenwood, Iowa. Clod-crushing and seed-pulverizing attachment for agricultural machines. 1,651,043; Nov. 29.
 Saxe, Andrew C., Winsted, Conn. Electrical socket. 1,614,508; Jan. 18.
 Saxon, Frank, Worthington, Minn. Snowplow. 1,638,708; Aug. 9.
 Saxon, Herman R., assignor, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio. Lamp bracket. 1,643,131; Sept. 20.
 Saxton, Albert H., assignor to National Bundle Tyer Company, Blissfield, Mich. Automatic bundle tier. 1,629,841; May 24.
 Saxton, Augustus C. (See Hill, G. S., and Saxton.)
 Saxton, Frank S., Blissfield, Mich. Apparel rack. 1,651,969; Dec. 6.
 Saybolt, John W., Jersey City, N. J., assignor to Standard Development Company. Turbine lubrication. 1,616,829; Feb. 8.
 Sayen, Louk A., Central Falls, R. I. Game apparatus. 1,647,120; May 3.
 Sayers, Albert J., assignor to Link-Belt Company, Chicago, Ill. Supporting vibrating screens. 1,651,934; Dec. 6.
 Sayers, Charles A., San Diego, Calif. Side windshield for vehicles. 1,632,564; June 14.
 Sayers, Royd R. (See Yant, W. F., Sayers, and Hildebrand.)
 Sayles Finishing Plants Inc. (See Huey, Harold I., assignor.)
 Sayles, Louis F., Brookfield, Mo. Center joint and dowel bar holder. 1,614,495; Jan. 18.
 Sayre, Eugene G., Meadville, Pa. Plaster-cast saw. 1,641,505; Sept. 6.
 Sayre, Gordon E., assignor to Owen-Dyneto Corporation, Syracuse, N. Y. Windshield wiper. 1,626,629; May 3.
 Sayre, Ralph E., New Rochelle, assignor to Metals Recovery Company, New York, N. Y. Concentration of ores. 1,640,218; Aug. 23.
 Sayres, John H., Brooklyn, N. Y. Latch-controlled operating mechanism. 1,628,474; May 10.
 Scacchitti, Arnaldo, Springfield, Ill. Vaporizer. 1,613,537; Jan. 4.
 Scaffolding (Great Britain) Limited. (See Palmer-Jones, Daniel, assignor.)
 Scaglien, Frank E. (See Morello, John, assignor.)
 Scala, Angelo, Brooklyn, N. Y. Vehicle. 1,633,279; June 21.
 Scales, Edgar F., Danville, Va. Automatic alarm for satchels. 1,640,254; Aug. 23.
 Scammell, China Co. (See Schnepf, Emil L., assignor.)
 Scandinavian Export Agency Ltd. (See Jensen, Thomas C., assignor.)
 Scanes, Arthur E. L., Ashton-on-Mersey, and T. Brighthouse, Manchester, England, assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company. Sealing gland. 1,617,500; Feb. 15.
 Scanes, L., Strathfield, England, assignor, by mesne assignments, to Metropolitan-Vickers Electrical Company, Limited. Electrical transformer. 1,647,314; Nov. 1.
 Scanlan, Charles J., jr. (See Rowland, P. J., and Scanlan.)
 Scanlan, Edith M. (See Pratt, Clara A., assignor.)
 Scanlan, William V. (See Porter, William A., assignor.)
 Scanlon, John A., trustee. (See Zabodnikin, Victor F., assignor.)
 Scannell, Albert T., Chicago, Ill. Concrete-distributing apparatus. 1,649,785; Nov. 15.
 Scarbrough, Elmore D., Corsicana, Tex. Signal apparatus for railways and highways. 1,645,875; Oct. 18.
 Scarff, Frederick W., London County, assignor to Vickers Limited, London, England. Gun mounting for use on aircraft. 1,628,068; May 10.
 Scarff, Truman M., Springvalley, Ohio. Roofing cleat. 1,642,088; Sept. 13.
 Scarlett, Charles E., et al., trustees. (See Charles, Carl L., assignor.)
 Scarseth, Edwin J., Galesville, Wis. Game apparatus. 1,612,946; Jan. 4.
 Searth, Harold, Detroit, Mich. Tile closure. 1,625,628; Apr. 19.
 Searth, Harold, Detroit, Mich. Door-frame anchor. 1,642,175; Sept. 13.
 Scatena, Vincent, Pittsburgh, Pa. Signal light casing. Des. 73,805; Nov. 8.
 Scavullo, Angelo C., New York, N. Y., assignor to Jos. Heinrichs Corporation, Cream pitcher. Des. 72,498; Apr. 19.
 Schaab, Harry M. (See Proctor, R. V., and Schaab.)
 Schaafl, Albert. (See Seymour, W., Jr., Groff, and Schaafl.)
 Schanke, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-shoe guard. 1,628,917; May 17.
 Schaner, K. J., New York, N. Y., assignor to The Schaap-Durant Control Corporation, New York, N. Y. Liquid-level gauge. Re16,589; Apr. 12.
 Schaap, Alexander K., jr., Brooklyn, assignor to The Schaap-Durant Control Corporation, New York, N. Y. Liquid-level gauge. 1,623,855; Apr. 5.

- Schaap-Durant Control Corporation, The. (See Durant, John D., assignor.)
- Schaap-Durant Control Corporation, The. (See Schaap, Alexander K., Jr., assignor.)
- Schacht, Clifford A., Huntington, Ind. Scraper. 1,647,761; Nov. 1.
- Schacht, George B., Plainfield, N. J. Fare-registering device. 1,643,007; Sept. 27.
- Schacht, Gustave A., Cincinnati, Ohio. Spring hanger for trucks and automotive vehicles. 1,617,031; Feb. 8.
- Schacht, William F., Huntington, Ind. Loud-speaker connector for ear phones. 1,615,141; Jan. 18.
- Schacht, William F., Huntington, Ind. Game apparatus. 1,646,236; Feb. 1.
- Schacht, William F., Huntington, Ind. Combined sink stopple and soap dish. 1,622,350; Mar. 29.
- Schacht, William F., Huntington, Ind. Bumper. 1,628,277; May 10.
- Schacht, William F., Huntington, Ind. Game apparatus. 1,641,766; Sept. 6.
- Schacht, William F., Huntington, Ind. Stopple. 1,646,112; Oct. 18.
- Schachtner, Heinrich, Mannheim, Baden, assignor to Stotz G. m. b. H. Abt. der Brown, Boveri & Cie, A.-G., Mannheim, Germany. Automatic electric circuit breaker. 1,629,840; May 24.
- Schad, Anthony C., Hollywood, Calif. Athletic spring exerciser. 1,613,638; Jan. 4.
- Schade, Blanche, Gloucester, Mass. Visible registering device for cameras. 1,620,040; Mar. 8.
- Schade, Edmund A., assignor to The Stanley Works, New Britain, Conn. Roofing bracket. 1,639,352; Aug. 16.
- Schade, Edmund A., assignor to The Stanley Works, New Britain, Conn. Plane. 1,643,524; Sept. 27.
- Schade, Edmund A., assignor to The Stanley Works, New Britain, Conn. Carpenter's plane. 1,651,634; Dec. 6.
- Schade, John, assignor to National Blank Book Company, Hioylock, Mass. File container for loose-leaf sheets. 1,622,003; Mar. 22.
- Schade, John, assignor to National Blank Book Company, Hioylock, Mass. Locking device for telescoping elements. 1,645,934; Oct. 18.
- Schade, Gustav, New York, N. Y. Ignition timer. 1,640,725; Aug. 30.
- Schadel, William F., assignor to Kanawha Manufacturing Company, Charleston, W. Va. Vibratory screen. 1,620,575; Mar. 8.
- Schadt, Ewald K., assignor to General Motors Corporation, Detroit, Mich. Lens. 1,635,225; July 12.
- Schaefer, August C., Portland, Ore. Can opener of the rubber type. 1,626,052; Apr. 26.
- Schaefer, Edward C. F., York, Pa. Manure spreader. 1,646,878; Oct. 25.
- Schaefer, Frank M., Steger, assignor to C. C. Shields, Lake Forest, Ill. Peeling machine. 1,641,993; Sept. 13.
- Schaefer, Frederic, Pittsburgh, Pa. Closed-link brake hanger. 1,646,879; Oct. 25.
- Schaefer, George, et al., trustees. (See Inghram, Howard T., assignor.)
- Schaefer, George A., Los Angeles, Calif. Apparatus for removing fluid from wells. 1,646,599; Oct. 25.
- Schaefer, Gustav, Wagon Company, The. (See Jackson, Vilas H., assignor.)
- Schaefer, James, West Paterson, assignor to Paramount Rubber Consolidated, Inc., Little Falls, N. J. Method of and apparatus for making hollow rubber articles. 1,625,398; Apr. 19.
- Schaefer, James, Yonkers, N. Y., assignor to Paramount Rubber Consolidated, Inc. Method of and apparatus for making hollow rubber articles. 1,625,399; Apr. 19.
- Schaefer, Karl A., Pforzheim, Germany. Bracelet fastener. 1,636,869; July 26.
- Schaefer, Louis, assignor to Reed & Barton, Taunton, Mass. Display case or roll for flat-metal tableware. 1,640,393; Nov. 22.
- Schaeffer, Albert. (See Thies, K., Müller, Runne, and Schaeffer.)
- Schaeffer, Arnold A., Houston, Tex. Door latch. 1,621,437; Mar. 15.
- Schaeffer, Charles, Paris, France. Steering device for motor vehicles. 1,638,750; Aug. 9.
- Schaeffer, Charles D. R., Fort Dodge, Iowa. Shaft construction. 1,640,670; Aug. 30.
- Schaeffer, Dorman, Helena, Mont. Toy vehicle. Des. 72,577; May 3.
- Schaeffer, Dorman, Helena, Mont. Riding toy. 1,624,627; Apr. 12.
- Schaeffer, Dorman, Helena, Mont. Riding toy. 1,624,628; Apr. 12.
- Schaeffer, Elmer H., and D. Apfel, Reading, Pa. Tire spreader. 1,622,468; Mar. 29.
- Schaeffer, Elmer R. (See Baldwin, L. A., and Schaeffer.)
- Schaeffer, Francis, Mohnton, Pa. Hat-felting machine. 1,622,295; Mar. 29.
- Schaefer, George W., Chicago, Ill. Roof-falshing scaling and retaining device. 1,625,688; Apr. 19.
- Schaeffer, John A., St. Louis, Ill. J. Calbeck, Joplin, Mo., and J. R. Crenshaw, East St. Louis, Ill., assignors to The Eagle-Picher Lead Company, Cincinnati, Ohio. Red lead and making the same. 1,652,217; Dec. 13.
- Schaefer, Louis, Stuhur, Okla. Device for adjusting the spline. 1,640,519; Aug. 30.
- Schaer, Charles, Langenthal, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. Air compressor. 1,646,795; Oct. 25.
- Schaeren, Ernst, Bern, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. High-pressure crude-oil motor. 1,646,042; Oct. 18.
- Schafer, Carl H., Sharpsho, Pa., assignor to R. D. Nuttall Company, Trolley wheel. 1,614,155; Jan. 11.
- Schäfer, Friedrich, St. Gall, Switzerland. Sealing device for box fasteners. 1,648,152; Nov. 8.
- Schafer, John P., Richmond Hill, assignor to Western Pressure Company, Incorporated, New York, N. Y. Rectifier and modulator. 1,648,006; Nov. 8.
- Schäfer, Joseph, Haltingen, Germany, assignor to the Firm J. R. Geigy, S. A. Tanning animal hides. 1,650,541; Nov. 22.
- Schäfer, Louis H., New Orleans, La. Automatic mail box. 1,641,008; Aug. 30.
- Schäfer, Max, W. Hühne, and W. Walther, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Magneto-electric and the like machine. 1,650,879; Nov. 29.
- Schafer, William H. (See Petersen, Hans, assignor.)
- Schafer, Albert, Paris, France. Explosion engine. 1,653,877; Dec. 27.
- Schaffer, Belle, Los Angeles, Calif. Sanitary belt. 1,646,880; Oct. 25.
- Schaffer, Charles F., Oakley, Kans. Pump jack. 1,641,460; Sept. 12.
- Schaffer & Goldberg. (See Goldberg, Carl M., assignor.)
- Schaffer, Lewis D., assignor to The State Banking & Trust Company, trustee for himself, and The Singer Manufacturing Company, Cleveland, Ohio. Bowling-pin-setting apparatus and its method of operating. 1,642,414; May 3.
- Schaffer Poidometer Company. (See Cooke, Alfred F., assignor.)
- Schafer, Walter. (See Semm, A., and Schaffer.)
- Schaffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Halesches, Berlin, Germany. Vacuum-tube oscillator. 1,639,671; Aug. 23.
- Schake, Jacob D., assignor to Elevator Company of America, Chicago, Ill. Leveling attachment for push-button elevators. 1,615,346; Jan. 25.
- Schake, Jacob D., assignor to Elevator Company of America, Chicago, Ill. Leveling attachment for elevator car switches. 1,615,347; Jan. 25.
- Schall, Myron R., Palo Alto, Calif. Set-screwless collar. 1,645,457; Oct. 11.
- Schalle, Walter, New York, N. Y. Brush. 1,649,490; Nov. 15.
- Schamborg, Herbert L., assignor to A. Deutz, New York, N. Y. Footrest. 1,617,482; Feb. 15.
- Schanche, Herman G., Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lithopone and increasing the resistance thereof to sunlight. 1,619,376; Mar. 1.
- Schanck, Harry S., et al. (See Ames, Charles F., assignor.)
- Schane, Edward H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Clamping member for awnings. 1,628,687; May 17.
- Schane, Edward H., and E. Durant, assignors to The Fanner Manufacturing Company, Cleveland, Ohio. Awning-raising mechanism. 1,616,917; Feb. 1.
- Schank, John E., assignor to R. H. Eubank Co., Chicago, Ill. Golf bag. 1,640,809; Aug. 30.
- Schänning, Anton M. S., Christiania, Norway. Can opener. 1,641,054; Aug. 30.
- Schantz, Carl, Freiburg, Germany. Preserving wood and the like. 1,632,508; June 14.
- Schaper, Harry C., St. Louis, Mo. Child's vehicle. 1,614,086; Jan. 11.
- Schaper, Harry C., assignor to The Weight-O-Graph Company, St. Louis, Mo. Weighing device. 1,623,276; Apr. 5.
- Schaper, Harry C., assignor to The Weightograph Company, St. Louis, Mo. Personal weighing scale. 1,637,441; June 7.
- Scharf, John H. (See Leppke, L. A., and Scharf.)
- Scharf, Michael M., Lancaster, Pa. Work-holding device. 1,614,852; Jan. 18.
- Scharffe, Carl A., Hamburg, Germany. Liquid dispensing apparatus. 1,622,810; Mar. 29.
- Scharf, John J., Philadelphia, Pa., assignor to J. F. Meyer, Jr., Chicago, Ill. Coin-controlled machine. 1,621,756; Mar. 22.
- Schattman, Harry, assignor to A. L. Wagner Mfg. Co. Inc., New York, N. Y. Salt and pepper shaker or article of similar nature. Des. 73,050; July 12.
- Schatz, Ernest R., Racine, Wis. Air-inlet device for manifolds. 1,622,811; Mar. 29.
- Schatz, Herman A. (See Smith, William F., assignor.)
- Schatz, Hermann, Schwanheim-on-the-Main, assignor to the Firm I. G. Farbenindustrie, Frankfurt-on-the-Main, Germany. Production of cobaltous acetate. 1,637,251; July 26.
- Schatz, William A., Astoria, N. Y. Measuring faucet. 1,648,593; Nov. 8.
- Schatz, William A., New York, N. Y. Cooler attachment. 1,648,594; Nov. 8.
- Schatz, William A., Astoria, assignor of seventy per cent to J. C. Atwood, New York, N. Y. Dispensing faucet. 1,651,731; Dec. 6.

- Schaub, Eugene, Logan, Utah. Cradle for hydraulic pipe lines. 1,646,423; Oct. 25.
- Schaub, Jacob, Lawrenceburg, Ind., assignor to The Therox Company, New York, N. Y. Apparatus for and manufacture and filling of capsules. 1,628,333; May 10.
- Schauman, Bror M., assignor to M. W. Cantwell, New York, N. Y. Anchor davit. 1,636,944; July 26.
- Schauman, Bror M., Atlantic Highlands, assignor to an association comprising G. V. Johnson, O. Gautschi, and H. W. Johnson, Highlands; W. Koch, Long Branch; and B. M. Schauman, Atlantic Highlands, N. J.; one-fifth to each member. Davit. 1,640,671; Aug. 30.
- Schauman, Bror M., Atlantic Highlands, assignor to an association comprising G. V. Johnson, O. Gautschi, and H. W. Johnson, Highlands; W. Koch, Long Branch; and B. M. Schauman, Atlantic Highlands, N. J.; one-fifth to each member. Anchor davit. 1,640,672; Aug. 30.
- Schauman, Karl O., S. R. Yancey, and J. L. Mifsud, assignors to Sure-Gard Corporation, New York, N. Y. Spring control. 1,650,963; Nov. 29.
- Schaureit, Paul, Zurich-Altstetten, Switzerland. Rotary machine. 1,626,978; May 8.
- Schawrow, Ralph, Bayonne, N. J., assignor to National Standard Threadless Coupling Corporation, Rockaway Park, N. Y. Hose coupling. 1,639,813; Aug. 23.
- Schede, Julius W. (See Hannam, G. C., and Schede.)
- Scheel, Gustav, assignor to Telegraphie-Gesellschaft mit beschränkter Haftung Sitten, Stille, Berlin, Germany. Magnetic talking dictating, and like machine. 1,639,060; Aug. 16.
- Scheeler, Charles A., assignor to Buffalo Wire Works Co., Buffalo, N. Y. Bulletproof woven-wire fabric. 1,649,548; Nov. 15.
- Scheer, John B., Milwaukee, Wis. Pipe hanger. 1,646,881; Oct. 25.
- Scheetz, Adam E., Norwood, Pa. Limer. 1,630,138; May 24.
- Scheffer, J. A., et al., trustees. (See Enell, Otto E., assignor.)
- Scheffey, George B. (See House, A. C., and Scheffey.)
- Scheffey, George B., Weehawken, N. J. Cloth board or winder. 1,616,874; Feb. 8.
- Scheffey, George B., Norwich, Conn., assignor to Lightship Board Company, Inc. Weehawken, N. J. Cloth board or similar article. 1,616,873; Feb. 8.
- Scheffey, George B., Weehawken, N. J., assignor to W. L. Long, Roanoke Rapids, N. C. Labeling mechanism. 1,624,366; Apr. 12.
- Scheffey, George B., Weehawken, N. J., assignor to W. L. Long, Roanoke Rapids, N. C. Cut-off mechanism. 1,624,367; Apr. 12.
- Scheffier, Fritz, Kiel, Germany. Mine signal plant. 1,614,257; Jan. 11.
- Schell, Iver P., Fergus Falls, Minn. Powder dispenser. 1,645,935; Oct. 18.
- Scheibeler, John H., Nebraska City, Nebr. Flush-tank valve. 1,616,875; Feb. 8.
- Schein, Alexander E., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Stabilizing gyroscope. 1,617,309; Feb. 8.
- Schein, Alexander E., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Radial bearing. 1,620,814; May 17.
- Scheinberg, Henry, et al. (See Scheinberg, Morris M., assignor.)
- Scheinberg, Morris M., et al. (See Scheinberg, Morris M., assignor.)
- Scheinberg, Morris M., Brooklyn, assignor to H. Scheinberg and M. M. Scheinberg, copartners, doing business under the name and style of Sturm & Scheinberg, New York, N. Y. Garter and manufacturing same for boilers. 1,613,361; Jan. 4.
- Scheiner, Philip, Brooklyn, N. Y. Stand for a drinking cup or similar article. Dec. 72,499; Apr. 19.
- Scheits, Jacob J. (See Gallus, M., and Scheits.)
- Scheiwer, Albert T., Erie, Pa. Screw-driver mechanism for insulator screws. 1,619,043; Mar. 1.
- Schelig, Raymond, Hawthorne, Calif. Auxiliary heater. 1,613,413; Jan. 4.
- Schell, David, Myerstown, Pa. Combination fixture support and base. 1,623,813; Apr. 5.
- Schell, Jefferson C., Paterson, Ottawa, Ontario, Canada. Attachment for paper machines. 1,634,159; June 28.
- Schell, Joseph E., Cleveland Heights, Ohio. Heating element for motor radiators. 1,632,857; June 21.
- Schellenberger, Charles G., deceased; The Old National Bank of Battle Creek, administrator, Battle Creek, Mich. Thermostatic signal. 1,622,545; Mar. 29.
- Schelleng, John C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation generator. 1,629,001; May 17.
- Schelleng, John C., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Secret signaling. 1,632,099; June 14.
- Schelleng, John C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Rectifying and modulating system. 1,634,800; July 5.
- Schelleng, John C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric wave signaling system. 1,653,378; Dec. 27.
- Schellens, Christopher A., Marblehead, and A. T. Trowbridge, Arlington, Mass. Oil burner. 1,649,745; Nov. 15.
- Schellens, Eugene L., Pointe Claire, Quebec, Canada, and J. S. Coffin, jr., Lisbon, N. H., assignors to C-S Engineering Company, Spring support. 1,620,491; Mar. 8.
- Schellens, Eugene L., Pointe Claire, Quebec, Canada, and J. S. Coffin, jr., Lisbon, N. H., assignors to C-S Engineering Company, Spring support. 1,620,492; Mar. 8.
- Schellens, Eugene L., Pointe Claire, Quebec, Canada, and J. S. Coffin, jr., Lisbon, N. H., assignors to C-S Engineering Company, Truck. 1,648,964; Nov. 15.
- Scheller, Emma, Long Island City, N. Y. Window screen. 1,634,303; July 5.
- Schellerer, Fridolin, Secane, Pa. Power hammer. 1,642,560; Sept. 13.
- Schellert, Otto. (See Cutshaw, Frank T., assignor.)
- Schellhaas, George, Frankenthal-Pfalz, Germany. Manufacturing solid cork bodies and the like. 1,637,877; Aug. 2.
- Schellhammer, Alfred L., Warren, Pa. Furnace. 1,615,236; Jan. 25.
- Schelling, Edmund. (See Arter, J., and Schelling.)
- Scheller, John C., Rochester, N. Y. Last. 1,643,180; Sept. 20.
- Schelter, John C., Rochester, N. Y. Last. 1,648,882; Nov. 8.
- Schelter, John C., Rochester, N. Y. Last. 1,648,883; Nov. 8.
- Schelluto, Jean, and F. J. J. Furnemont, Brussels; said Schelluto, assignor to G. E. Coene, Uciele, near Brussels, Belgium. Regulating automatically sweeping fire in machine guns. 1,625,775; Apr. 19.
- Schemminger, John, jr., Providence, R. I., assignor to Actua Automatic Oil Burner, Incorporated, New York, N. Y. Liquid-fuel saving and safety device. 1,619,157; Mar. 1.
- Schemmel, Frank P., San Jose, Calif. Facing tiles. 1,641,553; Sept. 6.
- Schemmel, Robert C., assignor to The Backstay Machine & Leather Company, Union City, Ind. Combined finishing welt and metal container. 1,651,910; Dec. 6.
- Schenck, Alexander T., Seattle, Wash. Producing a porous cementitious article. 1,622,396; Mar. 29.
- Schenck, Charles, assignor to Bethlehem Steel Company, Bethlehem, Pa. Welded beam. 1,620,298; Mar. 8.
- Schenck, John F., Lawrence, N. C. Skein-winding machine. 1,631,893; June 7.
- Schenck, Le Roy C., assignor to Troy Laundry Machinery Co., Ltd., East Moline, Ill. Safety switch for centrifugal machines. 1,633,039; June 21.
- Schenck, Pelree D., Dayton, Ohio, assignor to The Duriron Company, Inc. Corrosion-resisting alloy. 1,651,970; Dec. 6.
- Schenck, Rudolf, Munster, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Elimination of phosphorus from pig iron. 1,650,157; Nov. 22.
- Schenck, Samuel B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,622,677; Mar. 29.
- Schenck, Samuel B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Solenoid coupler for cars. 1,649,129; Nov. 15.
- Schentitz, Philipp, Zurich, Switzerland. Preventing and dissolving scale in steam boilers. 1,617,350; Feb. 15.
- Schenk, Eduard, assignor to Mosbach Electric & Supply Company, Pittsburgh, Pa. Electrical terminal. 1,634,689; July 5.
- Schenken, Carlton G., Washington, D. C. Demountable wheel. 1,651,105; Nov. 29.
- Schenker, Joseph, Minneapolis, Minn. Underground support. 1,652,415; Dec. 13.
- Scherrer, Walter, Winterthur, Switzerland, assignor to Busch-Sulzer Bros. Diesel Engine Company, St. Louis, Mo. Fuel-engine valve. 1,629,122; May 17.
- Schepmoes, Lindsay, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Lighting apparatus. 1,652,416; Dec. 13.
- Schepper, Adam, and P. Schroeder, Bay City, Mich. Rolling radiator shutter. 1,626,098; Apr. 26.
- Scheppers, John C., San Bernardino, Calif. Ventilating screen strip. 1,651,071; Nov. 29.
- Schepss, Wilhelm. (See Rabe, P., and Schepss.)
- Scherbarth, William E., E. K. Hinkle, Minn. Bedstead. 1,647,199; Dec. 13.
- Scherbaum, Bernhard, Wedel, Germany. Pulverizing or grinding mill. 1,653,472; Dec. 20.
- Scherbius, R. Ritter. (See Lewerenz, Arthur, assignor.)
- Scherdel, Karl, Pittsburgh, Mass. Frankfurter-roll-forming machine. 1,651,697; June 7.
- Scherer, Albert, assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Furnace bonnet. 1,615,888; Feb. 1.
- Scherer, Evelyn D. (See Scherer, Warren C. and E. D.)
- Scherer, George F., Jackson, Mich. Making and finishing spokes. 1,640,377; Aug. 30.
- Scherer, John, Marinette, Wis. Lumber gauge. 1,624,150; Apr. 12.

- Scherer, Karl, New York, N. Y. Spare-tire lock. 1,619,044; Mar. 1.
- Scherer, Karl, New York, N. Y. Automobile lock. 1,638,062; Aug. 9.
- Scherer, Walter G., Cleveland, Ohio. Heater. 1,647,315; Nov. 1.
- Scherer, Walter L., Dallas, assignor of one-half to C. R. Cressley, Fort Worth, Tex. Clarifying system for cleaning fluids. 1,613,135; Jan. 4.
- Scherer, Warren C. and E. D., Buffalo, N. Y. Hair waver. 1,653,229; Dec. 20.
- Schern, Albert E., Cincinnati, Ohio. Crossing pavement. 1,619,850; Jan. 11.
- Schermorh, John L., assignor to American Transformer Company, Newark, N. J. Transformer. 1,612,947; Jan. 4.
- Scherner, John, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead ring. 1,642,561; Sept. 19.
- Scherr, Morris, Baltimore, Md. Weight-registering gauge for weighing scales. 1,640,620; Aug. 30.
- Scherti, Paul, Hoboken, N. J. Safety pocket. 1,617,825; Feb. 15.
- Scherz, Emil. (See Scherz, Louis and E.)
- Scherz, Louis and E., Wilkes-Barre, Pa. Eye protector. 1,627,121; May 3.
- Schesold, George T., and A. M. Johnson, Minneapolis, Minn. Tool for removing transmission bands. 1,641,994; Sept. 13.
- Schetzler, Charles H., Limon, Colo. Knife. 1,613,200; Jan. 4.
- Schew, William C., Upland, Calif. Heating orchards and apparatus therefor. 1,630,452; May 31.
- Scheuer, Max G., New York, N. Y. Baglike receptacle. 1,639,005; Aug. 16.
- Scheuer, Sydney, Brooklyn, N. Y. Jewelry. 1,628,278; May 10.
- Scheurer, B. E. (See Schlemeyer, Otto, assignor.)
- Scheuermann, Charles, Mobile, Ala. Burner cone. 1,636,616; July 19.
- Schicht, Georg, A.-G. Aussig. (See Grün, A., and Limpler, assignors.)
- Schick, Adolph M., Wheeling, W. Va. Vehicle signaling apparatus. 1,631,698; June 7.
- Schick, Jacob, Orange, assignor to M. R. Hutchison, West Orange, N. J. Pencil knife. 1,620,236; Mar. 8.
- Schick, Jacob, East Orange, N. J., assignor to Magazine repeating Razor Company. Safety razor. 1,652,688; Dec. 13.
- Schick, Johann G., St. Gallen, Switzerland. Printing press. 1,630,583; May 31.
- Schick, Murray, San Francisco, Calif. Hair guard and template. 1,629,741; May 24.
- Schicklering, Alfred, Scarsdale, N. Y. Identification-card case. 1,613,414; Jan. 4.
- Schiding, George L., York, Pa. Septic tank. 1,616,394; Feb. 1.
- Schieder, Karl. (See Müller, August, assignor.)
- Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Power transformation. 1,615,655; Jan. 25.
- Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Bellring mechanism. 1,645,822; Oct. 18.
- Schieferstein, Heinrich, Charlottenburg, near Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Radio transmission system. 1,626,699; May 3.
- Schieffelin, Schuyler, New York, N. Y. Internal-combustion motor. 1,613,138; Jan. 4.
- Schiele, Richard F., Glen Ellyn, Ill. Combined spotlight and cigar lighter. 1,638,642; Aug. 9.
- Schiele, Richard F., Glen Ellyn, Ill. Combined cigar lighter and lamp. 1,638,751; Aug. 9.
- Schierenbeck, John, Albany, N. Y. Egg-marking device. 1,641,238; Sept. 6.
- Schierholz, Henry A., assignor to Western Clock Company, La Salle, Ill. Clock case. Des. 72,332; Mar. 29.
- Schiesari, Mario, New York, N. Y. Method of and apparatus for making sculptures. 1,636,149; July 19.
- Schless, Fritz, Lichtensteig, Switzerland. Machine for cutting or severing metallic bars. 1,625,748; Apr. 19.
- Schiff, Edmund, assignor to The J. H. Day Company, Cincinnati, Ohio. Tray-discharging mechanism. 1,639,061; Aug. 16.
- Schiffner, Joseph A., assignor of one-third to H. Schwartz and one-sixth to M. Witherwass, Denver, Colo. Flash light. 1,621,955; Mar. 22.
- Schiffner, John, New York, N. Y. Outlet strainer. 1,618,679; Dec. 22.
- Schlicknecht, Leo, assignor to Landis Machine Company, St. Louis Mo. Stitch remover. 1,624,013; Apr. 12.
- Schlicht, Walter D., Detroit, Mich. Garment protector. 1,629,433; May 10.
- Schille, Andreas, Mannheim, Germany assignor of forty per cent to J. Wissing, New York, N. Y. Rodent and insect exterminator. 1,646,767; Oct. 25.
- Schiller, Ira A., et al. (See Pfister, John R., assignor.)
- Schilling, Alfred B., Stockbridge, Mass. Bank check. Dos. 73,889; Aug. 30.
- Schilling, George, W. Scott, N. Y., assignor to General Electric Company, Relay. 1,646,719; Oct. 18.
- Schilling, Warren C., Green Bay, Wis. Paper carton. Dos. 73,209; Aug. 2.
- Schilovsky, Peter, London, England. Support for gyroscopic turn indicators. 1,654,385; Dec. 27.
- Schultz, Bernard P., assignor to The P. A. Geler Company, Cleveland, Ohio. Straightening press and method of straightening. 1,646,260; Oct. 18.
- Schilz, John, assignor of one-third to G. Marsac, Los Angeles, Calif. Electrical-conduit-crossover system. 1,631,224; June 7.
- Schmalz, Joseph F., Worcester, Mass. Tape condenser. 1,648,064; Nov. 8.
- Schimmel, Fridolin, Faribault, Minn. Spinnet-desk body. Des. 73,711; Oct. 25.
- Schimmel, Fridolin, Faribault, Minn. Combination table and writing desk. 1,621,688; Mar. 22.
- Schimmelpfennig, John, Cedar Rapids, Iowa. Combination woodworking machine. 1,619,158; Mar. 1.
- Schimpf, George C. (See Chenoweth, W. H., and Schimpf.)
- Schimpf, George C., assignor to H. D. Harvey, Baltimore, Md. Dross furnace. 1,634,217; June 28.
- Schindler, Carl, Brookline, Mass., assignor to Carl Schindler, Inc. Tennis racket. 1,627,471; May 10.
- Schindler, Carl, Inc. (See Schindler, Carl, assignor.)
- Schindler, Paul, Bayonne, N. J. Suction-operated circuit closer for motor vehicles. 1,620,493; Mar. 8.
- Schinke, Edward C., Webster Groves, assignor to The Acoustograph Company, St. Louis, Mo. Calculating machine. 1,644,897; Oct. 11.
- Schinkez, Albert. (See Morisette, F. J., and Schinkez.)
- Schinner, Joseph A., Greenfield, Ohio. Pneumatic pad. 1,624,807; Apr. 12.
- Schinscholl, Erich, Cincinnati, Ohio. Egg carton. 1,631,554; June 7.
- Schinscholl, Erich, K. Zahn, and K. Wilke, Höchst-on-the-Main, and P. Ochwat, Bad-Soden, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Hydroxy-benzanthrones and making same. 1,614,398; Jan. 11.
- Schlaacks, Henry J., Chicago, Ill. Combination window. 1,625,372; Apr. 26.
- Schladewach, Hermann, Dessau in Anhalt, and H. Hähle, Dessau-Ziebigk in Anhalt, Germany, assignors to L.-G. Farbenindustrie Aktiengesellschaft, Inc. 1,645,117; Oct. 11.
- Schlaepfer, Edouard, Lausanne, Switzerland. Spray charger. 1,637,894; June 7.
- Schläfer, Valentin, Sommerda, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Fuse for projectiles. 1,637,964; Aug. 2.
- Schlathorst, W., & Co. (See Reiners, W., and Kahlisch, assignors.)
- Schladly, Julius H., Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y. Metal-lath-attaching clip. 1,624,187; Apr. 12.
- Schladly, Julius H., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio. Lock. 1,629,641; May 24.
- Schladly, Julius H., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio. Sheet-metal packing band. 1,646,982; Oct. 25.
- Schlage Company, The. (See Schlage, Walter R., assignor.)
- Schlage Lock Company. (See Schlage, Walter R., assignor.)
- Schlage, Walter R., San Francisco, Calif. Doorknob fastener. 1,621,174; Mar. 15.
- Schlage, Walter R., San Francisco, Calif. Combination marker gauge. 1,644,403; Oct. 4.
- Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Lock. 1,653,511; Dec. 20.
- Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Door fastener. 1,653,512; Dec. 20.
- Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Escutcheon-plate fastener. 1,635,138; Dec. 20.
- Schlage, Walter R., assignor to The Schlage Company, San Francisco, Calif. Glass-knob mounting. 1,653,514; Dec. 20.
- Schlagenhauf, Johann, Oberlin, near Zurich, Switzerland. Automatic trailer coupling. 1,649,936; Nov. 22.
- Schlagenhauf, Johann, Oberlin, near Zurich, Switzerland. Automatic brake for trailers. 1,652,254; Dec. 13.
- Schlagenhauf, Karl, Berlin-Charlottenburg, assignor to Maschinenbau-Aktiengesellschaft vorm. Starke & Hoffmann, Hirschberg, Germany. Valve for piping of large diameter. 1,652,054; Dec. 6.
- Schlagel, Herman, Long Island City, N. Y. Combined casing and dial. Des. 73,870; Nov. 15.
- Schlaich, Herman, Long Island City, N. Y. Tubing. 1,622,397; Mar. 20.
- Schlamp, Clara L., et al. (See Delker, William L., assignor.)
- Schlamp, Mabel D., et al. (See Delker, William L., assignor.)
- Schlatter, Carl, assignor to S. Slater & Sons, Incorporated, Webster, Mass. Pressure-relieving means for hydraulic calendars. 1,637,282; July 26.
- Schlatter, Rudolph, assignor to Busch-Sulzer Bros.-Diesel Engine Co., Inc., St. Louis, Mo. Internal-combustion engine. 1,622,398; Mar. 20.
- Schlaupitz, Oswald, and W. Schum, assignors to The Timken Roller Bearing Company, Canton, Ohio. Roll-making machine. 1,640,984; Aug. 30.
- Schlayer, Fred. (See Schlayer, Walter, assignor.)

- Schlayer, Walter, Jamaica, New York, N. Y., assignor to F. Schlayer, Woodhaven, Long Island, N. Y. Cap for containers. 1,633,420; June 21.
- Schleck, Eduard, Berlin, Germany. Electric steam boiler. 1,636,788; July 26.
- Schlegel, Charles P., Rochester, N. Y., assignor to The Schlegel Manufacturing Co. Upholstery molding. 1,649,981; Nov. 22.
- Schlegel, Heinrich, Duisburg-Ruhrort, Germany. Production of building blocks. 1,632,517; June 14.
- Schlegel Manufacturing Co. (See Schlegel, Charles P., assignor.)
- Schlegel, Werner, Pegau, Germany. Door latch. 1,630,868; July 26.
- Schleich Studios, Inc. (See Schleich, William F., assignor.)
- Schleich, William F., Harrison, assignor to Schleich Studios, Inc., New York, N. Y. Bird cage. Re16,681; July 19.
- Schleicher, Frank J., St. Louis, Mo. Box. Des. 72,967; June 28.
- Schleicher, Frank J., St. Louis, Mo. Box. Des. 73,445; Sept. 13.
- Schleicher, Frank J., St. Louis, Mo. Candy box. Des. 73,623; Oct. 11.
- Schleicher, Frank J., St. Louis, Mo. Paper box. 1,631,225; June 7.
- Schleicher, Frank J., St. Louis, Mo. Paper box. 1,641,012; Aug. 30.
- Schleicher, Inc. (See Schleicher, Paul E., assignor.)
- Schleicher, John A., assignor to Lufkin Rule Co., Saginaw, Mich. Wrench and handle for inside micrometers. 1,615,488; Jan. 25.
- Schleicher, Leo W., Detroit, Mich. Tool handle. 1,642,388; Sept. 13.
- Schleicher, Paul E., Chicago, Ill., assignor to Schleicher, Inc., Gary, Ind. Knockdown radiator cover. 1,636,247; July 19.
- Schlemeyer, Otto, assignor to one-half to R. E. Scheurer & Electra, Tex. Hydraulic jack. 1,626,158; Apr. 26.
- Schlener, John, Los Angeles, Calif. Theft-preventing device. 1,654,017; Dec. 27.
- Schlepp, Morris, New York, N. Y. Lighting-fixture rosette. Des. 73,343; Aug. 23.
- Schlepp, Morris, New York, N. Y. Lighting-fixture canopy. Des. 73,890; Aug. 30.
- Schlepp, Morris, New York, N. Y. Lighting-fixture body. Des. 74,027; Dec. 6.
- Schleppy, S. Leon, Hollywood, and A. A. Bureau, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Spool. 1,617,421; Feb. 15.
- Schlereth, Andrew J., administrator. (See Hanford, Orin A.)
- Schlesinger, Alex, New York, N. Y. Telephone-instrument attachment. 1,627,415; May 3.
- Schlesinger, Georg, Berlin-Charlottenburg, Germany. Bobbin bin and shelf therefor. 1,622,399; Mar. 29.
- Schlesinger, Georg, Berlin-Charlottenburg, Germany. Method of and apparatus for producing cylindrical formations or hollow bodies from veneer or thin sheet wood. 1,645,936; Oct. 18.
- Schlesinger, Maurice, Cleveland, Ohio. Stop indicator. 1,648,327; Nov. 8.
- Schless Hardwood Co. (See Schless, Maurice J., assignor.)
- Schless, Maurice J., assignor to Schless Hardwood Co., New York, N. Y. Ring. Des. 74,125; Dec. 20.
- Schless, Robert, Emporium, Pa. Cleansing compound. 1,621,906; Mar. 22.
- Schlessor, Fred, River Grove, assignor to Ajax Spring Stabilizer Company, Chicago, Ill. Spring cover. 1,648,742; Nov. 8.
- Schleter, George H., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, Fan. 1,633,957; June 28.
- Schletter, Richard E., Elkins Park, assignor to Schletter & Zander, Inc., Philadelphia, Pa. Lady's hosiery. 1,651,732; Dec. 6.
- Schletter & Zander, Inc. (See Schletter, Richard E., assignor.)
- Schletter & Zander, Inc. (See Zander, Walter E., assignor.)
- Schler, Fred, Waukegan, Ill. Latching means for gates. 1,620,134; Mar. 8.
- Schley, Frederick L., and C. Ernst, Brooklyn, N. Y. Agricultural machine. 1,619,586; Mar. 1.
- Schlewer, Victor, assignor, by mesne assignments, to Dean Pump Company, Anderson, Ind. Centrifugal pump. 1,634,304; July 6.
- Schliedner, Emil, Wurmberg, Germany, assignor to the Firm: Rine-Werk, vorm. Gebr. Bang Aktiengesellschaft. Tov. 1,634,756; July 5.
- Schloemann Aktiengesellschaft. (See Löwy, Ludwig, assignor.)
- Schloemann Aktiengesellschaft. (See Möller, Fritz, assignor.)
- Schlomer, John F., Los Angeles, Calif. Egg case filler. 1,644,898; Oct. 11.
- Schlossberg, Morris. (See Meyers, R. J., and Schlossberg.)
- Schloss, Emil, New York, N. Y. Ribbon. 1,614,258; Jan. 11.
- Schlosser Brothers. (See Schlosser, John J., assignor.)
- Schlosser, John J., assignor to Schlosser Brothers, Frankfort, Ind. Temperature control. 1,633,680; June 28.
- Schlosser, William J., San Antonio, Tex. Tennis game board. 1,654,018; Dec. 27.
- Schlossier, Hans, Chicago, Ill. Medium for treating oils and making the same. 1,638,643; Aug. 9.
- Schlosslieten, Hans, Chicago, Ill. Medium for treating oils and making the same. 1,638,644; Aug. 9.
- Schlottner, George K., Chester, and R. H. Youngman, Pittsburgh, assignors to Harbison-Walker Refractories Company, Pittsburgh, Pa. Unburned refractory brick. 1,643,181; Sept. 20.
- Schlueter, Henry C., Cleveland, Ohio, assignor to W. Elsey, Detroit, Mich. Rotary brush. 1,633,230; June 21.
- Schlueter, Henry R., and A. H. Hatke, Richmond, Va. Machine for attaching pins to leaves. 1,639,353; Aug. 16.
- Schlueter, William A. C., assignor to The Refinery Supply Company, Tulsa, Okla. Gravity balance. 1,649,746; Nov. 15.
- Schlumpf, Jacques, Oberwinterthur, Switzerland. Apparatus for treating vegetable, animal or artificial fibers with dyes or other liquid. 1,628,557; May 10.
- Schlumpf, Jacques, Oberwinterthur, Switzerland. Machine for treating yarns in hanks with liquid. 1,639,438; Aug. 16.
- Schlurmann, August, Berlin-Charlottenburg, assignor to Schurmann & Halske Aktiengesellschaft, Wernerkwerk, Siesmstadt, bei Berlin, Germany. Telephone system. 1,653,381; Dec. 27.
- Schlüter, Willi, Brunschwic, assignor to the Firm Grimme, Natalis u. Co. Aktiengesellschaft, Braunschweig, Germany. Lens-cutting machine. 1,658,063; Aug. 9.
- Schmand, Albert F., Little Rock, Ark. Candy machine. 1,621,956; Mar. 22.
- Schmeck, Herbert P., assignor to Philadelphia Toboggan Company, Philadelphia, Pa. Coaster-track structure. 1,621,337; Mar. 15.
- Schmeh, William C., Park Ridge, N. J. Target game. 1,624,465; Apr. 12.
- Schmelsner, Theodore G., Davis, assignor to J. H. Herring, Piedmont, Calif. Tractor hitch. 1,646,000; Oct. 25.
- Schmelsner, Theodore G., San Francisco, Calif. Grouser. 1,647,019; Oct. 25.
- Schmeltzer, J. B., Binghamton, N. Y. Flower holder. 1,619,888; Mar. 8.
- Schmekel, Fritz. (See Eichhorst, Franz, assignor.)
- Schmelz, William A., Pittsburgh, Pa. Skinless wiener and apparatus for making same. 1,651,472; Dec. 6.
- Schmick, Henry J., Williamsport, Pa. Screw and gear making apparatus. 1,629,125; May 17.
- Schmid, Edward R., Verona, N. J., assignor to Westinghouse Lamp Company, Easting cement. 1,626,700; May 3.
- Schmid, Emil, Washington, D. C. Ice cap. 1,635,438; July 12.
- Schmid, George, New York, N. Y. Bridge. 1,637,787; Aug. 2.
- Schmid, Herman, Cleveland, Ohio. Spinning machine. 1,649,491; Nov. 15.
- Schmid, Karl, Milwaukee, Wis. Suction device for removing waste and dust. 1,630,972; May 31.
- Schmid, Walter J., St. Louis, Mo. Mechanical baseball machine. 1,617,546; Feb. 15.
- Schmid, Werner, White Plains, assignor to National Lace & Embroidery Company, New York, N. Y. Embroidered fabric. Des. 71,812; Jan. 4.
- Schmid, Werner, White Plains, assignor to National Lace & Embroidery Company, New York, N. Y. Embroidered textile fabric. Des. 72,037; Feb. 17.
- Schmid, William, Coldwater, assignor to H. A. Douglas, Bronson, Mich. Choke-valve mechanism. 1,634,437; July 5.
- Schmidzall, Frederick J., Cincinnati, Ohio. Latch keeper. 1,614,046; Jan. 11.
- Schmidt, Adolph W., Lewiston, Idaho. Cushion tire. 1,654,019; Dec. 27.
- Schmidt, Alfred, Düsseldorf, Germany. Manufacture of pipe bends. 1,617,277; Feb. 8.
- Schmidt, Arno, et al. (See Fassler, Peter, assignor.)
- Schmidt, Benjamin F., et al. (See Schmidt, Benjamin F., assignor.)
- Schmidt, Benjamin F., South Pasadena, Calif. Gear-shift mechanism. 1,629,974; May 3.
- Schmidt, Benjamin F., Los Angeles, Calif. Gear shift. 1,626,975; May 3.
- Schmidt, Benjamin F., Los Angeles, Calif. Increasing valve lifter for gas engines. 1,654,020; Dec. 27.
- Schmidt, Benjamin F., and T. D. Heyl, Los Angeles, Calif. Car mover. 1,644,898; Sept. 6.
- Schmidt, Benjamin F., assignor to Gillette Schmidt Corporation, Los Angeles, Calif. Hand-operated gear-shift mechanism. 1,630,076; May 24.
- Schmidt, Benjamin F., Exeter, assignor to K. C. Gillette and B. F. Schmidt, copartners, doing business as Gillette Schmidt Gear Shift Company, Los Angeles, Calif. Selective transmission mechanism. 1,637,593; Aug. 2.
- Schmidt, Camilla, Berlin-Lichterfelde, Germany. Providing cakes of soap with advertising matter. 1,636,709; July 26.
- Schmidt, Carl E., Osceola, Mich. Imitation driftwood and manufacturing same. 1,628,918; May 17.
- Schmidt, Carlos A., Oakland, Calif. Vehicle bumper. Des. 73,510; Sept. 20.

- Schmidt, Carlos A., Oakland, Calif. Vehicle bumper. Des. 74,075; Dec. 13.
- Schmidt, Carlos A., Oakland, Calif. Vehicle bumper. 1,645,723; Oct. 18.
- Schmidt, Charles D., Jamaica, N. Y. Brake or clutch. 1,623,706; Apr. 5.
- Schmidt, Diedrick, Alta, Iowa. Drawbar for drags. 1,621,031; Mar. 15.
- Schmidt, Ernest H., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Shock-absorbing mechanism. 1,643,952; Sept. 20.
- Schmidt, Ferdinand, Des Moines, Iowa. Dish or similar article. Des. 72,277; Mar. 22.
- Schmidt, Ferdinand, Des Moines, Iowa. Meat platter or similar article. Des. 72,273; Mar. 22.
- Schmidt, Ferdinand, Des Moines, Iowa. Teapot or similar article. Des. 72,279; Mar. 22.
- Schmidt, Ferdinand, Des Moines, Iowa. Sugar bowl or similar article. Des. 72,280; Mar. 22.
- Schmidt, Ferdinand, Des Moines, Iowa. Cup or similar article. Des. 72,281; Mar. 22.
- Schmidt, Ferdinand, Des Moines, Iowa. Creamer or similar article. Des. 72,282; Mar. 22.
- Schmidt, Ferdinand, Des Moines, Iowa. Gravy boat or similar article. Des. 72,283; Mar. 22.
- Schmidt, Ferdinand, Des Moines, Iowa. Goblet or similar article. Des. 73,051; July 12.
- Schmidt, Ferdinand, Des Moines, Iowa. Goblet or similar article. Des. 73,052; July 12.
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- Schmidt, Ferdinand, Des Moines, Iowa. Goblet or similar article. Des. 73,055; July 12.
- Schmidt, Ferdinand, Des Moines, Iowa, assignor to Fred C. Reimer Co., Inc., New York, N. Y. Goblet or the like. Des. 73,039; May 10.
- Schmidt, Franz, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic nozzle. 1,641,695; Sept. 6.
- Schmidt, Frederick W., Philadelphia, Pa. Projecting lantern. 1,637,768; Aug. 2.
- Schmidt, Frederick W. and W. M. Green, Morristown, N. J. Hydraulic classifier, and separating process. 1,650,239; Nov. 22.
- Schmidt, George A. (See Wolkenhauer, Gustav, assignor.)
- Schmidt, George C. and F. G. D. Muller, Houston, Tex. Tank vent. 1,628,068; May 10.
- Schmidt, George C. and F. G. D. Muller, Houston, Tex. Combination tank vent, flame arrester, and automatic snuffer. 1,628,199; May 10.
- Schmidt, George H., et al. (See Nesmith, Samuel D., assignor.)
- Schmidt, Gustav, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Refrigerator show case. 1,614,319; Jan. 11.
- Schmidt, Henry, Detroit, Mich. Door closer. 1,632,924; June 21.
- Schmidt, Henry F. (See Trotter, H. R., and Schmidt.)
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid rheometer. 1,613,727; Jan. 11.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hydraulic regulating apparatus. 1,617,460; Feb. 15.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade shrouding. 1,625,433; Apr. 19.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lubricating system. 1,627,750; May 10.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. 1,644,574; Jan. 18.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system for condenser circulating pumps. 1,630,767; May 31.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radial-flow pump. 1,633,609; June 28.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser installation. 1,638,645; Aug. 9.
- Schmidt, John, Camden, N. J. Valve construction. 1,630,973; May 31.
- Schmidt, Josef, Freileno, Germany. Swivel plow with subsoil loosener. 1,615,656; Jan. 25.
- Schmidt, Karl, Neurruppin, Germany. Fire extinguisher. 1,638,507; Aug. 9.
- Schmidt, Karl, Berlin-Sudende, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High-frequency transformer. 1,613,772; Jan. 11.
- Schmidt, Karl, Berlin-Sudende, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Frequency-multiplication system. 1,632,626; June 14.
- Schmidt, Karl, Berlin-Sudende, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Frequency multiplication. 1,637,283; July 26.
- Schmidt, Karl, Lichtenrade, near Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Speed regulator. 1,632,605; June 14.
- Schmidt, Karl, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Speed-regulating system. 1,647,020; Oct. 25.
- Schmidt, Karl F., Heidelberg, and P. Zutzavner, assignors to Knoll & Co., Ludwigshafen-on-the-Rhine, Germany. Production of organic compounds. 1,637,661; Aug. 2.
- Schmidt, Karl W. (See Redman, J. F., and Schmidt.)
- Schmidt, Lambert, Brooklyn, N. Y., assignor to Radiative Corporation, Diaphragm. 1,646,261; Oct. 18.
- Schmidt, Lambert, Jr., Brooklyn, N. Y. Theftproof lamp bulb. 1,648,916; Nov. 15.
- Schmidt, Le Roy L., South Tacoma, Wash. Traffic signal. 1,620,576; Mar. 8.
- Schmidt, Louie, Atlantic, Iowa. Seed-corn nubber. 1,614,971; Jan. 18.
- Schmidt, Louis A., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Web guide for rotary printing machines. 1,613,960; Jan. 11.
- Schmidt, Louis A., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Plate clamp. 1,649,928; Nov. 22.
- Schmidt, Ludwig, Schwalz, near Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Meter-window structure. 1,614,150; Jan. 11.
- Schmidt, Ludwig, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y. Apparatus for the production of artificial jewels or precious stones. 1,653,022; Dec. 20.
- Schmidt, Max, Cincinnati, Ohio. Scalpel. 1,647,546; Nov. 1.
- Schmidt, Maximilian P., Biebrich-on-the-Rhine, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of vat dyestuffs. 1,625,826; Apr. 26.
- Schmidt, Maximilian P., and W. Krieger, assignors to Kalle & Co. Aktiengesellschaft, Biebrich-on-the-Rhine, Germany. Sensitive layer on a suitable base and making of the same. 1,628,279; May 10.
- Schmidt, Maximilian P., and W. Neugebauer, Biebrich-on-the-Rhine, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Preparing nitriles of the benzanthrone series. 1,628,280; May 10.
- Schmidt, Oltmann G., Fargo, N. Dak. Gasoline torch. 1,620,695; Mar. 15.
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Cooling apparatus for congelable substances. 1,630,864; May 31.
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Knocking pen. 1,646,384; Oct. 25.
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Stuffing machine. 1,647,752; Nov. 1.
- Schmidt, Oscar C., and A. G. Klawitter, assignors to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Hashing machine. 1,637,995; Aug. 2.
- Schmidt, Robert E., Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Splitting of sulpho groups from arylquinone sulphonic acid derivatives. 1,650,158; Nov. 22.
- Schmidt, Robert E., Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Hydroxyl-aryl-p-diamino-anthracene compounds and making same. 1,652,584; Dec. 13.
- Schmidt, Rudolph, Rosedale, Kans. Truss. 1,638,218; Aug. 9.
- Schmidt, Theodore A., Lithographing Company. (See Pistorius, Anna, assignor.)
- Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Damper construction. 1,634,559; July 5.
- Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Electrical precipitation. 1,650,097; Nov. 22.
- Schmidt, Werner. (See Von Weinberg, A., and Schmidt.)
- Schmidt, Wilhelm, deceased; S. Hoffmann, executor, assignor to Schmidt'sche Heissdampf G. m. b. H., Cassel-Wilhelmshohe, Germany. Steam superheater for steam engines. 1,618,230; Feb. 22.
- Schmidt, Wilhelm, deceased; S. Hoffmann, executor, assignor to Schmidt'sche Heissdampf G. m. b. H., Cassel-Wilhelmshohe, Germany. Steam-power plant for submarines. 1,635,561; July 12.
- Schmidt, Wilhelm, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmshohe, Germany. Power plant for warships. 1,632,925; June 21.
- Schmidt, William F., assignor to The All-Metal Products Company, Wyandotte, Mich. Spring gun. 1,633,795; June 28.
- Schmidt, Willy. (See Thiel, A., and Schmidt.)
- Schmidt'sche Heissdampf G. m. b. H. (See Hartmann, O. H., and Wempe, assignors.)
- Schmidt'sche Heissdampf G. m. b. H. (See Schmidt, Wilhelm, assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Franke, Hermann, assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Hartmann, Otto, assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Hartmann, O. H., and Hermanuz, assignors.)

- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Schmidt, Wilhelm, assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Thomsen, Peter, assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Wempe, Friedrich, assignor.)
- Schneidebeck, Victor B., Louisville, Ky. Bath appliance. 1,689,705; Aug. 23.
- Schmiege, Frank F., Appleton, Wis. Electrical stop mechanism for looms. 1,620,836; Mar. 15.
- Schmiege, Frank F., Appleton, Wis. Wire-seaming machine. 1,646,709; Oct. 25.
- Schmitt, Arthur J. (See Orlow, Ernest M., assignor.)
- Schmitt, Charles J., Algoma, Wis. Composite table top. 1,641,055; Aug. 30.
- Schmitt, Eduard, assignor to C. G. Haubold, A. G., Chemnitz, Germany. Roller and drum. 1,618,554; Feb. 22.
- Schmitt, Frank R., Brooklyn, N. Y., assignor to American Machine and Foundry Company. Shelling coconuts. 1,626,361; Apr. 26.
- Schmitt, Frank R., New York, N. Y. Machine for coating labels, etc., with adhesive or a similar substance. 1,640,219; Aug. 23.
- Schmitt, Henry C., Emsworth Borough, assignor of one-half to W. M. Young, Avalon, Pa. Air moistening and cleaning device. 1,626,159; Apr. 26.
- Schmitt, Henry J., and J. Little, Omaha, Nebr. Automobile lifting jack. 1,622,352; Mar. 29.
- Schmitt, John A., Columbus, Ohio, assignor to The Universal Milling Machine Company, Waukesha, Wis. Pulsator. 1,647,971; Nov. 1.
- Schmitt, Nicholas, Niederlossnitz, Germany. Manufacturing water-tight electric fuses. 1,614,210; Jan. 11.
- Schmitt, Otto, Schonbeck, Germany. Apparatus for making electrical mine igniters. 1,639,311; Aug. 16.
- Schmitt, Otto G., assignor to The Scholl Mfg. Co., Chicago, Ill. Making corn plasters. 1,637,623; Aug. 2.
- Schmitt, Otto G., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill. Corn-plaster machine. 1,637,624; Aug. 2.
- Schmitt, Robert. (See Zitscher, A., and Schmitt.)
- Schmitt, William A., Meredosia, Ill. Puller. 1,650,964; Nov. 29.
- Schnitz, Alwin, Erfurt, Germany. Press for pressing hollow bronze objects. 1,629,417; May 17.
- Schnitz, Fred A., Cleveland, Ohio. Tappet-clearance gauge. 1,649,259; Nov. 15.
- Schnitz, William, assignor to C. R. Whiting Co., Newark, N. J. Lining paper or similar article. Des. 72,530; Apr. 26.
- Schnob, Alfred C., Beaver Falls, assignor to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Dump car. 1,642,750; Sept. 20.
- Schnolze, Mildred C., assignor to Franklin Simon & Co., Inc., New York, N. Y. Sewing machine. Des. 74,155; Dec. 27.
- Schnuck, Philip A., Tulsa, Okla. Swivel rope socket. 1,641,696; Sept. 6.
- Schnabel Company, The. (See Schnabel, Paul R., assignor.)
- Schnabel, John, Hampton, Iowa. Scoop-board latch. 1,617,769; Feb. 15.
- Schnabel, Paul R., Okmont, assignor to The Schnabel Company, Pittsburgh, Pa. Vehicle body. 1,620,494; Mar. 8.
- Schnabl, Emil J., Amberg, Wis. Milking-pail holder. 1,653,972; Dec. 27.
- Schnaier, Milton, New York, N. Y. Apparatus for freezing and molding confections. 1,624,678; Apr. 12.
- Schnaier, Milton, New York, N. Y. Apparatus for freezing and molding confections. 1,624,679; Apr. 12.
- Schnaier, Milton, New York, N. Y. Mold support. 1,628,434; May 10.
- Schnake, August C., Centralia, Ill. Weather strip. 1,629,842; May 24.
- Schnake, August C., Centralia, Ill. Weather strip. 1,642,716; Sept. 13.
- Schnake, August C., Centralia, Ill. Weather strip. 1,642,717; Sept. 13.
- Schnath, Heinrich, assignor to the Firm Kuxmann & Co., Komm.-Akt.-Ges., Bielefeld, Germany. Machine for spreading artificial manure. 1,632,199; June 14.
- Schneclark, Emil, Akron, assignor to The Falls Rubber Company, Cuyahoga Falls, Ohio. Building drum for the manufacture of tire beads. 1,618,131; Feb. 15.
- Schneider, William A., Glen Ridge, N. J. Clothes wringer. 1,643,643; Sept. 27.
- Schneeweiss, Sigmund. (See Ermentraut, Charles J., assignor.)
- Schneegenburger, Günther, Berlin-Halensee, Germany. Pump with cam-controlled plungers. 1,612,888; Jan. 4.
- Schneider, Adolf, assignor to Niederbayerische Cellulosewerke, Kelheim-on-the-Danube, Germany. Apparatus for vaporizing liquids. 1,624,014; Apr. 12.
- Schneider, Alexander M., assignor to G. Sperling, New York, N. Y. Undergarment. 1,630,315; May 31.
- Schneider, Alexander M., assignor to G. Sperling, New York, N. Y. Nether garment. 1,633,610; June 28.
- Schneider, Carl F., Chicago, Ill. Fishing apparatus. 1,632,566; June 14.
- Schneider, Charles L., and H. C. Fruehauf, assignors to Fruehauf Trailer Company, Detroit, Mich. Trailer. 1,613,728; Jan. 11.
- Schneider, Charles T., deceased; L. Schneider, administratrix, assignor of one-half to Thomas Siderits, Milwaukee, Wis. Door hanger. 1,657,976; Nov. 1.
- Schneider, Christian L., Davenport, Iowa. Sash-weight support. 1,649,861; Nov. 22.
- Schneider & Cie. (See Methlin, Nicolas E., assignor.)
- Schneider & Cie. (See Schneider, Eugene, assignor.)
- Schneider & Cie., et al. (See Schneider, Eugene, assignor.)
- Schneider, Edward, St. Paul, Minn. Fastening device for gas-main sweat plugs. 1,639,150; Aug. 16.
- Schneider, Edward A., New York, N. Y., and M. Hertz, Stamford, Conn. Spark plug. 1,046,318; Oct. 18.
- Schneider, Eugene, assignor to Schneider & Cie. and J. L. Routin, Paris, France. Apparatus for controlling the firing against aerial objectives. 1,616,734; Sept. 6.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Transmitting apparatus utilizing the principle of the Wheatstone bridge. 1,626,560; Apr. 26.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Apparatus for gun mounting, laying, and sighting for artillery on aeroplanes. 1,638,962; Aug. 16.
- Schneider, Ferdinand, Miami, Fla. Safety sewer outlet. 1,631,473; Dec. 6.
- Schneider, Franklin, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Portable hand tool. 1,634,801; July 5.
- Schneider, Franklin, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Portable hand tool. 1,650,911; Nov. 29.
- Schneider, Heinrich, Lenzburg, Switzerland. Spinning-machine spindle. 1,613,247; Jan. 4.
- Schneider, Heinrich, Illnau, Switzerland. Valve member for two-stroke-cycle internal-combustion engines. 1,616,993; Feb. 8.
- Schneider, Heinrich, Lenzburg, Switzerland. Doffing mechanism for spinning, twisting, and like machines. 1,622,292; Nov. 29.
- Schneider, Heinrich and F. Rahn, assignors to the Firm: C. H. Boehringer Sohn Chemische Fabrik, Niederlehelim-on-the-Rhine, Germany. Baking powder. 1,641,013; Aug. 30.
- Schneider, Herman L., Chicago, Ill. Carpet and rug beating apparatus. 1,636,157; July 19.
- Schneider, Hermann. (See Straub, F. and Schneider.)
- Schneider, John J. (See Ewald, Martin B., assignor.)
- Schneider, John L., Charles City, Iowa. Oil holder. 1,620,294; Mar. 8.
- Schneider, Julius, Omaha, Nebr. Garment. 1,648,282; Nov. 5.
- Schneider, Laurence A., assignor to Canton Forge & Axle Company, Canton, Ohio. Apparatus for manufacturing rail anchors. 1,644,233; Oct. 4.
- Schneider Leopold E., Galena, Ill. Sanitary bedbug trap. 1,614,157; Jan. 11.
- Schneider, Louise, administratrix. (See Schneider, Charles T.)
- Schneider, Murray. (See Rosenblum, H., and Schneider.)
- Schneider, Newton H., Salinas, Calif. Acid-resisting compound. 1,638,709; Aug. 9.
- Schneider, Newton H., Salinas, Calif. Acid-resisting compound for treatment of hands. 1,649,326; Nov. 15.
- Schneider, Rudolph, assignor to Busch Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. Cylinder and head construction. 1,622,813; Mar. 29.
- Schneider, Rudolph, assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. Engine bedplate. 1,626,760; May 3.
- Schneider, William C., Verdun, Nebr. Baby's chair. 1,647,200; Nov. 1.
- Schneider, William G., Camden, N. J. Container cover. 1,625,835; Apr. 19.
- Schneider, William G., Toledo, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition coil. 1,647,417; Nov. 1.
- Schneider, William H., Freeport, N. Y. Railway-track joint. 1,630,584; May 31.
- Schneider, William H., assignor to A. C. Kootz, Milwaukee, Wis. Dies. 1,617,547; Feb. 15.
- Schnell, Ernst O., Chicago, Ill. Pad for hair waving. 1,631,422; Nov. 7.
- Schnell, Julius L., Arlington, N. J. Pen clip or similar article. Des. 73,416; Sept. 6.
- Schnell, William, Detroit, Mich., assignor to Nash Motors Co., Kenosha, Wis. Radiator cap. Des. 71,813; Jan. 4.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Plate for automobile window-regulator handle or similar article. Des. 72,284; Mar. 22.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Window-regulator handle or similar article. Des. 73,624; Oct. 11.
- Schnell, William, assignor, by mesne assignments, to Ternstedt Manufacturing Company, Detroit, Mich. Window-regulator-handle assembly. 1,648,283; Nov. 8.
- Schnellpressenfabrik Aktiengesellschaft Heidelberg. (See Büttner, Arthur, assignor.)
- Schnepf, Emil L., assignor to Scammell China Co., Trenton, N. J. Plate. Des. 72,578; May 3.
- Schnepf, Emil L., assignor to Scammell China Company, Trenton, N. J. Plate. Des. 72,726; May 24.
- Schnepf, Emil L., assignor to Scammell China Co., Trenton, N. J. Plate. Des. 73,104; July 19.
- Schnepf, Louis W. (See Davis, L. F., and Schnepf.)

- Schnepf, Louis W., assignor of one-half to L. F. Davis, Huntington Beach, Calif. Water heater, 1,616,143; Feb. 1.
- Schnepf, Louis W., Huntington Beach, assignor to First National Bank of Anaheim, trustee for Snap-O-Stat Company, Anaheim, Calif. Thermostatic valve, 1,617,548; Feb. 15.
- Schnepf, Louis W., Huntington Beach, assignor to First National Bank of Anaheim, trustee for Snap-O-Stat Company, Anaheim, Calif. Thermostatic valve, 1,633,908; June 28.
- Schnieber, Anna M. S., Copenhagen, Denmark. Stocking and sock, 1,640,255; Aug. 23.
- Schneider, Ann B. (See Mumaw, J. H., Schneiders, and Haas.)
- Schnitzer, William E., Garden Grove, Calif. Tractor hitch, 1,632,509; June 14.
- Schnitzer, Beno, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Device for cargo and transportation of airships, 1,637,789; Aug. 2.
- Schnitzer, Abraham, Chelsea, Mass. Shifting jack for motor vehicles, 1,626,630; May 3.
- Schnoor, Raymond D., Maywood, assignor, by mesne assignments, to The Norlipp Company, Chicago, Ill. Radiator-catchback device, 1,650,805; Nov. 29.
- Schnormeyer, Paul H., Hubbard, Iowa. Illuminated sign, 1,649,547; Nov. 15.
- Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
- Schnur, Jacob. (See Schnur, J. M., Kesselring, Schnur, and Jonick.)
- Schnur, Joseph, F. Kesselring, J. Schnur, and S. Jonick, assignors to K. Schnur as trustee, Chicago, Ill. Carton-feeding machine, 1,625,057; Apr. 19.
- Schnur, Katherine, trustee. (See Schnur, J. M., Kesselring, Schnur, and Jonick, assignors.)
- Schneider, Johann, assignor to Firm, Actiengesellschaft der Maschinenfabrik von Heber, Bell & Cie, Kriens, Luzern, Switzerland. Rotary valve for pipe lines, 1,646,631; Oct. 25.
- Schobert, George A., assignor to Hartmann Trunk Company, Racine, Wis. Trunk-locking device, 1,649,982; Nov. 22.
- Schochrone, Carl J., Cleveland, Ohio. Smoke-treating apparatus, 1,641,995; Sept. 19.
- Schock, Clarence, Mount Joy, Pa. Gasoline-dispensing system, 1,633,458; June 21.
- Schock, Clarence, Mount Joy, Pa. System for dispensing gasoline from underground storage tanks, 1,633,459; June 21.
- Schock, Godfried, Cleveland, Ohio. Automobile direction signal, 1,621,338; Mar. 15.
- Schoedinger, F. O. (See Conrad, Isiah, assignor.)
- Schoedinger, F. O. (See Morey, W. W., and Armstrong, assignors.)
- Schoel, Louis. (See Heath, K. L., and Schoel.)
- Schoeleman, Ferdinand H., Keystone, Iowa. Luggage carrier, 1,633,497; June 21.
- Schoeller, Alfred, Frankfurt-on-the-Main, Germany. Electric cigar lighter, 1,622,263; Mar. 22.
- Schoeller, Walter. (See Feldt, A., Schoeller, and Borgwardt.)
- Schoeller, Walter, and M. Gehrke, assignors to the Firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pharmaceutical product containing arsenic and making same, 1,616,144; Feb. 1.
- Schoeller, Walter, and M. Gehrke, assignors to the Firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pharmaceutical product containing arsenic and making same, 1,642,830; Sept. 20.
- Schoellkopf, Jacob F., Dallas, Tex. Horse collar, 1,647,151; Nov. 1.
- Schoen, Karl, Wuerzburg, Germany. Knockdown cofferdam, 1,633,131; June 21.
- Schoenegg, Anton A., San Francisco, Calif. Rice separator, 1,640,010; Aug. 23.
- Schoenfeld, Joseph, Alameda, assignor to The Magnavox Company, San Francisco, Calif. Electric heater, 1,649,421; Nov. 15.
- Schoenfeld, Joseph, Alameda, assignor to The Magnavox Company, San Francisco, Calif. Combination radiant and convection heater, 1,652,686; Dec. 13.
- Schoenhofer, Robert, Brunswick, Germany. Preparing a material for the manufacture of artificial stone and other stone or rock products, 1,633,132; June 21.
- Schoenholz, Irving. (See McCabe, C. J., and Schoenholz.)
- Schoenke, Walter, Lichterfelde, near Berlin, Germany. Appliance for practicing riding sport, 1,619,438; Mar. 1.
- Schoenrock, Otto R., Chicago, Ill., assignor to International Harvester Company. Throttle-valve control means, 1,630,470; Aug. 16.
- Schoenthal, Fred C., Buffalo, N. Y., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Wheel, 1,638,646; Aug. 9.
- Schoenthal, Fred C., Buffalo, N. Y., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Disk wheel, 1,649,373; Aug. 30.
- Schoenthal, Fred C., Buffalo, N. Y., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Disk wheel, 1,652,735; Dec. 13.
- Schoenewitz, William F., Rochester, N. Y. Cooking utensil, 1,619,159; Mar. 1.
- Schoenwerk, Otto C., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Tool for mounting disk wheels, 1,649,180; Nov. 15.
- Schoenwolf, Fred, Chicago, assignor, by mesne assignments, to C. B. Camp, trustee, Oak Park, Ill. Carburetor, 1,649,260; Nov. 15.
- Schofield, Joe. (See Heesch, H. W., and Schofield.)
- Schofer, William H., Aurora, Ill. Stenciling apparatus, 1,619,587; Mar. 1.
- Scholer, Gustav, New York, N. Y. Fire escape, 1,629,541; May 24.
- Scholes, Daniel R., Chicago, Ill., assignor to Aeromotor Company, Chicago, Ill. Post, 1,630,804; May 31.
- Scholes, Richard T., Hinsdale, Ill. Rail anchor, 1,615,813; Jan. 25.
- Scholes, Richard T., Hinsdale, Ill. Tie plate, 1,626,631; May 3.
- Scholes, Richard T., Hinsdale, Ill. Rail joint, 1,636,442; July 19.
- Scholl, Heinrich, Pforzheim, Germany. Foldable comb, 1,636,870; July 26.
- Scholl Mfg. Co., The. (See Schmitt, Otto G., assignor.)
- Scholl, William T., Oakland City, Ind. Oral kit, 1,624,019; Apr. 12.
- Scholler, Heinrich. (See Meiler, L., and Scholler.)
- Schollner, Louis, Fresno, Calif. Motor-vehicle lift, 1,647,935; Nov. 1.
- Schollhorn, William, Company, The. (See Bernard, William A., assignor.)
- Schollkopf, Karl, assignor to Rheinische Kampfer-Fabrik Gesellschaft mit beschränkter Haftung, Dusseldorf-Oberkassel, Germany. Manufacture of menthol, 1,625,771; Apr. 19.
- Schollkopf, Karl, assignor to Rheinische Kampfer-Fabrik Gesellschaft mit beschränkter Haftung, Dusseldorf-Oberkassel, Germany. Manufacturing menthol, 1,629,002; May 17.
- Scholly, Frank C., Philadelphia, Pa. Ball, 1,629,364; May 17.
- Scholten, George W., Muscatine, Iowa. Ham presser, 1,624,808; Apr. 12.
- Scholtz, John, and G. W. Sunday, Philadelphia, Pa. Variable condenser, 1,614,902; Jan. 18.
- Scholz, Frank. (See Sander, Albert, assignor.)
- Schombourger, Lucien, Paris, France, assignor to General Electric Company. Speed-control system, 1,632,627; June 14.
- Schommers, Nicholas. (See Stremel, Joseph, assignor.)
- Schon, Lester. (See Schoenberg, M. H., and Schon.)
- Schonfeld, David H., Fresno, Calif. Combination puller, 1,629,008; May 17.
- Schonhoff, John H., Advance, Mo. Mower-pitman connection, 1,640,058; Aug. 23.
- Schoor, Ralph T., Dodge City, Kans. Pocket postal scale, 1,626,976; May 3.
- Schooley, Claude O., Perth Amboy, N. J., assignor to Standard Underground Cable Company, Pittsburgh, Pa. Cable reel, 1,625,503; Apr. 19.
- Schooley, James E. (See Prince, J. E., and Schooley.)
- Schoonenberg, Pancras, assignor to Naamloze Vennotsche Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Continuous manufacture of glass tubes or rods, 1,637,458; Aug. 2.
- Schoonenberg, Pancras, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Glass-manufacturing machine and method, 1,642,312; Sept. 13.
- Schoonmaker, Charles F. (See Jacobs, E. H., and Schoonmaker.)
- Schoop, Max U., Zurich, Switzerland. Device for coating articles with glass, enamel, quartz, and metals, 1,617,166; Feb. 8.
- Schopper, Alfred, Leipzig, Germany. Testing of mechanical strength, 1,637,011; July 26.
- Schor, Joseph. (See Kidridge, J., and Schor.)
- Schorer, Arlie W., Madison, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn. Gelatinizing wood, 1,631,834; June 7.
- Schorger, Arlie W., Madison, Wis., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Vehicle core, 1,649,983; Nov. 22.
- Schorer, Arlie W., Madison, Wis., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Roofing felt, 1,649,984; Nov. 22.
- Schorr, Herman E. (See Gibson, A. R., and Schorr.)
- Schorsch, Ludwig, Goerkan, Czechoslovakia. Lap machine, 1,642,178; Sept. 13.
- Schousen, Arthur, West Somerville, Mass. Boot or shoe form, 1,632,044; June 14.
- Schott & Gen. (See Herschkowitsch, M., and Prausnitz, assignors.)
- Schott, Henry, Longmeadow, Mass. Refrigerator, 1,633,231; June 21.
- Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Urn, Dvs. 72,872; June 14.
- Schott, John T. (See Shackleton, S. P., and Schott.)
- Schott, Robert C., Brooklyn, N. Y., and A. J. A. Peterson, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Demand-limiting resistor, 1,647,318; Nov. 1.
- Schotter, Josef. (See Rinner, Johann J., assignor.)
- Schottky, Walter, Wurzburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Intermediate electrode in incandescent cathode tube, 1,612,835; Jan. 4.

- Schottland, Abraham, Paterson, N. J. Self-threading shuttle. 1,615,314; Jan. 25.
- Schrack, Eduard, Vienna, Austria. Grid for electron-discharge tubes. 1,654,471; Dec. 27.
- Schrade, George, Bridgeport, Conn. Ink eraser. 1,634,120; June 28.
- Schrader, Carl C., Hughson, Calif. Marker block. 1,629,053; May 17.
- Schrader, Ernest C., assignor to Economy Glass Company, Morgantown, W. Va. Goblet or similar article. Des. 72,968; June 28.
- Schrader, Ernest C., assignor to Economy Glass Company, Morgantown, W. Va. Tumbler or similar article of glassware. Des. 73,511; Sept. 20.
- Schrader, Gustave C., Forest Hills, assignor to H. I. Bernhard, New York, N. Y. Distributing fertilizer in soluble condition. 1,650,768; May 31.
- Schrader, Herbert, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Header for pails. 1,636,839; July 26.
- Schrader, Herbert, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Sanitary can. 1,650,572; Nov. 22.
- Schrader, Thomas O., Allentown, assignor to The Dent Hardware Company, Fullerton, Pa. Door closer. 1,617,771; Feb. 15.
- Schrader, Thomas O., Allentown, assignor to Dent Hardware Co., Fullerton, Pa. Latch device for refrigerator doors. 1,642,512; Sept. 13.
- Schrader's, A. S. Sider, Inc. (See Cole, Philip G., assignor.)
- Schrader's, A. Son, Inc. (See Wahl, J., and Melzer, assignors.)
- Schraegle, August F. (See Geiger, E. A., Schraegle, and Jennings.)
- Schrag, Joseph, Jr., Mound Ridge, Kans. Combined grain and hay stacker. 1,636,650; July 19.
- Schrag, Joseph L., Odessa, Wash. Multiple-section grain drill. 1,617,967; Feb. 15.
- Schrage, Hidde, Paris, France, assignor to General Electric Company. Brush-shifting device for alternating-current motors. 1,648,698; Nov. 8.
- Schrage, Hidde K., Paris, France, assignor to General Electric Company. Dynamo-electric machine. 1,632,628; June 14.
- Schraishuhn, Theodore A., Corapolis, Pa., assignor to Lewis Foundry & Machine Company. Rolling mill. 1,638,463; Aug. 9.
- Schralter's, A. Son, Incorporated. (See McPherson, Harry L., assignor.)
- Schram, Alexander L., Hillsboro, Ill., assignor, by mesne assignments, to Ball Brothers Company, Muncie, Ind. Drop-feeding device. 1,634,560; July 5.
- Schram, Alexander L., Hillsboro, Ill., assignor to Ball Brothers Company, Muncie, Ind. Reinforced plunger and making same. 1,635,439; July 12.
- Schramm, Albert A., Chicago, Ill. Stuffing box. 1,617,549; Feb. 15.
- Schramm, Carl, West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Grinding machine. 1,617,167; Feb. 8.
- Schramm, Carl, West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Relieving mechanism. 1,617,168; Feb. 8.
- Schramm, Carl, West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Centering machine. 1,622,673; Mar. 29.
- Schramm, Carl, West Hartford, and P. F. Vokal, Hartford, Conn., assignors to Pratt & Whitney Company, New York, N. Y. Driving connection. 1,634,386; July 5.
- Schramm, Hans. (See Mattenklodt, K., and Schramm.)
- Schramm, Walter J., Chicago, Ill. Ticket case. 1,620,295; Mar. 8.
- Schranz, Karl. (See Kayser, F., and Schranz.)
- Schranz, Karl, Elberfeld, and C. Lutter, Barmen-Langerfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. 1-methoxymethyl-3,7-dimethoxyxanthine. 1,616,282; Feb. 19.
- Schraysschen, Carl, assignor to Speidel Chain Co., Providence, R. I. Display card. 1,639,672; Aug. 23.
- Schreiber, Albert, Champaign, Ill. Mop. 1,618,891; Feb. 22.
- Schreiber, Allen B., St. Joseph, Mo. Stock-feed compound. 1,638,963; Aug. 16.
- Schreiber, Allen B., St. Joseph, Mo. Producing animal feed. 1,638,964; Aug. 16.
- Schreiber, Frederick T., Ocala, Fla. Movable seat. 1,636,073; July 19.
- Schreiber, John S., St. Louis, Mo. Sewing machine. 1,613,737; Jan. 11.
- Schreiber Products Corporation. (See Bredemeier, Henry E., assignor.)
- Schreibler, Sigmond, Pittsburgh, Pa. Dispensing apparatus. 1,631,430; June 7.
- Schreibler, Sigmond, Pittsburgh, Pa. Condiment container. 1,652,585; Dec. 13.
- Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Noncorrosive alcohol composition. 1,618,808; Jan. 11.
- Schreier, Arthur, Vienna, Austria, assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Process and material for sterilization of liquids. 1,642,089; Sept. 13.
- Schriner, Charles F., Cleveland, Ohio. Bushing for metal receptacles. 1,644,153; Oct. 4.
- Schriner, Charles F., Cleveland, Ohio. Bushing for metal receptacles. 1,644,154; Oct. 4.
- Schreiner, John, assignor to Paul W. Koch & Company, Chicago, Ill. Saw. 1,627,622; May 10.
- Schreiner, Marcel, New York, N. Y. Whirling toy. 1,613,331; Jan. 4.
- Schrempf, Edward J., Rochester, N. Y. Pressing machine for garments and the like. 1,631,770; June 7.
- Schrimp, John A., Los Angeles, Calif. Illuminated aquarium. 1,634,305; July 5.
- Schrock, Charles L., Pasadena, Calif., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tool for placing washers in rubber heels. 1,639,312; Aug. 16.
- Schröder, Edmund, Berlin, Germany, assignor to the Firm Braun-Brüning & Co., Basel, Switzerland. Electrode-operating means for welding machines. 1,617,770; Feb. 15.
- Schröder, Edward J., Lowell, Ind. Variable condenser. 1,631,226; June 7.
- Schröder, Herman, Capron, Okla. Steering device. 1,620,237; Mar. 8.
- Schröder, Hugo L. (See Stoll, H. C., and Schröder.)
- Schröder, Paul, Stuttgart, Germany, assignor to Excalum Corporation. Airship. 1,653,603; Dec. 20.
- Schröder, Paul, Stuttgart, Germany, assignor to Excalum Corporation. Condenser for airships. 1,653,604; Dec. 20.
- Schröder, Peter. (See Plauson, H., and Schröder.)
- Schröder, William, Covington, Ky., assignor to The Sebastian Lathe Company, Cincinnati, Ohio. Fastening device. 1,624,766; Apr. 12.
- Schroeder, Albert, Piqua, Ohio. Street-cleaning machine. 1,615,348; Jan. 25.
- Schroeder, Albert, Piqua, Ohio. Street-cleaning machine. 1,615,349; May 31.
- Schroeder, Alfred. (See Benniger, John, assignor.)
- Schroeder, Anthony, et al. (See Rieke, Theodore W., assignor.)
- Schroeder, Anthony, assignor of one-half to J. M. Finney, Cleveland, Ohio. Machine for making containers. 1,635,508; July 12.
- Schroeder, Arthur C., Syracuse, N. Y., assignor of one-half to R. B. Bretz, El Reno, Okla. Distributor for ignition systems. 1,647,667; Nov. 1.
- Schroeder, Bernhard, assignor to Sargent & Lundy Incorporated, Chicago, Ill. Steam-power system. 1,625,336; Apr. 13.
- Schroeder, Carl A. (See Wakefield, F. W., Basli, and Schroeder.)
- Schroeder, Charles S., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Industrial machine. 1,648,325; Nov. 8.
- Schroeder, Ernest R., Hawthorne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Brake mechanism. 1,616,599; Feb. 8.
- Schroeder, Louis H., Woodhaven, assignor to Progressive Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Slitting and scoring machine. 1,636,193; July 19.
- Schroeder, Oscar C., Chicago, Ill. Jump-spark igniter for oil burners, etc. 1,614,692; Jan. 18.
- Schroeder, Paul. (See Schepper, A., and Schroeder.)
- Schroeder, Rex O., and G. Forslund, Yankton, S. Dak. Chicken feeder. 1,637,132; July 26.
- Schroeder, Eugene W., Chicago, Ill. Fuel consumption indicator. 1,641,295; Sept. 6.
- Schroeder, Simon E., Oak Park, Ill. Safety wringer mechanism. 1,623,707; Apr. 5.
- Schroeder, Simon E., Oak Park, Ill. Wringer. 1,624,073; Apr. 12.
- Schroeder, Simon E., Newton, Iowa. Washing-machine tub. 1,627,931; May 10.
- Schroeder, Simon E., Oak Park, Ill. Wringer. 1,644,040; Oct. 4.
- Schroeder, Simon E., Newton, Iowa. Wringer construction. 1,644,041; Oct. 4.
- Schroeder, Simon E., Oak Park, Ill. Wringer. 1,645,160; Oct. 11.
- Schroeder, Simon E., Newton, Iowa. Wringer. 1,645,161; Oct. 11.
- Schroeder, Simon E., Newton, Iowa. Wringer. 1,645,297; Oct. 11.
- Schroeder, Simon E., Newton, Iowa. Wringer construction. 1,646,601; Oct. 25.
- Schroeder, Simon E., assignor of one-half to One Minute Manufacturing Company, Newton, Iowa. Agitator for washing machine. 1,619,637; Mar. 1.
- Schroepfer, Frank A., Topeka, Kans. Chalk-line holder and holding device. 1,649,747; Nov. 15.
- Schroeter, John F., Atlanta, Ga. Automatic clamping device for paper-cutting and other machines. 1,640,965; Aug. 30.
- Schroter, George A., Denver, Colo. Dewatering pump. 1,635,058; Apr. 19.
- Schrott, Robert W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Grinding gears. 1,633,958; June 28.
- Schroyer, Charles T., Sioux Falls, S. Dak., and E. C. Dessem, Worthington, Minn. Clamping device. 1,642,020; Nov. 22.
- Schroyer, Martin, Brownsville, Pa. Attachment for track drills. 1,613,809; Jan. 11.
- Schrum, Peter J., Monaca Heights, assignor to Colona Manufacturing Company, Pittsburgh, Pa. Apparatus for forming thread protectors. 1,651,231; Nov. 29.

- Schruth, Albert E., E. and J., Pepin, Wis. Draft equalizer. 1,646,768; Oct. 25.
- Schruth, Edward. (See Schruth, Albert E., E. and J.)
- Schruth, John. (See Schruth, Albert E., E. and J.)
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Manufacture of artificial silk. 1,619,768; Mar. 1.
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Apparatus for use in the manufacture of artificial silk. 1,619,769; Mar. 1.
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Collapsible reel for winding filaments, yarns, threads, silks, and the like. 1,631,431; June 7.
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Manufacture of artificial silk. 1,631,435; June 7.
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Variable-capacity pump. 1,638,367; Aug. 9.
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Treating apparatus. 1,651,220; Nov. 29.
- Schubert, Paul G. F., Dresden, Germany. Container, especially canister, for automobile driving liquids. 1,654,144; Dec. 27.
- Schubert & Salzer Maschinenfabrik Aktiengesellschaft. (See Masbrens, Estelien, assignor.)
- Schuch, G. M. et al. (See Akbar, Victor E., assignor.)
- Schuck, Anthony G., Los Angeles, Calif. Ventilating apparatus. 1,624,016; Apr. 12.
- Schucker, Karl A., Pforzheim, Germany. Hearing shell. 1,640,908; Aug. 30.
- Schuchter, August. (See Wynd, L. A. and Schueler.)
- Schueler, Julian L., Peoria, Ill. Making basic open-hearth steel. 1,628,281; May 10.
- Schuelke, Edgar F., Alta, Iowa. Milk-pail support. 1,652,586; Dec. 13.
- Schuelke, Emil A. (See Ross, J. and Schuelke.)
- Schuelke, Emil A. and J. B., assignors to The Napier Co., Meriden, Conn. Vanity box. 1,654,271; Dec. 27.
- Schueler, Casper B., Berkeley, Calif. Gyroscopic stabilizer. 1,621,815; Mar. 22.
- Schuermann, Anton C. (See Mueller, P., and Schuermann.)
- Schuermann, Helena, executrix. (See Mueller, P., and Schuermann.)
- Schuessler, William J., assignor to Cummings Vote Register Corporation, Knox, Ind. Voting machine. 1,614,320; Jan. 11.
- Schuetz, Henry J., Quincy, Ill. Vehicle bumper. 1,636,248; July 19.
- Schuetz-Lanz Luftfahrzeugbau- und Betriebs. G. m. b. H. (See Weiss, G., and Gentzke, assignors.)
- Schuetz, Thomas J., Tulsa, Okla. Braking mechanism for motor vehicles. 1,642,898; Sept. 20.
- Schuetz, Thomas J., Tulsa, Okla. Attachment for motor vehicles. 1,645,162; Oct. 1.
- Schuetz, Thomas J., assignor to Braden Steel & Winch Company, Tulsa, Okla. Take-up reel. 1,631,432; June 7.
- Schuffenhauer, Arthur E., Chicago, Ill. Radiotube-holding device. 1,633,041; June 21.
- Schufftan, Eugen, Berlin-Wilmersdorf, Germany. Apparatus for composite cinematography. 1,613,201; Jan. 4.
- Schufftan, Eugen, Berlin-Wilmersdorf, Germany. Apparatus for making composite motion pictures. 1,627,295; May 3.
- Schufftan, Eugen, Hollywood, Calif. System of taking photographic and cinematographic pictures. 1,636,112; July 19.
- Schuffan, Richard, Wilmersdorf, near Berlin, Germany. Fastener particularly for bandages. 1,633,681; June 28.
- Schuch, Anton, Vienna, Austria. Sealing means. 1,621,907; Mar. 22.
- Schuld, Otto J., Madison, S. Dak. Corn-snapping roller. 1,647,936; Nov. 1.
- Schule, Frederick W., Bloomfield, and C. W. Hunt, South Orange, N. J., assignors to Westinghouse Lamp Company. Method and apparatus for preventing slippage of coil-wound mandrels. 1,651,413; Dec. 6.
- Schulemann, Werner. (See Lieske, R., Schulemann, and Bonrath.)
- Schulenberg, Frederick H., Lima, Ohio. Hydrocarbon burner. 1,625,162; Apr. 19.
- Schuler, John G., Dutton, Mont. Engine-ignition lock. 1,639,354; Aug. 16.
- Schuler, Max, Göttingen, Germany. Electric connecting system for the purposes of telecontrol. 1,648,915; Nov. 15.
- Schulert, Paul A., Ferndale, Mich. Refuse receptacle. 1,648,065; Nov. 8.
- Schull, Leopold, Vienna, Austria. Arrangement for disengaging the friction coupling of eccentric presses. 1,616,880; Feb. 8.
- Schull, Leopold, Vienna, Austria. Driving mechanism for presses. 1,618,479; Feb. 22.
- Schuller, Carl G. (See Pryor, W. J., and Schuller.)
- Schuller, Carl G., Brecksville, Ohio. Rotary cutting tool. 1,636,577; July 19.
- Schulman, Solomon, New York, N. Y., assignor to Labor Saving Appliance Corp. Mop wringer. 1,652,800; Dec. 13.
- Schuloff, Robert, Aussig-on-the-Elbe, Czechoslovakia, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Bodies of desensitizing. (See Neimeier, W., and Schult.)
- Schulte, Fritz. (See Herz, R., and Schulte.)
- Schulteis, William F., Los Angeles, Calif. Diversion valve. 1,640,726; Aug. 30.
- Schultz, Abraham J., Newark, N. J. Bedstead corner lock. 1,634,306; July 5.
- Schultz, Adelbert W. R., Clarion, Iowa. Quick-change pump-rod connection. 1,642,464; Sept. 13.
- Schultz, Adelbert W. R., Clarion, Iowa. Cream-can aerator. 1,643,322; Sept. 27.
- Schultz, Arthur F. (See Hodge, C. H., and Schultz.)
- Schultz, August E. (See Jahr, Arthur A., assignor.)
- Schultz, August E., assignor of one-half to A. A. Jahr, Park, Ill. Railway bumping post. 1,629,124; May 17.
- Schultz, August L., assignor to The American Multigraph Company, Cleveland, Ohio. Addressing machine. 1,646,220; Oct. 18.
- Schultz, Charles H., Chicago, Ill. Thermometer. 1,638,276; Aug. 9.
- Schultz, Edward, Chicago, Ill. Combination standard and tray for a combined floor lamp and smoking stand. Des. 73,446; Sept. 13.
- Schultz, Edward, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Combined floor lamp and smoking stand. Des. 72,285; Mar. 22.
- Schultz, Edward, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Smoking stand. Des. 72,286; Mar. 22.
- Schultz, Edward, Chicago, Ill., assignor to J. B. Ladd, Des Moines, Iowa. Caster. 1,634,631; July 5.
- Schultz, Edward, assignor to (Mrs.) E. A. Laughery, Chicago, Ill. Coin-operated vending machine. 1,638,413; Aug. 9.
- Schultz, Edward, Chicago, Ill., assignor to J. B. Ladd, Des Moines, Iowa. Caster wheel. 1,639,860; Aug. 23.
- Schultz, Edward, Maywood, Ill., assignor to American Coin Company, New York, N. Y. Coin bank. 1,648,425; Nov. 8.
- Schultz, Edward P., Brooklyn, N. Y. Universal joint. 1,648,624; Nov. 8.
- Schultz, Ernest, East Melbourne, Victoria, Australia. Resilient wheel. 1,630,865; May 31.
- Schultz, Frank A., assignor to Pelouze Manufacturing Co., Chicago, Ill. Scale casing. Des. 72,969; June 28.
- Schultz, Frederick B. (See McPherson, D., and Schultz.)
- Schultz, H., and Company. (See Tackle, Louis, assignor.)
- Schultz, H., and Company. (See Wagner, Frederick P., jr., assignor.)
- Schultz, Hermann, Lankwitz, near Berlin, Germany, assignor to Metal & Thermit Corporation, Carteret, N. J. Rail clamp. 1,644,358; Oct. 4.
- Schultz, Herman A., Chicago, assignor to C. E. Reed, township of McHenry, Ill. Copying lathe. 1,623,638; Apr. 5.
- Schultz, Herman A., Chicago, Ill., assignor to C. E. Reed. Copying lathe. 1,638,511; Aug. 9.
- Schultz, Herman J., assignor to W. F. Hall Printing Co., Chicago, Ill. Printing press. 1,617,608; Feb. 15.
- Schultz, J. W. (See Springfield, W. E., and Frazier, assignors.)
- Schultz, John. (See Hailo, F., and Schultz.)
- Schultz, John L., assignor to American Engineering Company, Philadelphia, Pa. Protective curtain for furnaces. 1,638,004; Aug. 2.
- Schultz, John M., Waukegan, Wis. Cleaning machine. 1,622,166; Mar. 22.
- Schultz, Louis. (See Fraser, M. E., and Schultz.)
- Schultz, Willi. (See Kubierschky, K., and Schultz.)
- Schultz, Albert E., assignor to Dextale Hosiery Mills, Lansdale, Pa. Knitting machine. 1,622,976; Mar. 29.
- Schulz, Arthur E. (See Kochendorfer, F. S., and Schulz.)
- Schulz, Arthur E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand holder. 1,612,988; Jan. 4.
- Schulz, Fritz, Königsberg, Germany. Skinning knife. 1,638,883; Aug. 16.
- Schulz, John, Chicago, Ill. Humidifier. 1,640,379; Aug. 30.
- Schulz, Josef, Barmen, Germany. Sheet-metal casing for photographic films. 1,628,558; May 10.
- Schulz, Moritz, Riverside, Ill. Package wrapping. 1,630,542; May 31.
- Schulz, Otto E., assignor of one-half to J. E. Jahraus, Labadie, Mo. Water filter. 1,653,473; Dec. 20.
- Schulz, Paul H., and C. Jensen, assignors to Traffic Control, Inc., Milwaukee, Wis. Illuminated sign or signal. 1,635,863; July 12.

- Schulz, Raymond L., Los Angeles, Calif., assignor to Boehm Surgical Instrument Corporation, Rochester, N. Y. Surgical instrument. 1,643,631; Sept. 27.
- Schulze, Max A. E., Hamburg, Germany. Closure for boxes, trunks, and the like. 1,644,091; Oct. 4.
- Schulze, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator cap. Des. 73,344; Aug. 23.
- Schulze, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Shaft and detachable gear. 1,648,200; Nov. 8.
- Schum, William. (See Schlaupitz, O., and Schum.)
- Schumacher, Conrad. (See Gaisman, H. J., and Schumacher.)
- Schumacher, Earle E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Sintering refractory metals. 1,615,957; Feb. 1.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,613,202; Jan. 4.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,636,443; July 19.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Composition rim for ophthalmic mountings. 1,637,029; July 26.
- Schumacher, Ernst. (See Gerhard, F., and Schumacher.)
- Schumacher, Erwin A. (See Heise, G. W., and Schumacher.)
- Schumacher, Erwin A., Brooklyn, N. Y., assignor to National Carbon Company, Inc. Electrolyte seal and making the same. 1,647,021; Oct. 25.
- Schumacher, John, sr., Los Angeles, Calif. Tilting tray. 1,637,053; July 26.
- Schumacher, John, Los Angeles, Calif. Wall-board edge. 1,653,474; Dec. 20.
- Schumacher, Robert H., Long Beach, Calif., assignor of one-fourth to B. W. Fulghum and one-fourth to E. W. Fulghum, Los Angeles, and one-fourth to W. R. Sadler, San Pedro, Calif. Preservative and forming the same. 1,647,937; Nov. 1.
- Schumaker, Leo J., Dayton, Ohio. Hair curler. 1,649,369; Nov. 15.
- Schumaker, Edward E., Hilbert, Wis. Propeller. 1,651,230; Nov. 29.
- Schuman, Sador, Kansas City, Mo., and B. E. Frank, Johnson County, Kans. Drier. 1,620,577; Mar. 8.
- Schuman, Paul R., Chicago, Ill. Smoking pipe. 1,627,416; May 3.
- Schumann Piano Company. (See Hurst, James D., assignor.)
- Schunemann, Carl, Bremen, Germany. Three-color inkjet rotary printing press. 1,637,713; Aug. 2.
- Schur, Milton O. (See Richter, G. A., and Schur.)
- Schur, Milton O., assignor to Brown Company, Berlin, N. H. Bursting-strength tester for sheet material. 1,618,231; Feb. 22.
- Schur, Milton O., assignor to Brown Company, Berlin, N. H. Method of and mechanism for testing pulp suspensions. 1,653,122; Dec. 20.
- Schur, Raymond, Chicago, Ill. Vacuum-tube socket. 1,628,001; May 10.
- Schurich, Adolph E., Los Angeles, Calif. Football-game apparatus. 1,633,040; June 21.
- Schurich, Jacob H., Philadelphia, Pa., assignor of one-half to W. H. Heise, Los Angeles, Calif. Power transmission for vehicles. 1,627,712; May 10.
- Schurmann, W. A., & Co. (See Schurmann, William A., assignor.)
- Schurmann, William A., assignor to W. A. Schurmann & Co., Inc., Chicago, Ill. Egg carton. 1,634,596; July 5.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Machine for hobbing gears, shafts, and other articles. 1,621,223; Mar. 15.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Finishing gear teeth. 1,642,179; Sept. 13.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Testing apparatus. 1,651,159; Nov. 29.
- Schurr, William H., assignor to Searls Manufacturing Company, Newark, N. J. Fixture support. 1,625,163; Apr. 19.
- Schurtz, Ralph E., Kansas City, Mo. Refrigeration system. 1,627,808; May 10.
- Schusky, William W. (See Casper, George D., assignor.)
- Schussler, Charles, Blue Island, Ill. Car-door opening and closing mechanism. 1,624,680; Apr. 12.
- Schussler Tobacco Machine Company. (See Schussler, Walter H., assignor.)
- Schussler Tobacco Machine Co. Inc., The. (See Schussler, Walter H., assignor.)
- Schussler, Walter H., assignor to The Schussler Tobacco Machine Company, Philadelphia, Pa. Cigar-bunching machine. 1,621,083; Mar. 15.
- Schussler, Walter H., Philadelphia, Pa., assignor to Universal Tobacco Machine Company, Newark, N. J. Cigar-band feeding and moistening machine. 1,634,053; June 28.
- Schussler, Walter H., assignor to The Schussler Tobacco Machine Co. Inc., Philadelphia, Pa. Cigar bunching machine. 1,634,690; July 5.
- Schuster, Carl J., Milwaukee, Wis. Bottle closure. 1,630,805; May 31.
- Schuster, Curt. (See Krannich, W., Krzikalla, and Schuster.)
- Schuster, Diedrich O., and H. H. Gerke, Fort Wayne, Ind. Circuit closer for motor vehicles. 1,641,099; Aug. 30.
- Schuster, Frank, Richmond Hill, N. Y. Electric melting pot. 1,623,209; Apr. 5.
- Schuster, Karl H., Hopatcong, N. J. Concrete mixer. 1,633,682; June 28.
- Schuster, Martin B., trustee. (See Darlington, H. T., and Steffen, assignors.)
- Schutte, August E., Northboro, Mass. Roadway construction. 1,639,276; Aug. 16.
- Schütte, Johann C. F. A., Berlin, Germany. Holding device for printing blocks or plates. 1,645,876; Oct. 13.
- Schutte & Koerting Company. (See Geare, R. E. S., and Norstrom, assignors.)
- Schutten, Herman B., Milwaukee, Wis. Adjustable hook or bracket. 1,642,428; Sept. 13.
- Schutz, Harold R., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Casting table. 1,625,164; Apr. 19.
- Schutz, Harold R., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Manufacture of sheet glass. 1,643,680; Sept. 27.
- Schutz, Harry M., Paris, France. Advertising device. 1,640,009; Aug. 30.
- Schutz, Joseph M., Chicago, Ill., assignor, by mesne assignments, to Centrifix Corporation, Cleveland, Ohio. Centrifugal purifier. 1,612,836; Jan. 4.
- Schutz, Joseph M., Chicago, Ill., assignor, by mesne assignments, to Centrifix Corporation, Cleveland, Ohio. Centrifugal apparatus. 1,612,837; Jan. 4.
- Schutz, Joseph M., Chicago, Ill., assignor, by mesne assignments, to Centrifix Corporation, Cleveland, Ohio. Draft-inducing means. 1,612,838; Jan. 4.
- Schutz, Joseph M., Chicago, Ill., assignor, by mesne assignments, to Centrifix Corporation, Cleveland, Ohio. Centrifugal apparatus. 1,639,538; Aug. 16.
- Schwab, Maurice M., Berkeley, assignor to Johnson Wash Company, Oakland, Calif. Wringer attachment. 1,625,101; Apr. 19.
- Schvartz, Oscar D., Albany, N. Y., assignor, by mesne assignments, to Versare Corporation. Steering device. 1,648,917; Nov. 15.
- Schvatz, George S., New York, N. Y. Folding steel square and protractor. 1,643,033; Sept. 20.
- Schwab, Charles T., Jr., Cuero, Tex. Deflection vernier for machine guns. 1,652,490; Dec. 13.
- Schwab, Henry M., Dormont, Pa., assignor to Byrnes & Kiefer Company. Cooking utensil. 1,630,806; May 31.
- Schwab, Jack, New York, N. Y. Buffet scarf. Des. 72,333; Feb. 29.
- Schwab, James W., Gulf, assignor to Texas Gulf Sulphur Company, Bay City, Tex. Treating sulphur. 1,646,838; Oct. 25.
- Schwab, John, Jr., Winnipeg, Manitoba, Canada. Making a rubber composition for lining tubes and using the same. 1,639,861; Aug. 23.
- Schwab, Maurice M., and S. S., Toledo, Ohio. Caustic tank for dry-cleaning systems. 1,630,673; May 31.
- Schwab, Maurice M., and S. S., Toledo, Ohio. Scrubber for dry-cleaning systems. 1,633,195; June 21.
- Schwab, Samuel S. (See Schwab, Maurice M. and S. S.)
- Schwade, Karl. (See Geden, P., and Schwade.)
- Schwafel, Mike, Taft, Calif. Derrick safety cage. 1,615,657; Jan. 25.
- Schwannemann, William, Yonkers, N. Y., assignor to Ward Leonard Electric Company, Apparatus for controlling electric circuits. 1,622,004; Mar. 22.
- Schwalb, Otto, Jersey City, N. J. Belt clasp. 1,654,096; Dec. 27.
- Schwalbe, Carl G., Eberswalde, Germany. Utilizing waste sulphite cellulose lye. 1,615,102; Jan. 18.
- Schwalbenberg, Peter J., New York, N. Y. Engine-cooling system. 1,621,736; Dec. 13.
- Schwalberg, Abraham, Brooklyn, N. Y. Removable wrist-watch bracelet. 1,626,160; Apr. 26.
- Schwan, Clarence, Oklahoma City, Okla. Poultry roost. 1,639,006; Aug. 16.
- Schwan, Louis A., Fort Wayne, Ind., assignor to A. G. Spalding & Bros., New York, N. Y. Referee's stand. 1,616,395; Feb. 20.
- Schwanhüsser, Herbert, Nuremberg, and Waldemar Schwanhüsser, Munich, Germany. Machine for polishing pencils and other rod-shaped bodies. 1,640,910; Aug. 30.
- Schwanhüsser, Waldemar. (See Schwanhüsser, Herbert, and W.)
- Schwanhüsser, Walter E., Jersey City, N. J., assignor to Charles Bester Company, New York, N. Y. Image-projecting machine. 1,650,857; Nov. 29.
- Schwanke, Albert F., Grey Eagle, Minn. Cream-separator-bowl washer. 1,623,383; Apr. 5.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace. Des. 72,038; Feb. 15.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. Des. 72,448; Apr. 12.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace. Des. 72,683; May 17.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. Des. 73,447; Sept. 13.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace. Des. 73,945; Nov. 22.

- Schwartz, Andrew G., Chicago, Ill. Bank fortification. 1,648,365; Nov. 8.
- Schwartz, Carl, New Rochelle, N. Y., assignor to International Combustion Engineering Corporation. Combustion. 1,617,694; Feb. 15.
- Schwartz, Federico, assignor of one-half to Gil-Comari, Barcelona, Spain. Preparing a varnish. 1,621,458; Mar. 18.
- Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Stand for radio loud speakers or similar articles. Des. 73,760; Nov. 1.
- Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Stand for radio loud speakers or similar articles. Des. 73,761; Nov. 1.
- Schwartz, George L. (See Reid, E. E., and Schwartz.)
- Schwartz, George L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-ester composition. 1,633,683; June 28.
- Schwartz, Gerhardt F., St. Louis, Mo. Making hot-water tanks. 1,624,983; Apr. 19.
- Schwartz, Harry A., Cleveland Heights, assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Making malleable iron castings. 1,636,057; July 19.
- Schwartz, Harry A., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Making malleable iron castings. 1,640,674; Aug. 30.
- Schwartz, Isidore, New York, N. Y., assignor to Animated Picture Products Co. Display apparatus. 1,648,827; Nov. 8.
- Schwartz, Louis, New York, N. Y. Ball. 1,614,853; Jan. 18.
- Schwartz, Michael, assignor, by mesne assignments, to Automatic Electric, Inc., Chicago, Ill. Service-observing equipment for telephone systems. 1,640,675; Aug. 30.
- Schwartz, Michael, assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,646,262; Oct. 18.
- Schwartz, Morris, assignor of one-half to W. B. Parish, Chicago, Ill. Die mechanism. 1,636,569; June 14.
- Schwartz, Morris, assignor of one-half to W. B. Parish, Chicago, Ill. Die mechanism. 1,613,961; Jan. 11.
- Schwartz, Morris, assignor to American Flange & Manufacturing Co., Chicago, Ill. Container. 1,645,163; Oct. 11.
- Schwartz, Niell, Brooklyn, N. Y. Hose clamp. 1,615,142; Jan. 18.
- Schwartz, Roy H., Cleveland, Ohio. Tire flap or protector. 1,649,862; Nov. 22.
- Schwartz, Russell F., Cincinnati, Ohio. Electrode-holding device. 1,620,837; Mar. 15.
- Schwartz, Walter M., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Conveyor for a drier. 1,615,237; Jan. 25.
- Schwartz, Walter M., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Screen conveyor. 1,654,963; July 5.
- Schwartz, Walter M., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Panel. 1,652,055; Dec. 6.
- Schwartzberg, Alter L., Shreveport, La. Ventilator. 1,652,380; Dec. 13.
- Schwartzman, Benjamin. (See Alter, H. A., Wollner, and Schwartzman.)
- Schwartzman, Morris. (See Alter, H. A., Wollner, and Schwartzman.)
- Schwartz, Carl, Charlottenburg, near Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Arrangement of connections for sending and receiving electric waves. 1,622,675; Mar. 29.
- Schwartz, Carl, Charlottenburg, near Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Tuning arrangement for radio communication. 1,649,131; Nov. 15.
- Schwartz, Carl, Charlottenburg, near Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. System of radio communication over wires. 1,636,132; Feb. 15.
- Schwartz, Ernest M., Philadelphia, Pa. Window screen. 1,624,868; Apr. 12.
- Schwarz, Henry A., Jr., Ricketts, Iowa. Gauge. 1,613,678; Jan. 11.
- Schwarz, John N., Bridgeport, and V. W. Schwarz, Fairfield, Conn. Tire-making machine. 1,619,489; Mar. 1.
- Schwarz, Vincent. (See Jakopcic, G., and Schwartz.)
- Schwarz, Vincent W. (See Schwarz, John N. and V. W.)
- Schwarz, Vincent W., North Bergen, N. J. Mold plate for roofing-tile machines. 1,619,490; Mar. 1.
- Schwarz, Herman, and F. M. Holden, assignors to General Motors Corporation, Detroit, Mich. Lock-controlled switch. 1,635,226; July 12.
- Schwarzenbach-Huber Co. (See Albach, George F., Jr., assignor.)
- Schwarzenbach-Huber Company, The. (See Hellawell, H. H., and Radhuber, assignors.)
- Schwarzkopf, Paul, Berlin-Charlottenburg, Germany. Production of methylenedinitrotrioxide and tungsten trioxide. 1,629,004; May 17.
- Schwarzmann, Leon, New York, N. Y. Automatic embroidering machine. 1,626,256; Apr. 26.
- Schwarzmann, Leon, assignor to Patented Machinery Development Corporation, New York, N. Y. Gold-lettering machine. 1,648,007; Nov. 8.
- Schweiger, Bruno, Erkelenz, Germany. Apparatus for raising oil from wells. 1,644,748; Oct. 11.
- Schweiger, William F., assignor to Multiposter Company, Incorporated, Rochester, N. Y. Stamp-dispensing machine. 1,631,827; Apr. 26.
- Schweiger, William F., assignor to Multipost Company, Incorporated, Rochester, N. Y. Stamp-affixing machine. 1,645,073; Oct. 11.
- Schweigert, Otto, Pforzheim, Germany. Shoulder strap for ladies' underwear. 1,632,716; June 14.
- Schweigert, William F., Buffalo, N. Y. Closure for containers. 1,626,099; Apr. 26.
- Schweiker, Malcolm A., Lansdale, Pa., and J. R. Westbrook, Metuchen, N. J. Tool and machine for setting floor and wall tile. 1,639,616; Aug. 16.
- Schweiker, Roy W., Lansdale, Pa. Side-wall lighting fixture. Des. 72,684; May 17.
- Schweiker, Roy W., Lansdale, Pa. Lighting fixture. 1,642,429; Sept. 13.
- Schweiker, Roy W., Lansdale, Pa. Lighting fixture. 1,649,422; Nov. 15.
- Schweiker, Roy W., assignor to Franklin Pottery, Lansdale, Pa. Attaching bracket for lighting fixtures. 1,632,510; June 14.
- Schweinert, Maximilian C., deceased, New York, N. Y.; C. E. Whitney, M. Schweinert, and The Farmers Loan and Trust Company, executors. Wall-building apparatus. 1,654,349; Dec. 27.
- Schweinert, May, et al., executors. (See Schweinert, Maximilian C.)
- Schweisthal, Fred G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer-magnet compensator. 1,623,558; Apr. 5.
- Schweisthal, Fred G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Valve snap action. 1,635,692; July 12.
- Schweiter, Hans, Horgen, Switzerland. Measuring device for textile machinery incorporating a swift. 1,622,124; Mar. 22.
- Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
- Schweitzer, Edmund O., Chicago, Ill. Automatic reclosing circuit-breaker system. 1,648,508; Nov. 8.
- Schweitzer, Edmund O., Chicago, Ill. Lighting fixture. 1,653,071; Dec. 27.
- Schweitzer, Wilhelm H., Heidelberg, Germany. Treating Tussah silk. 1,634,757; July 5.
- Schweitzer, William K., Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Insecticide. 1,648,895; Nov. 8.
- Schweitzer, William K., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Insecticide. 1,648,596; Nov. 8.
- Schweiz, Serum- & Impfanstitut Bern. (See Eckmann, Aron, assignor.)
- Schweizer, Joseph J., Greenville, Miss. Automobile windshield screen. 1,649,985; Nov. 22.
- Schweizer, William H., Baltimore, Md. Building block. 1,621,957; Mar. 22.
- Schwenlein, William, assignor to The Parkersburg Rig & Res. Company, Parkersburg, W. Va. Bolt. 1,624,767; Apr. 12.
- Schwenke, Alfred L., Portland, Me. Snow loader. 1,654,311; Dec. 27.
- Schwenker, Charles F., Schenectady, N. Y., assignor to General Electric Company. Safety switch. 1,651,935; Dec. 6.
- Schwenzer, George A., and H. L. Stackhouse, Cincinnati, Ohio, assignors, by mesne assignments, to United States Pump Corporation. Gasoline-dispensing device. 1,653,231; Dec. 20.
- Schwerdtfeger, Walter, Stuttgart-Unterturkheim, assignor to the Firm Daimler-Motoren-Gesellschaft, Unterturkheim, Germany. Fuel-feeding device for combustion engines. 1,635,501; Feb. 15.
- Schwerlin, Frank H., West View, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Oil-well jack. 1,618,232; Feb. 22.
- Schwerlin, Frank H., West View, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Mine post or prop. 1,635,126; Dec. 20.
- Schwerlin, Frank H., Bellevue, Borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Tie spacer. 1,637,459; Aug. 2.
- Schwerlin, Paul, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,615,955; Feb. 1.
- Schweser, Carl E., assignor of one-half to F. G. Schweser, David City, Neb., Hozinger. 1,637,878; Aug. 2.
- Schweser, Fred G. (See Schweser, Carl E., assignor.)
- Schwydar, Wilhelm, Potsdam, Germany. Gravitation meter for measuring the vertical gradient of the gravity of the earth. 1,622,255; Dec. 13.
- Schwyer, Daniel H., Easton, Pa. Automatic train control. 1,624,118; Apr. 12.
- Schwyer, Daniel H., Easton, Pa. Automatic train control. 1,634,691; July 5.
- Schwieger, Adolf, Hanover, Germany. Tin with tightly-closing cover. 1,624,901; Apr. 12.
- Schwimm, Gustave M., Detroit, Mich. Steering wheel. 1,637,284; July 26.

- Schwimmer, Fred J., and C. S. Wright, assignors to The National Supply Company, Toledo, Ohio. Oiling apparatus for band-wheel mechanism. 1,612,989; Jan. 4.
- Schwimmer, Frederick J., and C. S. Wright, assignors to The National Supply Company, Toledo, Ohio. Oiling apparatus for band-wheel mechanism. 1,648,066; Nov. 8.
- Schwindt, Andrew A., Dickinson, N. Dak. Bolt cutter. 1,643,589; Sept. 27.
- Schwinger, John K., Marion, Ohio. Awning for automobile windows. 1,651,160; Nov. 29.
- Schwinn, Frank W., Chicago, Ill. Refrigerating apparatus. 1,630,077; May 24.
- Schwinn, Frank W., Chicago, Ill. Thermostatic switch. 1,646,882; Oct. 25.
- Schwoab, Alexandre, Paris, France. Universal and automatic machine tool. 1,633,714; June 28.
- Schwoppe, Henry G. (See Allen, J. B., and Schwoppe.)
- Schwoerer, Richard C. (See Morris, J. J., and Gulick, assignors.)
- Schworetzky, Gustav, Esslingen-on-the-Neckar, Germany. Testing pressure storage vessels. 1,613,962; Jan. 11.
- Schylander, John F., Chicago, Ill. Lubricator. 1,653,230; Dec. 20.
- Scintilla Aktiengesellschaft. (See Billon, F., and Bohli, assignors.)
- Scimone, Antonio, Brooklyn, N. Y. Shoe-tree. 1,651,001; Nov. 29.
- Scelater, Ivanhoe H., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,652,911; Dec. 13.
- Scott, Lynn M., and H. J. Thomas, assignors to H. S. Merritt, Los Angeles, Calif. Film support for motion-picture-projecting machines. 1,639,469; Aug. 16.
- Scotfield, Theodore J., Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Horn. 1,637,316; July 26.
- Scotfield, Thomas E. (See Oberle, Alfred, assignor.)
- Scott, Charles W., assignor of one-half to N. Nissen, Indianapolis, Ind. Roofing. 1,640,619; Aug. 30.
- Schölkopf, Karl, assignor to Rheinische Kampfer-Fabrik Gesellschaft mit beschränkter Haftung, Oberkassel, near Düsseldorf, Germany. Substituting halogen. 1,645,974; Oct. 18.
- Scotly, John R., assignor to Baker Brothers Glass Company, Okmulgee, Okla. Shawl carrier. 1,642,562; Sept. 13.
- Scollard, Thomas F., Warsaw, Ind. Electric elevator. 1,634,854; July 5.
- Scordamaglia, Frank, Brooklyn, N. Y. Electric-fuse indicator. 1,641,203; Sept. 6.
- Scotcher, Arthur W., Nutley, N. J. Carton. 1,614,972; Jan. 18.
- Scotcher, Arthur W., Newark, N. J. Container. 1,614,997; Jan. 18.
- Scott, Aaron A., Tigrett, Tenn. Incubator. 1,624,629; Apr. 12.
- Scott, Allen C., Omaha, Nebr. Container for shipping goods. 1,627,344; May 3.
- Scott, Allison H. (See Kogstrom, Axel W., assignor.)
- Scott, Alonzo B., Fairmont, W. Va. Golf putting box. 1,614,899; Jan. 11.
- Scott, Alva W. (See Geyer, H. D., and Scott.)
- Scott, Alva W. (See Nellis, C. P., and Scott.)
- Scott, Annie A., E. H., P. R., and E. M. Scott, deceased, Christchurch, by J. W. Macdonald, administrator, Wellington, New Zealand, said Macdonald assignor to said Annie A. Scott, E. H. Scott, and P. R. Scott. Gas cooking and heating oven. 1,652,737; Dec. 13.
- Scott, Archibald D., deceased, by M. V. Scott, executrix. Jersey City, N. J., assignor to Varley Duplex Magnet Company. Winding machine. 1,630,720; May 31.
- Scott, Archie W., Geneva, Ohio. Door catch. 1,622,926; Mar. 29.
- Scott, Baxter C., Pickens, Miss. Denture. 1,626,761; May 3.
- Scott, Benjamin, West End, Calif. Shock absorber. 1,616,091; Feb. 1.
- Scott, Beverly R., Woodlynne, N. J., assignor to The Hammurudi Manufacturing Company, Incorporated. Making coils. 1,643,998; Oct. 4.
- Scott, Carl W. (See Hawley, E. R., and Scott.)
- Scott, Catherine E., Milwaukee, Wis. Paper-crimping machine. 1,629,743; May 24.
- Scott, Charles B., Hanover, N. H. Anchor. 1,636,617; July 19.
- Scott, Charles D., Topeka, Kans. Railway gate. 1,649,748; Nov. 15.
- Scott, Charles H., Company, The. (See Haberkamp, Jesse M., assignor.)
- Scott, Charles T., Upperville, Va. Dust-cap and rim-nut connection for tire-valve stems. 1,645,027; Oct. 11.
- Scott, Clarence E., Norristown, assignor to York Heating and Ventilating Corporation, Philadelphia, Pa. Fan-housing construction. 1,646,319; Oct. 18.
- Scott, Clarence N., Houston, Tex. Headlight. 1,621,224; Mar. 15.
- Scott, Dan J., Long Beach, Calif. Collapsible drill pipe. 1,635,289; July 12.
- Scott, David J., et al., executors. (See Scott, David J., assignor.)
- Scott, David J., et al., executors. (See Scott, Walter C., assignor.)
- Scott, David J., assignor to Walter Scott & Company, Plainfield, N. J. Roll-side-registering mechanism. 1,613,963; Jan. 11.
- Scott, David J., assignor to I. and D. J. Scott, executors of the estate of W. Scott, deceased, doing business under the name of Walter Scott & Company, Plainfield, N. J. Luning machine. 1,641,100; Aug. 20.
- Scott, David J., Plainfield, N. J., assignor to I. Scott, and D. J. Scott, executors of the estate of Walter Scott, deceased. Printing machine. 1,646,114; Oct. 18.
- Scott, David T., Mitchell's Island, Vancouver, Canada. Heavy-oil vaporizer. 1,626,561; Apr. 26.
- Scott, David L., Vancouver, British Columbia, Canada. Heavy-oil vaporizer. 1,642,268; Sept. 13.
- Scott, Donald, Glasgow, Scotland. Supplying liquid fuel to internal-combustion engines. 1,632,926; June 21.
- Scott, Earnest H. (See Scott, Annie A., E. H., P. R., and E. M.)
- Scott, Ell, Walnut Grove, Minn. Whip actuator. 1,633,249; July 19.
- Scott, Elwin L. (See Marion, Frank, assignor.)
- Scott, Ethel M. (See Scott, Annie A., E. H., P. R., and E. M.)
- Scott, Fletcher, Memphis, Tenn. Price-tag supporting means. 1,641,697; Sept. 6.
- Scott, Floyd L., assignor to Hughes Tool Company, Houston, Tex. Coupling loosener. 1,633,210; Aug. 9.
- Scott, Floyd L., assignor to Hughes Tool Company, Houston, Tex. Load indicator. 1,641,296; Sept. 6.
- Scott, Floyd L., and L. H. Wellensiek, assignors to Hughes Tool Company, Houston, Tex. Drill cutter. 1,647,753; Nov. 1.
- Scott, Floyd L., Houston, Tex. Gauge cock. 1,653,734; Dec. 27.
- Scott, Frank B. (See Chase, Royburn T., assignor.)
- Scott, Frank G., New Orleans, La. Operating mechanism for ice-cream freezers. 1,645,458; Oct. 11.
- Scott, George H. (See Richmond, V. C., and Scott.)
- Scott, George M., London, England. Vitreous enamel composition and making same. 1,651,474; Dec. 6.
- Scott, Guy F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inclosed receptacle. 1,624,438; Apr. 12.
- Scott, Guy F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric switch. 1,630,359; May 31.
- Scott, Harry M., Chickasha, Okla. Belt batt. 1,647,022; Oct. 25.
- Scott, Henry D. (See Spring, Daniel T., and S. E., assignors.)
- Scott, Henry M. (See Wheeler, J. H., and Scott.)
- Scott, Howard B., J. C. Widmont, and H. Huey, assignors, by license assignments, to The National Cash Register Company, Dayton, Ohio. Graining-plate roller and striker. 1,648,328; Nov. 8.
- Scott, Howard E., Los Angeles, Calif. Comb. 1,615,408; Jan. 25.
- Scott, Isabella, et al., executors. (See Scott, David J., assignor.)
- Scott, Isabella, et al., executors. (See Scott, Walter C., assignor.)
- Scott, John. (See Scott, Milton and J.)
- Scott, John L., Harrison, Miss. Car flange-wheel roller. 1,620,578; Mar. 8.
- Scott, John W., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture apparatus. 1,616,922; Feb. 8.
- Scott, Joseph B., Freeport, Ill. Rim-treatment process. 1,625,516; May 10.
- Scott, Leon H., et al. (See Scott, Ray W., assignor.)
- Scott, Lewis L., St. Louis, Mo. Oil-burner boiler. 1,619,889; Mar. 8.
- Scott, Lewis L., St. Louis, Mo. Combined boiler and incinerator system. 1,624,081; Apr. 12.
- Scott, Lewis L., St. Louis, Mo. Oil-burning system. 1,640,729; Aug. 30.
- Scott, Lewis L., St. Louis, Mo. Oil burner. 1,640,731; Aug. 30.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Maintaining the prime in pumps. 1,617,422; Feb. 15.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Combustion system. 1,625,629; Apr. 19.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Combustion system. 1,625,630; Apr. 19.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Oil-burning system. 1,629,542; May 24.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Gear pump. 1,640,727; Aug. 30.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Domestic Oil Burner. 1,640,728; Aug. 30.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Oil burner. 1,640,730; Aug. 30.
- Scott, Lewis L., assignor to Electrol, Inc., of Missouri, St. Louis, Mo. Oil burner. 1,644,496; Oct. 4.
- Scott, Louis R., Toronto, Ontario, Canada, assignor to G. Mitchell, Detroit, Mich. Windshield-wing mounting. 1,628,200; May 10.
- Scott, Mary V., executrix. (See Scott, Archibald D.)
- Scott, Milton and J. New Plymouth, New Zealand. Direction-indicator attachment to motor vehicles. 1,618,849; Feb. 22.
- Scott, Nelson H., assignor of one-half to L. B. Day, La Fayette, Ga. Split sprocket. 1,623,814; Apr. 5.
- Scott, Nerron H. (See Hyle, J. A., and Scott.)
- Scott Paper Company. (See Liebeck, Harry, assignor.)

- Scott Paper Company. (See Parsons, Philip D., assignor.)
- Scott, Percy K. (See Scott, Annie A., E. H., P. R., and E. M.)
- Scott, Philip L., Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind. Apparatus for and method of creating turbulence. 1,623,704; Apr. 5
- Scott, Philip L., Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind. Relief mechanism for fuel-injection systems. 1,626,762; May 3.
- Scott, Philip L., Three Oaks, Mich., assignor to Super Diesel Tractor Corporation, La Porte, Ind. Governing device for internal-combustion motors. 1,626,053; Apr. 26.
- Scott, Ralph B., Los Angeles, Calif. Conduit cleaner. 1,627,122; May 3.
- Scott, Ray W., Los Angeles, assignor of one-half to Radio Lab. & Mfg. Co., and one-half to L. H. Scott, Pasadena, Calif. Machine for milling lumber and the like. 1,629,742; May 24.
- Scott, Robert, and G. H. Poulton, Winnipeg, Manitoba, Canada. Nonskid device for chains. 1,650,302; Nov. 22.
- Scott, Robert W., Babylon, assignor to Scott and Williams, Inc., New York, N. Y. Stocking and the manufacture thereof. Re16,795; Nov. 22.
- Scott, Robert W., Babylon, assignor to Scott and Williams, Inc., New York, N. Y. Stocking and the manufacture thereof. 1,637,244; July 26.
- Scott, Robert W., Babylon, assignor to Scott and Williams, Inc., New York, N. Y. Automatic knitting machine. 1,641,101; Aug. 30.
- Scott, Robert W., Babylon, assignor to Scott and Williams, Inc., New York, N. Y. Ribbed fabric hosiery knitting machine. 1,641,554; Sept. 6.
- Scott, Robert W., Babylon, assignor to Scott and Williams, Inc., New York, N. Y. Dial-positioning and yarn-feeding mechanism for dial knitting machines. 1,652,500; Dec. 13.
- Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Sectional-splicing mechanism for knitting machines. 1,628,517; May 10.
- Scott, Russell O., Dayton, Ky. Checking device. 1,644,155; Oct. 4.
- Scott, Syrus S., Carrollton, Mo., assignor of one-half to C. E. Jacoby, Kansas City, Mo. Mat for revetment work and mining same. 1,629,315; May 17.
- Scott-Taggart, John, London, England. Apparatus for detecting or translating electrical impulses. 1,654,390; Dec. 27.
- Scott, Thomas, Cleveland, Ohio. Scaffold support. 1,614,496; Jan. 13.
- Scott, Thomas S. (See Storer, N. W. and Scott.)
- Scott-Ullman Company, The. (See Wing, Clarence G., assignor.)
- Scott, Wallace, and S. D. Marjoribanks, assignors to Scotts Household Appliances Limited, Newcastle-upon-Tyne, England. Excluding drafts from under doors. 1,643,132; Sept. 20.
- Scott, Walter, Sheridan, Wyo. Ball-bearing universal joint. 1,627,932; May 10.
- Scott, Walter, & Company. (See Scott, David J., assignor.)
- Scott, Walter, & Company. (See Scott, Walter C., assignor.)
- Scott, Walter A., Minneapolis, Minn. Sound deadener. 1,622,469; Mar. 29.
- Scott, Walter B., Marblehead, Mass. Toy windmill. Des. 73,056; July 12.
- Scott, Walter C., Plainfield, N. J. Web-replenishing mechanism. 1,651,840; Dec. 6.
- Scott, Walter C., deceased, assignor to I. Scott and D. J. Scott, executors, doing business as Walter Scott & Company, Plainfield, N. J. Uninterruptedly feeding a web of flexible material while changing from one web roll to another. 1,623,277; Apr. 5.
- Scott, Walter F. (See Crumlish, W. F. and Scott.)
- Scott, Walter J., Woonsocket, R. I. Stop motion for drawing frames. 1,635,093; July 12.
- Scott, Walter M. (See Barnhart, Job R., assignor.)
- Scott, Walter M. (See Wiseman, Earl H., assignor.)
- Scott, Walter M., and R. E. Tresise, Cleveland, Ohio. Electrical measuring instrument. 1,630,908; May 31.
- Scott, Walter M., Lakewood, and R. E. Tresise, Cleveland, Ohio. Casing for electrical measuring instruments. 1,631,606; June 7.
- Scott, William H., Rochester, N. Y. Receptacle filling and draining device. 1,630,543; May 31.
- Scott, William R., assignor of one-half to E. Stevenson, Sprindale, Conn. Automatic starcher for raw-gum material. 1,648,828; Aug. 8.
- Scott, William T., Youngstown, Ohio. Tool for separating adhering sheets. 1,635,040; July 12.
- Scott and Williams, Inc. (See Bosch, Jose, assignor.)
- Scott & Williams, Incorporated. (See Hughes, William A., assignor.)
- Scott & Williams, Incorporated. (See Madaris, Clint, assignor.)
- Scott & Williams, Inc. (See McMaster, Cedric S., assignor.)
- Scott and Williams, Inc. (See Page, Albert E., assignor.)
- Scott and Williams, Inc. (See Scott, Robert W., assignor.)
- Scott, Winfield, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making disubstituted guanidines. 1,630,769; May 31.
- Scott, Winfield, Akron, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanization of rubber. 1,638,220; Aug. 9.
- Scott, Winfield, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Accelerating the vulcanization of rubber. 1,639,903; Aug. 23.
- Scott, Winfield, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Di-para-xylylguanidine. 1,642,180; Sept. 13.
- Scottish Dyes, Limited. (See Wylam, B., Harris, and Thomas, assignors.)
- Scotts Household Appliances Limited. (See Scott, W., and Marjoribanks, assignors.)
- Scovell Manufacturing Company. (See Bennett, Morris H., assignor.)
- Scovill Manufacturing Company. (See Bennett, M. H., and Rochette, assignors.)
- Scovill Manufacturing Company. (See Boden, George, assignor.)
- Scovill Manufacturing Company. (See Chapman, Lyman B., assignor.)
- Scovill Manufacturing Company. (See Cook, Clarence P., assignor.)
- Scovill Manufacturing Company. (See Coons, Arthur M., assignor.)
- Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)
- Scovill Manufacturing Company. (See Fenton, P. E., and Warner, assignors.)
- Scovill Manufacturing Company. (See Goss, John H., assignor.)
- Scovill Manufacturing Company. (See Hyde, Burdon P., assignor.)
- Scovill Manufacturing Company. (See King, G. A., Warner, and Tompkins, assignors.)
- Scovill Manufacturing Company. (See McAtee, John L., assignor.)
- Scovill Manufacturing Company. (See Pasman, Abram N., assignor.)
- Scovill Manufacturing Company. (See Reutter, Philip A., assignor.)
- Scovill Manufacturing Company. (See Rochette, Henry C., assignor.)
- Scovill Manufacturing Company. (See Root, Le Roy, assignor.)
- Scovill Manufacturing Company. (See Sanderson, Edward S., assignor.)
- Scovill Manufacturing Company. (See Senior, Frederick J., assignor.)
- Scovill Manufacturing Company. (See Stellmach, Paul, assignor.)
- Scovill Manufacturing Company. (See Summey, David L., assignor.)
- Scovill Manufacturing Company. (See Villaret, Gustave E., assignor.)
- Scovill Manufacturing Company. (See Wayne, Glenn H., assignor.)
- Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Danville, Ill. Liquid conditioning and supply system. 1,628,201; May 10.
- Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Pittsburgh, Pa. Strainer. 1,634,086; June 28.
- Scoville, Frank F., Schenectady, N. Y. Truck for railway rolling stock. 1,616,511; Feb. 8.
- Scrabie, Carl, Urbana, Ohio. Stylus mounting for sound reproducer of sound. 1,636,716; July 26.
- Scranton Button Company, The. (See Wells, Cyrus B., assignor.)
- Scranton, Henry O., Jeanerette, La. Shears for rice straw. 1,617,461; Feb. 15.
- Scranton, Henry O., Jeanerette, La. Sugar-cane harvester. 1,630,097; May 24.
- Scrner, Ernest L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Differentiating mine-car axle. 1,642,513; Sept. 13.
- Scripto Manufacturing Company. (See Ferst, Monte A., assignor.)
- Scritchfield, Amos J., Weiser, assignor of one-half to F. F. Robben, Boise, Idaho. Beet-topping machine. 1,649,617; Nov. 15.
- Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. Transformer circuit. 1,615,044; Jan. 18.
- Scrote, Merle C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building apparatus. 1,619,377; Mar. 1.
- Scrubby, Horace F., Los Angeles, Calif. Braking motor vehicles. 1,618,607; Feb. 22.
- Scruggs, Daniel, et al. (See Moore, S., and Sheets, assignors.)
- Scudder, Charles J., Scranton, Pa. Connecting-rod bearing. 1,619,588; Mar. 1.
- Scudder, John. (See Terwilliger, W. G., and Scudder.)
- Scullin Steel Company. (See Doerr, Harry E., assignor.)
- Scullin Steel Co. (See Dreibus, Harry C., assignor.)
- Scullin Steel Company. (See Lock, Walter V., assignor.)
- Scullin Steel Co. (See McCullough, Paul J., assignor.)
- Scully, George H., Los Angeles, assignor of one-third to C. O. Middleton, Sr., Beverly Hills, Calif. Impulse equalizer for internal combustion engines. 1,637,245; July 26.

- Scully, John T., New York, N. Y. Recording and reproducing apparatus. 1,641,947; Sept. 6.
- Scully, John T., New York, N. Y. Arm rest. 1,652,801; Dec. 13.
- Scully, Patrick, Lewiston, Idaho. Heating stove. 1,650,674; May 31.
- Scutcliff, William B., assignor of one-third to J. G. Coles and one-third to C. H. Rightmour, Hopewell, Pa. Electric train control. 1,617,169; Feb. 8.
- Scutt, Lewis W., St. Louis, Mo. Device for teaching time to music. 1,626,688; May 17.
- Seabolt, Frank J., Schenectady, N. Y., assignor to The Phonograph Company. Phonograph. 1,622,005; Mar. 22.
- Seabolt, Frank J., Schenectady, N. Y., assignor to The Phonograph Company. Phonograph. 1,622,814; Mar. 29.
- Seabolt, Frank J., Schenectady, N. Y., assignor to The Phonograph Company. Phonograph. 1,623,559; Apr. 5.
- Seaborne, Charles R., Appleton, Wis., assignor to American Lakes Paper Company, Chicago, Ill. Engraving method and apparatus. 1,627,205; May 3.
- Seabright, Huber A., Columbus, Ohio. Size-gauging machine. 1,645,118; Oct. 11.
- Seabrook, Baster R., Winnipeg, Manitoba, Canada. Horn for talking machines. 1,651,841; Dec. 6.
- Seabury, Richard W. (See Hull, L. M., and Seabury.)
- Seabury, Richard W., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Composite article and making same. 1,625,749; Apr. 19.
- Seaholm, Ernest W., Detroit, Mich. Radiator cap. Des. 2,449; Apr. 12.
- Seaholm, Ernest W., Detroit, Mich. Automobile-radiator casing. Des. 72,746; May 24.
- Seaholm, John P., Moline, Ill., assignor, by mesne assignments, to Moline Implement Company. Seat-guide cultivator. 1,622,740; Mar. 29.
- Seaholm, John P., Moline, Ill., assignor, by mesne assignments, to Moline Implement Company. Seat-guide cultivator. 1,628,435; May 10.
- Seal and Control Corporation. (See Briegel, William, assignor.)
- Sealed Containers Corporation. (See Stanley, Irving, assignor.)
- Seal-Kap Company. (See Baum, Ewald G., assignor.)
- Seal-Kap Company. (See McLaine, Claude I., assignor.)
- Sealock, John W., assignor, by mesne assignments, to Wolverine Metal Specialties Co., Grand Rapids, Mich. Cap for automobile radiators. 1,643,133; Sept. 20.
- Sealock, John W., and M. De Graaf, Grand Rapids, Mich., assignors to Wolverine Metal Specialties Co. Closure-swinging device. 1,624,677; Apr. 12.
- Seaman Body Corporation. (See Seaman, Harold H., assignor.)
- Seaman Container Manufacturing Corporation. (See Hall, Richard B., assignor.)
- Seaman, Harold H., assignor to Seaman Body Corporation, Milwaukee, Wis. Sunshade. 1,613,296; Jan. 4.
- Seaman, William O., Brooklyn, N. Y. Combination chair and stepladder. 1,654,386; Dec. 27.
- Seamans, Pickney S., et al. (See Newton, Noel D. and J. A., assignors.)
- Searing, John F., New Rochelle, N. Y. Beverage-dispensing apparatus. 1,613,248; Jan. 4.
- Searles, Fred R. (See Bell, R. H., and Searles.)
- Searles, Linn W., et al. (See Gage, Charles H., assignor.)
- Searles, Linn W., et al., trustees. (See Gage, Charles H., assignor.)
- Searles, Volney A., Jackson, Mich., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-feeding device. 1,646,069; Oct. 18.
- Searles, Volney A., Jackson, Mich., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding device. 1,649,133; Nov. 15.
- Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Metallic temple for eyeglass mountings. 1,647,152; Nov. 1.
- Searless, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Self-locking drive collar. 1,650,573; Nov. 22.
- Searls Manufacturing Company. (See Schurr, William H., assignor.)
- Sears, Archie K., Pasadena, Calif. Saw-filing guide. 1,648,426; Nov. 8.
- Sears, Edward M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. Des. 72,240; Mar. 15.
- Sears, Edward M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. Des. 72,241; Mar. 15.
- Sears, Edward M., Yakima, Wash. Removing residual poisons from fruit. 1,624,074; Apr. 12.
- Sears, Fred W., and A. Buck; said Buck assignor to R. Hueckler, Three Rivers, Mich. Water deckle for paper-making machines. 1,623,278; Apr. 5.
- Sears, John E., Jr., and A. J. C. Brookes, Teddington, Middlesex, England; said Sears assignor to said Brookes. Magnetic clutch. 1,636,533; July 19.
- Sears, Roebuck and Co. (See Fitch, Charles M., assignor.)
- Sears, Roebuck and Co. (See Fortier, Leon D., assignor.)
- Sears, Roebuck and Co. (See Kingdon, Ralph H., assignor.)
- Sears, Roebuck & Co. (See Robertson, Robert H., assignor.)
- Sears, Roebuck and Co. (See Sexton, Lawrence E., assignor.)
- Seasock, Edward T., Wall, Pa. Attachment for electric extension plugs. 1,635,507; July 12.
- Seaton, Albert, and W. O. Hader, assignors to Eli Lilly and Company, Indianapolis, Ind. Product and testing sugar tolerance. 1,625,165; Apr. 19.
- Seaton, Benjamin C., Nashville, Tenn. Mold and constructing continuous tubes. 1,625,284; Apr. 19.
- Seaton, John R., Chicago, Ill. Rake cleaner. 1,648,284; Nov. 8.
- Seattle Tent & Awning Co. (See Grunbock, John F., assignor.)
- Seaver, Edward, Needham, and F. A. Mazzur, deceased, Waban, Mass., M. P. Mazzur, administratrix, assignors to Peabody Engineering Corporation, New York, N. Y. Combination oil and gas burner. 1,643,788; Sept. 27.
- Seaver, Edick J., Beloit, Wis. Exterminator. 1,637,246; July 26.
- Seavey, Elmer S., Bethlehem, Pa., assignor to Bethlehem Steel Company. Splice bar and method of manufacture. 1,646,170; Oct. 18.
- Seavey, Eugene, Ridgeway Park, N. J. Combined hair level and comb. 1,639,817; Aug. 14.
- Seavey, F. H., et al. (See Johnstone, Samuel, assignor.)
- Seawell, Joseph M., Richmond, Va. Stabilizer. 1,625,224; Apr. 19.
- Seay, James I. (See Lawlor, J. P., and Seay.)
- Sebal, Leslie E., Ridgewood, N. J., assignor to The Grisco-Russell Company, New York, N. Y. Low-heat-level evaporator system. 1,623,941; Apr. 5.
- Sebal, Leslie E., Ridgewood, N. J., assignor to The Grisco-Russell Company, New York, N. Y. Vertical film-type evaporator. 1,631,162; June 7.
- Sebastian Lathe Company, The. (See Schroder, William, assignor.)
- Sebell, Harry, Boston, Mass. Nonskid device for automobiles. 1,643,959; Oct. 4.
- Sebell, Harry, assignor to L. F. Buff, Boston, Mass. Window catch. 1,645,354; Oct. 11.
- Sebell, Harry, Boston, assignor to A. H. Parker, Lexington, Mass. Can. 1,647,056; Oct. 25.
- Sebell, Harry, Somerville, assignor of one-half to Babson Company and one-half to E. S. Foster, Boston, Mass. Cover for boxes and the like. 1,652,531; Dec. 18.
- Sebesta, Edward F., Minneapolis, Minn. Automobile signal. 1,638,414; Aug. 9.
- Seblille, Leo P., Cleveland, Ohio. Gas-generating apparatus. 1,623,125; May 17.
- Sebell, Lon B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanization of rubber and producing same. 1,616,994; Feb. 8.
- Sebrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Accelerating the vulcanization of rubber and product thereof. 1,635,193; July 16.
- Sebring, E. H., China Company, The. (See Sebring, Ellsworth H., assignor.)
- Sebring, Ellsworth H., assignor to The E. H. Sebring China Company, Sebring, Ohio. Covered dish. Des. 72,114; Mar. 1.
- Sebring, Frank H., Jr., assignor to The Salem China Co., Salem, Ohio. Plate. Des. 73,328; Aug. 9.
- Sebring Manufacturing Corporation. (See Brunt, Samuel, assignor.)
- Sebring Pottery Company. (See Burian, Jaroslava, assignor.)
- Sebring Manufacturing Corporation. (See Lewis, William N., assignor.)
- Sebulskie, Frederick C., Jr., Detroit, Mich. Washing-machine casing. Des. 74,028; Dec. 6.
- Sec, Joseph. (See Lecjaky, Josef, assignor.)
- Secombe, Clinton F., et al. (See Barden, Fred, assignor.)
- Seckbach, Ernst, Gorlitz in Schlesien, Germany. Head-rest for baths. 1,650,743; Nov. 29.
- Secor, Ezra, St. Joseph, Mich. Safety device for presses. 1,643,259; Sept. 20.
- Secor, John A., assignor to Advance-Rumely Company, La Porte, Ind. Exhaust nozzle and assembly. 1,625,102; Apr. 19.
- Secord, Frederick A., Portland, Me. Apparatus for drying. 1,621,855; Mar. 22.
- Secretary of Commerce of the United States, trustee. (See Coblentz, William W., assignor.)
- Secretary of Commerce of the United States, as trustee. (See Freed, Meyer L., assignor.)
- Secretary of War of the United States, trustee. (See Weeks, Paul, assignor.)
- Scrophones Limited. (See Gamoty, Lucien J., assignor.)
- Security Trust Company. (See Long, Elmer C., assignor.)
- Seidel, John E., assignor to American Holst & Derrick Company, St. Paul, Minn. Electric controller. 1,619,960; Mar. 8.
- Seiderholm, John E., assignor to American Holst & Derrick Company, St. Paul, Minn. Electric heater. 1,620,296; Mar. 8.
- Seiderholm, John E., St. Paul, Minn., assignor to American Holst & Derrick Co. Interlocking switch mechanism. 1,634,121; June 28.
- Sedgwick, Isham, Riverside, Calif. Three-wheeled tractor. 1,621,856; Mar. 22.

- Sediva, Jarmila, Pribram, Czechoslovakia. Device for separating and straining liquids. 1,632,511; June 14.
- Sedwick, Matthew M., Baltimore, Md. assignor to Continental Can Company, Inc., Syracuse, N. Y. Mechanism for feeding filled cans to closing machines. 1,628,919; May 17.
- See, Edward E., Omaha, Nebr. Staff base. 1,631,227; June 7.
- See, Willard, assignor to The Dixie Culvert & Metal Company, Atlanta, Ga. Surface toilet. 1,615,775; Jan. 25.
- Seeborg, Christen, Oslo, Norway. Ski binding. 1,654,272; Dec. 27.
- Seeberger, Fred B., Philadelphia, Pa. Cue tip and manufacture thereof. 1,624,984; Apr. 19.
- Seedek, Ferdinand W., Lebanon, Oreg. Differential. 1,626,120; Apr. 26.
- Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,626,431; Apr. 26.
- Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,645,074; Oct. 11.
- Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,646,221; Oct. 18.
- Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Electric heating. 1,646,498; Oct. 25.
- Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,650,658; Nov. 29.
- Seeger, Adolph M., Toledo, Ohio. Cable carrier. 1,622,741; Mar. 20.
- Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Control system for printing presses. 1,625,225; Apr. 19.
- Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. 1,637,054; July 26.
- Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,638,884; Aug. 16.
- Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Control system for electric elevators. 1,645,075; Oct. 11.
- Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,646,171; Oct. 18.
- Seekamp, Herman L., Gillespie, Ill. Mining-machine chain lubricator. 1,620,135; Mar. 8.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Drying alkali cellulose. 1,635,012; July 5.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Reducing the viscosity characteristics of cellulose ethers. 1,635,013; July 5.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Changing the viscosity characteristics of nitrocellulosic materials. 1,648,509; Nov. 8.
- Seelbach, Kurt L., assignor to J. C. Miles, Cleveland, Ohio. Temperature-controlling appliance. 1,633,498; June 21.
- Seeley, George A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for braiding. 1,639,673; Aug. 23.
- Seeley, George A., Irvington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Press. 1,648,427; Nov. 8.
- Seelman, John J., Milwaukee, Wis. Dispensing device. 1,623,708; Apr. 5.
- Seels, Aubrey W., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Crown support for gas holders. 1,628,002; May 10.
- Seely, Chas. (See Conant, M. C. and Seely.)
- Seely, Glenn H., Akron, Ohio. System for control of boilers or the like. 1,641,934; Sept. 6.
- Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pattern-copying machine. 1,617,502; Feb. 15.
- Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,623,135; Apr. 5.
- Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,623,279; Apr. 5.
- Seely, Edwin E., assignor of one-half to National Concrete Metal Forms Corporation, New York, N. Y. Concrete form for building construction. 1,633,715; June 28.
- Seeman, Frederick A., assignor to Davenport Machine & Foundry Company, Davenport, Iowa. Jolt-roll-over mechanism. 1,627,348; May 3.
- Sefton Manufacturing Corporation. (See Hoge, Max, assignor.)
- Sefton Manufacturing Corporation. (See Lamboy, Lee W., assignor.)
- Segal, Herman, Bronx, N. Y. Phonograph reproducer. Des. 73,148; Sept. 13.
- Segal, Samuel, New York, N. Y. Casing for locks. 1,642,947; Sept. 13.
- Segal, Adolphe, 14, Montrouge, France. Explosive. 1,620,696; Mar. 15.
- Segelhorst, August L., Whittier, Calif. Packing device. 1,631,343; June 7.
- Segelhorst, August L., Whittier, Calif. Casing head. 1,637,055; July 26.
- Segelhorst, August L., Whittier, Calif. Slip handler. 1,637,056; July 26.
- Segelken, Herbert C., Phoenixia, N. Y. Oil can. 1,618,732; Feb. 22.
- Seigers, Thomas F., Sedalia, Mo. Axle-measuring instrument. 1,650,779; Nov. 29.
- Segrin, Oscar E., Springfield, and C. J. Clemens, East Longmeadow, assignors to Universal Candy and Chocolate Machinery Company, Inc., Springfield, Mass. Conveyer belt and means for guiding the same. 1,628,436; May 10.
- Seguin, Augustin. (See Seguin, Laurent and A.)
- Seguin, Augustin, Paris, France. Speedometer. 1,613,249; Jan. 4.
- Seguin, Augustin, Paris, France. Speedometer. 1,618,310; Feb. 22.
- Seguin, Augustin, Paris, France. Apparatus for measuring. 1,652,378; Dec. 13.
- Seguin, Joseph A., Winnipeg, Manitoba, Canada. Securing device for boxes. 1,647,938; Nov. 1.
- Seguin, Laurent, and A. Seguin, Paris, France. Flash-producing apparatus. 1,640,966; Aug. 30.
- Seguy, Jean D., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus of dephlegmation. 1,623,136; Apr. 5.
- Seiberling Rubber Company. (See Kilborn, K. B., and Wolfe, assignors.)
- Seibert, Herbert D., Brooklyn, N. Y. Slug case. 1,625,265; Apr. 19.
- Seibert, Max. (See Hartmann, M., and Seiberth.)
- Seibold, Albert, Muhlacker, near Pforzheim, Germany. Holder for balls of thread. 1,636,871; July 26.
- Seibt, Georg, Berlin-Schöneberg, Germany. Making thin-metal shapes. 1,625,914; Apr. 26.
- Seidel, Emil. (See Bildstein, P., and Seidel.)
- Seider, Emory P., River Forest, Ill., assignor to Stover Signal Engineering Company, Racine, Wis. Display pedestal. Des. 72,242; Mar. 15.
- Seidel, George F., P. O. Salts, and L. E. Whitcomb, Fremont, Nebr. Dipping shackle. 1,636,872; July 26.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture husk or similar article. Des. 72,450; Apr. 12.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture arm. Des. 72,451; Apr. 12.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Chandelier. Des. 72,452; Apr. 12.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Backplate for lighting fixture. Des. 72,453; Apr. 12.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture plate. Des. 72,454; Apr. 12.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture backplate. Des. 72,727; May 24.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture backplate. Des. 72,728; May 24.
- Seidler, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Chandelier. Des. 73,057; July 12.
- Seidemann, William A., Milwaukee, assignor to Blue Point Tool Company, Racine, Wis. Dispensing device. 1,627,870; May 10.
- Seiden, Samuel, Bronx, and C. G. McBride, New York, N. Y. Leveling device. 1,632,383; June 14.
- Selders, Irwin A., Reading, Pa. Steam superheater for locomotives. 1,629,005; May 17.
- Seifert, Charles H., Hempstead, N. Y. Rotary valve. 1,635,963; July 12.
- Seifert, Edward M., Rutherford, N. J. Tool for applying fasteners to fruit-basket tops. 1,643,612; Sept. 27.
- Seifert, Thomas H., Springtown, Pa. Mold. 1,649,549; Nov. 15.
- Seigh, Frank. (See Jupp, A. E., and Seigh.)
- Seigle, Peter G., Dunmore, and G. E. Dean, Scranton, Pa. Method of and apparatus for breaking coal. 1,620,838; Mar. 15.
- Seigle, William R., Mamaronock, assignor to Johns-Manville, Incorporated, New York, N. Y. Heat-insulating material and making it. 1,613,137; Jan. 4.
- Seigman, Harry, New York, N. Y. Adjustable phonograph repeater. 1,626,100; Apr. 26.
- Seigman, Harry, New York, N. Y. Rest for sadiron. 1,626,101; Apr. 26.
- Seikman, Edward, Wichita, Kans. Poultry feeder. 1,650,965; Nov. 29.
- Seitz, Leon A., Zurich, Switzerland. Wig. 1,635,099; July 5.
- Seller, Albert D., assignor of one-half to L. P. Somer, Mount Joy, Pa. Reinforced paper box. 1,643,554; Sept. 27.
- Seller, Bert, Algoma, Wis. Transmission case. 1,613,464; Jan. 4.
- Seller, Carrie. (See Korn, Francesca, assignor.)
- Seller, George J., Danville, Ill. Wall-building device. 1,632,514; June 14.
- Seller, Michael I., assignor to Keystone Reamer & Tool Co., Millersburg, Pa. Reaming jig. 1,621,137; Mar. 15.

- Seimei Hara and Goshikaisha Nakaqama Kogyo-Sho. (See Nakayama, Takasuke, assignor.)
- Selpt, Meinhardt, M. Peoria, Ill. Milk-kottle holder. 1,614,259; Jan. 11.
- Selzer, Jacob H., Marion, Ohio. Coaster sled. 1,635,641; July 12.
- Selzt, Alex. (See Gail, George E., assignor.)
- Selzt, Casper P., Hays, Kans. Theft alarm. 1,648,067; Nov. 8.
- Selzt, Delmer E. (See Lorenz, C., Kunish, and Selzt.)
- Selzt, Ernest O., assignor to C. M. Hall Lamp Co., Detroit, Mich. Vehicle lamp. 1,617,423; Feb. 15.
- Selzt, Ernest O., assignor to C. M. Hall Lamp Co., Detroit, Mich. Combined tail light and stop signal. 1,626,632; May 3.
- Selz, George H., jr. (See Selzt, Theobald F. and G. H., jr.)
- Selzt, Henry C., Niles, Ohio. Dirigible lamp for vehicles. 1,652,738; Dec. 13.
- Selzt, John F., Hollywood, Calif. Making motion pictures. 1,616,237; Feb. 1.
- Selzt, Oskar, Baden, assignor to the Firm Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Vacuum pump. 1,648,885; Nov. 8.
- Selzt, Theobald F. and G. H., jr., assignors to Selzt-Werke G. m. b. H., Kreuznach, Germany. Filter. 1,650,543; Nov. 22.
- Selzt-Werke G. m. b. H. (See Selzt, Theobald F., and G. H., jr., assignors.)
- Sell, William C., Palmer, N. Y. Paintbrush. 1,618,311; Feb. 22.
- Selztzinger, William M. (See Kischel, E. L., and Selztzinger.)
- Selz, Walter, Baden, Switzerland, assignor to General Electric Company. Speed-control system. 1,632,682; June 14.
- Selz, Walter, Baden, Switzerland, assignor to General Electric Company. Induction-motor exciting system. 1,637,057; July 26.
- Sekely, Andrew, and A. Ladanyi, New Castle, Pa. Rail joint. 1,652,739; Dec. 13.
- Sekinger, Otto, Zurich, assignor to Altorfer, Lehmann & Co., Zentralanlagensfabrik, Zolingen, Switzerland. Liquid-dispensing apparatus. 1,645,543; Oct. 18.
- Sekowsky, Hermann A., Milwaukee, Wis. Hydrocarbon burner. 1,630,139; May 24.
- Selby, Charles M., and O. P. Nystrom, assignors to Holland Furnace Company, Holland, Mich. Power-driven saw. 1,648,008; Nov. 8.
- Selby, Pearl E., et al. (See Nill, E. A., and Acker, assignors.)
- Selden Company. (See Canon, F. A., and Andrews, assignors.)
- Selden, James M., Pittsburgh, Pa. Poultry-trussing device. 1,633,499; June 21.
- Selden, James M., Pittsburgh, Pa. Carrying on catalytic reactions. 1,647,317; Nov. 1.
- Selden, Justice L., et al. (See Amato, Luciano, assignor.)
- Selden, Justice L., and L. Amato, South Berkeley, Calif. Illuminated pistol. 1,615,409; Jan. 25.
- Selective Treatment Company Limited. (See Dolbear, S. H., and Etman, assignors.)
- Selective Treatment Company Limited. (See Dolbear, S. H., and Zachert, assignors.)
- Self, Thomas H. (See Fontaine, R. A., and Self.)
- Self-Acting Switch Co. (See Eppley, Charles S., assignor.)
- Self-Feeding Vaporizer Corporation. (See Berdon, Albert E., assignor.)
- Self Locking Machine Company. (See Evers, Arthur J., assignor.)
- Selig, Otto, New York, N. Y. Fuel-mixing device for internal-combustion engines. 1,646,935; Oct. 25.
- Selhorst, Bernard. (See Oppenheim, T. H., and Selhorst.)
- Selgman, Meyer, New York, N. Y. Device for supporting radio parts. 1,643,319; Sept. 27.
- Selgman, Richard, Wimbledon, assignor to The Aluminum Plant and Vessel Company Limited, London, England. Heat-interchange apparatus. 1,622,006; Mar. 22.
- Selgmann, Arthur, Bremen, German. Low-temperature cooling, liquefaction, and separation of gases. 1,615,597; Jan. 25.
- Selgstein, Harry B., et al. (See Steenstra, George, assignor.)
- Selgstein, Morris F., et al. (See Steenstra, George, assignor.)
- Selgstein, Sidney J., et al. (See Steenstra, George, assignor.)
- Sell, Helmut, Berlin-Siemensstadt, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, Germany. Microphonic relay. 1,624,511; Apr. 12.
- Sell, Otto R., Colorado Springs, Colo. Headlight construction. 1,647,890; Nov. 1.
- Sellaro, Sam, et al. (See Brown, W., and Morano, assignors.)
- Sellers, G. I., and Sons Company. (See Cornwell, W., and Manthey, assignors.)
- Sellers, George, Elwood, Ind. Hinge. Des. 74,029; Dec. 6.
- Sellers, George, Elwood, Ind. Hinge. Des. 74,076; Dec. 13.
- Sellers, William, & Company. (See Kneass, Strickland L., assignor.)
- Sells, Millar W., assignor to Peerless Husker Company, Buffalo, N. Y. Corn-husking machine. 1,634,768; July 5.
- Sells, Millar W., assignor to Peerless Husker Company, Inc., Buffalo, N. Y. Machine for handling and treating corn. 1,639,706; Aug. 23.
- Selman, Nathan, and J. W. Young, Cincinnati, Ohio. Ash-can-dumping apparatus. 1,614,400; Jan. 11.
- Selmer, Fredrik, Christiania, Norway. Salt-heating apparatus for building purposes. 1,631,699; June 7.
- Selway, Edward B., Leetsdale, Pa. Adjustable floor and roof form. 1,652,056; Dec. 6.
- Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Building up self-heating electrodes. 1,639,007; Aug. 16.
- Semak, Peter L., Monongahela, Pa. Tire-inflating device. 1,647,818; Nov. 1.
- Semashko, John J., Morrisville, Pa. Tile-receiving machine. 1,639,576; Aug. 16.
- Semenov, Ivan A., Plzen, Czechoslovakia. Cigarette-making machine. 1,636,489; July 19.
- Semke, John A. (See Kalso, Nyla Q., assignor.)
- Semler, Clyde M., Akron, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Apparatus for repairing tires. 1,616,066; Feb. 1.
- Semler, Clyde M., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-repair vulcanizer. 1,637,879; Aug. 2.
- Semml, Alfred, and W. Schaffer, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, and Radio Corporation of America. Arrangement for controlling tube senders. 1,626,759; May 3.
- Semon, Karl F., East Orange, N. J. Shock-eliminating vehicle suspension. 1,651,475; Dec. 6.
- Semple, Charles H., Youngstown, assignor to Semple-Lee Processes, Inc., Akron, Ohio. Manufacturing inner tubes. 1,634,160; June 28.
- Semple, Charles H., Canton, assignor to Semple-Lee Processes, Inc., Akron, Ohio. Inner tube for automobile tires. 1,634,161; June 28.
- Semple, Charles H., Canton, assignor to Semple-Lee Processes, Inc., Akron, Ohio. Method and apparatus for making tubes. 1,643,999; Oct. 4.
- Semple-Lee Processes, Inc. (See Semple, Charles H., assignor.)
- Senat, Herbert D., Glen Olden, Pa. Box. 1,624,439; Apr. 12.
- Senck, Andrew, Detroit, Mich. Indicator. 1,649,197; Nov. 15.
- Sendelbach, Edward C., Philadelphia, Pa. Wood disk wheel. 1,620,398; Mar. 8.
- Sendlebeck, Henry, New York, N. Y. Hair comb. 1,614,681; Jan. 18.
- Sendinger, Arthur, Glaswerke G. m. b. H. (See Wurms, Arthur P., assignor.)
- Seneca Falls Machine Co. (See Ashton, Richard A., assignor.)
- Seneca Falls Machine Company. (See King, N., and Ashton, assignors.)
- Senecal, Aaron T., Rock Island, Ill. Door-controlling device for traps. 1,634,434; Dec. 27.
- Sentile, Edward M., and F. Eckert, Buffalo, N. Y. Door closure for railway cars. 1,628,920; May 17.
- Seng Company, The. (See Dyke, Darrell F., assignor.)
- Sengebusch, Hans, assignor to Automatic Electric Inc., Chicago, Ill. Hand telephone. 1,618,851; Jan. 11.
- Sengbusch, Hans, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone-switching apparatus. 1,633,684; June 28.
- Senger, Edmond H., Los Angeles, Calif. Body rest for washbats. 1,639,113; Aug. 16.
- Senglar, John J., Tallmadge, assignor to The Firestone Steel Products Company, Akron, Ohio. Lug-making press. 1,628,616; May 10.
- Senior, Frederick J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Method of and apparatus for producing cap screws and the like. 1,649,929; Nov. 22.
- Senn, Alfred H., College Point, N. Y. Page holder. 1,615,889; Feb. 1.
- Senn, Carl, Petrolia, Calif. Cap wrench. 1,618,480; Feb. 22.
- Senn, Carl, Petrolia, Calif. Wrench. 1,648,661; Nov. 8.
- Senn, Caspar, assignor to Maschinenfabrik Rüttl, formerly Caspar Honegger, Rüttl, Switzerland. Lay structure for power looms. 1,636,717; July 26.
- Sennett, John H., Woodlawn, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Pipe-welding plant. 1,640,220; Aug. 23.
- Sensenman, William B., Los Angeles, Calif. Concentrating liquids. 1,651,557; Dec. 6.
- Sensbrenner, Frank E. (See Preimesberger, Alois L., assignor.)
- Senter, Carl U., Los Angeles, Calif. Portable wall bracket. 1,622,057; Mar. 22.
- Senter, James D., et al. (See Bobbitt, Conrad E., assignor.)
- Senter, Ralph T., assignor to The J. C. Brill Company, Philadelphia, Pa. Umbrella top. 1,633,066; Dec. 20.
- Sensler, Nobuo, Kagawa-ken, Japan, assignor to General Electric Company. Switching arrangement. 1,651,842; Dec. 6.
- Sepúlveda, Benjamin U., Santiago, Chile. Propeller. 1,639,785; Aug. 23.

- Sera, Ryumatsu, Glendale, Calif. Lawn mower. 1,622,611; Mar. 29.
- Seraphin, Theophilus A., Philadelphia, Pa. Automatic tank gauge. 1,621,857; Mar. 22.
- Serchi, Enrico, Siena, Italy, assignor to Isidore Braggiotti, Brookline, Mass. Puncture-sealing composition for pneumatic tires. 1,633,500; June 21.
- Serdy, Matthew, Royal Oak, Mich. Damper for fireplaces. 1,650,159; Nov. 22.
- Sergel, Ruth F., and L. H. Meyers, Pittsburgh, Pa. Educational card game. 1,617,772; Feb. 15.
- Sergel, Ruth F., and L. H. Meyers, Pittsburgh, Pa. Educational card game. 1,617,773; Feb. 15.
- Sergent, George S., Greensboro, N. C. Edger. 1,654,435; Dec. 27.
- Sergent, Walter H., Middletown, N. Y., assignor to Ideal Wrapping Machine Company. Belt feed mechanism for wrapping machines. 1,654,140; Dec. 27.
- Serio, Harry P., Elmira, N. Y. Truss. 1,615,045; Jan. 18.
- Serling, Maurice E., et al. (See Pfister, John R., assignor.)
- Serpa, Manuel S., Rodeo, Calif. Window-screen hanger. 1,622,927; Mar. 29.
- Serra, Julius H., West New Brighton, N. Y. Concrete wall construction and block therefor. 1,624,369; Apr. 12.
- Serra Sió, José, Barcelona, Spain. Spindle bearing. 1,653,457; Dec. 20.
- Serravallo, Vittorio, Trieste, Italy, and E. Wels, Vienna, Austria. Motor-fuel-testing composition. 1,615,143; Jan. 18.
- Serreil, Arthur H., et al. (See Mason, Frank B., assignor.)
- Serrell, John J., Elizabeth, assignor to Smith and Serrell, Newark and Mahwah, N. J. Spring cross yieldable coupling. 1,635,150; July 5.
- Serrurier, Iwan, Altadena, Calif. Picture-projecting apparatus. 1,643,134; Sept. 20.
- Serva, Adam A., assignor to The United Electric Company, Canton, Ohio. Pulley. 1,632,512; June 14.
- Servais, Fernand J. J., Westminster, England. Signal apparatus for vehicles. 1,650,471; Nov. 22.
- Service Bureau, Inc. (See Cobb, Charles H., assignor.)
- Servidor Company, The. (See Smith, Harrison A., assignor.)
- Servoss, Willard S., Briarcrest, assignor of one-third to H. O. Orborne, Moose Jaw, Saskatchewan, Canada. Attachment for weed burners. 1,649,550; Nov. 15.
- Sesamee Company, The. (See Hatch, Alexander G., assignor.)
- Sesamee Company, The. (See Wildrick, Meade, assignor.)
- Sessions, Frank L. (See Wolcott, Robeson B., assignor.)
- Sessions, Frank L., Lakewood, Ohio. Electric butt-seam welding and apparatus therefor. 1,638,804; Nov. 29.
- Sessions, Frank L., Lakewood, Ohio. Electric butt-seam welding and apparatus therefor. 1,630,866; May 31.
- Sessions, Frank L., Lakewood, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio. Flying shears. 1,648,829; Nov. 8.
- Set, Antonio, San Jose, and J. Lolocono, near San Jose, Calif. Signal arm. Des. 73,210; Aug. 2.
- Setchfield, James, assignor of one-half to T. J. Quirk, Portland, Oreg. Fireplace damper. 1,636,250; July 19.
- Settgast, Bernhard, assignor to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Switching device. 1,651,414; Dec. 6.
- Setten, Reginald S., Hockley, Birmingham, England. Machine for manufacturing tubular or tubelike articles. 1,652,912; Dec. 13.
- Settle, Louis. (See Piper, Joseph A., assignor.)
- Setz, Bertha E., administratrix. (See Setz, Hans R., assignor.)
- Setz, Hans R., deceased, Upper Darby Township, Philadelphia County, Pa.; B. E. Setz, administratrix. Cylinder structure for internal-combustion engines. 1,623,639; Apr. 5.
- Setzhauf, Werner, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone system. 1,627,206; May 3.
- Setzer, Albert, Providence, R. I. Storage battery. 1,618,112; Feb. 15.
- Setzler, Horace B., Coffeyville, Kans., assignor to The National Refining Company, Cleveland, Ohio. Producing gasoline. 1,629,810; May 24.
- Sevener, William T. (See Terwilliger, S. M., and Sevener.)
- Sever, Fred, and M. Johnson, Latouche, Alaska. Clothes cleaner. 1,643,823; Sept. 27.
- Severance, Malvern W. (See Dunzweiler, C. J., and Severance.)
- Severin, Carl, Cleveland Heights, Ohio, assignor to General Electric Company. Filament for incandescent lamps or similar articles. 1,632,769; June 14.
- Severin, Frank W., Chicago, Ill. Fuel-feed mechanism for oil engines. 1,640,579; Aug. 30.
- Severin, Frank W., assignor to Venn-Severin Machine Co., Chicago, Ill. Governing mechanism for oil engines. 1,640,578; Aug. 30.
- Severino, Ralph, Austin, Pa. Mail-delivery apparatus. 1,617,170; Feb. 8.
- Seyd, Arthur B., assignor to A. Stucki, Pittsburgh, Pa. Side bearing. 1,646,769; Oct. 25.
- Severson, Myron L., Passaic, N. J. Furnace. 1,641,868; Sept. 6.
- Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Tool holder with side clamp. 1,646,494; Oct. 25.
- Sevigny, Hollis J., Sanford, Me. Oil-gauge-rod wiper. 1,653,315; Dec. 20.
- Seville, William, assignor to Draper Corporation, Hopeville, Mass. Starting and stopping mechanism for motors. 1,631,000; May 31.
- Sewall Paint & Varnish Company. (See Bartling, Howard G., assignor.)
- Seward, Edward A., and E. B. Rodgers, Columbus, Ga. Terminal protective apparatus. 1,631,555; June 7.
- Seward, Edward C., Brooklyn, N. Y., assignor to Paragon Coals & Gas Company, Inc., Paterson, N. J. Receiptacle closure. 1,645,164; Oct. 11.
- Seward, Edwin C. (See Alexander, Carl Z. and E. S., assignors.)
- Seward, Ira W., assignor of seven twenty-fourths to I. W. Seward, seven twenty-fourths to L. F. Ballard, seven twenty-fourths to J. C. Williams, and three twenty-fourths to Hiwanda Currey, Joplin, Mo. Internal-combustion engine. 1,648,597; Nov. 8.
- Seward, Ira W., et al. (See Seward, Ira W., assignor.)
- Seward, James W., et al. (See Bock, Charles S., assignor.)
- Seward, Leslie W., Atlantic City, N. J., assignor to Record Book Cabinet Company, Bookcase. 1,639,387; Aug. 16.
- Seward, Owen L. (See McClellan, C. R., and Seward.)
- Seward, Owen L., Meriden, Conn. Counting mechanism. 1,618,140; Feb. 15.
- Seward Trunk and Bag Company. (See McKenney, Charles S., assignor.)
- Sewell, Benjamin F. B., Chula, Va. Tractor attachment. 1,623,815; Apr. 5.
- Sewell Cushion Wheel Company. (See Sewell, H. J., and Wilkin, assignors.)
- Sewell, Herbert J., and L. C. Wilkins, assignors to Sewell Cushion Wheel Company, Detroit, Mich. Steering wheel. 1,646,172; Oct. 18.
- Sewell, John B., Zanesfield, Ohio. Snow-clearing apparatus for automobiles. 1,624,800; Apr. 12.
- Sewost, Henry J., Cleveland, Ohio, assignor to Zowie Manufacturing Company. Razor-blade-sharpening device. 1,616,004; Feb. 1.
- Sexton, Augustus H., assignor to D. L. Short, Philadelphia, Pa. Hair curling and waving device. 1,626,254; Apr. 26.
- Sexton, George A., Winchester, Mass. Test measure. 1,638,415; Aug. 9.
- Sexton, Lawrence E., assignor to Sears, Roebuck and Co., Chicago, Ill. Tire. Des. 72,115; Mar. 1.
- Sexton, Lawrence E., assignor to Sears, Roebuck and Co., Chicago, Ill. Tire. Des. 72,116; Mar. 1.
- Seybold, Charles. (See Valiquette, W. L., and Seybold.)
- Seybold Machine Company, The. (See Valiquette, W. L., and Seybold, assignors.)
- Seybold, Fritz, Zwickau, Germany. Stepped furnace grate. 1,644,953; Oct. 11.
- Seydel Chemical Co., The. (See Seydel, Paul, assignor.)
- Seydel Chemical Company. (See Spencer, Hugh M., assignor.)
- Seydel, Paul, Nitro, W. Va., assignor to The Seydel Chemical Co. Antispasmodic. 1,621,787; Mar. 22.
- Seyer, Joseph, Hawthorne, assignor to Standard Silk Dyeing Co., Paterson, N. J. Washable silk piece goods and dyeing it. 1,615,520; Jan. 25.
- Seyfert, John P., assignor to Atlas Metal Parts Company, Milwaukee, Wis. Pipe hanger. 1,638,635; Aug. 16.
- Seyfried, C. J. (See Davis, Clawson, assignor.)
- Serl, Joseph C., Chicago, Ill. Filing device. 1,614,445; Jan. 11.
- Seymour, Benjamin F., Washington, D. C. Combined resilient transmission and bearing. 1,620,136; Mar. 8.
- Seymour, Benjamin F., Washington, D. C. Combined resilient transmission and bearing. 1,638,133; June 21.
- Seymour, Benjamin F., Washington, D. C. Vehicle construction and suspension. 1,637,355; Aug. 2.
- Seymour, Benjamin F., Washington, D. C. Combined resilient suspension and transmission. 1,637,392; Aug. 2.
- Seymour, Benjamin F., Washington, D. C. Vehicle suspension. 1,643,681; Sept. 27.
- Seymour, Benjamin F., Washington, D. C. Combined resilient bearing and transmission. 1,643,682; Sept. 27.
- Seymour, Burton W., sr., Jamestown, N. Y. Treating oil wells. 1,623,890; Apr. 5.
- Seymour, Charles R., assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-cutting machine. 1,626,878; May 2.
- Seymour, Frederick W., Flushing, N. Y. Variable pathway. 1,647,474; Nov. 1.
- Seymour, James M., Newark, N. J. Heat-transfer apparatus. 1,627,713; May 10.
- Seymour, John P., Buffalo, assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive fabric and flexing the same. 1,647,475; Nov. 1.
- Seymour, Julius H., and T. S. Spear, Bartow, Fla. Gate valve. 1,613,138; Jan. 4.
- Seymour, Julius H., and T. S. Spear, Bartow, Fla. Gate valve. 1,617,503; Feb. 15.
- Seymour Mfg. Co. (See Halpin, James F., assignor.)
- Seymour, Robert W., Chicago, Ill. Garage. 1,631,068; May 31.

- Seymour, William, Sault Ste. Marie, Ontario, Canada. Dip-pipe construction for the hydraulic mains of gas plants. 1,628,334; May 10.
- Seymour, William, jr., J. O. Groff, and A. Schaff, assignors to Joseph T. Ryerson & Son, Inc., Chicago, Ill. Metal-bending machine. 1,631,386; June 7.
- Shackelford, Benjamin E., East Orange, and W. H. T. Holden, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Protective device. 1,653,375; Dec. 20.
- Shackelford, Edward H., jr., assignor to Hebbard Manufacturing Company. Joplin, Mo. Screen-vibrating mechanism. 1,632,927; June 21.
- Shackelford, Eckford L., W. B. D. Penniman, Baltimore, Md., and J. R. Cain, Washington, D. C., assignors to Radiac Metals, Ltd., Masterton, New Zealand. Alloy. 1,622,977; Mar. 29.
- Shackelford, Orle, Fairmont, W. Va., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for and method of annealing glassware. 1,642,790; Sept. 20.
- Shackleton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,613,964; Jan. 11.
- Shackleton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transformer circuits. 1,645,185; Oct. 11.
- Shackleton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transformer. 1,616,200; Feb. 1.
- Shackleton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Inductance device and manufacturing the same. 1,624,030; Apr. 12.
- Shackleton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Alternating-current supply means. 1,654,097; Dec. 27.
- Shackleton, Samuel P. (See Glezen, L. L., Shackleton, and Vroom.)
- Shackleton, Samuel P., Wyoming, N. J., assignor to American Telephone and Telegraph Company. Composite ringer. 1,634,271; July 5.
- Shackleton, Samuel P., Wyoming, N. J., and L. L. Glezen, New Brighton, N. Y., assignors to American Telephone and Telegraph Company. Cord-circuit repeater. 1,635,227; July 12.
- Shackleton, Samuel P., Wyoming, N. J., and J. T. Schott, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Impulse-registering device. 1,653,736; Dec. 27.
- Shadbolt, Anna A., executrix. (See Shadbolt, W. O., and Marklein.)
- Shadbolt, William O., deceased, by A. A. Shadbolt, executrix, and O. Marklein, Brooklyn, N. Y.; said Marklein assignor of his interest to said A. A. Shadbolt as executrix. Vehicle. 1,629,543; May 24.
- Shadrick, Richard H., assignor to A. E. Carlsen, Minneapolis, Minn. Safety cut-out for gas mains and the like. 1,648,662; Nov. 8.
- Shaeffer, Julia E., Philadelphia, Pa. Shampoo shield. 1,640,676; Aug. 30.
- Shafer, Alfred E. M., Lehighton, and A. A. Norman, Tamagua, Pa. Traveling grate stoker. 1,630,220; May 24.
- Shafer, Harvey G., Indianapolis, Ind. Gear grinder. 1,639,471; Aug. 16.
- Shafer, Innes H., Richmond, Va. Money receptacle. 1,644,495; Oct. 4.
- Shafer, James A., Buffalo, N. Y. Hopper freight car. 1,623,071; Apr. 6.
- Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Loading skip for concrete mixers. 1,630,221; May 24.
- Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Loading skip for concrete mixers. 1,640,221; Aug. 23.
- Shaff, Ernest H., assignor to William H. Keller, Inc., Grand Haven, Mich. Fluid-pressure-actuated tool. 1,631,163; June 7.
- Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Governor for pressure-fluid-operated tools. 1,640,620; Aug. 30.
- Shaff, Ernest H., assignor to William H. Keller, Inc., Grand Haven, Mich. Impact tool. 1,633,501; June 21.
- Shaff, Ernest H., assignor to Wm. H. Keller, Inc., Grand Haven, Mich. Pneumatic motor. 1,638,512; Aug. 9.
- Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Fluid-pressure-operated tool. 1,639,313; Aug. 16.
- Shaff, Ernest H., assignor to William H. Keller, Inc., Grand Haven, Mich. Fluid-pressure-operated tool. 1,645,166; Oct. 11.
- Shaff, Ernest H., assignor to William H. Keller, Inc., Grand Haven, Mich. Governor for pressure-fluid-operated tools. 1,650,048; Nov. 22.
- Shaffer, Daniel J., assignor of one-half to L. E. Worth, Aurora, Ill. Water heater. 1,625,286; Apr. 19.
- Shaffer, Frank E., assignor of one-half to W. Placke, St. Libory, Nebr. Automobile light plug. 1,641,870; Sept. 6.
- Shaffer, Glenn A., and F. H. Wirtz, assignors to Fort Howard Paper Company, Green Bay, Wis. Paper-folding machine. 1,652,417; Dec. 13.
- Shaffer, John C., and L. S. Mankin, assignors to Tulsa Valve Company, Tulsa, Okla. Water gauges for boilers. 1,625,828; Apr. 26.
- Shaffer, William D. (See Collins, James H., assignor.)
- Shaffer, Wm. D. (See Wigle, Wilson B., assignor.)
- Shakal, Louis, Tampa, Fla. Smoking pipe. 1,614,903; Apr. 26.
- Shakeproof Lock Washer Company, Division of Illinois Tool Works. (See Hosking, Richard T., assignor.)
- Shakeproof Lock Washer Company. (See Hosking, Richard T., assignor.)
- Shakespeare Company. (See Russell, Samuel G., assignor.)
- Shakespeare, Joseph, Brooklyn, N. Y. Vehicle body construction. 1,614,401; Jan. 11.
- Shakespeare, Valentine E., West New Brighton, N. Y. Transmission case. 1,622,978; Mar. 29.
- Shald, Bruce J., O'Neill, Nebr. Electric signal for railway crossings, public highways, and the like. 1,625,873; Apr. 26.
- Shamberger, John P., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Truck. 1,649,134; Nov. 15.
- Shanaberger, Carl V., Rockingham, Pa., assignor to Mine Appliances Company. Coal-mining machine. 1,654,055; Dec. 27.
- Shank, Roy B., Woodside, N. Y., assignor to American Telephone and Telegraph Company. Preventing electrical interference. 1,633,611; June 28.
- Shank, Roy B., Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Cross-fire-neutralizing system. 1,649,863; Nov. 22.
- Shand, Errol B., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutation of synchronous converters. 1,621,032; Mar. 15.
- Shand, Errol B., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Double-range variable-speed induction motor set. 1,637,393; Aug. 28.
- Shank, Oliver. (See Rogerson, Grace, assignor.)
- Shankweiler, Earl A., Allentown, Pa. Loud speaker. 1,641,605; Sept. 6.
- Shann, Oscar A., Brooklyn, and F. A. Kuntz, Woodhaven, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound-producing device. 1,645,823; Oct. 18.
- Shannon, Ellwood M., Bala, Pa. Mallet locomotive. 1,621,339; Mar. 15.
- Shannon, Ellwood M., Bala, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Exhaust nozzle for locomotives. 1,615,238; Jan. 25.
- Shannon, Ellwood M., Bala, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Throttle valve. 1,618,113; Feb. 15.
- Shannon, Ellwood M., Bala, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Cylindrical valve for locomotives. 1,632,629; June 14.
- Shannon, Ellwood M., Bala, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Cylindrical valve. 1,633,737; Dec. 27.
- Shannon, James D., Dines, Wyo. Crank-case ventilator. 1,654,147; Dec. 27.
- Shannon, James L., Springfield, Mass. Flash light. 1,613,203; Jan. 4.
- Shannon, Philip F. (See Shannon, Richard S. and P. F.)
- Shannon, Richard S. and P. F., Denver, Colo. Portable self-contained oil-well heater. 1,639,008; Aug. 16.
- Shannon, Walter N., jr., San Bernardino, Calif. Truck. 1,627,253; May 3.
- Shannon, William J., East Cleveland, Ohio. Ballast-cleaning machine. 1,632,045; June 14.
- Shapiro & Aronson, Inc. (See Klein, Max, assignor.)
- Shapiro, David H., Montreal, Quebec, Canada. Composition used for marking on cloth and the like. 1,622,353; Mar. 29.
- Shapiro, Hyman, Brooklyn, assignor to M. Propp and L. Propp, trading under the firm name The M. Propp Co., New York, N. Y. Electric socket. 1,646,499; Oct. 25.
- Shapiro, Jacob L., New York, N. Y. Tooth guard. 1,644,234; Oct. 2.
- Shapiro, Max, New York, N. Y. Egg-testing device. 1,643,093; Sept. 20.
- Shapiro, Philip C., assignor to Siegel Light Supply Company, Philadelphia, Pa. Smoking stand. Des. 72,455; Apr. 12.
- Shapiro, Philip C., assignor to Siegel Light Supply Company, Philadelphia, Pa. Bench. Des. 73,211; Aug. 2.
- Shapiro, Sam A., assignor, by mesne assignments, to A. Dorsey, New York, N. Y. Illuminated-dial control. 1,639,618; Aug. 16.
- Shapiro, Saul, New York, N. Y., assignor to Arctcraft Metal Stamping Corporation. Lighting fixture. 1,634,561; July 5.
- Shapiro, Saul, New York, N. Y., assignor to Arctcraft Metal Stamping Corporation. Making straps. 1,634,562; July 5.
- Shapiro, Theodore, assignor to Arctcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting fixture. Des. 73,229; Aug. 9.
- Shapiro, Theodore, assignor to Arctcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting fixture. Des. 73,240; Aug. 9.
- Shapiro, Theodore, assignor to Arctcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting fixture. Des. 73,241; Aug. 9.

- Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting fixture. Des. 73,242; Aug. 9.
- Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting fixture. Des. 73,243; Aug. 9.
- Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting fixture. Des. 73,244; Aug. 9.
- Shardlow, Harry, assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting-fixture bracket. Des. 72,456; Apr. 12.
- Shardlow, Harry, assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting fixture. Des. 73,270; Aug. 16.
- Shardlow, Harry, assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting fixture. Des. 73,345; Aug. 23.
- Shardlow, Harry, assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting-fixture bracket. Des. 73,674; Oct. 18.
- Shardlow, Harry, assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting fixture. Des. 73,872; Nov. 15.
- Shardlow, Harry, assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting-fixture bracket. Des. 74,156; Dec. 27.
- Sharkey, Albert G., New York, N. Y. Traveling sign. 1,650,659; Nov. 29.
- Sharp & Dohme, Inc. (See Dohme, Alfred R. L., assignor.)
- Sharp, Edward, jr., Brookline, Mass. Sign. 1,629,229; May 17.
- Sharp, George G., Wyoming, N. J. Passenger-skip construction. 1,629,589; May 24.
- Sharp, Isaac M., San Francisco, Calif. Oil burner. 1,625,400; Apr. 10.
- Sharp, John B., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Closure seal. 1,622,547; Mar. 29.
- Sharp, John H., Chicago, Ill. Automobile theft alarm. 1,639,814; Aug. 16.
- Sharp, Joseph W., Philadelphia, Pa. Gas burner. 1,632,513; June 14.
- Sharp, Lillian R. (See Sharp, Robert H., assignor.)
- Sharp, Millard K., Sharpsburg, Ill. Temporary stringer for telegraph, telephone, and electrical transmission lines. 1,649,586; Nov. 22.
- Sharp, Peter, Perth, Scotland. Bobbin for spinning machines. 1,642,972; Sept. 20.
- Sharp, Robert H., assignor to L. R. Sharp, doing business as Perfect Powder Puff Co., Chicago, Ill. Rouge. 1,614,211; Jan. 11.
- Sharp, William E., assignor to Grip Nut Company, Chicago, Ill. Lock nut and making the same. 1,627,207; May 3.
- Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 72,729; May 24.
- Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 72,730; May 24.
- Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 72,970; June 28.
- Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 73,346; Aug. 23.
- Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 73,585; Oct. 4.
- Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Radiant for gas heaters. Des. 73,762; Nov. 1.
- Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Radiant for gas heaters. Des. 73,806; Nov. 8.
- Sharpe, William A., et al, trustees. (See Rogers, Harry C., assignor.)
- Sharpleigh, James H., Mountain Lakes, N. J., and C. A. Bigelow, assignors to Hercules Powder Company, Wilmington, Del. Making nitric acid. 1,653,023; Dec. 20.
- Sharples, Arthur E., Astoria, N. Y. Ring cigarette holder. 1,645,877; Oct. 18.
- Sharples, David T., assignor to The Sharples Separator Company, West Chester, Pa. Separator. 1,644,615; Oct. 4.
- Sharples, Philip M., assignor to The Sharples Separator Company, West Chester, Pa. Centrifugal milk separator. 1,634,751; July 5.
- Sharples, Richard G., Radcliffe, and C. Wilbraham, Worsley, Manchester, England. Machine for winding yarn. 1,622,007; Mar. 22.
- Sharples Separator Company, The. (See Sharples, David T., assignor.)
- Sharples Separator Company, The. (See Sharples, Philip M., assignor.)
- Sharples Specialty Company, The. (See Ayres, Eugene E., jr., assignor.)
- Sharples Specialty Company, The. (See Brewster, Oswald C., assignor.)
- Sharples Specialty Company, The. (See Jones, Leo D., assignor.)
- Sharples Specialty Company, The. (See Jones, L. D., and Ayres, assignors.)
- Sharpless, Stewart L., Milwaukee, Wis. Multicolor-printing machinery. 1,621,607; Mar. 22.
- Sharpless, Stewart L., Milwaukee, Wis. Tripping mechanism for printing machinery. 1,626,304; Apr. 26.
- Sharpsville Boiler Works Co. (See Fagan, Charles D., assignor.)
- Sharrard, George M., White Plains, assignor to Book Saver Company, Port Chester, N. Y. Reinforced book cover. 1,618,743; Feb. 22.
- Shartle Brothers Machine Company, The. (See Shartle, C. W., and Bridge, assignors.)
- Shartle, Charles W., Middletown, Ohio. Stock beater. 1,624,875; Apr. 12.
- Shartle, Charles W., and A. E. Bridge, assignors to The Shartle Brothers Machine Company, Middletown, Ohio. Paper drier. 1,614,694; Jan. 18.
- Sharwood, Sydney E., Lakeland, Fla., assignor to The F. H. Lawson Company, Cincinnati, Ohio. Bathroom wall fixture. Des. 72,804; June 7.
- Shasteen, Charles H., La Junta, Colo. Track jack. 1,646,770; Oct. 25.
- Shasteen, Donald, Toledo, Ohio. Figure toy. 1,649,135; Nov. 15.
- Shattuck, S. W., Chemical Company, The. (See Potter, John S., assignor.)
- Shattuck, William P., Minneapolis, Minn. Clothes wringer. 1,641,204; Sept. 6.
- Shaw, Louis, and O. I. Farrington, Salem, Mass. Locking device for pulleys. 1,622,680; Mar. 29.
- Shaughnessy, Bernard F., Brooklyn, N. Y. Combination tool. 1,615,410; Jan. 25.
- Shaughnessy, Bernard F., Brooklyn, N. Y. Incinerator. 1,651,636; Dec. 6.
- Shaughnessy, John L., Harvey, assignor of one-half to J. V. Mond, Chicago, Ill. Disappearing rabbit for dog races. 1,628,518; May 10.
- Shaunessey, Martha, Chicago, Ill. Needle guard. 1,617,223; Feb. 8.
- Shave, George F., Lyndhurst, South Victoria, Australia. Reversible stump-jump disk plow. 1,636,079; July 19.
- Shaver, Archibald G., Chicago, Ill., assignor to The Regan Scale Device Company, Inc., New York, N. Y. Speed circuit controller. 1,641,461; Sept. 6.
- Shaver, Lester W., San Diego, Calif. Tool attachment for hammers. 1,620,923; Mar. 15.
- Shaver, Roy F. B., Los Angeles, Calif. Model yacht. 1,639,707; Aug. 23.
- Shaw, Arthur, Chicago, Ill. Cattle guard. 1,618,555; Feb. 22.
- Shaw, Arthur J., Spokane, Wash. Cattle guard. 1,654,056; Dec. 27.
- Shaw, Arthur L., assignor to Chicago Automatic Conveyor Co., Chicago, Ill. Screen for conveyers. 1,645,405; Oct. 11.
- Shaw, Belle H. (See Shaw, James, assignor.)
- Shaw, David E., Milwaukee, Wis. Utensil. 1,621,758; Mar. 22.
- Shaw, Edmund, Chicago, Ill. Sand cleaning and classifying device. 1,637,625; Aug. 2.
- Shaw, Ernest C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Packer. 1,641,698; Sept. 6.
- Shaw, Fred W., Cumberland Center, Me. Toy building block. 1,636,080; July 19.
- Shaw, George A., Siloam Springs, Ark. Plant-setting machine. 1,638,368; Aug. 9.
- Shaw, George W., Philadelphia, Pa. Circuit closer. 1,637,887; Aug. 2.
- Shaw, George W., Philadelphia, Pa. Lubricating system. 1,652,642; Dec. 13.
- Shaw, Harold F., Leominster, Mass. Combined frame and body with hood for a baby carriage. Des. 72,500; Apr. 19.
- Shaw, Harold N., Milwaukee, Wis. Electric heater. 1,629,744; May 24.
- Shaw, Harry J., Toledo, Ohio. Concrete mixture. 1,615,315; Jan. 25.
- Shaw, James, San Francisco, Calif. System of frost prevention for orchards. 1,619,378; Mar. 1.
- Shaw, James, San Francisco, Calif. Fuel-feed device for internal-combustion engines. 1,619,379; Mar. 1.
- Shaw, James, San Francisco, assignor to B. H. Shaw, Lodi, Calif. Manufacture of paper-pulp bottles and the like. 1,632,928; June 21.
- Shaw, John C., assignor to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Bourdon-tube spring. 1,632,749; June 14.
- Shaw, John C., and R. D. assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Making segmental laminated gears. 1,636,670; July 19.
- Shaw, John E., Murphys, Calif. Drill-supporting structure. 1,629,745; May 24.
- Shaw, John F., Somersworth, N. H., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading shuttle for looms. 1,640,618; Nov. 15.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Gear-shift-rod lock. 1,614,998; Jan. 18.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Strike plate. 1,626,432; Apr. 26.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Key-cutting device. 1,628,637; May 10.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. 1,645,298; Oct. 11.

- Shaw, John S., Leeds, England. Furnace for melting and refining glass and other like purposes. 1,636,151; July 19.
- Shaw, Joseph, New York, and J. W. Berwick, assignors, by mesne assignments, to United Color Pictures, Inc., Mount Vernon, N. Y. Method of and apparatus for treating continuous films. 1,615,047; Jan. 18.
- Shaw, Lew W. (See Simpson, Robert, assignor.)
- Shaw, Louis E., East Orange, N. J. Radiodial. 1,629,891; May 24.
- Shaw, Marguerite, Venice, Calif. Box. Des. 73,105; July 19.
- Shaw, Nelson T. (See Woods, W. G., and Shaw.)
- Shaw, Percy W., Lynn, Mass. Uniting metal sections. 1,617,224; Feb. 8.
- Shaw, Robert D. (See Shaw, John C. and R. D.)
- Shaw, Samuel H., New York, assignor to Universal Shock Eliminator, Inc., Long Island City, N. Y. Bumper. Des. 71,930; Jan. 25.
- Shaw, Samuel H., New York, assignor to Universal Shock Eliminator, Inc., Long Island City, N. Y. Bumper. 1,612,948; Jan. 4.
- Shaw, Samuel H., New York, assignor to Universal Shock Eliminator, Inc., Long Island City, N. Y. Bumper. 1,614,087; Jan. 11.
- Shaw, Samuel H., New York, assignor to Universal Shock Eliminator, Inc., Long Island City, N. Y. Bumper. 1,615,046; Jan. 18.
- Shaw, Samuel H., New York, assignor to Universal Shock Eliminator, Inc., Long Island City, N. Y. Bumper. 1,615,521; Jan. 25.
- Shaw, Stanley W., Galesburg, Kans. Garden cultivator. 1,625,829; Apr. 26.
- Shaw-Walker Company, The. (See Hunter, David E., assignor.)
- Shaw, Wesley J., assignor to New England Wood Heel Co., Haverhill, Mass. Bearing. 1,625,568; Apr. 19.
- Shaw, Wesley J., assignor to New England Wood Heel Co., Haverhill, Mass. Machine for grooving wood heels. 1,653,932; Dec. 27.
- Shaw, William F., Detroit, Mich. Apparatus for inflating element separator joints. 1,629,544; May 24.
- Shaw, William N., Fargo, N. Dak. Drug mixer. 1,634,563; July 5.
- Shawky, Guy E., Mansfield, Ohio, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Resistor-supporting means. 1,628,858; May 17.
- Shawmut Engineering Company. (See Bixby, Walter, assignor.)
- Shawmut Engineering Company. (See Hathaway, Edgar F., assignor.)
- Shawmut Engineering Company. (See Hathaway, E. F., and Bixby, assignors.)
- Shawmut Engineering Company. (See Hathaway, E. F., and Lea, assignors.)
- Shawmut Engineering Company. (See Lea, Charles, assignor.)
- Shawmut Engineering Company. (See Mason, H., Bixby, and Bogan, Jr., assignors.)
- Shay, Harry E., assignor of one-third to W. A. Masters and one-third to J. L. Murray, Los Angeles, Calif. Bubble-absorption tower. 1,635,440; July 12.
- Shea, Daniel P., Worcester, Mass. Razor strop and treating the same. 1,651,911; Dec. 6.
- Shea, George H. (See Tompkins, Lewis R., assignor.)
- Shea, John P. (See Dolan, J. R., and Shea.)
- Shea, Timothy E. (See De Monte, R. W., and Shea.)
- Shea, Timothy E. (See Johnson, K. S., and Shea.)
- Shea, Timothy E., Rutherford, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electrical network. 1,624,682; Apr. 12.
- Shea, Timothy E., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave filter. 1,636,152; July 19.
- Shea, Timothy E., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Voltage amplifier. 1,642,389; Sept. 13.
- Shea, Timothy E., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical circuits. 1,654,098; Dec. 27.
- Shea, William B., Kansas City, Mo. Safety-appliance gauge. 1,638,865; Aug. 16.
- Sheaffer, Craig E. (See Sheaffer, Walter A. and C. R.)
- Sheaffer, W. A., Pen Company. (See Cuthbert, W. R., and Lindemon, assignors.)
- Sheaffer, W. A., Pen Company. (See Fremon, J. A., and De Haven, assignors.)
- Sheaffer, W. A., Pen Co. (See Hammons, Frederick D., assignor.)
- Sheaffer, Walter A. and C. R. Fort Madison, Iowa. Combined fountain-pen rack and paper weight. 1,641,829; Sept. 6.
- Sheehan, John F., Canton, Ill., assignor to International Harvester Company, Plow. 1,643,182; Sept. 20.
- Sheel, Robert E., Cleveland, Ohio. Movable bridge. 1,613,485; Jan. 4.
- Sheel, Robert E., Cleveland, Ohio. Anchoring device. 1,618,965; Jan. 11.
- Shean, Thomas P., Chicago, Ill. Metal window construction. 1,651,635; Dec. 6.
- Shear, Arthur H. (See Elliott, Winfred W., assignor.)
- Shear, Max, Kansas City, Mo. Adjustable foot rest for shoe-shining stands. 1,635,441; July 12.
- Shearer, Edward J., Colton, Calif. Double-acting pump. 1,616,201; Feb. 1.
- Shearer, Harry R., Dorena, Oreg. Automobile light. 1,627,669; May 10.
- Shearer, Harry T., assignor to Landis Machine Company, Waynesboro, Pa. Die head. 1,631,556; June 7.
- Shearer, James, Johannesburg, Transvaal, South Africa. Reciprocating engine. 1,644,954; Oct. 1.
- Shearer, Thomas M., De Land, Fla. Carpenter's combination tool. 1,641,831; Sept. 6.
- Shearer, William H., Rand, Colo. Fastener. 1,623,891; Apr. 5.
- Shearwood, Edward R., Cincinnati, Ohio. Combination implement. 1,613,723; Jan. 11.
- Sheasley, Charles H., and E. H. Crossen, Franklin, Pa. Combined automatic and manual control for drilling engines. 1,630,637; May 31.
- Sheather, Albert, Elizabeth, N. J. Oil burner. 1,631,771; June 7.
- Sheas, John H., assignor to Ohmer Fare Register Company, Dayton, Ohio. Register-operating device. 1,615,522; Jan. 25.
- Shebol, Joseph, and W. F. Albrecht, Syracuse, N. Y.; said Shebol assignor to said Albrecht. Piston pressure gauge. 1,642,563; Sept. 13.
- Shedd, Charles A., assignor to Walden-Worcester, Incorporated, Worcester, Mass. Socket wrench. 1,643,860; Sept. 27.
- Shedd, Hugh E., Minneapolis, Minn. Calendar. 1,616,005; Feb. 1.
- Shedenhelm, William G., Tiffin, Ohio. Pulley block. 1,639,439; Aug. 16.
- Sheddy, J. M., Richmond Hill, N. Y., and W. Myers, Bethlehem, Pa., assignors to The Etzel Company, Inc., New York, N. Y. Method of and apparatus for obtaining disruptive effects. 1,631,290; June 7.
- Sheehan, Frank, Ithaca, N. Y. Knee brace. 1,622,211; Mar. 22.
- Sheehan, William E., Albany, N. Y. Web carrier for paper-making machines. 1,651,476; Dec. 6.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive underframe. 1,614,695; Jan. 18.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive tender. 1,615,918; Feb. 1.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Dump-car underframe. 1,620,839; Mar. 15.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Underframe for ore cars. 1,628,921; May 17.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Dumping door and mounting. 1,628,922; May 17.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Hopper car structure. 1,628,923; May 17.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Car underframe. 1,628,924; May 17.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Railway car. 1,628,925; May 17.
- Sheehan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive bed and steam passage. 1,629,316; May 27.
- Sheehan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Truck. 1,634,307; July 5.
- Sheehan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Electric locomotive truck. 1,634,308; July 5.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Ore car. 1,636,534; July 19.
- Sheehan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Electric locomotive truck. 1,636,840; July 26.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Electric-locomotive-cab underframe. 1,640,054; Aug. 23.
- Sheehy, Michael D., Kitchener, Ontario, Canada. Rotary oil burner. 1,613,539; Jan. 4.
- Sheely, Chris L. (See Smith, F. H., and Sheely.)
- Sheenhan, Frank, Ithaca, N. Y. Blister preventive and foot pad. 1,627,285; July 26.
- Sheer, H. M., Company. (See Hermesmeier, Anthony J., assignor.)
- Sheer, H. M., Company. (See Sheer, Henry M., assignor.)
- Sheer, H. M., Company. (See Shuler, Andrew F., assignor.)
- Sheer, Henry M., assignor to H. M. Sheer Company, Quincy, Ill. Burner control for brooders and the like. 1,618,114; Feb. 15.
- Sheer, Henry M., deceased; G. Irwin, administrator, assignor to H. M. Sheer Company, Quincy, Ill. Oil tank. 1,650,098; Nov. 22.
- Sheeres, John W. (See Wehr, A. J., Elliot, and Sheeres.)
- Sheer, Metal Products Co., The. (See Corrigan, Frederick S., assignor.)
- Sheets, Fred O. (See Moore, S., and Sheets.)
- Sheets, William, Portsmouth, Ohio. Automobile seat. 1,647,057; Oct. 25.
- Sheetz Roscoe M., Bradenton, Fla. Tooth and massage brush. 1,642,465; Sept. 13.

- Sheffer, Irving H., Ecore, Mich. Feed collect. 1,646,771; Oct. 25.
- Sheffer, Jesse G. (See Sumpter, O. H., and Sheffer.)
- Sheffield, W. H. (See Cornell, Fritz G., jr., assignor.)
- Sheffield, Walter C., Bainbridge, Ga. Bottle-washing machine. 1,648,743; Nov. 8.
- Sheffield, Washington K., and A. J. Horton, assignors to Mechanical Engineering Corporation, New London, Conn. Hand-operated bulletin-printing machine. 1,616,927; Feb. 8.
- Sheffield, William M., New York, N. Y. Mold and making the same. 1,621,281; Mar. 15.
- Sheffield, William M., New York, N. Y. Mold. 1,630,771; Nov. 29.
- Sheiner, Philip, Brooklyn, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Base for a lamp. Des. 72,579; May 3.
- Shelburn, Morris, New York, N. Y. Lock. 1,628,750; May 17.
- Shelkerjian, Hrant R., Atlantic City, N. J. Broom bridle. 1,634,092; Sept. 20.
- Sheldon Axle and Spring Company. (See Weiland, Alfred, assignor.)
- Sheldon, Edward P., assignor by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Slow-down mechanism for printed products. 1,624,985; Apr. 19.
- Sheldon, Edward P., Brooklyn, assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Banding mechanism. 1,649,327; Nov. 15.
- Sheldon, Fred L., Tacoma, Wash. Hobbyhorse. 1,617,725; Oct. 15.
- Sheldon, Rufus N., Milwaukie, Oreg. Barrel or drum truck. 1,615,919; Feb. 1.
- Sheldon, Waldo, Greenwich, Conn. Oil-well-drilling apparatus. 1,621,689; Mar. 22.
- Sheldon, Waldo, Greenwich, Conn. Well-drilling apparatus. 1,628,282; May 10.
- Sheldon, Waldo, Greenwich, Conn. Well-drilling chuck. 1,628,283; May 10.
- Sheldon, Waldo, Greenwich, Conn. Well drilling. 1,633,134; June 21.
- Sheldon, Waldo, Greenwich, Conn. Drilling apparatus. 1,634,087; June 23.
- Sheldon, Waldo, South Norwalk, Conn. Well-drilling apparatus. 1,634,917; July 5.
- Sheldon, Waldo, Greenwich, Conn. Well drilling. 1,651,161; Nov. 29.
- Sheldrick, George E., Detroit, Mich., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Adjustable track for mail-stamping machines. 1,638,752; Aug. 9.
- Sheldrick, George E., Detroit, Mich., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Envelope feed mechanism. 1,648,883; Oct. 25.
- Shelley, George T., Indianapolis, Ind. Pencil clip and eraser holder combined. 1,633,135; June 21.
- Shell, Sanders P., Anna, Tex. Drill set. 1,653,786; Dec. 27.
- Shellenbarger Mills & Elevator Company, The. (See Cornelius, John W., assignor.)
- Shellenberger, John, Chicago, Ill. Machine for making wirebound boxes. 1,639,674; Aug. 23.
- Sheller, Samuel A., Cleveland, Ohio. Hand and band saw side file. 1,643,135; Sept. 20.
- Shelly, Thomas W., Los Angeles, Calif., assignor to W. W. Whitecotton, Tricycle. 1,625,337; Apr. 19.
- Shelly, National B., Wadsworth, Ohio. Door hanger and track structure. 1,622,400; Mar. 29.
- Shelly, Thomas P. (See Simpson, Frederick J., assignor.)
- Shelor, Ole W., and E. G. Butts, Salem, Va. Spray nozzle. 1,630,974; May 31.
- Shelton, Clarence I., assignor of one-third to W. A. Peters, Globe, Ariz. Timer for automobiles. 1,615,101; Jan. 18.
- Shelton, Frederick J., Wellington, New Zealand. Displaying goods, merchandise, or the like. 1,643,224; Sept. 20.
- Shelton, Harry G., St. Louis, Mo. Crusher and pulverizer. 1,648,625; Nov. 8.
- Shelton-Jackke Corporation. (See Jackke, Benno F., assignor.)
- Shelton, Robert H., Durant, Okla. Window-sash holder. 1,631,772; June 7.
- Shelton, William G., assignor to Halliwell-Shelton Electric Corporation, New York, N. Y. Illuminated advertising device. 1,634,309; July 5.
- Shelton, William G., New York, N. Y. Hair drier and therapeutic lamp. 1,639,753; Aug. 23.
- Shelton, William G., St. Louis, Mo. Hair-curling device. 1,641,205; Sept. 6.
- Shelton, William G., assignor to Halliwell-Shelton Electric Corporation, New York, N. Y. Electric hair drier. 1,654,273; Dec. 27.
- Shelton, William G., assignor to Halliwell-Shelton Electric Corporation, New York, N. Y. Block-letter sign. 1,654,350; Dec. 27.
- Shepard, Frederick S. (See Rafter, J. B., and Shepard.)
- Shepard, Herbert C., Frankfort, assignor to Remington Typewriter Company, Ill. N. Y. Typewriting machine. 1,619,546; Mar. 1.
- Shepard, Morris G. (See Gibbons, W. A., and Shepard.)
- Shepard, Norman A., Akron, Ohio, and S. Krall, Lowell, Mass., assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Vulcanizing rubber and compound resulting therefrom. Re16,648; June 7.
- Shepard, Norman A., and S. Krall, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Vulcanizing rubber and compound resulting therefrom. 1,647,754; Nov. 1.
- Shepard, Oscar F., Cincinnati, Ohio. Electric brake. 1,626,202; May 10.
- Shepard, Sarah E. B., Lowell, Mass. Ensemble undergarment. 1,628,475; May 10.
- Shepard, Sarah E. B., Lowell, Mass. Girdle brassiere. 1,647,023; Oct. 25.
- Shepard, Victor J. (See Houston, H. A., and Shepard.)
- Shepard, Victor J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Driving box. 1,637,394; Aug. 2.
- Shepherd, Harold F., assignor to The Kent-Owens Machine Company, Toledo, Ohio. Method of and apparatus for delivering measured charges. 1,645,547; Oct. 18.
- Shepherdson, Arnold. (See Baddiley, J., Shepherdson, Swann, Hill, and Lawrie.)
- Shepherdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Rolling mill. 1,647,668; Nov. 1.
- Shepp, Charles E. (See Cooke, C. J., and Rennie, assignors.)
- Sheppard, George F. (See Pitt, William A., assignor.)
- Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Fluorescent material and preparing same. 1,648,510; Nov. 8.
- Sheppard, Samuel E., and L. W. Eberlin, assignors to Eastman Kodak Company, Rochester, N. Y. Cake of compressed gelatin powder and making the same. 1,613,362; Jan. 4.
- Sheppard, Samuel E., and R. F. Punnett, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion and material and process used in the preparation thereof. 1,623,499; Apr. 5.
- Sheppard, Samuel E., and S. S. Sweet, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic film and base therefor. 1,623,500; Apr. 5.
- Sheppard, Samuel E., and L. W. Eberlin, assignors to Eastman Kodak Company, Rochester, N. Y. Nonsticking carbon pigments and making the same. 1,651,733; Dec. 6.
- Sheppard, William H. (See Sherman, J. A., and Sheppard.)
- Sheppy, Annabel F., et al., executors. (See Sheppy, Charles L.)
- Sheppy, Charles G., et al., executors. (See Sheppy, Charles L.)
- Sheppy, Charles L., deceased, Buffalo, N. Y.; A. F. and C. G. Sheppy, executors. Resilient driving or power-transmitting device. 1,646,772; Oct. 25.
- Sherbino, Morton R., assignor to Hydraulic Brake Company, Detroit, Mich. Noncorrosive liquid for fluid systems. 1,616,670; Feb. 8.
- Sherbino, Morton R., assignor to Hydraulic Brake Company, Detroit, Mich. Noncorrosive solution. 1,638,710; Aug. 9.
- Sherbino, Morton R., assignor to Hydraulic Brake Company, Detroit, Mich. Noncorrosive solution. 1,638,711; Aug. 9.
- Sherbondy, Frederick G., Akron, Ohio, and M. E. Boehm, Appleton, Wis. Bleaching wood pulp. 1,638,836; Aug. 16.
- Sherbondy, Frederick G., Akron, Ohio, and M. E. Boehm, Appleton, Wis. Apparatus for bleaching wood pulp. 1,638,965; Aug. 16.
- Sherburne, Leon G. (See Sherburne, Rufus B. and L. G., and Hansen.)
- Sherburne, Rufus B. and L. G., and M. Hansen, New York, N. Y., said Leon G. Sherburne and said Martin Hansen assignors to said Rufus B. Sherburne. Coin-receiving mechanism for vending machines. 1,629,006; May 17.
- Sherer, William T., Chicago, Ill. Counter. 1,626,013; Apr. 26.
- Sheridan, Charlotte M., Chicago, Ill. Golf-score register. 1,635,553; June 6.
- Sheridan, John, Meath, Irish Free State. Manipulating detachable rims of pneumatic and solid tires. 1,618,556; Feb. 22.
- Sheridan, Joseph W., Quincy, Ill. Ice-cream cone. Des. 73,712; Oct. 25.
- Sheridan, Thomas J. (See Terry, George T., assignor.)
- Sheridan, William J., Rochester, N. Y. Stock regulator for paper-making machines. 1,619,682; Mar. 1.
- Sherman, Alvin G., Grosse Pointe Park, assignor to The Detroit Vapor Store Company, Detroit, Mich. Store construction. 1,649,987; Nov. 22.
- Sherman, Carroll J., and C. H., Houston, Tex. Oil burner. 1,625,961; Apr. 26.
- Sherman, Charles H. (See Sherman, Carroll J. and C. H.)
- Sherman, George A., Pasadena, Calif. Advertising stand. 1,627,751; May 10.
- Sherman, George A., assignor, by mesne assignments, to Copeman Laboratories Company, Flint, Mich. Molding apparatus. 1,623,560; Apr. 5.
- Sherman, Jacob S., assignor to Universal Lamp Company, Chicago, Ill. Glass flask. Des. 71,990; Feb. 8.
- Sherman, Jacob S., assignor to Universal Lamp Co., Chicago, Ill. Miner's lamp. Des. 72,075; Feb. 22.
- Sherman, Jesse L. (See Little, W. M., and Sherman.)
- Sherman, John A., and W. H. Sheppard, Worcester, Mass. Ball cock. 1,629,545; May 24.

- Sherman, John Q. (See Shotwell, Fred M., assignor.)
 Sherman, John Q., Dayton, Ohio. Autographic register. 1,617,032; Feb. 8.
 Sherman, John Q., Dayton, Ohio. Autographic register. 1,644,955; Oct. 11.
 Sherman, John Q., Dayton, Ohio. Manifold register. 1,644,957; Oct. 11.
 Sherman, John Q., Dayton, Ohio. Manifold register. 1,648,998; Nov. 15.
 Sherman, John Q., and A. W. Metzner, Dayton, Ohio, said Metzner assignor to said Sherman. Manifold machine. 1,644,998; Oct. 11.
 Sherman, Vernon W., Detroit, Mich. Transfer switch. 1,627,345; May 3.
 Sherman, Willis S. (See Killebrew, Charles A., assignor.)
 Sherman, Willis S., Minneapolis, Minn. Flooring-end matcher. 1,628,335; May 10.
 Sherman, Willis S., Minneapolis, Minn. Saw. 1,649,864; Nov. 22.
 Sherrerd, Francis H., East Orange, N. J. Pipe joint. 1,615,239; Jan. 25.
 Sherrerd, Francis H., East Orange, assignor to Newark Concrete Pipe Co., Newark, N. J. Self-calking joint for concrete pipe. 1,632,418; Dec. 13.
 Sherrick, Edward F., Los Angeles, Calif. Carburetor. 1,614,973; Jan. 18.
 Sherrod, William H., Los Angeles, Calif. Toy. 1,624,986; Apr. 19.
 Sherrod, William H., Los Angeles, Calif. Toy exerciser. 1,626,161; Apr. 26.
 Sherrod, William H., Los Angeles, Calif. Rocking-horse. 1,637,500; Aug. 2.
 Sherry, Michael J., Utica, N. Y. Shuffleboard construction. 1,636,535; July 19.
 Sherry, Sol C., Englewood, N. J. Mail box. 1,636,329; July 19.
 Sherts, James H., Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Motor vehicle and window therefor. 1,645,355; Oct. 11.
 Sherwood, Albert W., Buffalo, and G. B. Groff, Ebenezer, N. Y. Combined ironing board and stand. 1,618,115; Feb. 15.
 Sherwood, Charles F., San Francisco, Calif. Reciprocating pump. 1,621,858; Mar. 22.
 Sherwood, George A. (See Warburton, H., and Sherwood.)
 Sherwood, Glenn L., Buchanan, Mich., assignor of one-half to A. A. Kising, Chicago, Ill. Spring door closer. 1,652,643; Dec. 13.
 Shestakoff, Peter. (See Petroff, G., and Shestakoff.)
 Shetzline, Roy A., New York, N. Y., assignor to American Telephone and Telegraph Company. Neutralization of inductive interference. 1,643,350; Sept. 27.
 Shetzline, Samuel R., jr., Philadelphia, Pa., and E. A. Dodelin, Moorestown, N. J. Shoe-lace fastener. 1,621,282; Mar. 15.
 Shetzline, Samuel R., jr., Philadelphia, Pa., and E. A. Dodelin, Moorestown, N. J. Shoe-lace fastener. 1,624,564; Apr. 12.
 Shevlin, Joseph P., assignor to Aladdin Hydraulic Jack Company, Denver, Colo. Hydraulic jack. 1,624,151; Apr. 12.
 Sherry, William M., Chicago, Ill. Coaster wagon. 1,623,443; Apr. 5.
 Shiba, Yaichiro, San Jose, Calif. Combined finger ring and cord cutter. 1,651,637; Dec. 6.
 Shickman, Abe J., W. A. Thum, and W. L. Dempsey, St. Louis; said Thum and said Dempsey assignors to said Shickman. Automatic printing press. 1,625,569; Apr. 10.
 Shidler, Frank L., and R. D. Gregg, Kankakee, Ill. Appliance for finishing concrete pavements. 1,626,879; May 3.
 Shiek, Daniel W., Aurora, Ill. Locking device. 1,652,044; Dec. 13.
 Shiel, John B., Corona, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,645,773; Oct. 11.
 Shield, Paul S., Cincinnati, Ohio, assignor to A. Davis, jr., Covington, Ky. Tank vent. 1,651,971; Dec. 6.
 Shield, William C., Crockett, Calif. Pressure-regulating apparatus. 1,628,559; May 17.
 Shields, Benjamin F., C. G. Crombie, and G. A. Windell, Seattle, Wash. Shock-absorbing device. 1,625,570; Apr. 10.
 Shields, C. Culver. (See Schaefer, Frank M., assignor.)
 Shields, Carl E., Rock Island, Ill. Toaster. 1,624,017; Apr. 12.
 Shields, Frank S., Brooklyn, assignor to The Universal Tiller Corporation, New York, N. Y. Tractor hitch for plows. 1,648,366; Nov. 8.
 Shields, George A., Columbus Ohio. Building construction. 1,652,033; Feb. 8.
 Shields, George A., Columbus, Ohio. Apparatus for forming glass sheets or plates. 1,617,653; Feb. 15.
 Shields, George A., Columbus, Ohio. Building construction. 1,622,212; Mar. 22.
 Shields, George A., Columbus, Ohio. Apparatus for making transparent sheet glass. 1,624,283; Apr. 14.
 Shields, Hastings M., Los Angeles, Calif. Orange machine. 1,652,379; Dec. 13.
 Shields, Hastings M., Los Angeles, Calif. Conveyor. 1,652,419; Dec. 13.
 Shields, Henry B., Freeport, assignor to International Motor Company, New York, N. Y. Closure. 1,612,839; Jan. 4.
 Shields, Henry B., Freeport, assignor to International Motor Company, New York, N. Y. Brake. 1,633,136; June 21.
 Shields, John M., assignor to F. H. Noble & Company, Chicago, Ill. Ring box. 1,636,251; July 19.
 Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 72,191; Mar. 8.
 Shields, Martin J. (See Gunning, W. A., and Shields.)
 Shields, Patrick W. (See Shields, Thomas F., assignor.)
 Shields, Patrick W., assignor to McKenna Brass & Manufacturing Company Inc., Pittsburgh, Pa. Bottling machine. 1,621,470; Mar. 15.
 Shields, Patrick W., Pittsburgh, and L. De Markius, Montrose, assignors to McKenna Brass and Manufacturing Company, Inc., Pittsburgh, Pa. Method and apparatus for low-pressure carbonation and bottling. 1,648,465; Nov. 8.
 Shields, Thomas P., assignor to Shields & Moore, New York, N. Y. White-gold solder. 1,652,740; Dec. 13.
 Shikies, Ernest A. and J. R., Dearborn, Mo. Sediment tester. 1,649,198; Nov. 15.
 Shikies, John R. (See Shields, Ernest A. and J. R.)
 Shilling, Carl S., and D. B. Louzon, Chicago, Ill. Latch. 1,639,862; Aug. 23.
 Shillman, Albert H., Baltimore, Md. Pocketbook. 1,624,987; Apr. 19.
 Shillman, Albert H., Baltimore, Md. Art needlework. 1,649,983; Nov. 22.
 Shimada, Junichi, Ehara-Gun, Tokyo-Fu, Japan. Type-writer. 1,641,297; Sept. 6.
 Shiman, Abraham, Newark, N. J. Finger ring. Des. 72,805; June 7.
 Shiman, Abraham, Newark, N. J. Finger ring. Des. 72,806; June 7.
 Shiman, Abraham, Newark, N. J. Finger ring. Des. 72,807; June 7.
 Shiman, Abraham, Newark, N. J. Finger ring. Des. 72,808; June 7.
 Shiman, Abraham, Newark, N. J. Finger ring. Des. 73,542; Sept. 27.
 Shimer, William R., Bethlehem, Pa., assignor to Bethlehem Steel Company. Steel of high-temperature stability. Re 6,683; July 19.
 Shimer, William R., Bethlehem, Pa., assignor to Bethlehem Steel Company. Steel of high-temperature stability. 1,624,075; Apr. 12.
 Shimo, Tamori, Los Angeles, Calif. Toilet-valve-actuating device. 1,615,523; Jan. 25.
 Shindler, Harry E., assignor to Willson Goggles Inc., Reading, Pa. Expandible eyecup. 1,627,578; May 10.
 Shindo, Saburo. (See Shoopman, H. R., and Shindo.)
 Shinkez, Victor R., assignor to Hancock Manufacturing Co., Charlotte, Mich. Door handle. 1,634,342; July 5.
 Shinkle, Edward M., U. S. Army, Honolulu, Hawaii. Stop for rotating parts. 1,625,571; Apr. 19.
 Shinn, Charles P., New York, N. Y. Filter. 1,617,504; Feb. 15.
 Shinn, Frank H., Davenport, Iowa. Interleaving device. 1,627,417; May 3.
 Shinn, Luther G., Holdenville, Okla. Inclination indicator. 1,623,775; Apr. 5.
 Shinn, Lyle B., assignor to Chicago Lock Company, Chicago, Ill. Lock. 1,644,092; Oct. 4.
 Shinnick, William W., Baltimore, Md. Furniture for paper-box dies and type compositions. 1,635,964; July 12.
 Ship Owners Radio Service, Inc. (See Pearson, Herbert B., assignor.)
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,615,540; Apr. 18.
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,619,796; Mar. 1.
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,626,895; May 3.
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,628,336; May 10.
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,633,042; June 21.
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,648,999; Nov. 15.
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,651,477; Dec. 6.
 Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,652,057; Dec. 6.
 Shipley, Caleb W., and R. B. Jones, assignors to The Trailmobile Company, Cincinnati, Ohio. Hitch for semitrailers. 1,622,470; Mar. 29.
 Shipley, Elmer E., Washington, D. C., Window-cleaning device. 1,624,284; Apr. 12.
 Shipley, Grant B., Pittsburgh, Pa. Wood-treating apparatus. 1,623,979; Apr. 12.

- Shipley, Jack, assignor of one-half to R. P. Knight, Athens, Tenn. Electric cigar lighter. 1,615,555; Jan. 25.
- Shipley, John H., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper-folding machine. 1,638,176; Aug. 9.
- Shipley, John H., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. 1,645,824; Oct. 18.
- Shipley, Marion K., Manhattan Beach, assignor, by mesne assignments, to Oil Appliance Manufacturing Corporation, Los Angeles, Calif. High-pressure cock having automatic seating plug. 1,624,512; Apr. 12.
- Shipley, Marion K., Manhattan Beach, Calif. Joint for stovepipe casings. 1,639,315; Aug. 16.
- Shipley, Marion K., Manhattan Beach, assignor, by mesne assignments, to Oil Appliance Manufacturing Corporation, Los Angeles, Calif. Stopcock having floating plug. 1,642,973; Sept. 20.
- Shipley Patent Corporation. (See Shipley, Thomas, assignor.)
- Shipley, Richard C., and J. R. Quigg, Kansas City, Mo. Axle-box-wedge mechanism. 1,623,640; Apr. 5.
- Shipley, Stanley D., Stamford, Conn., assignor to Atlas Powder Company, Wilmington, Del. Reducing the viscosity of nitrocellulose and other cellulose esters. 1,633,292; June 21.
- Shipley, Stanley D., Stamford, Conn., assignor to Atlas Powder Company, Wilmington, Del. Reducing the viscosity and increasing the solubility of nitrocellulose. 1,652,587; Dec. 13.
- Shipley, Stanley D., and G. C. Given, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del. Lacquer and lacquer enamel. 1,618,481; Feb. 22.
- Shipley, Stanley D., and G. C. Given, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del. Lacquer and lacquer enamel. 1,618,482; Feb. 22.
- Shipley, Stanley D., and G. C. Given, Stamford, Conn., assignor to Atlas Powder Company, Wilmington, Del. Lacquer and lacquer enamel. 1,618,483; Feb. 22.
- Shipley, Stanley D., and G. C. Given, Stamford, Conn., assignor to Atlas Powder Company, Wilmington, Del. Lacquer and lacquer enamel. 1,618,484; Feb. 22.
- Shipley, Thomas, assignor to Shipley Patent Corporation, York, Pa. Removing oil from evaporating systems. 1,637,920; Aug. 2.
- Shipley, Thomas, assignor to Shipley Patent Corporation, York, Pa. Measuring can filler. 1,637,967; Aug. 2.
- Shipley, Tolbott G., assignor to Western Railway Equipment Company, St. Louis, Mo. Draft gear. 1,650,772; Nov. 29.
- Shipman, Emma. (See Shipman, John D., assignor.)
- Shipman, John D., assignor, by mesne assignments, to E. Shipman, San Angelo, Tex. Window-sash latch. 1,622,742; Mar. 29.
- Shipman, Robert L., Trumbull, Conn. Electric-arc welding. 1,616,145; Feb. 1.
- Shipman, Robert L., assignor of one-half to E. D. Sprague, Bridgeport, Conn. Heat exchanger. 1,615,658; Jan. 25.
- Shipman, Robert L., Trumbull, and E. D. Sprague, Bridgeport, Conn. Ice-making apparatus. 1,615,411; Jan. 25.
- Shippe, Clarence C., Indianapolis, Ind. Damper control for electric brakes. 1,647,959; Nov. 1.
- Shippee, Allen E., East Providence, R. I., assignor to Stone & Webster, Inc., Boston, Mass. Making carbureted water gas. 1,630,316; May 31.
- Shippey, Roland H., and H. D. Van Leunen, Wichita, Kans. Headlight. 1,633,387; June 21.
- Ships, Judd E., Westpoint, Nebr. Hanging sign. 1,618,312; Feb. 22.
- Shiraishi, Tsuneji, Tatsuta Village, Miye, Japan. Colloidal calcium carbonate and producing the same. 1,654,099; Dec. 27.
- Shire, Harry I., Detroit, Mich. Indicator for automobile circuits. 1,630,807; May 31.
- Shirley, Ulysses A., assignor of one-half to V. Berglund, Des Moines, Iowa. Corn gatherer and husker. 1,616,283; Feb. 1.
- Shirley, Daniel A., and C. A. Braidwood, Perth Amboy, N. J. Fishing lure. Des. 72,039; Feb. 15.
- Shirz, Herman V., Long Beach, Calif. Chain. 1,620,613; Mar. 8.
- Shively, Jess A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for putting second flapper on beads. 1,651,734; Dec. 6.
- Shively, Jess A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for gum stripping beads. 1,651,735; Dec. 6.
- Shively, Louis S., University City, assignor to The Weightograph Company, St. Louis, Mo. Flexible beam connection for steelyards. 1,635,508; July 12.
- Shively, Louis S., University City, assignor to The Weightograph Company, St. Louis, Mo. Eccentrically-adjustable cam for scales. 1,636,873; July 26.
- Shively, Walter E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cushion tire. 1,635,194; July 12.
- Shlager, Abraham E., and B. M. Groisser, Boston, Mass. Concrete stair. 1,613,774; Jan. 11.
- Shley, Joseph H. (See Russell, D. M., and Shley.)
- Shlick, Leo, Boston, Mass. Drying cylinder. 1,640,855; Aug. 30.
- Shlick, Leo, Montreal, Quebec, Canada. Beating engine. 1,623,364; Apr. 5.
- Shmyroff, Andrew, Kew Gardens, B. Bogoslawsky and J. Dill, New York, assignors to Lion Match Co., Inc., Long Island City, N. Y. Machine for sorting and stacking block matches. 1,646,710; Oct. 25.
- Shoc-Bloc Co., The. (See Williams, Frank B., assignor.)
- Shoch, Robert, assignor to M. Rice Company, Philadelphia, Pa. Flower holder. 1,623,856; Apr. 5.
- Shockley, Herbert M. (See Walters, Oliver H., assignor.)
- Shokley, William I., assignor of one-half to K. W. F. France, Brookings, Oreg. Sirup-pitcher attachment. 1,648,068; Nov. 8.
- Shodron, John G. (See Olson, J. B., and Shodron.)
- Shoe Form Co., The. (See De Witt, William J., assignor.)
- Shoe Form Co. Inc., The. (See De Witt, William J., assignor.)
- Shoe Lace Company. (See Joslin, William H., assignor.)
- Shoe Lace Company, Ltd. (See Matson, Carl A., assignor.)
- Shoemaker, Charles A., near Middletown, Ohio. Vehicle signal lamp. 1,641,056; Aug. 30.
- Shoemaker, Earl D. (See Coleman, M. C., and Shoemaker.)
- Shoemaker, Edwin. (See Kanabus, E. M., and Shoemaker.)
- Shoemaker, George A., Philadelphia, Pa., assignor to Bound Brook Oil-Less Bearing Company. Bearing. 1,637,517; July 26.
- Shoemaker, George A., Philadelphia, Pa., assignor to Bound Brook Oil-Less Bearing Company Boundbrook, N. J. Bearing and making same. 1,646,371; Oct. 18.
- Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Electric cigar lighter. Des. 72,040; Feb. 15.
- Shoenfeld, Gustav. (See Dunn, E. P., and Shoenfeld.)
- Shogran, David H., San Diego, Calif. Gas control. 1,628,337; May 10.
- Shoier, Edward H., Chattanooga, Tenn. Fireplace basket. 1,650,303; Nov. 22.
- Shollenberger, Warren R. (See Updegrave, C. A., and Shollenberger.)
- Shoman, Maurice, Plymouth, Mass. Fire-hose protector. 1,653,127; Dec. 20.
- Shonle, Horace A. (See Van Scoyoc, G., Wehrlein, and Shonle.)
- Shonle, Horace A., assignor to Eli Lilly and Company, Indianapolis, Ind. Calcium preparation. 1,649,000; Nov. 15.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Control valve. 1,644,093; Oct. 4.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Fluid-pressure system. 1,645,076; Oct. 11.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Door-operating means. 1,649,989; Nov. 22.
- Shook, Alexander M., Toronto, Ontario, Canada, assignor to Aquaguard Corporation, New York, N. Y. Making aqueous solutions and the product. 1,619,202; Feb. 1.
- Shook, Florin J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Attachment device. 1,627,670; May 10.
- Shook, Florin J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Connection for torque arm of the like. 1,629,178; May 17.
- Shook, George L., Port Henry, N. Y. Sintering pan and grate therefor. 1,634,272; July 5.
- Shook, Harman J., Bellingham, Wash. Purse clip. 1,644,616; Oct. 4.
- Shook, John E., Pittsburgh, Pa. Air-cooled damper. 1,649,749; Nov. 15.
- Shook, Lawrence G., Los Angeles, Calif. Bearing-rip remover. 1,641,555; Sept. 6.
- Shook, William A., McGaheysville, Va. Holding frame for supporting honey boxes. 1,638,064; Aug. 9.
- Shoop, Herbert E., Pittsburgh, Pa. Tobacco pipe. 1,624,087; Aug. 23.
- Shoopman, Henry E., and S. Shindo, Grand Island, Nebr. Engine. 1,642,217; Sept. 13.
- Shoor, Louis. (See Haupt, Frank, assignor.)
- Shorb, Poe A., Burdett, Kans. Grain-threshing concave and cylinder. 1,643,683; Sept. 27.
- Shue, Edward H., Hereford, Tex. Game. 1,641,015; Aug. 30.
- Shore, Morris, assignor, by mesne assignments, to Simon Pearl, Philadelphia, Pa. Refrigerating cabinet. Des. 73,106; July 19.
- Shore, Morris, assignor to Sanitary Refrigerator Corporation, Philadelphia, Pa. Spigot. Des. 72,243; Mar. 15.
- Shore, William E., Staten Island, N. Y. Fuel vaporizer. 1,627,671; May 10.
- Shore, William E., Staten Island, N. Y. Internal-combustion engine. 1,633,900; June 28.
- Shore, William E., New York, N. Y. Oil-burning system. 1,648,069; Nov. 8.
- Shores, Ethelbert, San Francisco, Calif., assignor to American Smelting and Refining Company, New York, N. Y. Transporting unit for calking metal. 1,650,394; Nov. 22.
- Shores, Lewis, Burkburnett, Tex. Shade bracket. 1,649,262; Nov. 15.
- Shorrock, James L., Accrington, assignor to Entwistle & Kenyon Limited, Ewbank Works, Accrington, England. Carpet sweeper. 1,620,297; Mar. 8.

- Short, Albert E., and H. O., and A. Gouge, Rochester, England. Air propeller. 1,633,612; June 28.
- Short, Charles R. (See Kettering, C. F., and Short.)
- Short, Charles R., assignor to General Motors Research Corporation, Detroit, Mich. Crank shaft. 1,627,809; May 10.
- Short, Charles R., assignor to General Motors Research Corporation, Dayton, Ohio. Resilient connector. 1,631,228; June 7.
- Short, Charles R., assignor to General Motors Research Corporation, Detroit, Mich. Transmission casing. 1,644,749; Oct. 11.
- Short, Charles R., assignor to General Motors Research Corporation, Dayton, Ohio. Valve-operating means. 1,644,750; Oct. 11.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Thermostatic valve. 1,644,751; Oct. 11.
- Short, Charles V., Des Moines, Iowa. Sanitary heated hog house. 1,638,712; Aug. 9.
- Short, Clifford F., North Long Beach, Calif. Electrode holder. 1,628,926; May 17.
- Short, David L. (See Sexton, Augustus H., assignor.)
- Short, Curney L., Angus, Minn. Cow-tail tie. 1,619,274; Mar. 1.
- Short, Harry J., Eagle Grove, Iowa. Toy. Des. 71,946; Feb. 1.
- Short, Hugh O. (See Short, Albert E. and H. O., and Gouge.)
- Short, Hugh O., Rochester, England. Elastically connecting landing gear to aircraft. 1,626,483; Apr. 26.
- Short, William J., Heber Springs, Ark. Automatic carburetor adjustment. 1,624,631; Apr. 12.
- Shortley, Orville B. (See Patenaude, Amable O., assignor.)
- Shortt, James, assignor to Alloy Metal Products Co., Los Angeles, Calif. Wall-bracket arm fixture. Des. 73,449; Sept. 13.
- Shortt, James, assignor to Alloy Metal Products Co., Los Angeles, Calif. Hanging electric-light fixture. Des. 73,873; Nov. 15.
- Shostrom, Oscar E., Seattle, Wash. Window lock. 1,622,979; Mar. 29.
- Shuttle Corporation of America. (See Freund, Robert R., assignor.)
- Shotton, John C., Lakewood, Ohio. Dental casting device. 1,628,437; May 10.
- Shotwell, Fred M., Detroit, Mich., assignor to J. Q. Sherman, Dayton, Ohio. Protected index-file unit. 1,613,570; Jan. 4.
- Shoun, George B., Fairfax, Okla. Straw-dispensing device. 1,646,983; Oct. 25.
- Shoup, George, Muskegon, Mich. Air tank. 1,613,059; Jan. 4.
- Shoup, James T., assignor to M. R. Shoup, Chicago, Ill. Vehicle. 1,632,804; June 21.
- Shoup, John A., Battle Creek, Mich. Self-closing safety-filling cap. 1,628,519; May 10.
- Shoup, Mettie R. (See Shoup, James T., assignor.)
- Shover, Barton R., Pittsburgh, Pa. Reel for strip metal. 1,644,857; Oct. 11.
- Shover, Lamar H., assignor to Panay-Horizontal Show Jar Co., Milwaukee, Wis. Candy jar. 1,621,283; Mar. 15.
- Showalter, Andro E., and J. W. Johnson, Richvalley, Ind. Shaft-adjusting mechanism. 1,633,910; June 28.
- Showers, Ernest S., Champion, Mich. Coaster-wagon brake. 1,628,559; May 10.
- Showers, Ernest S., Champion, Mich. Steering mechanism for coaster wagons. 1,632,384; June 14.
- Showers, Joseph R. (See Tindall, Carl A., assignor.)
- Showers, Joseph R., Shelbyville, Ind. Loud-speaking wireless amplifier. 1,626,102; Apr. 26.
- Showers, Lee, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Making sheet glass. Re16,755; Oct. 4.
- Shredded Wheat Company, The. (See Anderson, George M., assignor.)
- Shredded Wheat Company, The. (See Anderson, G. M., and Hilder, assignors.)
- Shredded Wheat Company, The. (See House, Henry A., assignor.)
- Shredded Wheat Company, The. (See Webster, Earl P., assignor.)
- Shreeve, Herbert E., Wyoming, N. J., assignor to American Telephone and Telegraph Company. Signaling system. Re16,835; Dec. 27.
- Shreve, Emitt T. (See Kirkind, C. R., and Shreve.)
- Shriner, Robert L., Weehawken, N. J., assignor to Hudson Heating Systems, Inc., New York, N. Y. Water heater. 1,653,672; Dec. 27.
- Shriver, Theo. R. (See Bouch, E., and Shriver.)
- Shrock, Rollo L., assignor to The Marion Steam Shovel Company, Marion, Ohio. Fire box for oil burners and the like. 1,647,318; Nov. 1.
- Shrodes, George H., Los Angeles, Calif. Artificial limb. 1,617,925; Feb. 15.
- Shrodes, George H., Los Angeles, Calif. Artificial limb. 1,617,926; Feb. 15.
- Shrope, Carl H., Columbus, Ohio. Nut-castellating machine. 1,648,222; Oct. 18.
- Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Company, Inc., Chicago, Ill. Coffee urn. 1,648,699; Nov. 8.
- Shrum, Peter J., Monaca Heights, and H. A. Henigen, Rochester, assignors to Colona Manufacturing Company, Pittsburgh, Pa. Thread protector. 1,639,814; Aug. 28.
- Shrum, William R., assignor to Brown & Bailey Company, Philadelphia, Pa. Fastening means for paper folders and containers. 1,615,200; Jan. 18.
- Shuell, Frank W., assignor to Ever Hot Heater Company, Detroit, Mich. Gas valve. 1,625,874; Apr. 26.
- Shuell, Frank W., assignor to Ever Hot Heater Company, Detroit, Mich. Water heater. 1,634,889; July 5.
- Shuell, Frank W., assignor to Everhot Heater Company, Detroit, Mich. Water-heating apparatus. 1,637,395; Aug. 2.
- Shuell, Frank W., E. E. Ledbetter, and T. J. Tobey, assignors to Everhot Heater Company, Detroit, Mich. Draft hood for hot-water heaters. 1,638,016; July 19.
- Shuey, Paul P., Pittsburgh, Pa. Radio system. 1,637,058; July 26.
- Shuffleton, Wilford P., assignor to Gem Crib & Cradle Company, Gardner, Mass. Wheel-attaching device. 1,635,389; July 12.
- Shuger, Zigmund. (See Kulick, Edward L., assignor.)
- Shuler, Andrew F., Arcanum, Ohio, deceased. M. M. Shuler and W. B. Shuler, executors, assignors to H. M. Sheer Company, Quincy, Ill. Brooder. 1,627,346; May 8.
- Shuler, Hubert L., Orangeburg, S. C. Cigar and cigarette holder. 1,646,320; Oct. 18.
- Shuler, Mary M., et al., executors. (See Shuler, Andrew F.)
- Shuler, W. B., et al., executors. (See Shuler, Andrew F.)
- Shull, William G., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Substation circuit. 1,632,645; Dec. 13.
- Shultz, Albert B., and A. B. Casper, assignors to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,627,810; May 10.
- Shultz, Albert B., and A. B. Casper, assignors to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,628,811; May 17.
- Shultz, Charles A., Monticello, assignor to Lockwood & Leland, Indianapolis, Ind. Cereal cleaner and separator. 1,632,293; June 21.
- Shuits, Harry, Gloversville, and A. W. and B. F. Barbour, Johnstown, N. Y. Windshield wiper. 1,647,319; Nov. 1.
- Shumaker, Charles F., assignor to S. Howes Co. Inc., Silver Creek, N. Y. Machine for trimming ears of corn. 1,635,523; Sept. 27.
- Shumaker, Frank D., deceased, J. J. Shumaker, executrix, assignor to Aluminum Company of America, Pittsburgh, Pa. Production of silicon-iron and aluminum-copper alloys. 1,644,000; Oct. 4.
- Shumaker, Josephine J., executrix. (See Shumaker, Frank D., deceased.)
- Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Roof or skylight construction. 1,638,668; Aug. 9.
- Shunk, James H., Roscoe, Ill. Holder for pyrotechnical devices. 1,618,852; Jan. 11.
- Shunk, James H., Roscoe, Ill. Pyrotechnic spinning wheel. 1,618,853; Jan. 11.
- Shunk, James H., Roscoe, Ill. Pyrotechnic lance holder. 1,621,908; Mar. 22.
- Shunk, James H., jr., Roscoe, Ill. Pyrotechnic wheel. 1,617,084; Feb. 8.
- Shunk, John Q., Bucyrus, Ohio. Material-dispensing means for poisoning machines. 1,643,423; Sept. 27.
- Shupe, Hes V., Northfork, W. Va. Tire-locking device. 1,643,824; Sept. 27.
- Shur Loc Elevator Safety Co. Inc. (See Darby, John, assignor.)
- Shur Loc Elevator Safety Corporation. (See McCormick, Harold V., assignor.)
- Shurmer, Thomas, Stockport, England. Feed roller for sawing, planing, and like machines. 1,629,642; May 24.
- Shur-On Standard Optical Company. (See Du Paul, George H., assignor.)
- Shur-On Standard Optical Company. (See McDonell, William E., assignor.)
- Shur-On Standard Optical Company. (See McDonell, W. E., and Leytham, assignors.)
- Shurts, Englebert, assignor to The Universal Milking Machine Co., Waukesha, Wis. Dairy-equipment cleaner. 1,645,356; Oct. 11.
- Shuster, Elmore C., New Haven, Conn. Wire-cutting machine. 1,629,643; May 24.
- Shuster, James B. (See Kniskern, F. B., and Shuster.)
- Shuter, Alfred D. (See Smith, W. S., and Shuter.)
- Shutt, John E., assignor to L. A. Shutt, Stuttgart, Ark. Pump-actuating mechanism. 1,647,024; Oct. 25.
- Shutt, Louis A. (See Shutt, John E., assignor.)
- Shuttleworth, John, Aittrincham, assignor to Linotype and Machinery Limited, London, England. Printing-press cylinder for enabling the printing, impression, or offset surfaces to be adjusted. 1,651,295; Nov. 29.
- Shwartz, Harry, et al. (See Schiffner, Joseph A., assignor.)
- Shwyder, Benjamin H., Denver, Colo. Traveling bag. 1,628,819; May 17.
- Shyer, Joseph, Brooklyn, assignor to Zylro Ware Corporation, Inc., New York, N. Y. Ophthalmic mounting. 1,642,090; Sept. 13.

- Slarkowski, John, Buffalo, N. Y. Machine for cutting buttonholes. 1,633,195; June 21.
- Sibbald, Charles T. A., and J. B. Ransom, Troy, assignors, by mesne assignments, to Frederick Osann Company, New York, N. Y. Button-sewing machine. 1,633,613; June 28.
- Sibbald, Charles T. A., and J. B. Ransom, Troy, assignors, by mesne assignments, to Frederick Osann Company, New York, N. Y. Sewing on buttons. 1,633,614; June 28.
- Sibbald, Henrietta G., Duluth, Minn. Baking receptacle. 1,630,140; May 24.
- Sibley, Edward L., Bennington, Vt. Eyelet. 1,615,048; Jan. 18.
- Sibley, Edwin J., Westbury, N. Y. Combined shutter hook and spring. Des. 73,734; Nov. 15.
- Sibley, Edwin J., Westbury, N. Y. Friction casement-window adjuster. 1,625,915; Apr. 26.
- Sibley, Tarrant, Bennington, Vt. Machine for forming fasteners. 1,626,977; May 3.
- Sibley, Wesley B., Detroit, Mich., assignor to Acme Devices Corporation. Lubricating system. 1,644,156; Oct. 4.
- Sibson, Walter W., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Hosiery-drying machine. 1,634,237; June 28.
- Sickle, Jacob M., (See Westenberg, A. M., and Sickle.)
- Sickler, Clarence E., Endicott, N. Y. Electric-circuit-control device. 1,619,638; Mar. 1.
- Sicks, Oskia W., French Lick, Ind. Paper weight. Des. 72,334; Mar. 29.
- Sidall, Wilbur H., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,635,142; July 5.
- Sidders, Roy R., Urbana, Ohio. Calf weaner. 1,616,203; Feb. 1.
- Sidebotham, Arthur H., Grand Rapids, Mich. Cigarette case. 1,650,304; Nov. 22.
- Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
- Siderits, Thomas. (See Schneider, Charles T., assignor.)
- Siders, Chauncey A., Twelve Mile, Ind. Log-loading truck. 1,624,285; Apr. 12.
- Sidle, John A. (See Johnson, A., and Sidle.)
- Sidnell, Albert E., and E. C. F. Hartmann, Salt Lake City, Utah. Making irregularly-cored articles of hard rubber and the like. 1,642,664; Sept. 13.
- Sidney, John, Portland, Oreg. Shock absorber. 1,648,201; Nov. 8.
- Sidway, Topfliff Company. (See Hawkinson, Axel W., assignor.)
- Siebenbrodt, Otto, Chicago, Ill. Lamp stand. 1,619,639; Mar. 1.
- Siebenmann, Daniel, Bern, Switzerland. Beam scale. 1,640,967; Apr. 30.
- Siebenmorgen, William, Terre Haute, Ind. Twisting machine. 1,615,524; Jan. 25.
- Sieber, Jacob, London, assignor to C. T. Everest, Forest Hill, London, England. Carburetor for internal-combustion engines. 1,623,760; Apr. 5.
- Sieber, Jacob, Sidcup, England, assignor, by mesne assignments, to International Skywriters Limited, Toronto, Canada. Advertising sign. 1,646,500; Oct. 25.
- Sieberling, George W., Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich. Splicing solid-tire stocks. 1,622,546; Mar. 29.
- Siebert, Conrad. (See Moschel, H., and Siebert.)
- Siebert, Gustave, (St. Paul, Minn. Trousers support. 1,616,763; Feb. 8.
- Siebert, O. W., Company. (See Siebert, Otto W., assignor.)
- Siebert, Otto W., assignor to O. W. Siebert Company, Gardner, Mass. Carriage body. 1,636,252; July 19.
- Siebrandt, John R., Kansas City, Mo. Arm splint. 1,639,815; Aug. 23.
- Siebs, Claude T., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Hoisting apparatus. 1,614,575; Jan. 15.
- Sieckmann, Karl, Vienenburg, Germany. Crane. 1,624,998; Apr. 19.
- Sidentopf, Henry, assignor to Firm of Carl Zeiss, Jena, Germany. Additional device for binocular microscopes with one objective. 1,632,930; June 21.
- Siedler, Philipp. (See Moschel, H., and Siedler.)
- Siedler, Philipp, Griesheim-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of carbon disulphide. 1,615,659; Jan. 25.
- Siefarth, Chester J., assignor to Willamette Iron & Steel Works, Portland, Oreg. Cable system. 1,617,351; Feb. 15.
- Siefarth, Chester J., assignor to Willamette Iron & Steel Works, Portland, Oreg. Cable-block system. 1,641,298; Sept. 6.
- Siefen, John J., assignor to Bennett Brass Company, Greenville, Mich. Float valve. 1,649,020; Nov. 15.
- Siefert, Hugo A. (See Eisenberg, R., and Siefert.)
- Sieg, Karl, Brookhaven, assignor to Samuel M. Langston Company, Camden, N. J. Sheet-feeding mechanism. 1,634,088; June 28.
- Sieg, Karl, Brookhaven, assignor to Samuel M. Langston Company, Camden, N. J. Sheet-feeding mechanism. 1,644,695; Oct. 11.
- Siegel, Henry M., Malden, Mass. Trousers supporter. 1,625,166; Apr. 19.
- Siegel, John F. (See Rix, Frank, assignor.)
- Siegel, Joseph, assignor to American Lady Corset Company, Detroit, Mich. Girdle. 1,651,736; Dec. 6.
- Siegel Light Supply Company. (See Shapiro, Philip C., assignor.)
- Siegel, Maude, assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 72,241; Mar. 15.
- Siegel, Maude, assignor to Franklin Simon & Co., Inc., New York, N. Y. Coat. Des. 72,335; Mar. 29.
- Siegel, Maude, assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 72,501; Apr. 19.
- Siegel, Maude, assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 72,531; Apr. 26.
- Siegel, Maude, assignor to Franklin Simon & Co., Inc., New York, N. Y. Shoe. Des. 72,685; May 17.
- Siegel, Maude, assignor to Franklin Simon & Co., Inc., New York, N. Y. Shoe. Des. 72,731; May 24.
- Siegel, Maude, assignor to Franklin Simon & Co., Inc., New York, N. Y. Dress. Des. 73,013; July 5.
- Siegel, Maude, New York, N. Y. Picot-cutting attachment. 1,613,540; Jan. 4.
- Siegel, Samuel, New York, N. Y., assignor to Aerovox Wireless Corporation. Connector for radioreceivers. 1,633,827; June 28.
- Siegel, Samuel, New York, N. Y., assignor to Aerovox Wireless Corporation. Fixed-capacity condenser and making the same. 1,650,395; Nov. 22.
- Siegel, Wilhelm, Berlin-Charlottenburg, Germany. Manufacture of alkaline potassium compounds. 1,636,710; July 26.
- Siegele, Karl. (See Machler, A., and Siegele.)
- Siegrist, Erich T., Chicago, Ill. Alarm device. 1,630,808; May 31.
- Siegrist, Walter, assignor to Heine Boiler Company, St. Louis, Mo. Steam boiler. 1,631,344; June 7.
- Siegrist, Richard, Klein-Drebnitz, assignor to A. Fritz, Dresden-A. Germany. Device for drilling, filling, and sealing hollow bodies. 1,643,260; Sept. 20.
- Siegrfried, Wilhelm, Erfurt, Germany. Pin ticket. 1,628,560; May 10.
- Siegrfried, Wilhelm, and A. Dachs, Erfurt, Germany. Ticket for marking delicate fabrics. 1,645,878; Oct. 8.
- Siegmund, Paul F., San Antonio, Tex. Attachment for gas engines. 1,646,321; Oct. 13.
- Siegmund, Humphreys O., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrolytic cell. 1,653,879; Dec. 27.
- Siemens & Halske Aktiengesellschaft. (See Deutschmann, Walter, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Flad, Arthur, assignor.)
- Siemens & Halske, Aktiengesellschaft. (See Gerdien, Hans, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Horn, Ernst, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Kafka, H., and Klein, assignors.)
- Siemens & Halske, Aktiengesellschaft. (See Keinath, Georg, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Kirn, Max, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Küpfmüller, Karl, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Langenbeck, B., and Merten, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Lindblad, Nils, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Lubberger, Fritz, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Lubberger, F., and Hahn, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Lüschen, F., and Küpfmüller, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Mansel, Paul, assignor.)
- Siemens & Halske Aktiengesellschaft, Wernerwerk. (See Mathias, Maximilian, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Moeller, Max, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Pauli, Heinrich, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Pohlmann, Bruno G., assignor.)
- Siemens & Halske Aktiengesellschaft. (See Pohlmann, Max, assignor.)
- Siemens & Halske Aktiengesellschaft Wernerwerk. (See Preuss, Alexander B., assignor.)
- Siemens & Halske Aktiengesellschaft. (See Schottky, Walter, assignor.)
- Siemens & Halske Aktiengesellschaft Wernerwerk. (See Schürmann, August, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Seil, Helmut, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Setzepfand, Werner, assignor.)
- Siemens & Halske Aktiengesellschaft Wernerwerk. (See Soldan, Otto, assignor.)
- Siemens & Halske Aktiengesellschaft Wernerwerk. (See Waschneck, Adolf, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Abendroth, Wilhelm, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Altenkirch, Edmund, assignor.)

- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Gleichmann, Hans, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Hojer, Wilhelm, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rüdenberg, Reinhold, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rüdenberg, R., and Kurda, assignors.)
- Siemon, William H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Knife-handle switch. 1,643,789; Sept. 27.
- Siourin, Paul W., Gottenborg, Sweden. Tackle. 1,619,000; Mar. 1.
- Siourin, Sven A., Gottenborg, Sweden. Lifeboat. 1,619,001; Mar. 1.
- Siever, Hughes L. (See Smith, Robert B., assignor.)
- Sievers, August D., Somers, Wis. Cultivator blade. 1,633,232; June 21.
- Sievers, Otto. (See Benda, L., and Sievers.)
- Sievvert, Charles W., Los Angeles, Calif. Gas burner. 1,648,329; Nov. 8.
- Sievvert, Charles W., Los Angeles, Calif. Oil burner. 1,644,958; Oct. 11.
- Siefert, Almon D., Pasadena, Calif. Ligation dispensing cap. 1,614,260; Jan. 11.
- Sifkovitz, George, Detroit, Mich. Metal-working machine. 1,622,401; Mar. 29.
- Sigler, Ward W., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 72,732; May 24.
- Sigley, William H., Sylvan Grove, Kans. Funnel. 1,636,739; July 23.
- Signal Accessories Corporation. (See Bossert, William F., assignor.)
- Signal Accessories Corporation. (See Bossert, W. F., and Edwards, assignors.)
- Signal Gesellschaft m. b. H. (See du Bois-Reymond, Alard, assignor.)
- Signal Gesellschaft m. b. H. (See Rudolph, W., and du Bois-Reymond, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hahnemann, W., Hecht, Lichte, and Adelmann, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hahnemann, W., Rudolph, and Wilkens, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hahnemann, W., Wilkens, and Lichte, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hahnemann, W., and Hecht, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Setz, August, Bernhard, assignor.)
- Sigler, Majorie, Bronxville, and E. M. Duckwall, New York, N. Y. Display card. Des. 73,713; Oct. 25.
- Signode System, Inc. (See Meier, Samuel A., assignor.)
- Sigurd, Carl G., San Jose, Calif. Break-pin device for cultivators. 1,635,442; July 12.
- Siko-Lite Corporation, The. (See Clafin, Charles R. B., assignor.)
- Silaj, Frank A., Chicago, Ill. Ash tray. Des. 71,931; Jan. 25.
- Silaj, Frank A., Chicago, Ill. Smoker stand. Des. 71,932; Jan. 25.
- Silber, Walter, Brooklyn, assignor to Special Stamping and Manufacturing Co., Inc., New York, N. Y. Bed-stead lock. 1,626,121; Apr. 26.
- Silberman, Clara, executrix. (See Silberman, Jacob.)
- Silberman, David, New York, N. Y. Hook and eye tape. 1,622,743; Mar. 29.
- Silberman, David, New York, N. Y. Stitchless eye tape. 1,632,805; June 21.
- Silberman, David, New York, N. Y. Hook tape. 1,639,472; Aug. 16.
- Silberman, David, New York, N. Y. Hook and eye tape. 1,645,548; Oct. 18.
- Silberman, Harry, New York, N. Y. Textile fabric or the like. Des. 72,192; Mar. 8.
- Silberman, Jacob, deceased. New York, N. Y. C. Silberman, executrix. Fingers for hinges. 1,619,890; Mar. 8.
- Silent, Harold C., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Suppression of echoes and singing in four-wire circuits. 1,653,738; Dec. 27.
- Silent, Harold C. (See Crisson, G., and Silent.)
- Silent, Harold C., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Echo-suppressor relay. 1,619,891; Mar. 8.
- Silent, Harold C., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Delay circuits for voice-operated devices. 1,633,615; June 28.
- Silent Automatic Corporation. (See Thiel, Otto, assignor.)
- Silica Company. (See Bridges, Hazel M., assignor.)
- Silica Gel Corporation, The. (See Miller, Ernest B., assignor.)
- Sillcox, Lewis K. (See Whipple, G. L., and Sillcox.)
- Siller, Karl. (See Stahl, K., and Siller.)
- Sillner, Karl, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gas cell of rigid airships. 1,631,895; June 7.
- Siller, Lenhart G., Sacramento, Calif. Closure mounting and operating means. 1,622,886; Mar. 29.
- Sillman, Halsey E. (See Plummer, E. F., and Sillman.)
- Silmo Chemical Company. (See Miller, Walter E., assignor.)
- Silmo Chemical Company. (See Molofsky, David, assignor.)
- Silten, Ernst, Berlin, Germany. Making therapeutic materials. 1,626,562; Apr. 26.
- Silva, Juan N., Toronto, Ohio. Kilm. 1,617,550; Feb. 15.
- Silva, Michael E., Hyde Park, Mass. Sprinkler system. 1,636,444; July 19.
- Silven, Joseph, et al. (See Weinaug, E., and Macfarlane, assignors.)
- Silver, James W., Ordan, Utah. Endless-belt conveyor. 1,620,168; Mar. 8.
- Silver, Jesse W., Tacoma, Wash. Aircraft. 1,629,843; Mar. 8.
- Silver, John H. F., Philadelphia, Pa. Control mechanism for calculating machines. 1,636,718; July 26.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Lister and planter. 1,633,388; June 21.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Tongue support. 1,653,673; Dec. 27.
- Silverman, Samuel, Newark, N. J., assignor to The Rauchbach-Goldschmidt Co. Drawer-locking mechanism for wardrobe trunks. 1,646,424; Oct. 25.
- Silverman, Saul, New York, N. Y. Stocking or similar article. Des. 73,714; Oct. 25.
- Silverstein, Charles, and S. Silverstein, Brooklyn, N. Y. Device. 1,632,940; Jan. 4.
- Silverstein, Oscar. (See Van Valkenberg, Eber H., assignor.)
- Silverstein, Samuel. (See Silverstein, Charles and S.)
- Silverstein, William I., Brooklyn, N. Y. Machine for making ventilators for wearing apparel. 1,631,773; July 7.
- Silverstine, Jackson L. (See Mitnick, J. J., and Silverstine.)
- Silverthorn, Charles, Pontiac, Mich. Antiskid device for motor vehicles. 1,621,138; Mar. 15.
- Silvestrin, Giovanni, Port Arthur, Ontario, Canada, assignor of one-half to G. Nobile. Wind-power-generating device. 1,633,460; June 21.
- Sime, William B., assignor to The Crawford McGregor and Canby Company, Dayton, Ohio. Attaching heads and shafts of golf clubs and the like. 1,651,843; Dec. 6.
- Simek, Wendel, Guttenburg, N. J. Cane, umbrella, or the like. 1,653,024; Dec. 20.
- Simkins, Clifford E. J., San Francisco, Calif. Device for lifting assembly elevators. 1,624,119; Apr. 12.
- Simko, Andrew S., Passaic, N. J. Removable half sole for shoes. 1,627,465; May 3.
- Simmchen, Wilhelm, assignor to the Firm: Ipag International Patent Exploiting Company, Ltd., Aussig a/E (Ustin/Lab.), Czechoslovakia. Harness motion for looms. 1,619,990; Mar. 8.
- Simminge, Francis D. (See Donnelly, J. O., and Simminge.)
- Simmonds, Eugene B., et al. (See Bell, Frank M., assignor.)
- Simmons, Albert H., Wheaton, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric heater base or similar article. Des. 72,336; Mar. 29.
- Simmons, Albert H., Oak Park, assignor to Edison Electric Appliance Company, Inc., Chicago, Ill. Electric urn. 1,620,495; Mar. 8.
- Simmons, Albert H., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Valve iron. 1,632,630; June 14.
- Simmons, Albert H., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric connector. 1,637,059; July 26.
- Simmons, Alfred K., Fairbault, Minn. Dental fastening means. 1,621,175; Mar. 15.
- Simmons, Clarence L. (See Rice, G. E., and Simmons.)
- Simmons, Claude, Reno, Nev. Automobile brake and jack. 1,625,226; Apr. 19.
- Simmons, Frank L., assignor to The Taft-Peice Manufacturing Company, Woonsocket, R. I. Magnetic bar pole chuck. 1,624,076; Apr. 12.
- Simmons, Frederick C., Highland Park, Pa., assignor to Pioneer Suspender Company. Belt buckle. 1,650,912; Nov. 29.
- Simmons, George H., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,626,103; Apr. 26.
- Simmons, John G., Marion, Ill. Insulator changer. 1,606,764; Feb. 8.
- Simmons, Leon E., Claremont, N. H., assignor to Sullivan Machinery Company. Portable abutment. 1,648,070; Nov. 8.
- Simmons, Leon E., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,653,826; Dec. 27.
- Simmons, Oliver G., Lakewood, Ohio. Spiral cutter. 1,643,474; Sept. 27.
- Simmons, Oliver G., Lakewood, assignor to The National Tool Company, Cleveland, Ohio. Valve seating and aligning tool. 1,621,471; Mar. 15.
- Simmons, R. A., Vernonia, Oreg. Reversible-flow dry ice. 1,634,490; July 19.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting sheet material. 1,647,254; Nov. 1.
- Simmons, William J., Forest Lake, Minn. Trap set. 1,617,424; Feb. 15.
- Simmons Company. (See Bayer, Matthew F., assignor.)
- Simmons Company. (See Bradshaw, Richard, assignor.)
- Simmons Company. (See Busch, C. H., and Vollmer, assignors.)

- Simmons Company. (See Collett, Frederick W. H., assignor.)
- Simmons Company. (See Gail, John F., assignor.)
- Simmons Company. (See Kusterle, Frank, assignor.)
- Simmons Company. (See Luddlomb, William E., assignor.)
- Simmons Company. (See Stuart, Charles A., assignor.)
- Simmons Company. (See Travis, Don C., assignor.)
- Simms, Frank C., East Palestine, Ohio. Electric heating unit. 1,632,318; June 14.
- Simms, Frank C., East Palestine, Ohio. Making ceramic members. 1,632,319; June 14.
- Simms, Frederick R. (See Phillips, Clive S., assignor.)
- Simms, Frederick R., London, England. Yielding rotary driving mechanism. 1,631,438; June 7.
- Simms, Frederick R., London, England. Flexible rotary coupling. 1,636,389; July 19.
- Simms, Harold H., et al. (See Hammond, Robert O., assignor.)
- Simon, Alexander, Munich, Germany. High-tension insulator. 1,643,565; Sept. 27.
- Simon, Alfred B., Selah, Wash. Converted motor-power plant. 1,614,402; Jan. 11.
- Simon, Fred L., Baltimore, Md. Sheet piling. 1,620,137; Mar. 8.
- Simon, Friedrich, Freiburg-Breisgau, Germany. Parachute. 1,626,563; Apr. 26.
- Simon, Gerald H., New York, N. Y., assignor to Simon Millinery Co., San Francisco, Calif. Lady's hat. Des. 73,763; Nov. 1.
- Simon, Gerald H., New York, N. Y., assignor to Simon Millinery Co., San Francisco, Calif. Lady's hat. Des. 73,946; Nov. 22.
- Simon, Henry, Limited. (See Mitchell, Alfred H., assignor.)
- Simon, Lester S., Inc. (See Simon, Lester S., assignor.)
- Simon, Lester S., New York, N. Y., assignor to Lester S. Simon, Inc. Transom lining. 1,638,066; Aug. 9.
- Simon, Millinery Co. (See Simon, Gerald H., assignor.)
- Simon, Robert, assignor to The Lawrence Sperry Aircraft Company, Farmingdale, N. Y. Device for launching and landing airplanes from and upon suspended positions. 1,624,188; Apr. 12.
- Simon, William M., assignor. Quality Metal Bed Co., Chicago, Ill. Folding bed. 1,615,412; Jan. 25.
- Simond, Walter A. (See Murphy, G., and Simond.)
- Simond, Walter A. (See Stroud, P. G., and Simond.)
- Simonds, Dewey T., Schenectady, N. Y., assignor to General Electric Company. Thermal electric generator. 1,648,700; Nov. 8.
- Simonds, Francis M., assignor of one-half to A. F. Hyde, New York, N. Y. Ore furnace. 1,637,163; July 26.
- Simonds, Francis M., assignor of one-half to A. F. Hyde, New York, N. Y. Treating ores. 1,637,838; Aug. 2.
- Simonds-Dayton, A. A., Company, The. (See Anderson, Edward, assignor.)
- Simonds Saw and Steel Company. (See Giles, Theodore E., assignor.)
- Simoneau, Magloire J., sr., Duxbury, Mass. Creel equipped with automatic tension device. 1,614,497; Jan. 18.
- Simonet, Alexander. (See Fischer, C., and Simonet.)
- Simons, Anton, New York, assignor of one-fourth to N. Weinberg and one-fourth to I. Weinberg, Brooklyn, N. Y. Apparatus for plucking fowls. 1,637,060; July 26.
- Simons, Aaron, New York, assignor of one-fourth to N. Weinberg and one-fourth to I. Weinberg, Brooklyn, N. Y. Fowl-plucking device. 1,637,061; July 26.
- Simons, Donald M., Osborne, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Terminal building for oil-filled cables. 1,613,910; Jan. 11.
- Simons, Donald M., Osborne, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Method of building joints. 1,613,911; Jan. 11.
- Simons, Donald M., Osborne, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Apparatus for building joints. 1,620,740; Mar. 15.
- Simons, Donald M., Osborne, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Cable joint. 1,628,438; May 10.
- Simons, Donald M., Osborne, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Cable joint. 1,612,514; Sept. 13.
- Simons, Donald M., Osborne, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Cable-joint structure. 1,612,515; Sept. 13.
- Simons, Ernest R., St. Paul, Minn. Quilting frame. 1,643,351; Sept. 27.
- Simons, George W. (See Norris, Harvey O., assignor.)
- Simons, Harry C., Philadelphia, Pa. Sand, emery, or other abrasive paper, cloth, or the like. 1,635,350; July 12.
- Simons, Irvin. (See Knox, C. P., and Simons.)
- Simons, John A., Montevideo, Minn. Vehicle body. 1,648,965; Nov. 15.
- Simons, Philip, Pewamo, Mich. Combined cultivator tooth and sweep. 1,630,585; May 31.
- Simons, Ronald P., and J. P. Oskmidge, Okla. Tubing anchor. 1,626,162; Apr. 26.
- Simonsen, William F., et al. (See Vaughan, John, assignor.)
- Simplex Cap Company. (See Zarosky, Charles A., assignor.)
- Simplex Heat Regulator Company. (See Myer, Albert P., assignor.)
- Simplex Ice and Manufacturing Company. (See Lee, Abney M., assignor.)
- Simplex Piston Ring Company. (See Solenberger, Dean M., assignor.)
- Simplex Player Action Co. (See Brown, Theodore P., assignor.)
- Simplex Refining Company. (See Kramer, Gustav A., assignor.)
- Simplex Refining Company. (See Pyzel, Daniel, assignor.)
- Simplex Sampling Association, Inc. (See Stenz, Bernard F., assignor.)
- Simplex Valve & Meter Company. (See Ledoux, J. W., assignor.)
- Simplex Wire and Cable Company. (See Boggs, Charles R., assignor.)
- Simpson, Arthur E., et al. (See Mullinack, George H., assignor.)
- Simpson, Bryant, Washington, D. C. Tailor's measure. 1,624,768; Apr. 12.
- Simpson, Christine M. (See Waterbury, Elmer F., assignor.)
- Simpson, David H., New York, N. Y. Machine for stripping and cutting tobacco leaves. 1,638,018; Aug. 9.
- Simpson, Earl L., Baltimore, Md. Mouthpiece adjuster. 1,629,932; May 24.
- Simpson, Emory G. (See Ottinger, Leon, assignor.)
- Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Window regulator. 1,643,320; Sept. 27.
- Simpson, Frank I., assignor to Fit-All Floor Polishing Attachment Co., Inc., Rochester, N. Y. Floor-polishing attachment for vacuum cleaners. 1,650,660; Nov. 29.
- Simpson, Franklin S., Alton, Ill. Machine for grinding valves. 1,631,700; June 7.
- Simpson, Frederick G., Seattle, Wash. Converter of electric current. 1,625,504; Apr. 19.
- Simpson, Frederick G., Seattle, Wash. Speed and course indicator for conveyances. 1,632,567; June 14.
- Simpson, Frederick G., assignor to Simpson Radio Corporation, Seattle, Wash. Radio telegraph and telephone receiving system. Re16,806; Nov. 29.
- Simpson, Fredrick J., assignor to T. P. Shelly, Montreal, Quebec, Canada. Die for bolt making or similar machines. 1,646,425; Oct. 25.
- Simpson, George F., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Woven-wire-cloth covering for pressing-machine elements. 1,639,458; Aug. 16.
- Simpson, George N., Chicago, Ill. Power mechanism. 1,630,809; May 31.
- Simpson, George N., Chicago, Ill. Power mechanism. 1,630,810; May 31.
- Simpson, George R., Portland, Ore. Weed puller. 1,640,732; Aug. 30.
- Simpson, George W., Waterson, N. J. Fabric-printing machine. 1,612,949; Jan. 4.
- Simpson, Herbert S., Chicago, Ill. Automatic device for operating and closing discharge doors on mixers. 1,615,525; Jan. 25.
- Simpson, James, Bellshill, and J. Glen, Conbridge, Scotland. Apparatus for measuring linear dimensions. 1,637,921; Aug. 2.
- Simpson, John M., assignor to Warner Gear Company, Muncie, Ind. Transmission gearing. 1,631,937; June 7.
- Simpson, John M., assignor to Warner Gear Company, Muncie, Ind. Automobile transmission. 1,631,938; June 7.
- Simpson, John M., assignor to Warner Gear Company, Muncie, Ind. Speed-varying transmission. 1,631,939; June 7.
- Simpson, Mayroe D., Brooklyn, N. Y. Fluid transmission. 1,637,968; Aug. 2.
- Simpson, Norman W. (See Young, A. M., and Simpson.)
- Simpson, Ray, River Forest, assignor to Jewell Electrical Instrument Co., Chicago, Ill. Electrical measuring instrument. 1,642,516; Sept. 13.
- Simpson, Robert, Detroit, assignor to L. W. Shaw, Highland Park, Mich. Rotary snow-sweeper attachment for tractors. 1,629,321; May 17.
- Simpson, Robert D., Columbus, Ohio. Closure device. 1,630,222; May 24.
- Simpson, Robert J. O., Athol, Mass. Wearing apparel. 1,648,153; Nov. 8.
- Simpson, Robert J. O., assignor to The L. S. Starrett Company, Athol, Mass. Cylinder gauge. 1,625,401; Apr. 19.
- Simpson, Robert J. O., assignor to The L. S. Starrett Company, Athol, Mass. Dial indicator. 1,625,766; Apr. 19.
- Simpson, Robert J. O., assignor to The L. S. Starrett Company, Athol, Mass. Micrometer calipers. 1,625,767; Apr. 19.
- Simpson, Robert W., et al. (See White, Phillip A., assignor.)
- Simpson, Stephen, Newton Abbot, England. Dry gas meter. 1,642,899; Sept. 20.
- Simpson, Tudor R., Johannesburg, Transvaal, South Africa, assignor to Minerals Separation North American Corporation, New York, N. Y. Concentration of metalliferous ores. 1,632,419; June 14.
- Simpson, Ward T., Detroit, assignor, by mesne assignments, to A. G. Dickinson, Grand Rapids, Mich. Carburetor. 1,625,572; Apr. 19.
- Simpson, Ward T., Ann Arbor, Mich., assignor, by mesne assignments, to A. G. Dickinson, Grand Rapids, Mich. Carburetor. 1,625,573; Apr. 19.

- Simpson, Ward T., Ann Arbor, Mich., assignor, by mesne assignments, to A. G. Dickinson, Grand Rapids, Mich. Carburetor and fuel-feeding system therefor. 1,625,575; Apr. 19.
- Simpson, Ward T., Ann Arbor, assignor, by mesne assignments, to A. G. Dickinson, Grand Rapids, Mich. Carburetor. 1,631,701; June 7.
- Simpson, Ward T., assignor, by mesne assignments, to A. G. Dickinson, Grand Rapids, Mich. Carburetor. 1,625,574; Apr. 19.
- Simpson, Ward T., assignor to A. G. Dickinson, Grand Rapids, Mich. Carburetor. 1,647,058; Oct. 25.
- Simpson, William E., assignor to Palmer-Bee Company, Detroit, Mich. Air hoist. 1,645,865; Oct. 18.
- Simpson, Willis H. (See Piver, William C., assignor.)
- Sims, Radio Corporation. (See Simpson, Frederick G., assignor.)
- Sims, Floyd A. (See Uphoff, L. P., and Sims.)
- Sims, Robert J., Spokane, Wash. Form-lifting mechanism. 1,618,557; Feb. 22.
- Sincerbeaux, Chauncey M. (See Fuchs, Hugo, assignor.)
- Sinclair, Clyde C., and E. A. Phelps, assignors to Moonlight Bag Company, Paw Paw, Mich. Artificial bait or lure and finishing the same. 1,639,863; Aug. 23.
- Sinclair, Cyril G., Toronto, Ontario, Canada, assignor by mesne assignments, to Reliance Storage and Warehouse Company, Detroit, Mich. Washing machine. 1,633,796; June 28.
- Sinclair, Cyril G., Toronto, Ontario, Canada, assignor, by mesne assignments, to Reliance Storage and Warehouse Company, Detroit, Mich. Washing machine. 1,634,238; June 28.
- Sinclair, Peter S., Holyoke, Mass. Burner for hot-water heaters. 1,638,716; June 28.
- Sinclair, Peter S., assignor to Holyoke Heater Company, Holyoke, Mass. Joint packing. 1,630,875; May 31.
- Sinclair Oil and Gas Company. (See Herthel, E. C., and Tift, assignors.)
- Sinclair Refining Company. (See Bell, John E., assignor.)
- Sinclair Refining Company. (See Bell, J. E., and Isom, assignors.)
- Sinclair Refining Company. (See Frye, W. A., and Heady, assignors.)
- Sinclair Refining Company. (See Herthel, Eugene C., assignor.)
- Sinclair Refining Company. (See Herthel, E. C., and Isom, assignors.)
- Sinclair Refining Company. (See Herthel, E. C., and Isom, assignors.)
- Sinclair Refining Company. (See Isom, Edward W., assignor.)
- Sinclair Refining Company. (See Isom, E. W., and Bell, assignors.)
- Sinclair Refining Company. (See Miller, Albert E., assignor.)
- Sinclair Refining Company. (See Parmelee, Charles L., assignor.)
- Sinclair Refining Company. (See Phillips, E. B., and Stafford, assignors.)
- Sinclair Refining Company. (See Sawyer, Geo. W., assignor.)
- Sinclair Refining Company. (See Sloan, Alfred J., assignor.)
- Sinclair, Francis S., Cambridge, Mass. Tube socket. 1,621,381; Mar. 15.
- Sindeband, Maurice L., New York, N. Y., assignor to General Railway Signal Company. Automatic train-control system. 1,614,403; Jan. 11.
- Sinderson, John B., assignor, by mesne assignments, to Barber-Coleman Company, Rockford, Ill. Cutter grinder. 1,618,680; Feb. 22.
- Sineath, Julius B., Orangeburg, S. C. Headlight. 1,617,463; Feb. 15.
- Siner, Raymond K., assignor to North American Lace Company, Philadelphia, Pa. Headband. 1,626,433; Oct. 26.
- Sing-Inmann, Adolph H., Newburgh, N. Y. Self-lubricating bearing. 1,637,966; Aug. 2.
- Singer, B. Alexander. (See Van Meter, James W., assignor.)
- Singer, Felix, Berlin-Charlottenberg, Germany. Stoweware of high resistance against the generating power of electrical sparks and making the stoweware. 1,642,754; Sept. 20.
- Singer, Konrad, P. Paschen, and G. Reime, Nuremberg, Germany, assignors to Westinghouse Electric & Manufacturing Company, New York, N. Y. Electricity meter. 1,645,299; Oct. 11.
- Singer, William T. (See Butler, E. R., and Singer.)
- Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
- Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
- Singer Manufacturing Company, The. (See Chason, Daniel H., assignor.)
- Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)
- Singer Manufacturing Company, The. (See Corral, H., and Heegies, assignors.)
- Singer Manufacturing Company, The. (See De Voë, Albert H., assignor.)
- Singer Manufacturing Company, The. (See Diehl, Frederick, assignor.)
- Singer Manufacturing Company, The. (See Finch, John S., assignor.)
- Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
- Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
- Singer Manufacturing Company, The. (See Naul, James M., assignor.)
- Singer Manufacturing Company, The. (See Peets, Wilbur J., assignor.)
- Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
- Singer Manufacturing Company, The. (See Schaffer, Lewis D., assignor.)
- Singer Manufacturing Company, The. (See Tivendale, William, assignor.)
- Singer Manufacturing Company, The. (See Wood, Alfred, assignor.)
- Singer Pump Company. (See Winsor, Irwin B., assignor.)
- Singiser, John P. (See Taylor, J. H., and Singiser.)
- Singiser, John P., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing machine. 1,652,741; Dec. 13.
- Singley, James W., Marshalltown, Iowa. Tool. 1,635,144; Jan. 18.
- Singley, Leslie K., Hendersonville, N. C. Rod joint. 1,639,009; Aug. 16.
- Sinibaldi, Gabriel, St. John, New Brunswick, Canada. Decoy for wild fowl and the like. 1,616,006; Feb. 1.
- Sinko, John, and D. Szantay, assignors to Sinko Tool & Mfg. Co., Chicago, Ill. Metallic bank. 1,647,547; Nov. 30.
- Sinko Tool & Mfg. Co. (See Sinko, J., and Szantay, assignors.)
- Sinks, William R. (See Budd, T. D., and Sinks.)
- Sinner, Emil, Milwaukee, Wis. Timer. 1,631,291; June 7.
- Sinuling, Frank R., Ramsey, Ill. Track liner. 1,645,825; Oct. 18.
- Sintow, Ely W., Brooklyn, assignor to Art Gage Mfg. Co., Inc., New York, N. Y. Bird cage. Des. 73,391; Aug. 30.
- Sinz, Walter A., Cleveland, assignor to R. Guy Cowan, Lakewood, Ohio. Flower holder. Des. 72,638; May 10.
- Sipe, (Clement R., assignor, by mesne assignments, to Automatic Electric Inc. Chicago, Ill. Automatic switch. 1,631,506; June 7.
- Sipe, George B., Shreveport, La. Drill-bit-blade construction. 1,647,669; Nov. 1.
- Sipe, George B., Shreveport, La. Combined drill and underreamer. 1,647,670; Nov. 1.
- Sipe, James B., et al. (See Robm, James T., assignor.)
- Sipes, William, Shelbyville, Ind. Rail joint. 1,641,014; Aug. 30.
- Sipp, Grant, Paterson, N. J. Winding machine. 1,631,292; June 7.
- Sippel, Ernest H., and N. J. Wright, assignors, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio. Insulation-severing device. 1,632,320; June 14.
- Sirbala, Nick, Union City, N. J. Window-sash fastener. 1,652,058; Dec. 6.
- Sirl, Ralph, Cleveland, Ohio. Steering knuckle. 1,643,034; Sept. 10.
- Sirokman, George S., Denver, Colo. Instrument for measuring reentrant angles. 1,638,887; Aug. 16.
- Sirooni, Ardshir. (See Festenburg, A. G., and A. and H. Sirooni.)
- Sirooni, Haig. (See Festenburg, A. G., and A. and H. Sirooni.)
- Siroen, B. (See Dubuc, Louis M. C. A., assignor.)
- Sisbower, George F., Flushing, and L. E. Pittoni, New York, assignors to Manhattan-Rome Company, branch of Rome Metallic Bedstead Company, Long Island City, N. Y. Folding bed. 1,639,237; Aug. 16.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Coupler-positioning device. 1,638,153; Aug. 19.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Hopper door for railway cars. 1,638,166; Aug. 9.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Corrugation in hopper doors for railway cars. 1,638,167; Aug. 9.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Corrugation in hopper doors for railway cars. 1,638,168; Aug. 9.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Corrugation in hopper doors for railway cars. 1,638,169; Aug. 9.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Hopper door for railway cars. 1,638,170; Aug. 9.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Hopper door for railway cars. 1,638,171; Aug. 9.
- Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Corrugated wall plate. 1,653,067; Dec. 20.
- Sltes, Florian G., Burkburnett, Tex. Sand trap. 1,649,865; Nov. 22.
- Sittkus, Fred C., Potlatch, Idaho. Dogging device. 1,616,876; Feb. 8.
- Slvde, André, Paris, France. Cleaning sand filters of large surface. 1,617,654; Feb. 15.
- Silverizen, Oscar, Trondheim, Norway. Printing apparatus. 1,634,855; July 5.

- Sivian, Leon J. (See Fletcher, H. and Sivian.)
 Six, Dale M., Los Angeles, Calif. Lubricating means for automobile chassis. 1,631,650; June 7.
 Slat, Frederick C. (See Frackleton, R. J., and Slat.)
 Slatin, Emil C., La Habra, Calif. Structure building card. 1,623,641; Mar. 3.
 Szaizer, Maurice, assignor to Societe des Automobiles Szaizer, Courbevoie, France. Vehiclé with independent wheels. 1,650,544; Nov. 22.
 Sizelove, Loren L., Oxford, Ohio. Corn turner. 1,613,486; Jan. 4.
 Sjöberg, Sidney T. (See Payne, H. D., De Clerque, and Sjöberg.)
 Sjölander, Frank V., Jamnstown, Kans. Reel attachment for automobile wheels. 1,642,630; Sept. 13.
 Sjölin, Bengt. (See Broberg, I., Eriksson, and Sjölin.)
 Sjöman, Carl P., and C. G. Pettersson, assignors to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Fuel-injecting nozzle. 1,642,269; Sept. 13.
 Sjöman, Carl P., and C. G. Pettersson, assignors to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Reversing means for internal-combustion motors. 1,651,296; Nov. 29.
 Sjöo, Arvid M., Stockholm, Sweden. Automatic regulator. 1,623,444; Apr. 5.
 Sjöström, John G., Jonköping, Sweden. Veneer lathe. 1,646,115; Oct. 18.
 Skager, Arthur H., assignor to The Denver Rock Drill Mfg. Co., Denver, Colo. Drill-steel retainer. 1,613,139; Jan. 4.
 Skaer, Arthur H., and O. E. Clark, assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drill sharpener. 1,617,225; Feb. 8.
 Skaer, Arthur H., and O. E. Clark, assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo. Lubricating system for rock-drill sharpeners. 1,637,012; July 26.
 Skaer, Arthur H., and E. J. Downing, assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo. Lubricator for winding drums. 1,654,100; Dec. 27.
 Skner, James A., Wichita, Kans. Hose supporter. 1,629,811; May 24.
 Skaggs, James A., Canton, Ohio. Reserve-gasoline tank and filter. 1,617,868; Feb. 15.
 Skaggs, Mert C., assignor of one-half to C. Mallette, Crocker, Mo. Combination brace and nut lock for automobiles and the like. 1,651,559; Dec. 6.
 Skaggs, Mert C., and F. Hammock, Crocker, Mo. Radius brace. 1,647,375; Nov. 1.
 Skaletzky, Benjamin, New York, N. Y. Finger ring. Des. 73,586; Oct. 4.
 Skaletzky, Benjamin, New York, N. Y. Finger ring. Des. 73,587; Oct. 4.
 Skaletzky Bros., Inc. (See Skaletzky, Samuel, assignor.)
 Skaletzky, Samuel, assignor to Skaletzky Bros., Inc., New York, N. Y. Finger ring. Des. 72,287; Mar. 22.
 Skaletzky, Samuel, assignor to Skaletzky Bros., Inc., New York, N. Y. Finger ring. Des. 72,781; May 31.
 Skaupy, Franz, Berlin, Germany, assignor to General Electric Company. Electric lamp. 1,623,761; Apr. 5.
 Skaupy, Franz, Berlin, Germany, assignor to General Electric Company. Colored incandescent lamp bulb. 1,638,369; Aug. 9.
 Skaupy, Franz, M. Pirani, F. Bahr, and W. Fehse, Berlin, Germany, assignors to General Electric Company. Electrode for electric discharge device. 1,640,428; Aug. 30.
 Skayef Ball Bearing Company, The. (See Runge, Robert F., assignor.)
 Skedgel, David E., assignor to Millville Manufacturing Company, Millville, N. J. Filling stop motion for looms. 1,643,931; Sept. 27.
 Skedgel, John A., Reading, Pa., assignor to Draper Corporation, Hopkdale, Mass. Builder mechanisms for spinning or winding machines. 1,646,561; Oct. 25.
 Skeels, Henry E., Rochester, N. Y. Ladder and platform support. 1,645,879; Oct. 18.
 Skeels, Henry E., Rochester, N. Y. Extension ladder. 1,651,478; Dec. 6.
 Skeen, Samuel T., assignor of one-half to C. E. Stead, Central, Ill. Drill. 1,640,810; Aug. 30.
 Skelahn & Sweeny, Inc. (See Terhune, Herman R., assignor.)
 Skelley, Charles L., New York, N. Y. Safety razor. 1,635,642; July 12.
 Skelly, Allan D., South Lawrence, and D. M. Skelly, Methuen, Mass. Fishing lure. Re. 6,636; May 24.
 Skelly, Bernard H., assignor to American Specialty Co., Inc. Bridgeport, Conn. Vacuum-tube mounting for radio apparatus. 1,614,696; Jan. 18.
 Skelly, David M. (See Skelly, Allan D. and D. M.)
 Skelly, John S., Monongahela, Pa., assignor to International Combustion Engineering Corporation, New York, N. Y. Arc-welding machine. 1,653,376; Dec. 20.
 Skelton, Alice S., Scottsboro, Ala. Cotton die. 1,649,263; Nov. 15.
 Skelton, Earl W. (See Knottwell, Glenn R., assignor.)
 Skelton, Earl W., assignor to G. R. Knottwell, Wauneta, Nebr. Tractor gulch. 1,613,233; Feb. 22.
 Skelton Shovel Co. (See Milligan, Archibald, assignor.)
 Skelton Shovel Co. (See Skelton, Walter E., assignor.)
 Skelton, Walter E., Hamilton, Ontario, Canada, assignor to Skelton Shovel Co., Inc. Making shovels. 1,614,498; Jan. 18.
 Skidmore, Benjamin, Jr., Chicago, Ill. Flexible coupling. 1,640,427; Oct. 25.
 Skiff, Bessie N., Boulder, Colo. Book end or similar article. Des. 72,245; Mar. 15.
 Skillen, William H. (See Hjorth, Oscar B., assignor.)
 Skillern, William T., Boise, Idaho. Hose connection. 1,619,439; Mar. 1.
 Skilman, Newton, Highland Park, Mich. Combined spring shackle and shock absorber. 1,646,884; Oct. 25.
 Skinner, Albert M., Watertown, N. Y. Wall plug. 1,647,891; Nov. 1.
 Skinner Automotive Device Co. (See Skinner, Ralph L., assignor.)
 Skinner Automotive Device Co. (See Weaver, Ira A., assignor.)
 Skinner Automotive Device Co. Inc. (See Garland, Ralph C., assignor.)
 Skinner, Burr R., Aberdeen, S. Dak. Heating boiler-feed water. 1,647,476; Nov. 1.
 Skinner, Clarence L., Crompton, assignor of twelve and one-half per cent to H. Barnett, San Quentin, and twelve and one-half per cent to H. Lybeck, Alameda, Calif. Well-drilling apparatus. 1,652,059; Dec. 6.
 Skinner, Edward B., Flint, Mich. Combined costumer and wardrobe. 1,641,832; Sept. 6.
 Skinner Engine Company. (See Mueller, Herman G., assignor.)
 Skinner, Frank W. (See Norton, E. K., and Skinner.)
 Skinner, Frank W., West Norwood, N. J. Liquid indicator. 1,626,881; May 3.
 Skinner, Fred A. C., St. Louis, Mo. Radiator. 1,618,485; Feb. 22.
 Skinner, Harry A., New York, N. Y. Facial-wrinkle-removing device. 1,629,460; May 17.
 Skinner Irrigation Company, The. (See Coles, Walter H., assignor.)
 Skinner, Milton D., Toronto, Ontario, Canada. Casement-window mounting. 1,648,744; Nov. 8.
 Skinner, Mortimer B., Wilmette, Ill. Pipe clamp. 1,618,234; Feb. 22.
 Skinner, Noah T. E., Newark, Ohio. Fife. 1,618,892; Feb. 22.
 Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Internal-combustion-engine lubrication system. 1,640,856; Aug. 30.
 Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Lubrication system for internal-combustion engines. 1,644,094; Oct. 4.
 Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Internal-combustion-engine oil rectifier. 1,650,773; Nov. 29.
 Skinner, Ralph L., Detroit, Mich., assignor to Skinner Automotive Device Co., Inc., Sacramento, Calif. Apparatus for purifying lubricating oil. 1,650,774; Nov. 29.
 Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Apparatus for purifying lubricating oil. 1,650,775; Nov. 29.
 Skipsey, Allon. (See Peachey, S. J., and Skipsey.)
 Skirrow, Frederick W., and O. W. Herzberg, Shawinigan Falls, assignors, by mesne assignments, to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Manufacturing vinyl esters. 1,639,713; Aug. 9.
 Skitt, James H., assignor to Smith, Drum & Co., Philadelphia, Pa. Cylinder construction. 1,615,240; Jan. 25.
 Skitt, James H., assignor to Smith, Drum & Company, Philadelphia, Pa. Paddle for dyeing machines. 1,622,928; Mar. 29.
 Skitt, James H., assignor to Smith, Drum & Company, Philadelphia, Pa. Dyeing machine. 1,627,347; May 3.
 Sklovsky, Max, assignor to Deere & Company, Moline, Ill. Heating furnace. 1,618,486; Feb. 22.
 Skoczlek, John. (See Karabin, M., Skoczlek, and Mandl.)
 Skoglund, Charles, Lynn, Mass., assignor to General Electric Company. Making tubing. 1,631,651; June 7.
 Skoglund, Leonard B., Fremont, Neb. Sawing machine. 1,635,290; July 12.
 Skogmark, John, New York, N. Y., assignor of one-half to M. F. Chase. Process and apparatus for extracting zinc. 1,652,184; Dec. 13.
 Skoiner, Frank J., Altoona, Pa. Air-control valve. 1,630,317; May 31.
 Skole, Lawrence, assignor to The Apex Spring Cover Company, Cleveland, Ohio. Metal casing for leaf springs. 1,624,683; Apr. 12.
 Skoler, James, Brooklyn, N. Y. Lap robe. 1,640,093; Aug. 23.
 Skolnik, Max, assignor to The Skolnik Patents, Incorporated, Minneapolis, Minn. Power plane. 1,641,646; Sept. 6.
 Skolnik, Max, assignor to Skolnik Patents, Incorporated, Minneapolis, Minn. Woodworking apparatus. 1,641,646; Sept. 6.
 Skolnik Patents, Incorporated. (See Skolnik, Max, assignor.)
 Skouberg, Eric K. (See Mickelson, E. H., and Skouberg.)
 Skonier, Frank J., Altoona, Pa. Lightning arrester. 1,652,913; Dec. 13.

- Skook, Harry E., Cleveland, Ohio. Can tester. 1,640,911; Aug. 30.
- Skorepa, Joseph F., New York, N. Y. Key case. 1,642,791; Sept. 20.
- Skov, Henry, assignor to Dansk Pressefabrik A/S, Copenhagen, Denmark. Device for producing counterpressure in pressing tools. 1,614,404; Jan. 11.
- Skov, Henry A., assignor to Dansk Pressefabrik A/S, Copenhagen, Denmark. Machine for manufacturing bottle caps. 1,628,388; May 10.
- Skröck, Frank W., Jamestown, N. Dak. Article lifter. 1,634,866; July 5.
- Skröckhovich, Joseph, Yonkers, N. Y. Hand polishing machine for shoes. 1,645,357; Oct. 11.
- Skyeplad, Edward A., New York, N. Y. Oil burner. 1,632,046; June 14.
- Skywriting Corporation of America, The. (See Savage, John C., assignor.)
- Slack, Walter L., near Seattle, Wash. Device for operating on piston-ring grooves. 1,650,160; Nov. 22.
- Sladden, Sidney C., Freeport, N. Y. Self-propelled hose nozzle. 1,628,070; May 10.
- Slade, Alton P., assignor to Gleason Works, Rochester, N. Y. Dressing wheel. 1,646,501; Oct. 25.
- Slade, Edward, New York, N. Y. Brake. 1,622,681; Mar. 29.
- Slade, Francis W. (See Woodgate, H. W., and Slade.)
- Slade, Harold E., Glen Ridge, N. J., assignor to Beaver Machine & Tool Co. Inc., Newark, N. J. Electric switch. 1,618,784; Feb. 22.
- Slade, Harold E., assignor to Beaver Machine & Tool Co. Inc., Newark, N. J. Outlet receptacle. 1,631,507; June 7.
- Slade, Harold E., assignor to Beaver Machine & Tool Company, Inc., Newark, N. J. Electric-lamp socket. 1,643,790; Sept. 27.
- Slade, Louis N. (See Work, B. G., and Slade.)
- Sladky, Alexander C. and J., assignors to National Enameling & Stamping Co. Inc., Milwaukee, Wis. Camp cookstove. 1,635,643; July 12.
- Sladky, Alexander C. and J., assignors to National Enameling and Stamping Co. Inc., Milwaukee, Wis. Stove-pipe and similar pipes. 1,651,044; Nov. 29.
- Sladky, Joseph. (See Sladky, Alexander C. and J.)
- Slagle, Edna C., Easton, Pa. Sawing machine. 1,634,692; July 5.
- Slasher Rolls Co. (See McGann, George J.)
- Slate, Thomas B., Glendale, Calif. Airship. 1,642,270; Sept. 13.
- Slate, Thomas B., assignor, by mesne assignments, to International Patents Fiscal Corporation, New York, N. Y. Carbonating apparatus. 1,634,059; June 28.
- Slate, Thomas B., assignor, by mesne assignments, to International Patents Fiscal Corporation, New York, N. Y. Method and machine for converting carbon dioxide to a solid. 1,643,590; Sept. 27.
- Slatea, Albert, Minneapolis, Minn. Cream-dispensing device. 1,650,860; Nov. 25.
- Slater, Albert, Minneapolis, Minn. Butter cutter. 1,652,185; Dec. 13.
- Slater, Dick C., Latrobe, Pa. Combined seat support, table, and luggage carrier for automobiles. 1,625,916; Apr. 26.
- Slater, Earl A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Drive mechanism. 1,621,033; Mar. 15.
- Slater, Fred M. (See Bayles, L. C., and Slater.)
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Hoist. 1,614,158; Jan. 11.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock-drill. 1,629,179; May 17.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Blowing device. 1,637,203; July 26.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Tube connection for rock drills. 1,637,204; July 26.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic tool. 1,641,357; Sept. 6.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,646,773; May 25.
- Slator, George F., West Palm Beach, Fla. Portable building. 1,639,577; Aug. 16.
- Slater, Harry, Hawthorne, Calif. Air-operated device. 1,624,018; Apr. 12.
- Slater, N. Company, Limited, The. (See Cassels, Charles C., assignor.)
- Slater, S. & Sons, Incorporated. (See Schlatter, Carl, assignor.)
- Slater, Walter G., Dodge City, Kans. Safety cut-off device for gas service. 1,615,776; Jan. 25.
- Slattery, Donald W., East Cleveland, Ohio. Butterfly valve. 1,643,753; Sept. 27.
- Slattery, James B., Brooklyn, N. Y. Gas heater. Des. 72,268; Mar. 22.
- Slauson, Harold W., New York, N. Y. Electrical signaling means. 1,633,043; June 21.
- Slauson, Louis E., Rock Island, Ill. Traction wheel. 1,644,858; Oct. 11.
- Slauson, Louis E., Moline, assignor to Grid-Iron Grip Company, Rock Island, Ill. Traction wheel. 1,626,126; May 17.
- Slauson, Stephen A., assignor, by mesne assignments, to Vee Products Company, Cedar Rapids, Iowa. Take-up device. 1,615,145; Jan. 18.
- Slavik, John F., New York, N. Y. Copyholder. 1,615,959; Feb. 1.
- Slavin, Andrew, et al. (See Rex, Harry H., assignor.)
- Slavin, Francis R., et al. (See Rex, Harry H., assignor.)
- Slawson, Marion G., Girard, Kans. Grave marker. 1,651,780; Dec. 6.
- Slayton, W. L., Toledo, Ohio. Reminder for card players. 1,627,208; May 8.
- Slayton, Walter L., Toledo, Ohio. Air-operated signal switch. 1,615,855; Feb. 1.
- Slayton, William C., Toledo, Ohio. Reminder for bridge player. 1,653,440; Dec. 20.
- Slechta, Thomas J., Minneapolis, Minn. Tone modifier. 1,621,608; Mar. 22.
- Slee, Daniel G., assignor to The France Foundry & Machine Co., Toledo, Ohio. Curb inlet. 1,643,960; Oct. 4.
- Sleeman, William C., Birmingham, and A. J. Monfey, Pratt City, Ala. Coupler-release rigging. 1,634,693; July 5.
- Sleeman, William C., Birmingham, Ala. Railway-car truck. 1,644,497; Oct. 4.
- Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Expansion pulley. 1,626,701; May 8.
- Sleeper & Hartley, Inc. (See Sleeper, Frank H., assignor.)
- Sleeper, Harvey P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-indicating device. 1,626,633; May 5.
- Sleith, Samuel W., Louisville, Ky., assignor to Great Lakes Golf Corporation, Milwaukee, Wis. Golf club. 1,643,754; Sept. 27.
- Slemmer, William B. (See Ash, H. W., and Slemmer.)
- Slempin, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor material. 1,638,885; Aug. 16.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube oscillator. 1,615,660; Jan. 25.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless receiving system. 1,621,034; Mar. 15.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage regulator. 1,624,370; Apr. 12.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrostatic radiometer. 1,646,634; May 3.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmitter. 1,626,635; May 3.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Glow-discharge transmitter. 1,626,636; May 3.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Constant-current device for glow-discharge microphones. 1,642,091; Sept. 13.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Loud speaker. 1,643,791; Sept. 27.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current-limiting device. 1,645,300; Oct. 15.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic frequency changer. 1,645,303; Oct. 11.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. X-ray tube. 1,645,304; Oct. 11.
- Slepijan, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Microphone circuit. 1,645,306; Oct. 11.
- Slepijan, Joseph, Swissvale, and C. R. Hanna, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Sound-translating device. 1,645,305; Oct. 11.
- Slepijan, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic amplifier and self modulator. 1,645,301; Oct. 11.
- Slepijan, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic amplifier and self modulator. 1,645,302; Oct. 11.
- Slepijan, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission system. 1,645,937; Oct. 18.
- Slepijan, Joseph, and C. R. Hanna, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Acoustic horn. 1,623,561; Apr. 5.
- Sletten, Albert. (See Hallum, O. F., and Sletten.)
- Slevena, William E., New York, N. Y. Book hanger. 1,649,619; Nov. 15.
- Slezak, Vincent, Chicago, Ill. Measuring and weighing device. 1,624,019; Apr. 12.
- Slezak, Vincent F., Chicago, Ill. Casing for a weight-printing machine. Des. 72,246; Mar. 15.
- Slezak, Vincent F., Chicago, Ill. Scale base. 1,616,422; Feb. 1.
- Slezak, Vincent F., Chicago, Ill. Sealing device. 1,616,423; Feb. 1.

- Slezak, Vincent F., assignor, by mesne assignments, to The American Ticket Scale Company, Chicago, Ill. Actuating mechanism for coin-controlled ticket-printing weighing scales. 1,644,752; Oct. 11.
- Slick, Edwin E., Pittsburgh, Pa. Rolling mill. 1,621,284; Mar. 15.
- Slick, Edwin E., Pittsburgh, Pa. Conveyer pan. 1,644,273; July 5.
- Slick, Edwin E., Pittsburgh, Pa. Continuous leer. 1,637,714; Aug. 2.
- Slingerland, Henry H., River Forest, Ill. Banjo. 1,631,293; June 7.
- Slipper City Wood Heel Company. (See Kinney, Norcross W., assignor.)
- Sliter, Howard A., Los Angeles, Calif. Machine for making ornamental crushed linings. 1,639,972; Aug. 23.
- Slivinski, Hugo R., Chicago, Ill. Sand cutting and mixing machine. 1,645,625; Oct. 18.
- Sloan, Alfred J., Kansas City, Kans., assignor to Sinclair Refining Company, Chicago, Ill. Pressure still. 1,619,440; Mar. 1.
- Sloan, Ambrose G., Fort Smith, Ark. Fly hook. 1,635,644; July 12.
- Sloan, Harry E., Hartford, Conn. Rack-tooth-cutting machine. 1,625,402; Apr. 19.
- Sloan, Harry E., Hartford, Conn. Chuck. 1,628,476; May 10.
- Sloan, Harry E., assignor to The Cushman Chuck Company, Hartford, Conn. Chuck. 1,633,828; June 28.
- Sloan, John F., Peoria, Ill. Heater for internal-combustion engines. 1,615,049; Jan. 18.
- Sloan, Theodore H., Charleroi, assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass-forming machine. 1,614,632; Jan. 7.
- Sloane, Harrison G., San Diego, Calif. Hat and parcel carrier. 1,632,568; June 14.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Explosion-proof fuse. 1,619,640; Mar. 1.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Power shovel. 1,628,071; May 10.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Power shovel. 1,640,056; Aug. 23.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Power shovel. 1,653,739; Dec. 27.
- Sloat, Alfred C., Wynnewood, assignor to Congoleum-Nairn, Inc., Philadelphia, Pa. Floor covering. 1,649,750; Nov. 15.
- Slocum, Benjamin A., assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Grooving machine. 1,637,501; Aug. 2.
- Slocum, Benjamin A., assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Identifying means for photographic films. 1,649,621; Nov. 15.
- Slocum, James, Detroit, Mich. Spark-arresting device. 1,641,102; Aug. 30.
- Slocomb, M. L., Shelby, Miss. Pitcher for sterilized water. 1,640,733; Aug. 30.
- Sloe, Joseph E., et al. (See Ginsburg, Marcus O., assignor.)
- Sloanecker, Abram J., Trenton, Mo. Universal joint. 1,616,336; Feb. 1.
- Sloanecker, Abram J., Trenton, Mo. Wire splice. 1,616,337; Feb. 1.
- Sloper, Charles A. (See Thompson, F. L., and Sloper.)
- Sloss, Aaron M. (See Lambert, Victor, assignor.)
- Sloss Perfect Coffee Maker, Inc. (See Reckard, Henry L., assignor.)
- Slosser, Alger J., assignor to Pompeian Flooring Company, Williamport, Pa. Plastic composition product and producing articles of manufacture. 1,627,296; May 3.
- Sloze, Reuben, Mount Vernon, N. Y. Belt buckle. Re16,533; Jan. 11.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Automatic exchange system. 1,617,869; Feb. 15.
- Slowik, Albert, Chicago, Ill. Vehicle bumper. 1,640,222; Aug. 23.
- Slowinski, Edward, and J. Zelazko, Bayonne, N. J. Roller rack. 1,652,687; Dec. 13.
- Slunicko, Julius, and J. A. Nixon, Omaha, Nebr. Pencil sharpener. 1,635,562; July 12.
- Slusher, Frank. (See Cadden, C. C., Slusher, and Evans.)
- Sly, W. W., assignor to Manufacturing Company, The. (See Boesger, George A., assignor.)
- Small, Adina, New York, N. Y. Table. 1,634,218; June 28.
- Small, Alfred B., et al. (See House, Samuel G., assignor.)
- Small, Alfred B., Miami, Fla. Automatic safety lock. 1,653,515; Dec. 26.
- Small, Arthur E., Oak Park, Ill. Attaching means for load-lifting devices. 1,638,019; Aug. 9.
- Small, Arthur E., Oak Park, Ill., assignor, by mesne assignments, to Railway Metal Products Company. Side door for railway freight cars. 1,626,882; May 3.
- Small, Arthur E., Oak Park, Ill., assignor to Union Metal Products Company, Chicago, Ill. Device for operating car couplers. 1,631,294; June 7.
- Small, Arthur E., Oak Park, Ill., assignor to Union Metal Products Company, Chicago, Ill. Centering device for car couplers. 1,631,295; June 7.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Uncoupling device for car couplers. 1,636,154; July 19.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metal end structure for railway cars. 1,638,172; Aug. 9.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Car-coupler-positioning device. 1,645,205; Oct. 11.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Railway-freight-car end wall. 1,649,492; Nov. 15.
- Small, Arthur E., Oak Park, assignor to Union Metal Products Company, Chicago, Ill. End walls for railway cars. 1,649,493; Nov. 15.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Diaphragm-face-plate buffer mechanism. 1,653,068; Dec. 20.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Buffer mechanism for diaphragm face plates. 1,653,069; Dec. 20.
- Small, Braxton, et al. (See House, Samuel G., assignor.)
- Small, Fred F. (See Cohen, L. L., and Small.)
- Small, Frederick T., and W. A. Dickie, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of plastic materials and to apparatus therefor. 1,637,715; Aug. 2.
- Small, Harry S., Westbrook, N. H. Poultry-fence attachment. 1,638,967; Aug. 16.
- Small, James H., and F. J. Kincaid, Charleston, W. Va., assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,634,802; July 5.
- Small, James C., Philadelphia, Pa. Bacterium specific for rheumatic fever and method of utilizing the same in the prevention and treatment of rheumatic fever. 1,630,445; July 19.
- Small, John D. (See Iseman, John W., assignor.)
- Small, John E., Connelville, Pa. Meat-block cleaner. 1,641,103; Aug. 30.
- Small, John S., Elkhart, Ind. File. 1,647,548; Nov. 1.
- Small, John S., New York, N. Y. File. 1,623,980; Apr. 12.
- Small, John S., Topeka, Kans. Paper file. 1,623,981; Apr. 12.
- Small, Joseph E. (See Macdonald, L. S., and Small.)
- Small, Norman M. (See Buehler, J., and Small.)
- Small, Norman M., and L. Buehler, Jr., assignors to Frick Company, Waynesboro, Pa. Can grid. 1,620,579; Mar. 8.
- Small, Norman M., assignor to Frick Company, Waynesboro, Pa. Basket for ice-making systems. 1,648,930; Nov. 8.
- Small, Shirley E., Brockton, Mass. Tool. 1,640,256; Aug. 23.
- Small, Sylvester J., Seattle, Wash. Door fastener. 1,627,752; May 10.
- Small, William E., Brooklyn, N. Y. Reinforced shank. 1,652,220; Jan. 14.
- Small, William J., Port Townsend, Wash., assignor of one-half to L. E. Becker, Portland, Ore. Cushion tire. 1,638,370; Aug. 9.
- Smallbrook, Richard, Kansas City, Mo. Floor drain. 1,648,701; Nov. 8.
- Smalley, Edw. L., South Orange, N. J., assignor to Electric Heating Apparatus Company, Newark, N. J. Electric furnace. 1,614,321; Jan. 11.
- Smalley, Edwin L., South Orange, assignor to Electric Heating Apparatus Company, Newark, N. J. Cut-out for electric furnaces. 1,651,972; Dec. 6.
- Smaman, William H. M., assignor, by mesne assignments, to J. F. Riley, San Francisco, Calif. Building construction. 1,651,072; Nov. 29.
- Smallwood, Horace W. (See Lister, J. F., and Smallwood.)
- Smaltz, John C., Short Hills, N. J. Winch. 1,623,021; Aug. 23.
- Smart, Benjamin M., assignor to General Motors Corporation, Detroit, Mich. Hender bracket for ignition cables. 1,619,991; Mar. 8.
- Smart, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Thermal circuit breaker. 1,632,420; Jan. 14.
- Smart, Russel S. (See Pilibad, Eric J., assignor.)
- Smart, Russel S., Ottawa, Ontario, Canada, assignor to Johnston, Dryden & Co., Incorporated, New York, N. Y. Electric heater. 1,634,046; June 28.
- Smedberg, Iven G., Minneapolis, Minn. Exercising swing. 1,615,241; Feb. 1.
- Smedley, Francis I. (See Wright, A. L., and Smedley.)
- Smedley, William H., Stoke-on-Trent, England. Display card, price ticket, and the like. 1,646,263; Oct. 18.
- Smickle, Raymond H., Belvidere, assignor to Ingersoll-Rand Company, Jersey City, N. J. Double-tube connect. 1,610,115; Feb. 1.
- Smickle, Raymond H., Belvidere, assignor to Ingersoll-Rand Company, Jersey City, N. J. Broaching attachment. 1,647,201; Nov. 1.
- Smid, Joseph E., Fowler, Kans. Tractor guide. 1,632,858; June 21.
- Smilde, R. L., et al. (See Dalgaard, Edward Z., assignor.)
- Smidth, F. L., & Co. (See Fastling, Johan S., assignor.)

- Smith, F. L. & Co. (See Herbst, Peter, assignor.)
 Smith, F. L. & Co. (See Jensen, Robert, assignor.)
 Smith, F. L. & Co. (See Lindhard, Povl T., assignor.)
 Smith, F. L. & Co. (See Pontoppidan, Carl, assignor.)
 Smith, F. L. & Co. (See Vogel-Jorgensen, Mikael, assignor.)
 Smiley, Arthur S., assignor to Union Tank Car Company, New York, N. Y. Cover for receptacles and supports therefor. 1,636,446; July 19.
 Smiley, Lemuel H., Knoxville, Tenn. Control switch for the A batteries of radio receiving sets. 1,639,539; Aug. 16.
 Smiley, Orvall, Indianapolis, Ind. Medicine cartridge and applicator therefor. 1,635,293; June 21.
 Smiley, Richard W., Morgan Park, Minn. Marking stake. 1,616,147; Feb. 1.
 Smiley, William E., Brooklyn, N. Y. Safety appliance. 1,640,677; Aug. 30.
 Smiling Charlie, Inc. (See Becker, Charles M., assignor.)
 Smille, C. M., & Company. (See Cross, Lester H., assignor.)
 Smily, Walter E., and T. Hannah, Pittsburgh, Pa., and M. E. Winans, Irvington, N. J.; said Hannah and Winans assignors to said Smily. Calendar bank. 1,633,873; June 28.
 Smitak, Frank, New York, N. Y. Wire cutting and stripping device. 1,618,734; Feb. 22.
 Smith, A. O., Corporation. (See Andren, Birger T., assignor.)
 Smith, A. O., Corporation. (See Heineman, Warren F., assignor.)
 Smith, A. O., Corporation. (See Langstroth, C. B., and Wunder, assignors.)
 Smith, A. O., Corporation. (See Mikesh, Martin A., assignor.)
 Smith, A. O., Corporation. (See Miller, Jacob C., assignor.)
 Smith, A. O., Corporation. (See Palm, Frederick, assignor.)
 Smith, A. O., Corporation. (See Reichold, Ludwig, assignor.)
 Smith, A. O., Corporation. (See Richter, Walter E., assignor.)
 Smith, A. O., Corporation. (See Smith, Charles S., assignor.)
 Smith, A. O., Corporation. (See Smith, Lloyd R., assignor.)
 Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
 Smith, A. O., Corporation. (See Stresau, Richard, assignor.)
 Smith, A. O., Corporation. (See Stresau, R., and Wood-Rand, assignors.)
 Smith, A. O., Corporation. (See Wetmore, Charles P., assignor.)
 Smith, A. O., Corporation. (See Yeomans, Lucien I., assignor.)
 Smith, Abram E., Huguenot Park, N. Y., assignor to Union Tank Car Company, Jersey City, N. J. Railroad car. 1,645,626; Oct. 18.
 Smith, Albert A. (See Gurnee, I. Q., and Smith.)
 Smith, Albert J. (See Almsay, L. M., and Smith.)
 Smith, Albert K., Midland, Mich., and C. F. Prutton, East Cleveland, Ohio, assignors to The Dow Chemical Company, Midland, Mich. Treating brine. 1,627,068; May 3.
 Smith, Alexander P., Macon, Ga. Basket. 1,642,181; Sept. 13.
 Smith, Alfred A., New York, N. Y. Wall bracket. Des. 73,947; Nov. 22.
 Smith, Alfred H., deceased, Chappaqua, N. Y.; M. E. Smith and E. H. Smith, executors, assignors to The Less Carload Lots Company, Wilmington, Del. Sectional railroad car. 1,631,164; June 7.
 Smith, Alfred H., deceased, Chappaqua, N. Y.; M. E. Smith and E. H. Smith, executors, New York, N. Y., assignors to The Less Carload Lots Company, Wilmington, Del. Transportation car and container. 1,645,259; Oct. 11.
 Smith, Alfred H., deceased, Chappaqua, N. Y.; M. E. Smith and E. H. Smith, executors, assignors to The Less Carload Lots Company, Wilmington, Del. Compartment freight car. 1,650,661; Nov. 29.
 Smith, Alfred H., Chappaqua, and E. G. Miner, Rochester; said Miner assignor to Pfaunder Company, Rochester, N. Y. Sectional refrigerator car. 1,631,165; June 7.
 Smith, Alfred H., Co. (See Vogler, John J., assignor.)
 Smith, Alfred J., Mount Vernon, N. Y. Display device. 1,639,754; Aug. 23.
 Smith, Alfred L., Kansas City, Mo. Cook and heat stove. 1,615,960; Feb. 1.
 Smith, Alice M., et al., executrices. (See Smith, Christian N.)
 Smith, Allan G. (See Dorer, Primus O., assignor.)
 Smith, Allan G., London, England. Combination article. 1,622,167; Mar. 22.
 Smith, Allan G., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Instrument-board panel. Des. 73,347; Aug. 23.
 Smith, Allen A., Great Notch, N. J. Temperature-controlled fluid-mixing device. 1,620,238; Mar. 8.
 Smith, Alva T., Waterbury, Conn. Electric range. Des. 71,851; Jan. 11.
 Smith, Alva T., Winsted, assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Curling iron. 1,630,078; May 24.
 Smith, Amos C., Elberton, Ga. Headband attachment. 1,649,551; Nov. 15.
 Smith, Andrew, Milwaukee, Wis. Clutch control. 1,624,513; Apr. 12.
 Smith, Andrew, San Mateo, Calif. Resistance-regulating apparatus for electric welding. 1,653,070; Dec. 20.
 Smith, Andrew, assignor to Smith Laboratories, Inc., Milwaukee, Wis. Oiling system for internal-combustion engines. 1,653,476; Dec. 20.
 Smith, Archibald B. F., Calcutta, British India. Door for aircraft sheds, aeroplane hangars, and the like. 1,644,285; Oct. 4.
 Smith, Archibald C., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lining-trimming machine. 1,618,235; Feb. 22.
 Smith, Arthur B., Evanston, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,623,320; Apr. 5.
 Smith, Arthur B., Evanston, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Substation telephone circuit. 1,636,330; July 19.
 Smith, Arthur B., Evanston, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multiple automatic telephone system. 1,645,549; Oct. 18.
 Smith, Arthur B., Evanston, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,649,494; Nov. 15.
 Smith, Arthur D., and J. Perl, Arkansas City, Kans. Treating heavy hydrocarbons. 1,640,228; Aug. 23.
 Smith, Arthur E., Los Angeles, Calif. Closure for collapsible tubes. 1,650,960; Nov. 29.
 Smith, Arthur E., Los Angeles, Calif. Closure for collapsible tubes. 1,650,967; Nov. 29.
 Smith, Arthur J., Los Angeles, Calif. Attachment for automobile hoods. 1,613,912; Jan. 11.
 Smith, Arthur J., Tappan, assignor to James F. Doolan Manufacturing Corporation, New York, N. Y. Tie Clasp. 1,624,514; Apr. 12.
 Smith, Arthur M., Cleveland, Ohio. Carburetor. 1,614,322; Jan. 11.
 Smith, Arthur M., Alhambra, and A. W. Rhoades, Los Angeles, Calif. Pole-framing jack. 1,635,291; July 12.
 Smith, Arthur M., assignor to Marshall & Stearns Company, San Francisco, Calif. Portable folding bed. 1,646,116; Oct. 18.
 Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Air-cooling apparatus. 1,614,159; Jan. 11.
 Smith, B. E. (See Sparkes, Harry P., assignor.)
 Smith, Benjamin A. (See Smith, Harry J. and B. A.)
 Smith, Benjamin C., Bayonne, assignor to Standard Motor Construction Company, Jersey City, N. J. Oil-burning engine. 1,647,153; Nov. 1.
 Smith, Benjamin C., Westfield, assignor to Standard Motor Construction Company, Jersey City, N. J. Internal-combustion engine. 1,628,501; Apr. 3.
 Smith, Benjamin H., Westfield, assignor to Westinghouse Electric & Manufacturing Company. Metering system. 1,614,212; Jan. 11.
 Smith, Benjamin H., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal switch. 1,643,792; Sept. 27.
 Smith, Bennett A., et al. (See Wilson, Charles C., assignor.)
 Smith Brothers. (See Smith, Delos H., assignor.)
 Smith, Bryan H., Berkeley, Calif. Luggage carrier. 1,626,978; May 3.
 Smith, Bryce A., Glendale, Calif. Blotter holder. 1,617,551; Feb. 5.
 Smith, Burgess W., assignor to The Todd Company, Incorporated, Rochester, N. Y. Safety paper. 1,627,254; May 3.
 Smith, Calvin, Somerville, N. J. Lock for gas-stove valves and other valves. 1,633,233; June 21.
 Smith, Carl G., Stockholm, Sweden. Machine for splitting of stones or the like. 1,651,973; Dec. 6.
 Smith, Carl L., Hood River, Ore. Orchard ladder. 1,641,641; Sept. 6.
 Smith, Carlisle E., Jersey City, assignor to Bournonville Rotary Valve Motor Company, Hoboken, N. J. Rotary valve. 1,614,323; Jan. 11.
 Smith, Carroll C., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentrating ores and minerals by flotation. 1,652,060; Dec. 6.
 Smith, Charles, Providence, R. I. Adjustable supporting standard for the attractive display of floral designs. 1,617,352; Feb. 15.
 Smith, Charles, and F. Yorke, Bradford, England. Twisting machinery. 1,642,218; Sept. 13.
 Smith, Charles A. (See Bowers, W. G., and Smith.)
 Smith, Charles A. (See Cross, C. S., and Smith.)
 Smith, Charles A., Philadelphia, Pa. Pencil. 1,647,059; Oct. 25.
 Smith, Charles A., assignor to S. A. Smith Manufacturing Company, Brattleboro, Vt. Wheel. 1,649,552; Nov. 15.
 Smith, Charles C. (See MacLaurin, R. D., and Smith.)
 Smith, Charles C., Claremont, N. H., assignor to Sullivan Machinery Company. Safety apparatus. 1,642,182; Sept. 13.

- Smith, Charles E., assignor to The Acme Machinery Company, Cleveland, Ohio. Floating punch for nut machines. 1,652,742; Dec. 13.
- Smith, Charles E., et al. (See Williamson, Aubrey C., assignor.)
- Smith, Charles E., Azusa, Calif. Amalgamating machine. 1,631,434; June 7.
- Smith, Charles E., Brooklyn, assignor to Hemington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,647,842; Nov. 1.
- Smith, Charles E., Geneva, and J. N. Karp, Farmingdale, N. Y. Portable cabbage-cutting machine. 1,638,416; Aug. 9.
- Smith, Charles F., Forest Park, Ill. Musical instrument. 1,615,961; Feb. 1.
- Smith, Charles F., New York, N. Y., assignor, by mesne assignments, to J. J. Halpin, H. A. Rich, E. A. Richell, and G. H. Frew, Jr. Manufacture of tobacco pipes. 1,628,617; May 10.
- Smith, Charles F., and C. Edwards, assignors to Landers, Frary & Clark, New Britain, Conn. Cooker. 1,624,989; Apr. 18.
- Smith, Charles F., Los Angeles, Calif. Nail stripper. 1,645,938; Oct. 18.
- Smith, Charles G., Medford, assignor by mesne assignments to Raytheon Manufacturing Company, Cambridge, Mass. Method and apparatus for the rectification of alternating currents. 1,617,171; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Production of electrical variations. 1,617,172; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Production of electrical-energy variations. 1,617,173; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electrical apparatus and method. 1,617,174; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electrical apparatus. 1,617,175; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electrical apparatus. 1,617,176; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Production of electrical variations. 1,617,177; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electrical apparatus. 1,617,179; Feb. 8.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electrical apparatus. 1,617,180; Feb. 8.
- Smith, Charles J., assignor of one-half to W. J. Carroll, New York, N. Y. Cuff. 1,648,918; Nov. 15.
- Smith, Charles J., Dearborn, and H. A. Hicks, assignors to Ford Motor Company, Detroit, Mich. Airplane-tail-supporting wheel. 1,642,699; Sept. 20.
- Smith, Charles K., Fort Atkinson, Iowa. Plastic-block-forming machine. 1,636,253; July 19.
- Smith, Charles M., Newton, Kans. Box. 1,646,665; Oct. 26.
- Smith, Charles M., assignor of 51 per cent to F. M. Compton, Waco, Tex. Valve guide for fusing tanks. 1,632,631; June 14.
- Smith, Charles R., Chicago, Ill. Hydrocarbon burner. 1,613,090; Jan. 4.
- Smith, Charles S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Rear-axle housing and gear casing for automobiles and manufacturing the same. 1,619,592; Jan. 4.
- Smith, Charles S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Making axle housings. 1,643,225; Sept. 20.
- Smith, Charles W., Banner, Okla. Body lifter and carrier. 1,620,298; Mar. 8.
- Smith, Charles W., Grand Rapids, Mich. Curtain pull. 1,620,741; Mar. 15.
- Smith, Christian N., Elgin, Ill., deceased; A. M. and L. I. Smith, executors. Machine for bending printing plates. 1,640,582; Aug. 30.
- Smith, Christian N., deceased; Elgin, Ill.; A. M. and L. I. Smith, executors, assignors of one-half to W. P. Topping, Elgin, Ill. Machine for bending metallic printing plates, such as stereotype and electrolyte plates. 1,620,041; Mar. 8.
- Smith, Christian N., deceased; Elgin, Ill.; A. M. and L. I. Smith, executors, assignors of one-half to W. P. Topping, Elgin, Ill. Heating and bending metallic printing plates, such as stereotype and electrolyte plates. 1,640,580; Aug. 30.
- Smith, Christian N., deceased; A. M. and L. I. Smith, executors, assignor of one-half to W. P. Topping, Elgin, Ill. Machine for heating and bending metallic printing plates, such as electrolyte and stereotype plates. 1,640,581; Aug. 30.
- Smith, Claude H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Treating balatas and gutta-perchas. 1,614,541; Jan. 18.
- Smith, Clinton F., Attleboro, and J. B. Sabourin, Norton, Mass. Ornamenting machine. 1,626,014; Apr. 20.
- Smith & Crosby (See Klinko, Oscar, assignor.)
- Smith, Dalton R., Ventura, Calif. Dental matrix holder. 1,612,950; Jan. 4.
- Smith, Daniel A., Chevy Chase, Md., and C. P. Stirling, Washington, D. C., assignors to District of Columbia Paper Manufacturing Company, Washington, D. C. Decorated paper and making same. 1,623,280; Apr. 5.
- Smith, Daniel A., Chevy Chase, Md., and C. P. Stirling, Washington, D. C., assignors to District of Columbia Paper Manufacturing Company, Washington, D. C. Machine for making decorated paper. 1,623,281; Apr. 5.
- Smith, Daniel W., Malone, Tex. Spraying machine. 1,632,047; June 14.
- Smith, David B., Los Angeles, Calif. Concrete-form tie and spacer. Re16,793; Nov. 22.
- Smith, David F., Washington, D. C. Compressor for refrigerating machinery. 1,642,900; Sept. 20.
- Smith & Davis Mfg. Co. (See Duvall, William J., assignor.)
- Smith, Delos H., assignor to Smith Brothers, Port Washington, Wis. Making caviar. 1,623,601; Apr. 5.
- Smith, Denis, Ontario, assignor to H. A. Smith, Balboa, Calif. Orchard heater. 1,644,498; Oct. 4.
- Smith, Dennis, Wilmington, assignor to Colborne Manufacturing Company, Chicago, Ill. Pie-making machine. 1,645,627; Oct. 18.
- Smith, Donald N. (See Cook, T. R., and Smith.)
- Smith, Douglass M., Walla Walla, Wash. Toy gun. 1,619,275; Mar. 1.
- Smith, Drum & Company. (See Kohout, Addison S., assignor.)
- Smith, Drum & Company. (See Skitt, James H., assignor.)
- Smith, Dudley, Oakland, Calif. Bedpan shield. 1,623,602; Apr. 5.
- Smith, Duncan C., Rockaway, N. J. Recovery of platinum. 1,640,546; Nov. 15.
- Smith, Earl H., Oak Park, assignor of one-half to C. H. Jenkins, Chicago, Ill. Circulating system for internal-combustion engines. 1,646,070; Oct. 18.
- Smith, Earle C., assignor to Central Alloy Steel Corporation, Massillon, Ohio. Hot top. 1,654,057; Dec. 27.
- Smith, Edwy E., Tampa, Fla. Float-operated switch. 1,628,003; May 10.
- Smith, Edgar J., Cardiff, Wales. Loading hopper. 1,626,122; Apr. 26.
- Smith, Edgar W., Edinburgh, Scotland, assignor to R. W. Crabtree & Sons, Limited, Leeds, England. Printing machines. 1,645,939; Oct. 18.
- Smith, Edgar W., Edinburgh, assignor of one-half to R. W. Crabtree & Sons, Limited, Water Lane, Leeds, England. Apparatus for printing late news in newspaper-printing machines. 1,654,058; Dec. 27.
- Smith, Edward A., Valdosta, Ga. Rosin dipper. 1,622,247; June 14.
- Smith, Edward C., Des Moines, Iowa. Radiorecord. 1,638,277; Aug. 9.
- Smith, Edward D., Erie, Pa. Milk-bottle cover and receptacle. 1,630,867; May 31.
- Smith, Edward L. (See Hudson, A. D., and Smith.)
- Smith, Edward M., Los Angeles, Calif. Perforated pipe for wells. 1,643,394; Sept. 27.
- Smith, Edwin R., W. R. Rice, and J. R. Jackson, Fitchburg, Mass., assignors, by mesne assignments, to Federal Addressing Machine Corporation, Buffalo, N. Y. Sheet-feeding mechanism. 1,646,117; Oct. 18.
- Smith & Egge Mfg. Co., The. (See Sorell, Alfred H., assignor.)
- Smith, Eggleston, Sioux City, Iowa, assignor to Eggleston Spiral Drill Corporation, New York, N. Y. Method and apparatus for drilling wells. 1,612,889; Jan. 4.
- Smith, Eggleston, Sioux City, Iowa, assignor to Eggleston Drilling Corporation. Well-drilling apparatus. 1,611,567; Sept. 27.
- Smith, Elias A., C., assignor to Guggenheim & Brothers, New York, N. Y. Metallurgy of tin. 1,620,580; Mar. 8.
- Smith, Elmer H., Minneapolis, Minn. Making oxyfuel torch tips. 1,634,274; July 5.
- Smith, Elmer H., Minneapolis, Minn. Making torch tips. 1,644,157; Oct. 4.
- Smith, Elmer H., Minneapolis, Minn. Oxy-fuel gas tip and process of making. 1,646,602; Oct. 25.
- Smith, Elmer H., Minneapolis, Minn. Making torch tips. 1,651,232; Nov. 29.
- Smith, Elmer L., and F. B. Fuller, assignors to Package Machinery Company, Springfield, Mass. Wrapping machine. 1,655,580; Dec. 27.
- Smith, Elmer L., and A. E. Phelon, assignors to Package Machinery Company, Springfield, Mass. Stack forming and feeding mechanism. 1,645,406; Oct. 11.
- Smith, E. Payson. (See Harbert, Victor H., assignor.)
- Smith, Emery H., et al., executors. (See Smith, Alfred H.)
- Smith, Eric D., Chicago, and W. H. Perkins, Oak Park, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic battery-charging and voltage-regulating system. 1,649,136; Nov. 15.
- Smith, Eric M., Enstcoote, England. Hydraulic press. 1,613,591; Sept. 27.

- Smith, Ermy R., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone-exchange system. 1,629,007; May 17.
- Smith, Ermy R., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,629,008; May 17.
- Smith, Ernest S. B., Sacramento, Calif. Lock for hotel-guest-room doors. 1,642,313; Sept. 13.
- Smith, Ernest W., New York, N. Y. Game device. 1,613,204; Jan. 4.
- Smith, Ernest W., and T. C. Finlayson, assignors of one-third to Woodall-Duckham Limited, London, England. Removal of sulphureted hydrogen from gas and apparatus therefor. 1,628,477; May 10.
- Smith, Ethel G., Vidalia, Ga. Deflecting shade for head-lights. 1,638,967; Aug. 16.
- Smith, Ethel G., et al. (See Dougherty, Charles T., assignor.)
- Smith, Ethel M. and S. B., Chicago, Ill. Ice cycle. 1,635,292; July 12.
- Smith, Eugene W., New York, N. Y. Combination level. 1,624,684; Apr. 12.
- Smith, Evander A., and Edward R. Finch, Houston, Tex. Agricultural implement. 1,623,321; Apr. 5.
- Smith, Ezra B., Ravenswood, Ill., assignor to J. B. Ogden, Mountainville, N. Y. Control mechanism for doors. 1,646,460; Oct. 25.
- Smith, F. H., Manufacturing Company. (See Sassemann, David C., assignor.)
- Smith, Finney B. (See Renner, Frank J., assignor.)
- Smith, Francis J., Gary, Ind. Spring. 1,628,561; May 10.
- Smith, Francis M. (See Heyer, F. G., and Smith.)
- Smith, Francis X., New York, N. Y. Gas heater for printing presses. 1,636,760; July 20.
- Smith, Frank, assignor of one-tenth to Mrs. A. G. Kerri-son, Rockford, Ill. Foldable bedspring. 1,629,317; May 17.
- Smith, Frank A., Union City, Conn. Tire chain. 1,631,296; June 7.
- Smith, Frank E., Scottsdale, Pa. Carrier for endless-belt conveyers. 1,629,054; May 17.
- Smith, Frank E., Scottsdale, Pa. Roller for belt conveyers and making the same. 1,648,626; Nov. 8.
- Smith, Frank H., and C. L. Sheely, Erie, Kans. Golf-course maintainer. 1,647,586; Nov. 1.
- Smith, Frank H., Cleveland, Ohio, assignor to South-west Foundry & Machine Company, Philadelphia, Pa. Steam platen. 1,639,440; Aug. 16.
- Smith, Frank J., Dodge City, Kans. Hog-scalding apparatus. 1,646,984; Oct. 25.
- Smith, Frank N. (See Clark, J., Smith, and Meese.)
- Smith, Franklin J., Santa Clara, Calif. Swimming pad. 1,626,163; Apr. 26.
- Smith, Franklin S., Brooklyn, N. Y., assignor to Products Protection Corporation. Art and apparatus for welding transformer tanks. 1,613,061; Jan. 4.
- Smith, Franklin S., Brooklyn, assignor to The Products Protection Corporation, New York, N. Y. Treating moldings of partially-cured phenolic condensation products. 1,627,299; May 3.
- Smith, Franklin S., Brooklyn, assignor to The Products Protection Corporation, New York, N. Y. X-ray-beam generator. 1,647,477; Nov. 1.
- Smith, Franklin S., Brooklyn, assignor to The Products Protection Corporation, New York, N. Y. Producing intense periodic X-ray beams of short duration. 1,647,478; Nov. 1.
- Smith, Franklin S., Brooklyn, assignor to The Products Protection Corporation, New York, N. Y. X-ray-beam generator of high power. 1,647,479; Nov. 1.
- Smith, Frederick H., Dover, N. H. Cooking device. 1,630,676; May 31.
- Smith, Frederick R., and S. M. Viale, Coventry, England. Driving of rotary blowers or pumps for use on internal-combustion engines. 1,630,544; May 31.
- Smith, Frederick W., Whittier, Calif. V-section bandless brake. 1,625,103; Apr. 19.
- Smith, Garrett M., Fort Worth, Tex. Wrench. 1,651,162; Nov. 26.
- Smith, George, Richmond, Va. Pan-preparing mechanism. 1,615,727; Jan. 25.
- Smith, George, Richmond, Va. Preparing pans for baking. 1,616,007; Feb. 1.
- Smith, George, Richmond, Va. Pan-treating apparatus. 1,639,540; Aug. 16.
- Smith, George A. (See Lewington, G. A. R., and Smith.)
- Smith, George, Baltimore, Md., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing machine. 1,635,014; July 5.
- Smith, George B. M. (See Smith, Louis J., and G. B. M.)
- Smith, George B., Jenkintown, assignor to American Engineering Company, Philadelphia, Pa. Control mechanism. 1,638,786; Aug. 9.
- Smith, George F., Toledo, Ohio. Bed lamp. 1,654,148; Dec. 27.
- Smith, George I., Los Angeles, Calif. Mold. 1,634,047; June 28.
- Smith, George I., Los Angeles, Calif. Mold. 1,642,564; Sept. 13.
- Smith, George L., and R. Munce, Fresno, Calif. Wheel lifter. 1,653,516; Dec. 20.
- Smith, George M. (See Forrest, A., and Smith.)
- Smith, George M., Cincinnati, Ohio. Spark intensifier for electric currents. 1,623,982; Apr. 12.
- Smith, George M., Milwaukee, Wis. Swing. 1,647,587; Nov. 7.
- Smith, George O., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Alloy. 1,634,343; July 5.
- Smith, George W., Jr., Pittsburgh, Pa. Wringer-roll guard. 1,643,475; Sept. 27.
- Smith, Guy A., and E. L. Evans, Kansas City, Kans. Socky signal. 1,618,681; Feb. 22.
- Smith, Guy W., Detroit, Mich. Mud puller for automobiles. 1,635,645; July 12.
- Smith, H. Leslie, et al. (See Wilson, John H., assignor.)
- Smith, H. N. (See Ruoff, Frederick, assignor.)
- Smith, Harold A., Parole, assignor to The Hamersley Manufacturing Company, Garfield, N. J. Paper and making same. 1,644,451; Oct. 4.
- Smith, Harold J., Chicago, Ill. Machine for handling, cooling, and drying materials. 1,648,330; Nov. 8.
- Smith, Harrison A., Neenah, Wis., assignor, by mesne assignments, to The Servidor Company, New York, N. Y. Service cabinet. 1,639,904; Aug. 25.
- Smith, Harry, Needham, assignor, by mesne assignments, to The Gamewell Company, Newton, Mass. Signaling mechanism. 1,616,877; Feb. 8.
- Smith, Harry, Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y. Sand cutting and piling machine. 1,652,588; Dec. 13.
- Smith, Harry B., Albany, N. Y. Dyeing textile materials. 1,623,709; Apr. 5.
- Smith, Harry B., New York, N. Y. Method and mechanism for covering cloth boards, etc. 1,631,940; June 7.
- Smith, Harry B., New York, N. Y. Applying top or bottom cover paper to boxes and the like. 1,650,399; Nov. 22.
- Smith, Harry B., assignor to Lightship Cloth Board Corporation, Brooklyn, N. Y. Paper-ware manufacture. 1,620,239; Mar. 8.
- Smith, Harry B., Brooklyn, N. Y., assignor, by mesne assignments, to Hoague-Sprague Corporation, Lynn, Mass. Producing boxes and box blanks. 1,627,811; May 10.
- Smith, Harry B., Brooklyn, N. Y., assignor, by mesne assignments, to Hoague-Sprague Corporation, Lynn, Mass. Producing boxes and box blanks. 1,627,812; May 10.
- Smith, Harry B., assignor to Lightship Cloth Board Corporation, Brooklyn, N. Y. Producing cloth boards. 1,650,049; Nov. 22.
- Smith, Harry B., assignor to Lightship Cloth Board Corporation, Brooklyn, N. Y. Making paper structures. 1,650,050; Nov. 22.
- Smith, Harry B., assignor to Lightship's Cloth Board Corporation, Brooklyn, N. Y. Cloth board, winder, or similar article. 1,650,051; Nov. 22.
- Smith, Harry B., New York, N. Y., assignor, by mesne assignments, to Hoague-Sprague Corporation, Lynn, Mass. Box. 1,650,052; Nov. 22.
- Smith, Harry B., assignor to Bridgman & Rubin, Inc., New York, N. Y. Mechanism and method for strip-covering boxes. 1,651,233; Nov. 29.
- Smith, Harry C., Los Angeles, Calif. Drink dispenser. 1,639,619; Aug. 16.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Apparatus for effecting heat transfer. 1,647,609; Feb. 15.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Gas-generating apparatus. 1,619,441; Mar. 1.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Heating apparatus. 1,639,114; Aug. 16.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Stove. 1,639,115; Aug. 16.
- Smith, Harry O., Omaha, Neb. Wind indicator for night aviation. 1,644,547; Oct. 4.
- Smith, Harry J. (See Fletcher, S. P., and Smith.)
- Smith, Harry J., Lakewood, Ohio. Speed changer. 1,629,180; May 17.
- Smith, Harry J. and B. A., Lakewood, assignors to Hill Clutch Company, Cleveland, Ohio. Self-oiling bearing. 1,643,377; Dec. 20.
- Smith, Harry M. (See Nederman, Stephen A., assignor.)
- Smith, Harry M., Valley, Nebr. Stream deflector and river-bank protector. 1,627,623; May 10.
- Smith, Harvey G., Salina, Kans. Auxiliary headlight. 1,634,694; July 5.
- Smith, Harvey J., Bay Point, Calif. Pendulum inclination indicator. 1,619,317; Mar. 1.
- Smith, Helen A. (See Smith, Denis, assignor.)
- Smith, Henry, Richmond, Va. Garment hanger. 1,619,992; Mar. 8.
- Smith, Henry, Chicago, Ill. Control for curtain and awning rollers. 1,650,770; May 31.
- Smith, Henry C., St. Marys, Oreg. Device for supplying soapy water. 1,632,806; June 21.
- Smith, Henry S., Dixon, Ill., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Plow-lift mechanism. 1,643,644; Sept. 27.
- Smith, Herbert C., Gaston, assignor of one-half to G. T. Stapleton, Hillsboro, Oreg. Combined toy and exerciser. 1,648,745; Nov. 8.
- Smith, Howard F. (See Patterson, Luther, assignor.)
- Smith, Howard W., Ellwood City, Pa. Pipe-threading die. 1,625,830; Apr. 26.

- Smith, Hubert C., St. Louis, Mo. Mattress-filling machine. 1,626,434; Apr. 26.
- Smith, Hubert J., Long Beach, Calif. Pumping jack. 1,640,187; Nov. 15.
- Smith, I. A. (See Franklin, Ned G., assignor.)
- Smith, Ida L., Portland, Me. Dry-mop dust collector. 1,629,590; May 24.
- Smith, Ira E., Stockton, Calif. Thermostat switch. 1,630,556; Mar. 31.
- Smith, Ira E., Stockton, Calif. Oil-burner installation. 1,636,791; July 26.
- Smith, Irving R. (See Golladay, L. R., and Smith.)
- Smith, Irving R., Wauwatosa, Wis. Wheelbarrow. 1,622,354; Mar. 29.
- Smith, Irving R., Wauwatosa, assignor to Sterling Wheelbarrow Company, Milwaukee, Wis. Wheelbarrow. 1,630,975; May 31.
- Smith, Irving R., assignor to Sterling Wheelbarrow Company, Milwaukee, Wis. Wheelbarrow. 1,645,666; Oct. 18.
- Smith, J. Clifford, Bellflower, Calif. Brake-operating mechanism. 1,615,526; Jan. 25.
- Smith, J. P., et al. (See Woolf, Charles S., assignor.)
- Smith, Jack R. C., Victoria, British Columbia, Canada. Valve-core extractor. 1,630,976; May 31.
- Smith, Jacob. (See Weimer, A. W., and Smith.)
- Smith, James E., Edinburgh, Scotland. Mechanical detachable band and forearm. 1,630,277; May 31.
- Smith, James D., Overall, Tenn. Game. 1,620,309; Mar. 8.
- Smith, James T., Newark, N. J. Method and machine for coating leather and the like. 1,625,434; Apr. 19.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,613,415; Jan. 4.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,615,598; Jan. 25.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,616,555; Feb. 8.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,623,445; Apr. 5.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Manifold-web-printing machine. 1,624,685; Apr. 12.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,625,338; Apr. 19.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,627,123; May 3.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,629,546; May 24.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,636,792; July 26.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,639,235; Aug. 16.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machines. 1,642,271; Sept. 13.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,642,272; Sept. 13.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,646,936; Oct. 25.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,651,002; Nov. 29.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,651,415; Dec. 6.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. 1,653,025; Dec. 20.
- Smith, John. (See Murray, J. F., and Smith.)
- Smith, John, Brooklyn, N. Y. Dry cell or battery. 1,622,402; Mar. 29.
- Smith, John, jr., assignor to J. J. Sommer & Co., North Attleboro, Mass. Expandible bracelet. 1,629,976; May 24.
- Smith, John B. (See Olin, J. M., and Smith.)
- Smith, John B. (See Olin, J. M., Davis, and Smith.)
- Smith, John B., assignor of one-half to B. F. Love, Mountain Home, Ark. Earthworking implement. 1,628,562; May 10.
- Smith, John C., Chicago, Ill. Electric-light globe. Des. 71,933; Jan. 25.
- Smith, John C., Chelsea, Mass. Doorlock. 1,617,655; Feb. 15.
- Smith, John D., and C. R. Phillips, assignors of one-third to W. F. Lee and T. Jardine, Richmond, Va. Sealing machine. 1,616,671.
- Smith, John E., East Orange, assignor to The Lite-Rays Cooker Corporation, Plainfield, N. J. Electric cooker. 1,630,237; May 24.
- Smith, John H., assignor, by mesne assignments, to The Edipse Interchangeable Counterbore Company, Detroit, Mich. Reaming and counterboring tool. Re16,817; Dec. 13.
- Smith, John H., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,621,089; Mar. 15.
- Smith, John H., assignor to The Wesson Sales Company, Detroit, Mich. Tool holder. 1,629,547; May 24.
- Smith, John P. (See Tuttle, J. C., Smith, and Wiener.)
- Smith, John P., New Haven, Conn. Gate. 1,647,549; Nov. 1.
- Smith, John W., Philadelphia, Pa. Device for vaporizing atomized fuel. 1,629,976; May 24.
- Smith, John W., Renovo, Pa. Car coupler. 1,645,459; Oct. 11.
- Smith, John W., assignor to Budd Wheel Company, Philadelphia, Pa. Roll for making tapered disks. 1,647,543; Nov. 1.
- Smith, Joseph A., Attleboro, Mass. Nursing nipple. 1,653,787; Dec. 27.
- Smith, Joseph B., Salt Lake City, Utah. Brooder stove. 1,642,565; Sept. 13.
- Smith, Joseph E., Fort Wayne, Ind. Railway-rail anchor. 1,647,976; Nov. 1.
- Smith, Joseph I., Ogden, Utah. Combined case and table. 1,614,261; Jan. 11.
- Smith, Joseph I., Ogden, Utah. Combined camp box and bench. 1,628,072; May 10.
- Smith, Joseph K., Detroit, assignor to C. H. Wills, Weymouth, Mass. Nail steel. 1,643,321; Sept. 27.
- Smith, Joseph K., Worsnop, England, assignor, by mesne assignments, to Granular Iron Company. Making steel. 1,651,638; Dec. 6.
- Smith, Joseph M. (See Moore, M. F. and Smith.)
- Smith, Joseph N., Co. (See Mulligan, Leonard A., assignor.)
- Smith, Joseph T., Paterson, N. J. Molding device. 1,653,232; Dec. 20.
- Smith, Jules A., Pine Orchard, Conn. Ash tray. Des. 73,984; Nov. 29.
- Smith, Julius B., assignor to The American Mills Co., Weymouth, Conn. Covered elastic thread or cord. 1,627,255; May 3.
- Smith, Kenneth L., Lansing, Mich. Building block. 1,652,743; Dec. 13.
- Smith, L. C., & Bros. Typewriter, Inc. (See Gabrielson, Carl, assignor.)
- Smith, L. C., & Corona Typewriters Inc. (See Armstrong, Frank H., assignor.)
- Smith, L. C., & Corona Typewriters, Inc. (See Avery, Henry A., assignor.)
- Smith Laboratories, Inc. (See Smith, Andrew, assignor.)
- Smith, Lawrence A., New Orleans, La. Loud speaker. 1,653,123; Dec. 20.
- Smith, Lawrence F., assignor of one-eighth to L. P. Larkie and one-eighth to A. Faulkner, C. C. Dale, and A. Mercer, Hazard, Ky. Coal car. 1,627,256; May 3.
- Smith-Lee Company, The. (See Chaplin, Walter L., assignor.)
- Smith, Samuel D., Milwaukee, Wis. Surgical syringe. 1,624,990; Apr. 19.
- Smith, Leo, assignor to British Dyestuffs Corporation Limited, Manchester, England. Discharge effect on materials consisting wholly or in part of acetyl cellulose. 1,651,639; Dec. 6.
- Smith, Leonard, Weymouth, La., assignor to M. A. Mummet, Chicago, Ill. Grain-door table. 1,652,802; Dec. 13.
- Smith, Lily I., et al., executrices. (See Smith, Christian N.)
- Smith, Lloyd R., assignor to A. O. Smith Corporation, Milwaukee, Wis. Flexible automobile frame and tubular cross bar therefor. 1,630,036; May 24.
- Smith, Louis A., Auburn, N. Y. Confection-coating machine. 1,635,015; July 5.
- Smith, Louis J., and G. B. M. Smith, Torrance, Calif. Tubing swab. 1,650,099; Nov. 22.
- Smith, Louis P., assignor to Ithaca Gun Company, Ithaca, N. Y. Danger signal for firearms. 1,624,876; Apr. 12.
- Smith, Louis P., assignor to Ithaca Gun Company, Ithaca, N. Y. Barrel-locking mechanism for break-down guns. 1,624,877; Apr. 12.
- Smith, Louis P., assignor to Ithaca Gun Company, Ithaca, N. Y. Hammer-position indicator. 1,624,878; Apr. 12.
- Smith, Louis P., assignor to Ithaca Gun Company, Ithaca, N. Y. Barrel-locking device for break-down guns. 1,624,879; Apr. 12.
- Smith, Major & Stevens Limited. (See Stevens, Percy H., assignor.)
- Smith, Marion D., Casper, Wyo., assignor of one-half to C. E. Ross, Fort Worth, Tex. Boiler-control device. 1,629,055; May 17.
- Smith, Marion R., Portland, Ore. Toy dog. Des. 72,193; Mar. 8.
- Smith, Mark E., assignor to Union Iron Works, Erie, Pa. Boiler. 1,646,428; Oct. 25.
- Smith, Mary P. (See Hind, William M., assignor.)
- Smith, Mathias, San Francisco, Calif. Cigar or cigarette holder. 1,616,396; Feb. 1.
- Smith, Maude E., et al., executors. (See Smith, Alfred H.)
- Smith, Maurice R. (See Wilford, Edward B., assignor.)
- Smith, Mildred A., Albany, N. Y. Chemical heating pad. 1,620,581; Mar. 8.
- Smith, Oliver D., New Orleans, La. Safety stop signal. 1,653,441; Dec. 20.

- Smith, Myrtle E., Glenwood, Wash. Cap. 1,620,400; Mar. 8.
- Smith, Nevlin B., Hamburg, Pa. Nipple-threading machine. 1,624,682; Apr. 12.
- Smith, Noble Z., Champaign, Ill., assignor to M. L. Canott and J. E. Hall, San Francisco, Calif. Attachment for vault doors. Re16,675; July 12.
- Smith, Norman C., assignor of one-half to G. R. Lang, Pittsburgh, Pa. Radio speaking doll. 1,652,839; Dec. 18.
- Snow, Norman L., Hartford, Conn. Soot-blower element. 1,644,286; Oct. 4.
- Smith, Oakley, Chicago, Ill. Measure of tension differential. 1,619,491; Mar. 1.
- Smith, Oberlin, deceased; P. H. Smith, executor, Bridgeport, N. J. Phonograph. 1,335,965; July 12.
- Smith, Oliver P., Portland, Oreg. Grain-reducing machine. 1,634,219; June 28.
- Smith, Omar H. (See Cadwell, S. M., and Smith.)
- Smith, Omar H. (See Jury, A. E., and Smith.)
- Smith, Omar H., New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Comounding and vulcanizing rubber, and products obtained therefrom. 1,651,737; Dec. 6.
- Smith, Owen P., Miami, Fla. Starting cage for dog racing and the like. 1,630,811; May 31.
- Smith, Owen P., Miami, Fla. Traction car and the like. 1,630,812; May 31.
- Smith, Paul, Dayton, Ohio. Oil cup. 1,641,606; Sept. 6.
- Smith, Percy, Glenwood, Wash. Support. 1,615,728; Jan. 25.
- Smith, Percy C., Chicago, Ill. Coin counter and stacker. 1,618,390; Feb. 22.
- Smith, Percy C., assignor to J. F. Meyer, Chicago, Ill. Amusement device. 1,630,098; May 24.
- Smith, Percy C., assignor to J. F. Meyer, Chicago, Ill. Coin chute. 1,633,234; June 21.
- Smith, Philip B. (See Reichel, Alvin S., assignor.)
- Smith, Purnell W., Philadelphia, Pa. Belt loop. 1,618,416; Jan. 4.
- Smith, Ralph B., Endicott, N. Y. Adhesive paste. 1,640,186; Aug. 23.
- Smith, Ralph E. (See Gay, J. C., Smith, and Quirk.)
- Smith, Ralph E., R. J. Arnold, and J. C. Gay, assignors to The Galion Metallic Vault Company, Galion, Ohio. Fastening device. 1,625,962; Apr. 26.
- Smith, Ralph W., Tekoa, Wash. Assembling tool. 1,618,556; Feb. 22.
- Smith, Ralston R., Oakland, Calif. Ice-shaving machine. 1,641,699; Sept. 6.
- Smith, Ray M., New York, N. Y., assignor to Union Tank Car Company, Jersey City, N. J. Dome for tanks and making the same. 1,648,919; Nov. 15.
- Smith, Raymond C. (See Springfield, Garland P., assignor.)
- Smith, Rensselaer J., South Bethlehem, assignor to The Battles-Lite Co., Albany, N. Y. Flash light. 1,624,686; Apr. 12.
- Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for forming metal elements. 1,628,751; May 27.
- Smith, Richmond W., Walpole, Mass. Shutter control for cameras. 1,631,435; June 7.
- Smith, Rittenhouse M., Mobile, Ala. Filing device. 1,626,883; May 3.
- Smith, Rittenhouse M., Mobile, Ala. Filing device. 1,626,884; May 3.
- Smith, Rittenhouse M., Mobile, Ala. Index-locking device and card attachment. 1,626,885; May 3.
- Smith, Rittenhouse M., Mobile, Ala. Filing device. 1,626,886; May 3.
- Smith, Rittenhouse M., Mobile, Ala. Filing device. 1,626,979; May 3.
- Smith, Robert. (See Gifford, A. M., and Smith.)
- Smith, Robert A., Mahwah, assignor to Smith & Serrell, Newark, N. J. Clutch. 1,615,814; Jan. 25.
- Smith, Robert B., Macon, Ga., assignor of one-half to H. L. Siever, Keyser, W. Va. Conditioning textile fibers. 1,642,092; Sept. 13.
- Smith, Robert B., Macon, and T. R. Lovern, Newnan, Ga., assignors to Borne Screamery Company, New York, N. Y. Fiber conditioner. 1,618,893; Feb. 22.
- Smith, Robert C., Tioiga, assignor of one-third to G. A. Rippetoe and one-third to C. E. Rippetoe, Richmond, W. Va. Friction brake. 1,613,541; Jan. 4.
- Smith, Robert D. (See Freeman, Ralph F., assignor.)
- Smith, Robert L. (See Barry, Clinton R., assignor.)
- Smith, Robert W., Fife, England. Candle holder and candle. 1,640,734; Aug. 20.
- Smith, Rosa C., Milwaukee, Wis. Type hanger. 1,645,358; Oct. 11.
- Smith, Roy M., et al. (See Smyser, Elmer D., assignor.)
- Smith, Roy S., Cairo, Ill. Car-door operating and locking device. 1,643,352; Sept. 27.
- Smith, Rufus W., Toronto, Canada. Nut lock. 1,623,365; Apr. 5.
- Smith, Russell J., Menasha, Wis. Sheet feeding and cutting mechanism. 1,638,221; Aug. 9.
- Smith, S. A., Manufacturing Company. (See Smith, Charles A., assignor.)
- Smith, S. & Sons (Motor Accessories) Limited. (See Smith, Allan G., assignor.)
- Smith, Sam P., Cabot, Ark. Automatic railway-crossing signal and bar. 1,635,143; July 5.
- Smith, Samson H. (See Rossworm, G. J., and Smith.)
- Smith, Samuel B. (See Smith, Ethel M. and S. B.)
- Smith, Samuel T., Los Angeles, Calif. Pipe tongs. 1,638,371; Aug. 9.
- Smith and Serrell. (See Serrell, John J., assignor.)
- Smith & Serrell. (See Smith, Robert A., assignor.)
- Smith Separator Company. (See Waters, Millard F., assignor.)
- Smith, Seymour L., Brooklyn, N. Y. Controlling switch. 1,638,617; Dec. 20.
- Smith, Sidney B., Chelmsford, England, assignor to Radio Corporation of America. Thermionic amplifier. 1,622,851; Mar. 29.
- Smith, Sidney B., Bognor, and G. M. Wright, Chesterfield, England, assignors to The Radio Corporation of America, New York, N. Y. Aerial system employed in wireless signaling. 1,618,299; Feb. 22.
- Smith, Sidney L., Pittsburgh, Pa. Car-washing apparatus. 1,614,218; Jan. 11.
- Smith, Sidney L., Pittsburgh, Pa. Drying mop. 1,621,909; Mar. 22.
- Smith, Sidney L., Pittsburgh, Pa. Filter. 1,629,418; May 17.
- Smith, Sidney L., Pittsburgh, Pa. Car-cleaning apparatus. 1,651,045; Nov. 29.
- Smith, Stanley C., London, England. Conversion of lead chloride to lead carbonate. 1,643,261; Sept. 20.
- Smith, Steven J., Port Richmond, N. Y. Typewriter word counter. 1,617,774; Feb. 15.
- Smith, Swan, White Bear, assignor of three-eighths to P. B. Warner, and three-eighths to M. F. Bohlig, St. Paul, Minn. Printing cylinder for rotary presses. 1,648,598; Nov. 8.
- Smith, Sydney, assignor to The Studebaker Corporation, South Bend, Ind. Top construction. 1,630,545; Mar. 31.
- Smith, T. L., Company, The. (See Bager, Frederic E., assignor.)
- Smith, T. L., Company, The. (See Rybeck, Adolph W., assignor.)
- Smith, T. L., Jr. (See Heffernan, John E., assignor.)
- Smith, Thomas J. (See Weideman, George C., assignor.)
- Smith, Thomas J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for unwrapping and stripping inner tubes. 1,642,566; Sept. 13.
- Smith, Thomas J., Cleburne, Tex. Three-row stalk cutter. 1,650,472; Nov. 22.
- Smith, Thomas L. (See Garey, Charles C., assignor.)
- Smith, Thomas, Teddington, and J. H. Dowell, assignors to Adam Hilger, Limited, London, England. Method and apparatus for testing and finishing optical elements. 1,653,233; Dec. 20.
- Smith, Thomas, Teddington, and J. H. Dowell, assignors to Adam Hilger, Limited, London, England. Testing and finishing optical elements. 1,653,234; Dec. 20.
- Smith, Turner B., Wilmington, Calif. Bed attachment. 1,630,453; May 31.
- Smith, Ulysses L. (See Larsh, John M., assignor.)
- Smith, W. D., Silver Co. (See Rothlis, Jacob, assignor.)
- Smith, W. W., et al. (See Dougherty, Charles T., assignor.)
- Smith, Waldorf A., assignor to Carter Radio Company, Chicago, Ill. Variable high resistance and making same. 1,649,990; Nov. 22.
- Smith, Walter H., Tulsa, Okla. Sign. 1,637,626; Aug. 2.
- Smith, Walter H., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Form-cleaning device. 1,616,556; Feb. 8.
- Smith, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective system for motors. 1,637,356; Aug. 2.
- Smith, Walter L., New York, N. Y. Golf club. 1,639,864; Aug. 23.
- Smith, Walter M. C., et al. (See Erb, Lanious P., assignor.)
- Smith, Walter S., Columbus, Ohio. Weight holder for scales. Des. 1,077; Dec. 13.
- Smith, Walter S., Elizabeth, N. J., assignor to Willys Corporation, New York, N. Y. Automobile door and securing panels thereto. 1,643,395; Sept. 27.
- Smith, Ward S., Long Beach, Calif. Concrete form. 1,647,202; Nov. 1.
- Smith, Warren S., Bangor, Pa. Magnetically-operated signal. 1,645,628; Oct. 13.
- Smith, Washington S. (See Cleage, T. D., Smith, and Murray.)
- Smith, Wesley T., Ranger, Tex. Muffler. 1,614,633; Jan. 18.
- Smith, William, Yonkers, N. Y. Diagnostic analysis. 1,622,887; Mar. 29.
- Smith, William A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,616,470; Feb. 8.
- Smith, William A., Clarkson, N. Y. Preparing food substances. 1,627,466; May 3.
- Smith, William A., Jr., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for pneumatic tool. 1,636,651; July 19.
- Smith, William A., Sayre, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Water and air tube connection. 1,653,071; Dec. 20.
- Smith, William B., assignor to Southern Can Company, Baltimore, Md. Can-heading machine. 1,617,505; Feb. 15.

Smith, William B., Hamilton Parish, Bermuda, assignor to H. H. Whetzel, Ithaca, N. Y. Apparatus for application of powdered disinfectants. 1,636,331; July 19.

Smith, William C. (See Pieratt, James S., assignor.)

Smith, William C. Bristol, England. Clutch device. 1,619,892; Mar. 8.

Smith, William C., Chicago, Ill. Roller-shade bracket. 1,650,744; Nov. 29.

Smith, William D., Lumber Bridge, N. C. Combined magnetoe pad and switch. 1,618,608; Feb. 22.

Smith, William D., New Orleans, La., assignor to the Government and the People of the United States of America. Limit switch. 1,641,647; Sept. 6.

Smith, William E. (See Reynolds, Charles L., assignor).

Smith, William F., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Exhaust manifold and muffler. 1,634,000; June 28.

Smith, William F., Brooklyn, assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Agricultural implement. 1,634,728; July 5.

Smith, William F., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Magneto. 1,636,017; July 19.

Smith, William F., Brooklyn, N. Y., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Tractor. 1,640,621; Aug. 30.

Smith, William F., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Internal-combustion engine. 1,640,622; Aug. 30.

Smith, William H., Oakland, Calif. Tank-filling means. 1,624,687; Apr. 12.

Smith, William H., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Mold for casting metals. 1,621,472; Mar. 15.

Smith, William J., assignor to R. J. McCaffrey, Philadelphia, Pa. Pump. 1,626,484; Apr. 26.

Smith, William L., jr., assignor to May Hosiery Mills, Nashville, Tenn. Stop motion for knitting machines. 1,637,662; Aug. 2.

Smith, William M., Turtle Creek, Pa. Power generator. 1,631,069; May 31.

Smith, William M., Bemidji, Minn. Sprayer. 1,632,515; June 14.

Smith, William P., Tucson, Ariz. Condiment holder. 1,646,322; Oct. 18.

Smith, William K., Hillsboro, Tex. Garter. 1,643,183; Sept. 20.

Smith, William S., Cambridge, Mass. Signaling system for elevators. 1,635,586; July 12.

Smith, William W. (See Woodin, C. K., and Smith.)

Smith, William W., Jersey City, N. J. Sampling device. 1,641,996; Sept. 13.

Smith, Willoughby S., Benchams, N. Popleford, and H. J. Garnett, Lynne, Solefields, Sevenoaks, England. Magnetic alloy. 1,622,008; Mar. 22.

Smith, Willoughby S., Newton Popleford, and A. D. Shuter, Harrow-on-the-Hill, England. Manufacture of telegraph and telephone cables. 1,631,774; June 7.

Smith, Willoughby S., N. Popleford, and H. J. Garnett, Sevenoaks, England. Manufacture of cables loaded with alloys of high-magnetic permeability. 1,635,443; July 12.

Smith, Wilmer T., Baltimore, Md. Artificial teeth. 1,621,643; Mar. 22.

Smith, Winfield W., administrator. (See Dougherty, Charles T.)

Smith, Young L., Kuttawa, Ky. Tool-grinding machine. 1,647,203; Nov. 1.

Smitham, James A., assignor to Valley Iron Works, San Juan, Tex. Head gate. 1,624,152; Apr. 12.

Smithie, P. L., Machine Company. (See Novick, Abraham, assignor.)

Smithie, F. L., Machine Co. Inc. (See Novick, A., and Fish, assignors.)

Smithers, Vernon L., Akron, Ohio. Dust cap for tire valves. 1,628,440; May 10.

Smithey, Marvin, Lawrenceville, Va. Meter. 1,623,562; Apr. 5.

Smithfield, Emil A. (See Noelting, W. H., Smithfield, and Noelting.)

Smith's, John B., Sons Company. (See Knowlton, Eugene W., assignor.)

Smiths, John A., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Shear. 1,634,275; July 5.

Smithsams, John A., Pittsburgh, Pa. Flexible coupling. 1,653,740; Dec. 27.

Smits, Theodoros, The Hague, Netherlands. Packing device for use with pistons and piston valves. 1,622,888; Mar. 20.

Smook, George E. (See Smoak, Joseph W. and G. F.)

Smook, Joseph W. and G. F., Megett, S. C. Knock-down barrel. 1,648,786; Nov. 8.

Smock, Elizabeth M., Asheville, N. C. Automobile driver's heel protector. 1,620,401; Mar. 8.

Smock, William C., Burrows, Ind. Indicator and automatic water supply for storage batteries. 1,618,894; Feb. 22.

Smokador Manufacturing Co. (See Fleming, Robert G., assignor.)

Smokeless Oil Burner Company. (See Ryder, P. H., and Moore, assignors.)

Smolczyk, Eduard, Biesdorf-Sud, near Berlin, Germany. Imparting to drying means a large superficial area. 1,633,959; June 28.

Smolens, Abraham M., Brooklyn, N. Y. Figure wheeled toy. Des. 72,194; Mar. 8.

Smoot, Charles H., Maplewood, N. J. Centrifugal governor. 1,616,512; Feb. 8.

Smoot, Charles H., Maplewood, N. J. Flow regulator. 1,620,240; Mar. 8.

Smoot, Charles H., Maplewood, N. J. Furnace regulation. 1,630,977; May 31.

Smoots, Frank E. (See Callis, A. W., and Smoots.)

Smuski, Theodore J., Chicago, Ill., assignor to J. W. Anderson, Gary, Ind. Calculating device. 1,621,609; Mar. 22.

Smurr, Samuel P., assignor of one-half to H. A. Huelse, Chicago, Ill. Fire door. 1,641,506; Sept. 6.

Smyser, Clyde N., Wichita, Kans. Refreshment-serving rack. 1,641,358; Sept. 6.

Smyser, Elmer D., Fellows, Calif., assignor of one-half to A. R. Fletcher, Breckenridge, Tex. Engine. 1,623,502; Apr. 5.

Smyser, Elmer D., assignor of one-third to R. M. Smith and one-third to P. E. Williams, Fellows, Calif. Tubing bleeder. 1,643,903; Sept. 27.

Smyth, Francis G., Jr., Red Bank, N. J. Playing card. Des. 72,580; May 3.

Smyth Manufacturing Company. (See Bischof, Ulrich, assignor.)

Snathe, Thomas A., Paterson, N. J. Gasoline strainer for automobiles. 1,638,066; Aug. 9.

Snadecki, William J., Westover, Va., assignor to R. Crane. Rudder for boats. 1,639,675; Aug. 23.

Snader, Earl E., Webster Groves, Mo. Automatic temperature-actuated refrigerant-regulating valve. 1,626,874; July 26.

Snape, John L., Springfield, Ill. Envelope and envelope blanks. 1,646,426; Oct. 25.

Snapp-O-Stat Company. (See Schnepf, Louis W., assignor.)

Snapp, John P., Limestone, Tenn. Pole clamp. 1,633,129; June 19.

Snapp, John P., Limestone, Tenn. Guide tool. 1,636,332; July 19.

Snapp, John T., Blackwell, Okla. Egg sheller. 1,618,682; Feb. 22.

Snare, Lewis O., Toledo, Ohio. Vulcanizer. 1,621,958; Mar. 22.

Snare, John W., assignor to The Gear Grinding Company, Limited, Birmingham, England. Indexing mechanism for grinding and other machines. 1,620,504; Apr. 26.

Snaveley, Clarence S., Pittsburgh, and A. W. Fisher, Wilkes-Barre, Pa. Apparatus to the Union Switch & Signal Company, Swissvale, Pa. Railway apparatus. 1,621,197; Mar. 15.

Snaveley, John C., Covina, Calif. Furrow tapper. 1,649,622; Nov. 15.

Snead & Company. (See Macdonald, Angus S., assignor.)

Snee, Michael, Los Angeles, Calif. Ball-bearing rail. 1,652,461; Dec. 13.

Snell, Charles B., Port Plain, N. Y. Bloomers. 1,652,914; Dec. 13.

Snell, Commodore P., St. Petersburg, Fla. Curbing section. Des. 72,289; Mar. 22.

Snell, James C., Oak Park, assignor to Premier Electric Company, Chicago, Ill. Rheostat. 1,635,598; Aug. 9.

Snell, Lyle K., Detroit, Mich. Gauge. 1,621,759; Mar. 22.

Snell, Lyle K., assignor to The Willys-Overland Company, Toledo, Ohio. Coupling for pipes. 1,620,924; Mar. 15.

Snell, Lyle K., assignor to The Willys-Overland Company, Toledo, Ohio. Cowl ventilator and motor vehicles. 1,635,599; Aug. 9.

Snelling, Walter O., Allentown, Pa. Extraction of gold from dilute solutions. 1,617,353; Feb. 15.

Snelling, Walter O., Allentown, Pa. Sponge rubber. 1,630,721; May 31.

Snelling, Walter O., Allentown, Pa. Making hollow rayon fibers. 1,631,010; May 31.

Snelling, Walter O., Allentown, Pa. Contact-rectifying device. 1,638,278; Aug. 9.

Snelling, Walter O., Allentown, Pa. Concentration of tin minerals. 1,633,279; Aug. 9.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. 1,617,182; Feb. 8.

Snelling, Walter O., Allentown, Pa., assignor to Gasoline Products Company, Inc., New York, N. Y. Treatment of oils. 1,624,848; Apr. 12.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Coal-mining explosive. 1,631,070; May 31.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Cordeau connector. 1,652,961; Dec. 13.

Snelling, Walter O., and G. A. Rupp, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Method of and apparatus for transporting pulverulent materials. 1,652,960; Dec. 13.

Snider, Charles A., Streator, Ill. Toy carpet sweeper. 1,613,062; Jan. 4.

Snider, Charles A., Atlanta, Ga. Cushion tire. 1,617,870; Feb. 15.

Snider, John F., Weston, Oreg. Weeder. 1,653,518; Dec. 20.

- Sniffen, George W., Woodcliff, N. J., assignor to Bigelow Hartford Carpet Company. Carpet. Des. 72,041; Feb. 15.
- Snodgrass, Joseph C., assignor of three-eighths to A. R. Tallman and two-eighths to B. R. McKinnie, Nashville, Tenn. Automatic braking mechanism for motor cars. Rel.6,632; Apr. 24.
- Snodgrass, Joseph C., assignor of three-eighths to A. R. Tallman and two-eighths to B. R. McKinnie, Nashville, Tenn. Automatic braking mechanism for motor cars. 1,618,236; Feb. 22.
- Snodgrass, Joseph E., assignor of one-third to L. V. Lienhard, Amarillo, Tex. Casing head for oil wells. 1,625,378; Apr. 19.
- Snobri, William E., Chicago, Ill. Street-car barn. 1,613,332; Jan. 4.
- Snook, Charles W., Brookton, Western Australia, Australia. Windmill. 1,654,436; Dec. 27.
- Snook, Diamond A., Taft, assignor of two-fifths to P. G. Cumming, Long Beach, Calif. Combination crane and motor stand. 1,614,697; Jan. 18.
- Snook, Homer C., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Low-impedance electric discharge device. 1,629,009; May 17.
- Snook, Homer C., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for varying the wave form of alternating current. 1,653,881; Dec. 27.
- Snow, A. Elwood, administrator. (See Wilcox, Merrill M.)
- Snow, Barton S., Batavia, assignor to T. W. Snow Construction Co., Chicago, Ill. Storage tank. 1,621,959; Mar. 22.
- Snow, Benjamin H., Winchester, assignor to Bernitz Furnace Appliance Company, Boston, Mass. Furnace wall. 1,629,349; Apr. 3.
- Snow, Charles S. H., Croydon, assignor to N. I. C. E. Limited, London, England. Two-stroke cycle internal-combustion engine. 1,628,520; May 10.
- Snow, Edward J., Montclair, N. J., assignor to Vacuum Oil Company, New York, N. Y. Receptacle holder. 1,646,562; Apr. 26.
- Snow, Isaac, Lawrence, Mass. Thread guide for shuttles. 1,613,487; Jan. 4.
- Snow, Isaac, Lawrence, Mass. Shuttle-eye guide plate. 1,635,728; July 12.
- Snow, James S., sr., Schuyler, Va. Oil cup. 1,631,072; May 31.
- Snow, Norman L., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,645,307; Oct. 11.
- Snow, Robert R., assignor to The Superior Foundry Company, Cleveland, Ohio. Method and apparatus for molding engine sleeves. 1,650,305; Nov. 22.
- Snow, T. W., Construction Co. (See Snow, Barton S., assignor.)
- Snow, William N., Beloit, Wis. Ventilated milk-can cover. 1,625,287; Apr. 19.
- Snow, Wilmer S., Oak Park, assignor to Unique Lamp & Casting Company, Chicago, Ill. Electric-light bracket. Des. 72,686; May 17.
- Snowdon, Charles, and F. Brown, Wolsingham, England. Stretcher for neckties and the like. 1,625,050; Apr. 19.
- Snowmobile Company. (See White, Virgil D., assignor.)
- Snyder, Almond H., Lancaster, assignor, by mesne assignments, to Gould Storage Battery Company, Inc., New York, N. Y. Apparatus for ventilating rectifiers, batteries, and the like. 1,633,137; June 21.
- Snyder & Black, Incorporated. (See Viscount, Joseph L., assignor.)
- Snyder, Caleb H., Winnsboro, La. Piston pin. 1,637,247; July 26.
- Snyder, Charles L. (See Northup, H. R., and Snyder.)
- Snyder, Charles O., Richmond, Ind. Sound amplifier for radiotransmission. 1,627,672; May 10.
- Snyder, Chester R. (See Rystedt, Ingemar K., assignor.)
- Snyder, Claude R., Elmira, N. Y. Antiglare device. 1,640,299; Aug. 23.
- Snyder, Earl T. (See Weber, W. S., and Snyder.)
- Snyder, Elwood S. (See Eyer, G. H., and Snyder.)
- Snyder, Emil R., New York, N. Y. Vehicle brake. 1,649,085; Nov. 15.
- Snyder, Eugene, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Block-feeding mechanism for match machines. 1,629,977; May 24.
- Snyder, Harry L., West Los Angeles, Calif. Paper-bag holder. 1,619,147; Mar. 1.
- Snyder, Harry W., N. Clifton, N. J., assignor to The Manhattan Rubber Mfg. Company. Winding bobbin. 1,627,933; May 10.
- Snyder, Herbert C., assignor to Stewart Manufacturing Corporation, Chicago, Ill. Apparatus for and making rope packing. 1,634,820; July 5.
- Snyder, Herbert G. (See Brice, N. E., and Snyder.)
- Snyder, Herbert T., assignor to Uppesit Products Corporation, New York, N. Y. Receptacle closure. 1,630,360; May 31.
- Snyder, Herbert W., Lima, Ohio. Seat. 1,621,520; Mar. 22.
- Snyder, Howard F., assignor, by mesne assignments, to The Maytag Company, Newton, Iowa. Washing machine. 1,615,413; Jan. 25.
- Snyder, Howard F., assignor, by mesne assignments, to The Maytag Company, Newton, Iowa. Washing machine. 1,644,959; Oct. 11.
- Snyder, James K., Pittsburgh, assignor of one-third to F. W. Dible, Turtle Creek, and one-third to G. Getzie, Braddock, Pa. Automobile appliance. 1,615,599; Jan. 25.
- Snyder, Joe, Fremont, Nebr. Radiator and cover therefor. 1,613,913; Jan. 11.
- Snyder, Louis C., Booneville, Ind. Tire. 1,625,750; Apr. 19.
- Snyder, Rex V., East Orange, N. J., assignor to The American Thread Company, New York, N. Y. Wound bobbin. 1,649,264; Nov. 15.
- Snyder, Simon, assignor to Sprout, Waldron & Co., Muncy, Pa. Grain-cracking machine. Rel.6,759; Oct. 4.
- Snyder, Simon, assignor to Sprout, Waldron & Co., Muncy, Pa. Feeding and mixing machine connected in gangs. 1,625,917; Apr. 26.
- Snyder, Theodore J., Chicago, Ill. Sealing gasket. 1,625,963; Apr. 26.
- Snyder, Wilbur A., Montoursville, Pa. Vehicle direction signal. 1,617,690; Feb. 15.
- Snyder, William J., Newark, N. J. Closure for receptacles. 1,633,187; June 21.
- Snyman, Johannes J., Johannesburg, Transvaal, South Africa. Marking out lawn-tennis courts and other areas for the playing of games and for other similar purposes. 1,617,183; Feb. 8.
- Soames, Alfred. (See Langdon-Davies, W., and Soames.)
- Soap Feeder Corporation. (See Halsey, Norman W., assignor.)
- Sobel, David, Sons Inc. (See Sobel, Frank, assignor.)
- Sobel, Frank, Brooklyn, assignor to David Sobel Sons, Inc., New York, N. Y. Display fixture. Des. 73,875; Nov. 15.
- Sobel, Frank, Brooklyn, assignor to David Sobel Sons, Inc., New York, N. Y. Display fixture. Des. 73,876; Nov. 15.
- Sobel, Joseph, New York, N. Y. Ventilator. 1,630,973; May 31.
- Sobray, Leonard, New York, N. Y. Scaffold shoe. 1,623,892; Apr. 5.
- Sociedad Electroquímica de Flix. (See Müller, Wilhelm, assignor.)
- Societa Industria Globelte. (See Sternberg, Alfred, assignor.)
- Società Italiana Ernesto Breda. (See Soncini, Cesare, assignor.)
- Società Italiana Ernesto Breda. (See Belluzzo, Giuseppe, assignor.)
- Società Italiana Pirelli. (See Emanuelli, Luigi, assignor.)
- Société Alsacienne de Produits Chimiques. (See Blum, Henri, assignor.)
- Société Anonyme d'Applications des Gaz Liquéfiés. (See Lemoine, Louis, assignor.)
- Société Anonyme des Anciens Etablissements Cuttat & Cie. (See Cuttat, Georges E., assignor.)
- Société Anonyme des Anciens Etablissements Hotchkiss & Cie. (See Huret, Charles, assignor.)
- Société Anonyme des Ateliers de Sécheron. (See Mey-farth, Gottlieb, assignor.)
- Société Anonyme des Chaux et Ciments de Lafarge et Du Teil, The. (See Dumas, Georges, assignor.)
- Société Anonyme des Dispositifs d'Adhérence Guccini. (See Guccini, Luigi, assignor.)
- Société Anonyme des Etablissements Ed. Jaeger. (See Rodanet, Charles H. H., assignor.)
- Société Anonyme des Etablissements Kiblok. (See Outhier, Marcel, assignor.)
- Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Bondin, Louis, assignor.)
- Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Long, Bernard, assignor.)
- Société Anonyme des Pétroles Houilles et Derivés. (See Bascou, Emile B. G., assignor.)
- Société Anonyme des Télégraphes Edouard Belin. (See Montheil, André, assignor.)
- Société Anonyme des Usines A. E. Decouffe. (See Danber, Etienne, assignor.)
- Société Anonyme d'Etudes et de Constructions d'Appareils Mécaniques pour la Verrière. (See Roirant, Emile, assignor.)
- Société Anonyme d'Ougree-Maribaye. (See Trasenster, Gustave, assignor.)
- Société Anonyme: Etablissements Braekers. (See Francart, Remy, assignor.)
- Société Anonyme: Etablissements Ed. Jaeger. (See Rodanet, Charles H. H., assignor.)
- Société Anonyme Etablissements Samga et Bavox Reunis. (See Voreux, Paul, assignor.)
- Société Anonyme Jean Patou. (See Huret, Georges, assignor.)
- Société Anonyme John Cockerill. (See Cousin, Arthur J. F. J., assignor.)
- Société Anonyme la Precision Moderne. (See Le Prieur, Yves P. G., assignor.)
- Société Anonyme le Carbone. (See Oppenheim, René, assignor.)
- Société Anonyme le Couite & Cie. (See Rodanet, Charles H. H., assignor.)
- Société Anonyme pour l'Exploitation des Brevets Künzer. (See Künzer, Marcel, assignor.)

- Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers. (See Leblanc, Charles L. A. M., assignor.)
- Société Anonyme Servo-Frein Dewandre. (See Dewandre, Albert, assignor.)
- Société Belge des Produits Rationnels. (See Gougard, Henri C. L., assignor.)
- Société Ch. M. Stein & Cie. (See Stein, Charles, assignor.)
- Société Chimique des Usines du Rhone. (See Bellone, Alfred F. S., assignor.)
- Société de Stearinerie & Savonnerie de Lyon. (See Berthoin, Paul, assignor.)
- Société des Appareils Mephisto Jules Manfredi & Cie. (See Fontana, Paul F. M. A., assignor.)
- Société des Films en Couleur Keller Dorian. (See Audibert, Jean, assignor.)
- Société d'Etudes Chimiques pour l'Industrie. (See Breslauer, J., and Goudet, assignors.)
- Société d'Exploitation des Procédés Hidoux. (See Hidoux, Georges, assignor.)
- Société d'Hygiène Pratique. (See Habault, Sylvain R., assignor.)
- Société des Automobiles Sizaire. (See Sizaire, Maurice, assignor.)
- Société du Carburateur Zenith. (See Baverey, François, assignor.)
- Société du Carburateur Zenith. (See de Boischevalier, Henri, assignor.)
- Société du Carburateur Zenith. (See Heftler, Victor R., assignor.)
- Société Electromecanique d'Appareillage pour l'Essence. (See De Salammanca, Marquis, assignor.)
- Société Electrometallurgique de Montricher. (See Miguet, Paul L. J., assignor.)
- Société Elektrizitätswerk Lonza. (See Lüscher, Emil, assignor.)
- Société Etablissements Ducellier. (See Lanquetin, Léon, assignor.)
- Société Etablissements J. J. Camaud & Forges de Basse-Indre. (See Petit, Hector, assignor.)
- Société Fraissse Freres et al. (See Navarre, Placide, assignor.)
- Société Française des Produits Alimentaires Azotes. (See Kahn, Maurice, assignor.)
- Société Industrielle des Matieres Plastiques, The. (See Barthélemy, Henri, assignor.)
- Société Industrielle des Procédés W. A. Loth. (See Loth, William A., assignor.)
- Société Internationale des Procédés Prudhomme. (See Prudhomme, Eugène A., assignor.)
- Société l'Air Liquide (Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude). (See Claude, Georges, assignor.)
- Société l'Air Liquide (Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude). (See Jordan, Eugène, assignor.)
- Société l'Air Liquide (Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude). (See Le Rouge, Jean, assignor.)
- Société l'Aster. (See Monard, Alfred, assignor.)
- Société of Chemical Industry in Basle. (See Gams, A., and Girard, assignors.)
- Société P. Navarre et Fils et al. (See Navarre, Placide, assignor.)
- Société Parisienne de Confection. (See Jalbert, Georges, assignor.)
- Société pour la Fabrication de la Soie Rhodiaseta. (See Lehoucq, Joseph E. G., assignor.)
- Société Renard Frere et Fils. (See Renard, Pierre and F., assignors.)
- Société Schneider & Cie., et al. (See de Courcusses, Robert, assignor.)
- Société Freres Kochlin. (See Ebersol, Eugène, assignor.)
- Society of Chemical Industry in Basle. (See Fritzsche, L., Krummacker, Gubler, and Kaiser, assignors.)
- Society of Chemical Industry in Basle. (See Gams, A., and Girard, assignors.)
- Society of Chemical Industry in Basle. (See Gams, A., and Widmer, assignors.)
- Society of Chemical Industry in Basle. (See Gubler, H., Stachel, and Straub, assignors.)
- Society of Chemical Industry in Basle. (See Hartmann, Max, assignor.)
- Society of Chemical Industrie in Basle. (See Hartmann, M., and Seiberth, assignors.)
- Society of Chemical Industry in Basle. (See Minnich, Walter, assignor.)
- Society of Chemical Industry in Basle. (See Posternak, Swigel, assignor.)
- Society of Chemical Industry in Basle. (See Straub, Fritz, assignor.)
- Society of Chemical Industry in Basle. (See Straub, F., and Schneider, assignors.)
- Society of Chemical Industry of Basle. (See Tobler, Richard, assignor.)
- Société: Le Textilon Central. (See Itier, Jules A. H., assignor.)
- Société T. R. Geigy S. A. (See Noz, H., Bernoulli, and Link, assignors.)
- Sodastream Limited. (See Hucks, William, assignor.)
- Soderberg, Andrew W., Munhall, Pa. Regenerative furnace. 1,629,056; May 17.
- Soderberg, Carl R. (See Trumpler, W. E., and Solderberg.)
- Soderberg, Carl R., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vibration absorber. 1,638,889; Aug. 16.
- Soderberg, Carl R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vibration absorber. 1,638,968; Aug. 16.
- Soderberg, Carl R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,649,138; Nov. 15.
- Soderberg, Carl R., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,652,502; Dec. 13.
- Söderberg, Carl W., assignor to Det Norske Aktieselskab for Elektrokinetisk Industrie, Christiania, Norway. Making channelled continuous electrodes. 1,640,735; Aug. 30.
- Söderberg, Sten E. B., assignor to Arca Regulators, Inc., New York, N. Y. Regulation. 1,616,557; Feb. 8.
- Soderholm, Arthur, Chicago, Ill. Coin-operated soap dispenser. 1,633,911; Oct. 4.
- Söderlund, Olof, and T. Boberg, Clapham Park, and N. Testrup, Westminster, assignors to Techno-Chemical Laboratories, Limited, London, England. Removal of water from peat and the like. 1,624,769; Apr. 12.
- Soemmer, J. B., Nachf. Reisszugfabrik A.-G. (See Pieper, W. W., assignor.)
- Soemmer, John O., Newark, N. J. Exit latch. 1,630,141; May 24.
- Soenens, Maurice, assignor to Robert Boby Limited, St. Andrews Ironworks, Bury St. Edmunds, England. Machine for harvesting flax and other plants. 1,643,684; Sept. 27.
- Socnksen, Andreas F., De Witt, Iowa. Chain fastener. 1,647,940; Dec. 13.
- Sofia, Jacob A., Detroit Mich. Safety Iron pressing support. 1,613,297; Jan. 4.
- Sofia, Gaetano, et al. (See Pagano, Gaetano, assignor.)
- Sognis, John A. (See Royer, R., and Sognis.)
- Sohn, Alfred L., Chicago, Ill. Locking device for radiator. 1,616,878; Feb. 8.
- Sohn, Archie C. (See Long, C. T., and Sohn.)
- Sohn, Archie C. (See Taylor, A. B., Long, and Sohn.)
- Söhnel, Martin. (See Petzold, E., and Söhnel.)
- Söhne, Friedrich, Newark, N. J. Supporting device. 1,622,058; Mar. 22.
- Sokal, Edward, assignor to American Katalite Corporation, Brooklyn, N. Y. Internal-combustion engine. 1,631,702; June 7.
- Sokal, Edward, assignor to American Katalite Corporation, Brooklyn, N. Y. Internal-combustion engine. 1,631,703; June 7.
- Sokal, Edward, New York, assignor to American Katalite Corporation, Brooklyn, N. Y. Internal-combustion engine. 1,631,704; June 7.
- Sokal, Edward, New York, assignor to American Katalite Corporation, Brooklyn, N. Y. Internal-combustion engine. 1,631,705; June 7.
- Sokal, Edward, New York, assignor to American Katalite Corporation, Brooklyn, N. Y. Internal-combustion engine. 1,631,706; June 7.
- Sokol, Arthur, and S. Montag, Brooklyn, N. Y. Lady's hand-bag or similar article. Des. 71,814; Jan. 4.
- Sokol, Frances, Chelsea, Iowa. Barrette. 1,633,616; June 28.
- Sokolov, Jacob, Detroit, Mich. Spare-tire lock. 1,635,228; July 12.
- Sokolov, Jacob, Detroit, Mich. Spare-wheel lock. 1,635,229; July 12.
- Sokolow, Samuel, Brooklyn, N. Y., assignor to Bright Star Battery Company. Shock-absorbing support for electric lamp. 1,621,610; Mar. 22.
- Sokolowski, Peter, assignor of one-half to M. Strack, Girardville, Pa. Vegetable and fruit slicer. 1,620,138; Mar. 8.
- Sold, Emilio C., Flix, Spain. Apparatus for cinematographic projections. 1,634,597; July 5.
- Soland, Emerson L., assignor of one-third to J. Kasparels, Wells, and one-third to W. L. Hintz, Alden, Minn. Pneumatic elevator. 1,614,160; Jan. 11.
- Solanet, Louis J. H. (See Bertrand, J. J. M., and Solanet.)
- Solar Lighting Fixture Co. (See Bardwell, Ralph S., assignor.)
- Solar Lighting Fixture Co. (See Shallow, Harry, assignor.)
- Solar-Polar Storm Sash and Screen Co. (See Gillman, John J., assignor.)
- Solary, John, Chicago Heights, Ill. Drawing implement. 1,641,016; Aug. 30.
- Solberg, John C., Arlington, assignor of one-half to F. C. Langenberg, Cambridge, Mass. Fluid-pressure intensifier. 1,625,751; Apr. 19.
- Soldan, Otto, Berlin Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft Werneke Siemensstadt, near Berlin, Germany. Hand telephone. 1,631,607; June 7.
- Solem, Peter A., Rockford, Ill. Endless bed sander. 1,637,741; Dec. 27.
- Solenberger, Dean M., assignor to Simplex Piston Ring Company, Cleveland, Ohio. Piston ring. 1,651,163; Nov. 29.

- Soles, Fred A., Platteville, Wis. Sanitary sealed carton. 1,636,390; July 19.
- Sollani, Nabor, assignor to "Ansaldo" Società Anonima, Genoa, Italy. Internal structure for large submarines with twin-screw propellers. 1,634,220; June 28.
- Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
- Solinger, Leo, assignor to Eagle Pencil Company, New York, N. Y. Pencil. Des. 72,803; Mar. 22.
- Soll, Julius. (See Klafte, F. and Söll.)
- Solliday, Foster K., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Suction-hose attachment for nozzles of vacuum cleaners. 1,648,466; Nov. 8.
- Sollie, Sigurd A. (See Kolster, F. A., and Sollie.)
- Soldo, William P., New York, N. Y. Checkerboard. 1,641,104; Aug. 30.
- Solodard, Samuel, New York, N. Y. Alarm system. 1,637,396; Aug. 2.
- Solomiac, Emile J. E., St.-Mande, France. Air heater. 1,648,511; Nov. 8.
- Solomon, Adrian R., San Francisco, Calif. Lamp canopy. Des. 75,675; Oct. 13.
- Solomon, Cecil J., New York, N. Y. Apparatus for cutting furs. 1,621,285; Mar. 15.
- Solomon, Emil. (See Zubrow, H., and Solomon.)
- Solomon, Julius, Oberlin, Ohio. Footwear. 1,640,857; Aug. 30.
- Solomon, Max B., et al. (See Rice, John A., assignor.)
- Solomon, Samuel, New York, N. Y. Brief case. 1,641,871; Sept. 6.
- Solomon, Samuel N. (See Warren, A., and Solomon.)
- Solon, Philip O., Oakland, Calif. Auto spring suspension. 1,618,559; Feb. 22.
- Solvay Process Company, The. (See Sundstrom, C., and Szevly, assignors.)
- Somac Traffic Signal Co. (See Soper, Harold H., assignor.)
- Soman, Michael E., assignor to Greenberg & Schwartz, New York, N. Y. Finger ring. Des. 73,107; July 19.
- Somer, Loren P. (See Seiler, Albert D., assignor.)
- Somerfeld, Herman, New York, N. Y. Metallic construction for serving trays, frames, and the like. 1,640,011; Aug. 23.
- Somerford, Walter W., Rosslyn, Va. Refining bee honey. 1,636,719; July 26.
- Somers, Claude G. (See McFarland, Joseph E., assignor.)
- Somers, Fred F., Sturgis, Mich. Bracket. 1,651,297; Nov. 29.
- Somers, William, South Norwalk, Conn. Combined detachable corset and brassiere. 1,638,787; Aug. 9.
- Somersalo, George, Providence, R. I. Radio apparatus. 1,620,609; Mar. 8.
- Somersalo, George A., New York, N. Y. Preventing retroactive effects in audio amplifier circuits. 1,633,421; June 21.
- Somerstein, Fredrick B., Jacksonville, Fla. Base for time-controlled switches. 1,629,591; May 24.
- Somerville, Albert A., Flushing, assignor of two-thirds to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Oil composition. 1,617,826; Feb. 15.
- Somerville, Albert A., Flushing, assignor of two-thirds to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Petroleum-oil composition. 1,634,054; June 23.
- Somerville, Mathew E. (See Lippis, J., and Somerville.)
- Somerville, William J., Cleveland, Ohio. Inkwell. 1,615,600; Jan. 25.
- Somes, Howard E., Philippe Manor, N. Y. Elongated electrically-heated oven. 1,616,067; Feb. 1.
- Sommer, Edmund T., North Attleboro, Mass. Finger ring. Des. 72,117; Mar. 1.
- Sommer, J. J., & Co. (See Smith, John Jr., assignor.)
- Sommer, J. L., Manufacturing Co. (See Sommer, J. L., and Biehl, assignors.)
- Sommer, John L., and B. Biehl, sr., Newark, N. J., assignors to J. L. Sommer Manufacturing Co. Shoe-tree. 1,641,935; Sept. 6.
- Sommer, Karl G., assignor to American Steam Pump Company, Battle Creek, Mich. Centrifugal vacuum pump. 1,622,355; Mar. 29.
- Sommer, William, assignor to American Hoist & Derrick Company, St. Paul, Minn. Reversing mechanism for hoisting drums. 1,639,151; Aug. 16.
- Sommer, William H., Peoria, Ill., assignor, by mesne assignments, to The Union Trust Company, Cleveland, Ohio, and J. Chapman, Chicago, Ill., trustees. Attachment for electric current demand meters. 1,631,987; June 14.
- Sommer, William R., R. Ree, and C. Kerkhof, assignors to Jiffy Wire Connector Company, Hackensack, N. J. Wire connector. 1,635,293; July 12.
- Somja, John T., Conger, Minn. Snowplow. 1,647,550; Nov. 1.
- Soncini, Cesare, Brescia, assignor to Società Italiana Ernesto Breda, Milan, Italy. Removable barrel mounting for automatic firearms. 1,639,277; Aug. 16.
- Soncini, Cesare, and V. Castelli, Brescia, Italy. Automatic firearm with recolling barrel. 1,613,205; Jan. 4.
- Sondack, Abraham, Bronx, N. Y. Receptacle for ironing boards. 1,621,090; Mar. 15.
- Sonen, Clayton L., assignor to The Bassick Manufacturing Company, Chicago, Ill. Flexible conduit. 1,649,139; Nov. 15.
- Sonin, Sam, Kansas City, Mo. Removable trunk holder. 1,621,176; Mar. 15.
- Sonneborn, John R., Willow Grove, assignor to Stokes and Smith Company, Philadelphia, Pa. Box-wrapping system. 1,646,563; Oct. 25.
- Sonnefeld, August, assignor to the Firm of Carl Zeiss, Jena, Germany. Photographic objective. 1,616,765; Feb. 8.
- Sonnenbath, Irving, New York, N. Y. Dust guard for watches. 1,635,351; June 21.
- Sonnott, William A. (See Goldsmith, H., and Sonnett.)
- Sonntag, Eugene, Astoria, N. Y. Window seat. 1,642,792; Sept. 20.
- Sonoco Products Company. (See Dunlap, Charles K., assignor.)
- Sonoco Products Company. (See Edwards, Howard A., assignor.)
- Sonora Phonograph Company. (See Gruber, Morris M., assignor.)
- Sonora Phonograph Company. (See Oberst, Frank, assignor.)
- Sonora Phonograph Company. (See Wolff, Joseph, assignor.)
- Soo, Norman H., Kansas City, Mo. Pump-rod-hanger mechanism. 1,617,506; Feb. 15.
- Soo, Norman H., Kansas City, Mo. Power-transmitting apparatus. 1,618,785; Feb. 22.
- Soo, Norman H., Kansas City, Mo. Power-transmitting mechanism. 1,618,786; Feb. 22.
- Soo, Norman H., Kansas City, Mo. Pump-rod support. 1,621,286; Mar. 15.
- Soper, Harold H., Medford, assignor to Somac Traffic Signal Co., Boston, Mass. Direction indicator for automobiles. 1,620,402; Mar. 8.
- Soper, Roy M., St. Joseph, Mo., assignor to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing machine. 1,613,140; Jan. 4.
- Sopher, Ted L., assignor of one-half to W. Johnson and A. Johnson, Abilene, Kans. Display case. 1,633,461; June 21.
- Sorabie, Carl, Urbana, Ohio. Stylus mounting for sound records. 1,636,718; July 26.
- Soracio, Carlo, Boston, Mass. Oil cleaner and rectifier. 1,641,239; Sept. 6.
- Soref, Harry, assignor to Master Lock Company, Milwaukee, Wis. Master key. 1,645,407; Oct. 11.
- Sorell, Alfred H., assignor to The Smith & Egge Mfg. Co., Bridgeport, Conn. Lock clamp for cords. 1,653,285; Dec. 20.
- Sorrell, Walter B., assignor to Yardmore Golf Club Manufacturing Company, New York, N. Y. Game club. 1,646,461; Oct. 25.
- Sorensen, Andrew J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for transmitting coded currents. 1,620,169; Mar. 8.
- Sorensen, Elmar, Rumford, Me., assignor to Oxford Paper Company. Electrolytic cell. 1,613,966; Jan. 11.
- Sorensen, Eric N. (See MacPherson, J. L., and Sorensen.)
- Sorensen, Henning L., Allentown, Pa. Boat-launching device. 1,629,419; May 17.
- Sorensen, Henry, San Francisco, Calif. Fireproof building. 1,620,139; Mar. 8.
- Sorensen, Henry, San Francisco, Calif. Construction of fireproof buildings. 1,626,164; Apr. 26.
- Sorensen, Henry, San Francisco, Calif. Fireproof building. 1,641,556; Sept. 6.
- Sorensen, Jens, Harlan, Iowa. Sales-display cabinet. 1,642,466; Sept. 13.
- Sorensen, Luther, Whittier, Calif. Swab. 1,652,744; Dec. 13.
- Sorensen, Peter, Brooklyn, N. Y. Cut-out. 1,631,988; June 14.
- Sorensen, Sam, Houston, Tex. Rail anchor plate. 1,641,293; Sept. 6.
- Sorenson, Chris, Tacoma, Wash. Piston. 1,631,073; May 31.
- Soresi, Angelo L., New York, N. Y. Surgical apparatus. 1,627,714; May 10.
- Soresi, Angelo L., New York, N. Y. Tire air valve. 1,628,441; May 10.
- Sorgan, Robert, Jersey City, N. J. Seal for can covers. 1,649,328; Nov. 15.
- Sörbom, Waldemar, assignor to Kimmner & Reinhardt A.-G., Waltershausen, Thuringen, Germany. Doll's eyes with locking mechanism. 1,621,139; Mar. 15.
- Sorgius, Isaac, Indianapolis, Ind. Automobile dash lamp. 1,653,418; Dec. 20.
- Soriente, Alfonso, Brooklyn, N. Y. Cane. Des. 73,948; Nov. 22.
- Sortelle, Edna, and V. C. Porter, New York, N. Y. Telephone mouthpiece. 1,622,061; Mar. 22.
- Sortwell, Harold H., assignor to The Star Porcelain Company, Trenton, N. J. Ceramic insulating material. 1,633,462; June 21.
- Sosa, Augustus M., assignor to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. 1,637,969; Aug. 2.
- Sosdian, Lorenz, Bradley Park, N. Y. Threading machine. 1,613,284; Feb. 1.
- Sosman, Glenn S. (See Allen, C. H., and Sosman.)
- Soss, Joseph, Brooklyn, N. Y. Hinge. 1,614,262; Jan. 11.
- Soss, Joseph, Brooklyn, N. Y. Hinge. 1,614,324; Jan. 11.

- Soss, Joseph, Brooklyn, N. Y. Hinge. 1,643,592; Sept. 27.
- Soss Manufacturing Company. (See Kessler, Charles H., assignor.)
- Soto, Frank, Sunnysvale, Calif. Water heater. 1,629,844; May 24.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,611,936; Jan. 18.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,618,313; Feb. 22.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for forming glass. 1,626,702; May 3.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,626,703; May 3.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming apparatus. 1,626,704; May 3.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,626,705; May 3.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,626,706; May 3.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for transferring glass articles. 1,626,707; May 3.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,631,230; June 7.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,632,632; June 14.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for feeding molten glass. 1,633,044; June 21.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass Feeder. 1,636,875; July 26.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Method and apparatus for producing charges of molten glass. 1,642,904; Sept. 20.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Conveying molten glass to molds. 1,653,447; Dec. 20.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,653,478; Dec. 20.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,653,479; Dec. 20.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Conveying apparatus. 1,653,480; Dec. 20.
- Soucy, Zenon J., Milwaukee, Wis. Tool. 1,649,495; Nov. 15.
- Souder, William A., Shamokin, Pa. Milk-bottle closure. 1,643,322; Sept. 27.
- Soulas, Paul-Joseph, Lourdes, France. Reinforced-concrete sleeper. 1,614,405; Jan. 11.
- Soule, Arthur C., San Francisco, Calif. Sash hanger. 1,648,331; Nov. 8.
- Soule, Roe T. (See Ireland, G. B., and Soule.)
- Soule, William H. (See Ingolfurud, L. J., and Soule.)
- Souls, John B., Reno, Nev. Game. 1,628,073; May 10.
- Southard, Winfield H., Presque Isle, Me. Flue stopper. 1,620,840; Mar. 15.
- South Bend Bait Co. (See Jordan, Wesley, assignor.)
- South Bend Bait Co. (See Pagin, John B., assignor.)
- South Bend Bait Co. (See Rodgers, Claude M., assignor.)
- South Bend Watch Company. (See Zesinger, William R., assignor.)
- Southcomb, Robert P., Baltimore, Md. Corrugated-wire articles. 1,620,403; Mar. 8.
- Southern Acid & Sulphur Company. (See Paugh, Francis H., assignor.)
- Southern Can Company. (See O'Brien, Frank J., assignor.)
- Southern Can Company. (See Smith, William B., assignor.)
- Southern Electrical Equipment Co. (See Hardin, Lewis H., assignor.)
- Southern, William B., Philadelphia, Pa. Automobile seat. 1,640,968; Aug. 30.
- Southgate, James F., Chelmsford, England. Blank for bracing brackets. 1,644,899; Oct. 11.
- Southmayd, Leon N., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Cushion tire. 1,636,759; July 26.
- South Metropolitan Gas Company. (See Chandler, Dean, assignor.)
- Southwark Foundry & Machine Company. (See Dinzi, Richard W., assignor.)
- Southwark Foundry & Machine Company. (See Smith, Frank H., assignor.)
- Southway, Frederick E., Somerville, Mass. Food product and preparing the same. 1,653,882; Dec. 27.
- Southwell, Raymond J., New Rochelle, assignor to Wickwire Spencer Steel Company, New York, N. Y. Composite wire. 1,641,672; Sept. 6.
- Southwestern Engineering Corporation. (See Hall, E. A., and Sanders, assignors.)
- Southwestern Engineering Corporation. (See Millard, Raymond B., assignor.)
- Southwick, Myron J., College Hill, assignor, by mesne assignments, to Loesman Corporation, Beaver Falls, Pa. Tile-fettling machine. 1,648,066; Nov. 15.
- Southwick, William A. (See Wegman, E. C., and Southwick.)
- Souttar, Henry S., London, England. Surgical needle. 1,613,206; Jan. 4.
- Sovereign, Robert J., New York, N. Y. Combustion apparatus. 1,634,857; July 5.
- Sowell, Douglas C., Baltimore, Md. Liquid-battery filling device. 1,635,444; July 12.
- Soybel, Meyer, Brooklyn, N. Y., assignor to International Folding Paper Box Co., Inc., North Bergen, N. J. Supporting device. 1,647,154; Nov. 1.
- Sozonian Burial Vault Company, The. (See Myers, Don D., assignor.)
- Spackman, Henry S., Ardmore, Pa. Manufacturing cementitious material. 1,643,136; Sept. 20.
- Spackman, Henry S., Lehman Township, Pike County, Pa. Hydraulic cement and making the same. 1,643,137; Sept. 20.
- Spaeth, Charles, assignor to the Marvel Equipment Company, Cleveland, Ohio. Measuring and dispensing pump. 1,619,492; Mar. 1.
- Spaeth, Charles, assignor to The Marvel Equipment Company, Cleveland, Ohio. Oil-display apparatus. 1,640,225; Aug. 23.
- Spaeth, Emilie K., Alameda, Calif. Blanket. 1,653,236; Nov. 20.
- Spafford, Claude L. (See Reed, H. J., and Spafford.)
- Spafford, Lewis B., Chicago, Ill. Game. 1,620,742; Mar. 15.
- Spahn, August C., assignor to Bernardin Bottle Cap Company, Evansville, Ind. Device for applying caps to bottles. 1,640,352; Aug. 23.
- Spahn, Jacob, Hiltrope, Colo. Cultivator tool clamp. 1,629,548; May 24.
- Spahr, Howard A., Milwaukee, Wis. Electric switch. 1,626,165; Apr. 26.
- Spahr, Otto, Philadelphia, Pa. Safety razor. 1,639,441; Aug. 16.
- Spahr, Otto, Philadelphia, Pa. Electric sadiron. 1,645,667; Oct. 18.
- Spahr, Otto, Philadelphia, Pa., assignor, by mesne assignments, to Milwaukee Gas Specialty Company, Milwaukee, Wis. Flash igniter for gas burners. 1,625,964; Apr. 26.
- Spaulster, Sylvester P., Rochester, N. Y. Automatic grain feeder. 1,645,460; Oct. 11.
- Spaite, Vida. (See Roberts, Frank E., assignor.)
- Spake, Richard W., assignor to Costock-Castle Stove Company, Quincy, Ill. Heater. Des. 72,532; Apr. 26.
- Spalding, A. G., & Bros. (See Cruden, George W., assignor.)
- Spalding, A. G., & Bros. (See Fitzpatrick, K., and Mullins, assignors.)
- Spalding, A. G., & Bros. (See Mullins, Robert T., assignor.)
- Spalding, A. G., & Bros. (See Pierce, George L., assignor.)
- Spalding, A. G., & Bros. (See Pierce, G. L., and Rau, assignors.)
- Spalding, A. G., & Bros. (See Rau, Henry V., assignor.)
- Spalding, A. G., & Bros. (See Reach, M. B., and MacDonald, assignors.)
- Spalding, A. G., & Bros. (See Reach, William F., assignor.)
- Spalding, A. G., & Bros. (See Rick, George A., assignor.)
- Spalding, A. G., & Bros. (See Saunders, Addison T., assignor.)
- Spalding, A. G., & Bros. (See Schwan, Louis A., assignor.)
- Spalding, A. G., & Bros. (See Warner, Glenn S., assignor.)
- Spalding, A. G., & Bros. (See Williamson, Frank S., assignor.)
- Spalding, James E., and R. L. Archer, Collinsville, Ill. 1,630,079; May 24.
- Spalletta, Salvatore, Brooklyn, N. Y., assignor to Voices Incorporated, Newark, N. J. Vocalizer mechanism. 1,652,501; Dec. 13.
- Spang, Joseph P., Quincy, Mass. Meat tenderer. 1,614,047; Jan. 11.
- Spang, Joseph P., Quincy, Mass. Meat tenderer. 1,646,071; Oct. 18.
- Spang, Joseph P., Quincy, Mass. Meat-tendering device. 1,646,711; Oct. 25.
- Spang, Joseph P., Quincy, Mass. Meat tenderer. 1,649,991; Nov. 22.
- Spang, Joseph P., Quincy, Mass. Meat tenderer. 1,649,992; Nov. 22.
- Spangler, Archie L., assignor to Pacific Gas Radiator Company, Los Angeles, Calif. Radiant gas heater. Des. 73,543; Sept. 27.
- Spangler, Elsha, Hartford City, Ind. Ash-removing attachment for motor vehicles. 1,612,951; Jan. 4.
- Spangler, George W., Greencastle, Pa. Valve structure. 1,625,689; Apr. 19.
- Spangler, John H., Minneapolis, Minn. Clutch. 1,649,993; Nov. 22.
- Spanish River Paper Mills, The. (See Thibodeau, J. J. F., Reguire, Turner, and McDermaid, assignors.)
- Spanjers, Anton R. P. (See Spanjers, Arnold J., and A. R. P.)
- Spanjers, Arnold J. and A. R. P., Duluth, Minn. Weather strip. 1,648,787; Nov. 8.
- Spanner, Johannes J. (See Nickel, Albert P. H., and Spanner.)
- Spanninga, Stoffer A., Joure, Netherlands. Arrangement to protect running trains. 1,615,962; Feb. 1.

- Spargo, Edwin E., Brunswick, Melbourne, Victoria, Australia. Artificially graining wood. 1,653,481; Dec. 20.
- Sparks, Charles E., Portland, Oreg., assignor to A. Young, Ketchikan, Alaska. Bed for invalids. 1,643,793; Sept. 27.
- Sparkes, Harry P., Pittsburgh, assignor of one-half to B. H. Smith, Swissvale, Pa. Controlling device. 1,622,815; Mar. 29.
- Sparkes, Harry P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio recorder. 1,632,150; June 14.
- Sparkes, Robert W. B., Bolton, England. Opening, mixing, and blending cotton and other fibrous materials. 1,632,931; June 21.
- Sparklets Limited. (See Campbell, Robert H., assignor.)
- Sparks, Edith M., (See Metcalf, Edwin M., assignor.)
- Sparks, Robert E. L., Pemberton, W. Va. Grass cutter. 1,633,138; June 21.
- Sparks, Roy C., et al. (See Weaver, J. C., and Ames, assignors.)
- Sparks, Stanley W., Summit, N. J., assignor to the Columbus Machine Company, Columbus, Ohio. Gate valve. 1,648,074; Nov. 8.
- Sparks, William A., Edmonton, Alberta, Canada. Fresh-air heater. 1,635,729; July 12.
- Sparks-Wilthington Company, The. (See Scofield, Theodore J., assignor.)
- Sparks-Wilthington Company, The. (See White, George, assignor.)
- Sparlin, Geo. V., Tampa, Fla. Pneumatic horn. 1,627,467; May 3.
- Sparling, Archibald E., et al. (See Sparling, Frank K., assignor.)
- Sparling Bros. Machine Company. (See Sparling, Frank K.)
- Sparling, Frank K., et al. (See Sparling, Frank K., assignor.)
- Sparling, Frank K., assignor to F. K., A. E., W. D. Jr., and T. Sparling, a copartnership doing business under the name of Sparling Bros. Machine Company, New Bedford, Mass. Loom temple. 1,632,351; June 14.
- Sparling, Thomas, et al. (See Sparling, Frank K., assignor.)
- Sparling, William D., Jr., et al. (See Sparling, Frank K., assignor.)
- Sparrow, Arthur E., assignor of one-half to J. C. Carter, Chicago, Ill. Supporting fixture. 1,653,742; Dec. 27.
- Sparrow, Joseph C., Cleveland, Ohio. Window refrigerator. 1,637,460; Aug. 2.
- Spase, Charles H., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Clutch construction. 1,644,548; Oct. 4.
- Spatz, Karl C., Little Rock, Ark. Toy aeroplane. 1,641,607; Sept. 6.
- Spaulding, John D., and B. Bouda, assignors to The Collis Company, Clinton, Iowa. Bread rack. 1,638,173; Aug. 9.
- Spaulding, Milo H., Bozeman, Mont. Initiating apparatus. 1,623,282; Apr. 5.
- Spaulding, William R., Independence, Kans. Detachable trunk for automobiles. 1,630,142; May 24.
- Speaker, Charles, Cherrydale, Va. Wireless telegraph and telephone system. 1,624,991; Apr. 19.
- Speakman Company. (See Fraser, James, assignor.)
- Speakman, Walter F., and G. E. Crockett, Drumright, Okla. Sectional derrick leg clamp. 1,616,995; Feb. 8.
- Spear, Furman D., New York, N. Y. Lantern. Des. 73,877; Nov. 15.
- Spear, Thomas S. (See Seymour, J. H., and Spear.)
- Spears, Thomas, Bisbee, Ariz. Blasting-fuse spitter. 1,651,479; Dec. 6.
- Spense, John F., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,651,844; Dec. 6.
- Specht, Edward H., Oakland, Calif. Trunk rack. 1,651,974; Dec. 6.
- Specht, Harry M., Pelham, N. Y. Variable condenser. 1,651,975; Dec. 6.
- Specht, Norbert, Berlin-Oranienburg, Germany. Manufacture of titanic oxide. 1,649,496; Nov. 15.
- Specht, Walter E., Moline, Ill., assignor to The Loudon Machinery Company, Fairfield, Iowa. Trolley wheel. 1,617,085; Feb. 8.
- Special Stamping and Manufacturing Co. (See Silber, Walter, assignor.)
- Specialty Automatic Machine Company. (See La Bombard, L. B., and Sidebotham, assignors.)
- Spector, David S., New York, N. Y., assignor to Federal Telegraph Company, San Francisco, Calif. Radio-cabinet. Des. 71,934; Jan. 25.
- Spector, David S., New York, N. Y., assignor to Federal Telegraph Company, San Francisco, Calif. Radio-cabinet. Des. 72,290; Mar. 22.
- Spector, David S., New York, N. Y., assignor to Federal Telegraph Company, San Francisco, Calif. Radio-cabinet. Des. 73,878; Nov. 15.
- Spector, David S., New York, N. Y., assignor to Federal Telegraph Company, San Francisco, Calif. Radio-cabinet. Des. 73,879; Nov. 15.
- Spector, William. (See Heaving, Jacob F., assignor.)
- Sperdaumatic Company, The. (See Johnson, John E., assignor.)
- Speeder Machinery Corporation. (See Baker, Walter, assignor.)
- Speegel, Emanuel A., Los Angeles, Calif. Combination excavator and dredge. 1,643,094; Sept. 20.
- Spence, Alexander S., Buffalo, N. Y., assignor, by mesne assignments, to Central Trust Company of Illinois and A. K. Bodholdt, Evanston, Ill., trustees. Machine for making shingle strips. 1,623,983; Apr. 12.
- Spencer, Alexander S., Buffalo, N. Y., assignor, by mesne assignments, to Central Trust Company of Illinois and A. K. Bodholdt, Evanston, Ill. Apparatus for printing designs. 1,640,678; Aug. 30.
- Spencer, Alexander S., Buffalo, N. Y., assignor, by mesne assignments, to Central Trust Company of Illinois and A. K. Bodholdt, Evanston, Ill. Printing designs. 1,640,679; Aug. 30.
- Spencer, Alexander S., Chicago, Ill., assignor, by mesne assignments, to United States Gypsum Company. Plaster board. 1,641,643; Sept. 6.
- Spencer, Elmer E., Ballston, Va. Binding device for molds, etc. 1,622,889; Mar. 29.
- Spencer, J. Ramsey, et al. (See Carpenter, Charles U., assignor.)
- Spencer, Minnie L., Pittsburgh, Pa. Comb. 1,640,429; Aug. 30.
- Spicer, Victor. (See Litchfield, E. C., Spicer, and Hermann.)
- Speicher, George J., Miners Mill, Pa. Cover for jars and the like. 1,624,440; Apr. 12.
- Speicher, Harold S., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Adjustable feeder. 1,636,655; July 19.
- Speicher, John K., Kenil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Oxidized pine oil for pigments. 1,626,362; Apr. 26.
- Speicher, John K., Kenil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Obtaining nitrocellulose from smokeless powder. 1,653,519; Dec. 20.
- Speidel Chain Co. (See Schrayshuen, Carl, assignor.)
- Speidel Chain Co. (See Speidel, Eugen, assignor.)
- Speidel, Charles F., (See Kroedel, R., and Speidel.)
- Speidel, Charles F., assignor to Eastman Kodak Company, Rochester, N. Y. Projection-screen holding clip. 1,616,928; Feb. 8.
- Speidel, Eugen, assignor to the Firm: Fr. Speidel, Pforzheim, Germany. Elastic ornamental band. 1,647,060; Oct. 25.
- Speidel, Eugen, Pforzheim, Germany, assignor to Speidel Chain Co., Providence, R. I. Chain. 1,621,287; Mar. 15.
- Speidel, Fr. (See Speidel, Eugen, assignor.)
- Speidel, Firm Fr. (See Speidel, Friedrich, assignor.)
- Speidel, Friedrich, assignor to the Firm Fr. Speidel, Kallhardstrasse, Pforzheim, Germany. Unsoldered hook element for watch bracelets. 1,622,062; Mar. 22.
- Speigel, May, Stern Co. (See Gollnick P. A., and Toolan, assignors.)
- Speirs, Andrew J., Jenks, Okla. Reel jack. 1,629,644; Mar. 24.
- Speirs, Charles W., assignor to Morgan Crucible Company Limited, Battersea, London, England. Kiln and other heat-treatment furnace. 1,630,587; May 31.
- Speirs, George W. (See Bierman, H. C., and Speirs.)
- Speller, Frank N., Pittsburgh, Pa. Manufacture of steel. 1,636,726; Feb. 8.
- Spelling, Thomas C., New York, N. Y. Letter-printing press. 1,613,417; Jan. 4.
- Spellish, Arthur B., et al. (See Barnett, John B., assignor.)
- Spence, Fred. (See Parker, T. R. G., and Spence.)
- Spence, Joseph, Maywood, Neb. Space-adjusting means for ground-engaging implements. 1,620,697; Mar. 15.
- Spence, Leroy E. (See Hogate, J. R. and Spence.)
- Spence, Lewis J., Brooklyn, N. Y. Freight-car construction. 1,630,868; May 31.
- Spencer, Abbott K. (See Wilson, E. B., and Spencer.)
- Spencer, Alexander K., Sarnia, Ontario, Canada, assignor to The Standard Development Company, Ontario, Canada. Cracking and fractionating hydrocarbons. 1,643,967; Nov. 15.
- Spencer, Arthur B., and F. E. Walker, Huchard Torkard, assignors to G. Spencer, Lutterworth, Leicestershire, England. Driving and supporting means for sewing machines and the like. 1,644,651; Oct. 4.
- Spencer, Charles E., Chicago, and O. W. Roberts, Oak Park, assignors to Casement Hardware Co., Chicago, Ill. Casement-window operator. Des. 73,417; Sept. 6.
- Spencer, Charles E., Chicago, and O. W. Roberts, Oak Park, assignors to Casement Hardware Co., Chicago, Ill. Casement-window adjuster. 1,641,649; Sept. 6.
- Spencer, Charles H., Los Angeles, Calif. Building storage reservoirs in desert countries. 1,640,099; Aug. 23.
- Spencer, Ernest E., Grapeland, Pa. Cartridge-reloading machine. 1,642,344; Sept. 13.
- Spencer, Frank C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-distributing device. 1,641,300; Sept. 6.
- Spencer, George. (See Spencer, A. B., and Walker, assignors.)
- Spencer, George, Moulton & Company. (See Abbott, W. B., and Elzey, assignors.)
- Spencer, Guilford L., Hericks, Me., assignor to The Cuban American Sugar Co., New York, N. Y. Desugaring molasses. 1,646,323; Oct. 18.
- Spencer, H. Dorsey. (See Derby, John H., assignor.)
- Spencer, Henry K., Watertown, Mass., assignor to The Blanchard Machine Company, Cambridge, Mass. Handling articles. 1,628,618; May 10.

- Spencer, Hugh M., Newark, N. J., assignor to Fovdel Chemical Company. Alumina coagulant. 1,643,962; Oct. 4.
- Spencer, Ira H., West Hartford, Conn., internal-combustion engine. 1,649,370; Nov. 15.
- Spencer, Isaac N., Follansbee, W. Va. Stacking device in standard. 1,619,641; Mar. 3.
- Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Thermostat. 1,639,708; Aug. 23.
- Spencer, John R., Kingsford, Mich. Saw-crack punch. 1,623,816; Apr. 5.
- Spencer, John S., Pampa, Tex. Oil-well-tube scraper. 1,653,883; Dec. 27.
- Spencer Lens Company. (See Gary, Charles L., assignor.)
- Spencer Lens Company. (See Ott, Harry G., assignor.)
- Spencer Lens Co. (See Ott, Harvey N., assignor.)
- Spencer, Le Roy R., Chicago, Ill. Illuminating device. 1,644,287; Oct. 4.
- Spencer, Lewis P., and W. H. Wilson, New Bedford, Mass. Shuttle. 1,636,841; July 26.
- Spencer, Millard C., East Orange, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Maintaining motors in definite speed relation. 1,624,880; Apr. 12.
- Spencer, Millard C., East Orange, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. High-frequency alternating-current amplifier. 1,646,364; Oct. 18.
- Spencer, Norman S. (See Mason, William P., assignor.)
- Spencer, Philip L., Millbury, Mass., assignor to J. H. Williams Company, Utica, N. Y. Harness for looms. 1,624,515; Apr. 12.
- Spencer, Philip L., Millbury, Mass., assignor to J. H. Williams Company, Utica, N. Y. Shuttle. 1,624,516; Apr. 12.
- Spencer, Robert L., Harrisburg, Ark. Railway-track construction. 1,625,238; Apr. 19.
- Spencer, Robert M., Waycross, Ga. Fire box for boilers. 1,622,356; Mar. 29.
- Spencer Thermostat Company. (See Marshall, Laurence)
- Spencer Thermostat Company. (See Spencer, John A., assignor.)
- Spencer, William H., Bogota, N. J., assignor to I. P. Frink Inc., New York, N. Y. Making ornamental panels, signs, and the like. 1,614,263; Jan. 11.
- Spencer, William H., Bogota, N. J., assignor to I. P. Frink Inc., New York, N. Y. Lighting fixture. 1,622,548; Mar. 29.
- Spencer, William H., Bogota, N. J., assignor to I. P. Frink Inc., New York, N. Y. Lamp fixture. 1,644,452; Oct. 4.
- Spencer, William H., Bogota, N. J., assignor to I. P. Frink Inc., New York, N. Y. Lighting equipment. 1,651,040; Dec. 6.
- Spengler, Arthur F. (See Moran, R. B., and Spengler.)
- Spengler Core Drilling Company. (See Davies, Richard D., assignor.)
- Spengler Core Drilling Company. (See Moran, R. B., and Spengler, assignors.)
- Spengler, George H., assignor to F. S. V. Bogart, Rockford, Ill. Boring tool. 1,626,887; May 3.
- Spengler, Henry, New York, N. Y. Snap fastener. 1,625,104; Apr. 19.
- Spengler, Hugo P., Chicago, Ill. Automatic stop for phonographs. 1,613,914; Jan. 11.
- Spengler, Oscar, Dessau, Anhalt, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Flux applied in soldering aluminum and its alloys. 1,653,482; Dec. 20.
- Spengler, Oscar, P. Virck, and R. Weidenhagen, Dessau, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Dyeing or printing acetate silk. 1,615,242; Jan. 25.
- Spensley, Jacob W., Manchester, England. Treatment of oils and fats for the neutralization and removal of fatty acid content. 1,643,867; Nov. 8.
- Spreckels, John, et al. (See Allen, Charles S., assignor.)
- Sperling, G. (See Schneider, Alexander M., assignor.)
- Spero, Ben E. and L. Cleveland, Ohio. Electric switch. 1,621,561; Mar. 22.
- Spero, Leon. (See Spero, Ben E. and L.)
- Sperre, Frederick W., Jr., and D. L. Jacobson, Pittsburgh, Pa., assignors to The Koppers Company, Manufacture of sodium thiosulphate. 1,639,905; Aug. 23.
- Sperre, Fredrick W., Jr., and D. L. Jacobson, assignors to The Koppers Company, Pittsburgh, Pa. Gas-purification process. 1,653,953; Dec. 27.
- Sperry, Arthur B. (See Jacobsen, E., and Sperry.)
- Sperry, Asahel D., Rock Island, Ill. Stove. 1,644,900; Oct. 11.
- Sperry Development Company. (See Sperry, Elmer A., assignor.)
- Sperry, Elmer A., Brooklyn, N. Y. Gravity bomb. 1,626,363; Apr. 26.
- Sperry, Elmer A., Brooklyn, N. Y. Searchlight cooling and ventilating means. 1,641,301; Sept. 6.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Repeater compass. 1,617,310; Feb. 8.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyrocompass relay transmitter. 1,626,123; Apr. 26.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Valve mechanism for combustion engines. 1,627,210; May 3.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Indicating loss of synchronism in transmission systems. 1,629,236; May 17.
- Sperry, Elmer A., Jr., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Telemotor system. 1,633,463; June 21.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Ship's signaling or broadcasting device. 1,638,417; Aug. 9.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Piston for internal-combustion engines. 1,639,062; Aug. 16.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic pendulum. 1,661,845; Dec. 6.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Cooling the pistons of heat engines. 1,648,968; Nov. 15.
- Sperry, Frank E., Batavia, Ill. Rotary pump. 1,622,816; Mar. 24.
- Sperry Gyroscope Company, The. (See Bassett, Preston B., assignor.)
- Sperry Gyroscope Company, The. (See Hall, Theodore, assignor.)
- Sperry Gyroscope Company, The. (See Mills, Chester B., assignor.)
- Sperry Gyroscope Company, The. (See Patterson, Martin)
- Sperry Gyroscope Company, The. (See Schein, Alexander E., assignor.)
- Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)
- Sperry Gyroscope Company, The. (See Sperry, Elmer A., Jr., assignor.)
- Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
- Sperry, Herbert B., Chicago, Ill., assignor to Appleton Manufacturing Company. Blower pipe for wind stackers. 1,630,558; May 31.
- Sperry, Herbert B., Chicago, Ill., assignor to Appleton Manufacturing Company. Tongue-supporting truck. 1,635,803; July 12.
- Sperry, Herbert B., and G. W. Witte, assignors to International Harvester Company, Chicago, Ill. Bundle carrier. 1,629,161; May 17.
- Sperry, Lawrence B., deceased, Massapequa, The Bank of America, New York, and W. A. Sperry, Hempstead, N. Y., executors, assignors to W. A. Sperry. Flying boat. 1,629,978; May 24.
- Sperry, Lawrence B., deceased, Farmingdale, N. Y.: The Bank of America, New York, and W. A. Sperry, Hempstead, N. Y., executors, assignors to W. A. Sperry. Aircraft. 1,641,700; Sept. 6.
- Sperry, Samuel E., Woodhaven, N. Y. Metal-pot-mouth-piece wiper. 1,654,488; Dec. 27.
- Sperry, Winifred A. (See Sperry, Lawrence B., assignor.)
- Sperry, Winifred A., et al., executors. (See Sperry, Lawrence B.)
- Sperlt, George, Covington, assignor of one-fourth to A. F. Blacksmith, Dayton, Ky. Electric meter. 1,619,002; Mar. 1.
- Speyer, Hanswerner. (See Duttlinger, E., and Speyer.)
- Spezial-Werkzen-Fabrik Feuerbach G. m. b. H. (See Distler, Hans, assignor.)
- Spicer, Charles R., Hastings, Nebr. Splint. 1,635,230; July 12.
- Spicer, Charles W., Baltimore, Md. Drip catcher. 1,617,968; Feb. 15.
- Spicer, Clarence W., Plainfield, N. J., assignor to Spicer Manufacturing Corporation. Welding hollow shafts. 1,636,287; Mar. 17.
- Spicer Manufacturing Corporation. (See Macdonald, Angus S., assignor.)
- Spicer Manufacturing Corporation. (See Peters, Frederick W., assignor.)
- Spicer Manufacturing Corporation. (See Spicer, Clarence W., assignor.)
- Spick, Fred, Jefferson, Iowa. Button anchor. 1,644,206; Oct. 4.
- Spieckermann, Karl, Dortmund, Germany. Iron contact rail with copper insert. 1,620,496; Mar. 8.
- Spiegel, May, Stern Co. (See Gollnick, Paul A., assignor.)
- Spiegel, May, Stern Company. (See Gollnick, P. A., and Tocolan, assignors.)
- Spiegel, May, Stern Company. (See Kuml, Charles F., assignor.)
- Spleiman, Milton H., assignor to The Domestic Electric Company, Cleveland, Ohio. Vacuum cleaner. 1,613,250; Jan. 4.
- Spiors, William, Limited. (See Hull, Joseph, assignor.)
- Spies, Fred O., Adams, N. Y. Cutter board. 1,616,600; Feb. 8.
- Spless, Georg, Leipzig-Plagwitz, Germany. Sheet-feed mechanism for folding machines, printing machines, and the like. 1,614,083; Jan. 11.
- Spless, Paul. (See Zoelly, A., and Spless.)
- Spiller, J., Arthur J., Toledo, Ohio. Sick-room outfit. 1,648,086; Nov. 15.
- Spillman, Edward O., North Tonawanda, assignor to Fischer Motor Company, New York, N. Y. Internal-combustion engine. 1,624,992; Apr. 19.

- Spillner, Karl, Hamburg, Germany. Guard and safety device for motor-driven vehicles. 1,649,930; Nov. 22.
- Spilman, Oliver P., Houston, Tex. Massaging machine. 1,616,831; Feb. 8.
- Spilsbury, Benah G., assignor to The Munsingwear Corporation, Minneapolis, Minn. Nightgown. 1,623,072; Apr. 5.
- Spinasse, Arthur E., Mount Vernon, Ohio. Glass-drawing apparatus. 1,643,184; Sept. 20.
- Spindler, Heinrich, Robinson, near Stuttgart, Germany. Washing and cleaning fabrics and the like. 1,615,146; Jan. 18.
- Spink, Alfred, Whitehaven, and D. Crabtree, Bradford, England. Loom for weaving pile fabrics. 1,624,993; Apr. 19.
- Spink, Leland K. (See Brown, W. C., and Spink.)
- Spinka, Edward J. (See Whiteley, John T., assignor.)
- Spinks, William A., & Company. (See Hoskin, Edmund F., assignor.)
- Spinner, Philip V., Chicago, Ill. Receptacle for smoking materials. 1,646,632; Oct. 25.
- Spinney, Andrew G. (See Taber, E. A., and Spinney.)
- Spiral Piston Ring Company. (See Graves, Harry S., assignor.)
- Spiral Radiator Company. (See Olson, John O., assignor.)
- Spiral-Roll Products Co., The. (See Williams, Frank H., assignor.)
- Spiro, Charles, New York, N. Y. Parking device. 1,634,803; July 5.
- Spiro, Charles, New York, N. Y. Silent type-bar action. 1,653,316; Dec. 20.
- Spiro, Harry, Chicago, Ill. Dental casting flask. 1,639,416; Aug. 16.
- Spiro, Max, Sea Gate, N. Y. Watchcase. 1,638,600; Aug. 9.
- Spiro, Walter J., White Plains, N. Y. Automatic throttle control. 1,646,937; Oct. 25.
- Spitz, Frances. (See Quillen, W. E., assignor.)
- Spitzenberg, Georg K., Zackerick, Germany. Grubber or cultivator. 1,640,811; Aug. 30.
- Spivak, George, San Francisco, Calif. Glove and manufacturing same. 1,641,701; Sept. 6.
- Spivak, Samuel C., Mundridge, Ala. Electric starting system for automobiles. 1,618,683; Feb. 22.
- Splain, Walter E., and H. L. Stackhouse, Cincinnati, Ohio, assignors, by mesne assignments, to United States Pump Corporation. Gasoline dispensing device. 1,636,652; July 19.
- Spletter, Ervin E., Montevideo, Minn. Oil burner. 1,635,445; July 12.
- Spletter, Ervin E., Montevideo, Minn. Water heater. 1,646,429; Oct. 25.
- Splitdorf-Bethlehem Electrical Company. (See Thompson, Olof, assignor.)
- Splitdorf-Bethlehem Electrical Company. (See Tower, Charles H., assignor.)
- Splitdorf Electrical Company of Wisconsin. (See Daun, C. L., and Keller, assignors.)
- Splitdorf Electrical Company. (See Nowosielski, Edward B., assignor.)
- Spoerri, Eugene D., Omaha, Nebr. Measuring and reeling device. 1,624,633; Apr. 12.
- Sponable, George W., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. External bearing-adjusting mechanism. 1,631,537; June 7.
- Sponcet, Eugene C., A. Paris, France. Hair-waving device. 1,618,487; Feb. 22.
- Sponsel, Charles W., Wethersfield, Conn. Paper clip. 1,622,682; Mar. 29.
- Sport, S. A. Blenne. (See Bovard, Fritz, assignor.)
- Spotswood, John B., Montclair, N. J., and H. M. Gulick, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Container for explosives. 1,625,631; Apr. 19.
- Spott, William A., Richmond, Va. Adjustable yoke for ceiling bands. 1,617,184; Feb. 8.
- Spowers, William H., Essex Falls, N. J. Textile fabric. 1,614,126; Dec. 20.
- Spraco Painting Equipment Company. (See Preble, J. J., and Thompson, assignors.)
- Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Crusher. 1,628,619; May 10.
- Sprague, Alonzo B., Brooklyn, N. Y., assignor of two-thirds to Relief Society for the Aged. Bed and spring therefor. 1,620,404; Mar. 8.
- Sprague, Clarence A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency sound-transmission system. 1,616,639; Feb. 8.
- Sprague, Earl D. (See Shipman, Robert L., assignor.)
- Sprague, Earl D. (See Shipman, R. L., and Sprague.)
- Sprague, Earl V., assignor of one-third to E. C. Wilson and one-third to H. J. Wilson, Davenport, Iowa. Self-closing stopcock. 1,631,106; June 7.
- Sprague, Edward, J., assignor of forty-nine one-hundredths to B. K. Dustin, Chicago, Ill. Method and apparatus for making confections. 1,645,260; Oct. 11.
- Sprague, Frank D., Brooklyn, N. Y. Automatic brake-control apparatus. 1,626,586; Apr. 26.
- Sprague, Frank N., Holyoke, Colo. Automatically-reversing razor-blade stropper. 1,651,781; Dec. 6.
- Sprague, Frederick H., Fitchburg, Mass. Adjustable cuff for garments. 1,616,640; Feb. 8.
- Sprague-Hathaway Company. (See Thonet, Joseph R., assignor.)
- Sprague, Linus K. (See Thompson, A. G., and Sprague.)
- Sprague, Robert C., Quincy, Mass. Condenser. 1,616,832; Feb. 8.
- Sprague-Sells Corporation. (See de Beck, William, assignor.)
- Sprague-Sells Corporation. (See Northrup, Elmer C., assignor.)
- Spratlen, Roy E., Topeka, Kans. Railroad-crossing gate. 1,648,072; Nov. 8.
- Spray Engineering Company. (See Preble, James J., assignor.)
- Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Thermosensitive relay. 1,631,836; June 7.
- Sprecher, Peter W., Milwaukee, Wis. Electric-actuator attachment. 1,649,497; Nov. 15.
- Spreckels, Claus, et al. (See Eckles, Noble, assignor.)
- Spreen, Charles C., Detroit, Mich. Refrigeration. 1,647,116; Oct. 25.
- Spreen, Charles C., assignor, by mesne assignments, to Electric Refrigeration Corporation, Detroit, Mich. Mechanical refrigeration. 1,619,548; Mar. 1.
- Spreen, Charles C., assignor to Electric Refrigeration Corporation, Detroit, Mich. Pulley. 1,634,438; July 5.
- Spreen, Charles C., assignor to Electric Refrigeration Corporation, Detroit, Mich. Mechanical refrigeration. 1,652,237; Dec. 20.
- Spreen, Charles C., assignor to Electric Refrigeration Corporation, Detroit, Mich. Refrigeration. 1,653,238; Dec. 20.
- Spreen, Charles C., assignor to Electric Refrigeration Corporation, Detroit, Mich. Mechanical refrigeration. 1,653,239; Dec. 20.
- Sprenger, Dr. Otto, Patentverwertung Jirotko mit beschränkter Haftung. (See Jirotko, Bobumil, assignor.)
- Sprenger, Emile, Goldach, Switzerland. Method and apparatus for mixing, grading, and sorting granular and pulverulent material. 1,636,081; July 19.
- Sprenger, George W., Lynn, Mass., assignor to General Electric Company. Telemetric system. 1,620,405; Mar. 8.
- Sprenger, James A., North Tonawanda, assignor, by mesne assignments, to Rand Kardex Bureau, Inc., Tonawanda, N. Y. Index device. 1,614,021; Jan. 11.
- Sprenger, Richard, Hennigsdorf, Germany, assignor to General Electric Company. Nonmetallic toothed element. 1,643,185; Sept. 20.
- Sprenger, Richard, and H. Conradt, Hennigsdorf, Germany, assignors to General Electric Company. Suction device for mica-coating machines. 1,631,652; June 7.
- Spreyer, George S., Fallon, Nev. Tailboard scraper. 1,633,464; June 21.
- Sprick, Herbert, Leipzig, Germany. Nut-tapping machine. 1,624,902; Apr. 12.
- Sprigg, Daniel W. (See Fain, F. E., and Sprigg.)
- Sprigg, Daniel E., and R. E., Wheeling, W. Va., assignors of two-thirds to H. D. Scott, Wheeling, W. Va. Scraper for rolled plates. 1,626,435; Apr. 26.
- Spring, Edward A., Phoenix, Ariz. Mold chill. 1,649,199; Nov. 15.
- Spring, Edward A., Phoenix, Ariz. Mold chill. 1,650,240; Nov. 22.
- Spring, Samuel T., Pepperell, Mass. Match receptacle. 1,616,222; Aug. 9.
- Spring, Marcus E. (See Spring, Daniel T. and S. E.)
- Springer, Edward R., Princeton, Ill. Gear shift. 1,615,777; Jan. 25.
- Springer, Franklin W., Minneapolis, Minn. Electrical regulating system. 1,645,724; Oct. 18.
- Springer, John E., and R. A. Harry, Baltimore, Md. Electric switch. 1,634,120; Apr. 12.
- Springfield, Garland P., Evansville, Ind., assignor of one-half to R. C. Smith, Vandenberg County, Ind. Railway-crossing safety device. 1,631,387; June 7.
- Springfield Metallic Casket Company, The. (See Allen, Francis K., assignor.)
- Springfield Metallic Casket Company, The. (See Hiser, Charles H., assignor.)
- Springfield Mfg. Co., The. (See Brandes, P. H., and Adams, assignors.)
- Springfield, William E., Martins Ferry, Ohio, and B. W. Frazier, assignors of one-third to J. W. Schultze, Wheeling, W. Va. Tire-rim expanding and collapsing device. 1,622,649; Mar. 29.
- Springhorn, Charles, New York, N. Y. Musical instrument. 1,622,009; Mar. 22.
- Springthorpe, Isaac, Philadelphia, assignor, by mesne assignments, to Springthorpe Textile Machine Company, Philadelphia, Pa. Warp-knitting machine. 1,623,603; Apr. 5.
- Springthorpe Textile Machine Company. (See Springthorpe, Isaac, assignor.)
- Sproesser, William C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Incandescent electric lamp. 1,624,077; Apr. 12.
- Sproesser, William C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Getter for controlling crystal growth. 1,626,637; May 3.
- Sproesser, William C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Introduction of clean-up agents into evacuated vessels. 1,626,638; May 3.

- Sproesser, William C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Application of getters to electric incandescent lamps and the like. 1,626,639; May 8.
- Sproesser, William C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Evacuation of bulbs and the like. 1,626,640; May 8.
- Sproesser, William C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Viscosity gauge. 1,651,416; Dec. 6.
- Sprague, Severn D., Brooklyn, N. Y., assignor to General Electric Company. Cooling transformers. 1,641,702; Sept. 6.
- Spraul, E. W., Company. (See Sproul, W. R., and Layer, assignors.)
- Spraul, Wilford R., Chicago, and H. Layer, Winnetka, assignors to E. W. Sproul Company, Chicago, Ill. Form for concrete wall construction. 1,628,752; May 17.
- Sprout, Waldron & Co. (See Snyder, Simon, assignor.)
- Sprout, Willis F., Lebanon, Kans. Proportional dividers. 1,626,980; May 8.
- Sprout, Henry E. (See Rail, J., and Sprout.)
- Sprung, Edwin G., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,629,746; May 24.
- Spurgeon, Glenn, Hillisburg, Ind. Storage-battery terminal connection. 1,635,351; July 12.
- Spriggs, Charles, De Kalb, Ill. Automobile body. Des. 73,212; Aug. 2.
- Spurr, Foster M., Mattapan, Mass. Automatic valve for use in fish stalls and like places. 1,632,516; June 14.
- Spurr, William B., Scottsbluff, Nebr. Seed buller. 1,651,641; Dec. 6.
- Spurr, Harry. (See Berge, Godskalk, assignor.)
- Spurrer, Harry, Wichita, Kans. Duplicating device. 1,617,278; Feb. 8.
- Square D Company. (See Horton, Bryson D., assignor.)
- Squibb, E. R., & Sons. (See Boyd, R., Nitardy, and Lewis, assignors.)
- Squibb, E. R., & Sons. (See Nitardy, Ferdinand W., assignor.)
- Squibb, E. R., & Sons. (See Nitardy, F. W., Bartlett, and Berg, assignors.)
- Squibb, Lloyd Y., Camden, N. J., assignor to Victor Talking Machine Company. Stop mechanism for talking machines. 1,615,243; Jan. 25.
- Squier, Geo. L., Mfg. Co., The. (See Faber, Otto, assignor.)
- Squier, George O., Washington, D. C., J. O. Mauborgne, Chicago, Ill., and L. Cohen, Washington, D. C. Electrical signaling. 1,641,608; Sept. 6.
- Squier, George O., Washington, D. C. Vanity case. 1,644,404; Oct. 4.
- Squyer, Albert R. (See Weaver, G. E., and Squyer.)
- Srofe, Jesse, Cincinnati, Ohio. Toy block. 1,642,901; Sept. 20.
- Stote, William E., Tucumcari, N. Mex. Transmission. 1,650,545; Nov. 22.
- Stants, Gilson C., Folsom, assignor to Comet Radiator Company, Philadelphia, Pa. Radiator. 1,617,464; Feb. 15.
- Staats, Henry N., Chillicothe, Ohio. Cigarette holder. 1,648,073; Nov. 8.
- Stach-Oels, Rudolph C. G., Brooklyn, N. Y. Safety razor. 1,633,139; June 21.
- Stable, Louis, Brooklyn, N. Y. Lock for steering wheels. 1,630,979; May 31.
- Stabler, Julia, New Brunswick, N. J. Rug. Des. 72,533; Apr. 26.
- Stack, William A., Chicago, Ill., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric fitting. 1,639,541; Aug. 16.
- Stack, George E., Ballston Spa, N. Y., assignor to General Electric Company. Time element control and apparatus therefor. 1,638,372; Aug. 9.
- Stack, John W., Springfield, Mass. Ventilator for locomotive cabs. 1,647,671; Nov. 1.
- Stack, Maurice J., Cohoes, N. Y. Instrument for inserting continuous bats into upholstery plaits. 1,628,927; May 17.
- Stackhouse & Allen. (See Stackhouse, J. H., and Allen, assignors.)
- Stackhouse, George A., Oakland, assignor of one-half to C. W. Peck, San Leandro, Calif. Oven-door spring control. 1,616,471; Feb. 8.
- Stackhouse, Howard L. (See Schwenzler, G. A., and Stackhouse.)
- Stackhouse, Howard L. (See Splain, W. E., and Stackhouse.)
- Stackhouse, George A., Hayward, assignor to Pacific Spring Company, Oakland, Calif. Bed-spring-supporting bracket. 1,647,672; Nov. 1.
- Stackhouse, John H., Wilmette, and J. R. Allen, assignors to Stackhouse & Allen, Chicago, Ill. Electrical screw plug. 1,651,560; Dec. 6.
- Stackhouse, W. H., et al. (See Einfeldt, Ernest E., assignor.)
- Stacy, Eugene C., Tiffin, Ohio. Swivel link. 1,624,441; Apr. 12.
- Stacy, Grover C., Dallas, Tex. Telescoping suction pipe. 1,625,576; Apr. 19.
- Stacy, Ray H., East Orange, N. J., assignor to Brandes Laboratories Inc., Newark, N. J. Machine for testing electromagnetic sound reproducers. 1,648,428; Nov. 8.
- Stader, Otto, and J. B. Olson, assignors to James Manufacturing Company, Fort Atkinson, Wis. Operating stall for animals. 1,621,760; Mar. 22.
- Stadniecek, John, Elizabeth, N. J. Bow for stringed musical instruments. 1,646,118; Oct. 18.
- Staeger, Stephen A. (See Alexander, J. E., and Staeger.)
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Drying machine. 1,624,371; Apr. 12.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Paper-making device. 1,633,960; June 28.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. 1,638,890; Aug. 16.
- Staehe, Gustav, Stuttgart, Germany, assignor to Cyklop Akt. Ges. Schaffhausen, Switzerland. Tool for use in leveling, planing and/or smoothing wood and other like surfaces. 1,652,915; Dec. 13.
- Staf, Axel H., assignor to Gorham Mfg. Company, Providence, R. I. Spoon or similar article. Des. 73,149; July 26.
- Staf, Axel H., assignor to Gorham Mfg. Co., Providence, R. I. Spoon or similar article. Des. 74,050; Dec. 6.
- Stafford Company, The. (See Jackson, Simon S., assignor.)
- Stafford, Earl C., Philadelphia, Pa. System of control for marine engines. 1,643,424; Sept. 27.
- Stafford, Earl C., Philadelphia, Pa., assignor to The United States Train Signal Company, Portland, Me. Train-signal system. 1,614,406; Jan. 11.
- Stafford, Earl C., Philadelphia, Pa., assignor to The United States Train Signal Company, Portland, Me. Automatic train-control system. 1,628,634; May 10.
- Stafford, Floyd H., Eastland, Tex. Fishing tool. 1,645,461; Oct. 11.
- Stafford, Henry L., Long Beach, Calif. Machine to decapitate and clean fish. 1,932,200; June 14.
- Stafford, James G. (See Phillips, E. B., and Stafford.)
- Stafford, John C., Cleveland, Ohio. Lathe-tool holder. 1,649,553; Nov. 15.
- Stafford, Rogers T. (See Ballou, F. A., and Stafford.)
- Stafford, William F., Hornersville, Mo. Composition for removing scales from steam boilers. 1,638,373; Aug. 9.
- Stage, Clarence I., Rockford, Ill. Hand stamp. 1,641,507; Sept. 6.
- Stahel, Hermann. (See Gubler, H., Stahel, and Straub.)
- Stahl, August H., Grafton, Nebr. Horse-collar cushion. 1,623,210; Apr. 5.
- Stahl, Edward C. M., Yonkers, N. Y., assignor to Pittsburgh Transformer Company. Polyphase transformer. 1,614,161; Jan. 11.
- Stahl, Edward J., assignor to The Baker-Rauling Company, Cleveland, Ohio. Vehicle. 1,622,240; Mar. 22.
- Stahl, Frederick W., Philadelphia, Pa. One-way pull latch. 1,651,229; June 7.
- Stahl, Karl, and K. Siller, assignors to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gas valve for airships. 1,635,195; July 12.
- Stahl, Kate M., Los Angeles, Calif. Hair curler. 1,648,035; Sept. 20.
- Stahls, L. D., and East Melbourne, R. G. Wilson, Parkville, W. R. Terry, and D. M. Hull, Melbourne, Victoria, Australia. Holding and printing mechanism for wrapping paper and other rolls. 1,617,086; Feb. 8.
- Stablecker, Wilhelm, Stuttgart, Germany. Spinning machine. 1,643,655; Sept. 27.
- Stalhurth, Arthur H. (See Parker, G. E., and Stalhurth.)
- Stainbrook, Charles M., Bowling Green, Ky. Vehicle sunshade. 1,631,074; May 31.
- Stainbrook, William H., Winfield, Kans. Wire-rope swivel socket. 1,614,407; Jan. 11.
- Stair, William D., Mount Union, Pa. Seat pad for sportsmen's coats. 1,626,166; Apr. 26.
- Sta-Kleen Burner Company. (See Tate, Harry F., assignor.)
- Staley, Allen C., La Fayette, Ind. Control system for liquid fuel burners. 1,633,502; June 21.
- Staley, Earl B., Seattle, Wash. Tank. 1,640,471; Aug. 30.
- Staley, Harrison L., Martinsville, Ind. Tube-cleaner valve. 1,630,677; Mar. 31.
- Staley, Joseph H., Columbus, Ind., assignor to National Standard Company, Niles, Mich. Wrecking crane. 1,629,592; May 24.
- Staley, Raleigh H., assignor to The Baker Manufacturing Company, Springfield, Ill. Frame construction. 1,653,419; Dec. 20.
- Stalker, Frederick W. (See Foote, E. B., and Stalker.)
- Stallman, Otto. (See Gubelmann, I., Weiland, and Stallman.)
- Stambaugh, Henry J. (See Adamson, K. F., and Stambaugh.)
- Stamford Rubber Supply Company. (See Gillespie, William F., assignor.)
- Stammscheib Manufacturing Co. (See Johnston, James H., assignor.)
- Stamos, Alexander N. (See Stamos, Harry N. and A. N., and Brown.)
- Stamos, Harry N. and A. N., and T. W. Brown, Centerville, Iowa. Rail anchor. 1,622,613; Mar. 29.

Stamos, Harry N. and A. N., and T. W. Brown, Center-ville, Iowa. End-post protector. 1,622,614; Mar. 29.

Stamp, Burnie A., assignor, by mesne assignments, to Stamp Rightway Conveyor Company, Brooklyn, N. Y. Poultry crate. 1,624,517; Apr. 12.

Stamp Rightway Conveyor Company. (See Stamp, Burnie A., assignor.)

Stampley, Henry E., Sibley, La. Glareshield. 1,626,981; May 3.

Stanbrough, William M., Newburgh, N. Y. Metallic layer for upper dentures. 1,622,633; Mar. 29.

Stanclun, Stephen, St. Paul, Minn. Armlet for infants. 1,638,601; Aug. 9.

Standcliff, Clifton L., Bakersfield, Calif. Torch mechanism for welding machines. 1,623,503; Apr. 5.

Standard Arch Company. (See Benson, Davison A., assignor.)

Standard Automatic Machine Company. (See Pennock, T. E., and Gregg, assignors.)

Standard Automatic Machine Company. (See Pennock, Theodore E., assignor.)

Standard Cap & Seal Corporation. (See Tevander, Olof N., assignor.)

Standard Car Truck Company. (See Barber, Franklin L., assignor.)

Standard Chain Company. (See Kittelson, Halmer C., assignor.)

Standard Compositor Aktiengesellschaft. (See Buswell, Walter, assignor.)

Standard Compositor Aktiengesellschaft. (See Petri-Palmedo, David, assignor.)

Standard Compositor Aktiengesellschaft. (See Stern, Otto, assignor.)

Standard Computing Scale Company, The. (See Jaenichen, Louis, assignor.)

Standard Conveyor Company. (See Beulke, G. W., and Wego, assignors.)

Standard Conveyor Company. (See Taylor, William J., assignor.)

Standard-Coosa-Thatcher Company. (See Clark, Robert F., assignor.)

Standard Corset Company, The. (See Von Halle, Millard, assignor.)

Standard Coupler Co. (See Goodwin, Ernest G., assignor.)

Standard Development Company. (See Allan, David M., assignor.)

Standard Development Company. (See Becker, Arman E., assignor.)

Standard Development Company. (See Buc, Hyum E., assignor.)

Standard Development Company. (See Burgess, Louis, assignor.)

Standard Development Company. (See Carringer, James R., assignor.)

Standard Development Company. (See Clark, Edgar M., assignor.)

Standard Development Company. (See Clark, E. M., Loomis, and Howard, assignors.)

Standard Development Company. (See Cobb, Ernest B., assignor.)

Standard Development Company. (See Howard, Frank A., assignor.)

Standard Development Company. (See Howard, F. A., Clark, and Carringer, assignors.)

Standard Development Company. (See Howard, F. A., and Loomis, assignors.)

Standard Development Company. (See Howard, F. A., and Wright, assignors.)

Standard Development Company. (See Hudson, Claude S., assignor.)

Standard Development Company. (See Johnson, Herbert L., assignor.)

Standard Development Company. (See Kraus, C. A., and Callis, assignors.)

Standard Development Company. (See Lewis, Warren K., assignor.)

Standard Development Company. (See Loomis, N. E., and Lewis, assignors.)

Standard Development Company. (See Messenger, Otis G., assignor.)

Standard Development Company. (See Parsons, L. W., and Coleman, assignors.)

Standard Development Company. (See Ranney, Leo, assignor.)

Standard Development Company. (See Saybolt, John W., assignor.)

Standard Development Company. (See Spencer, Alexander C., assignor.)

Standard Development Co. (See Zaikowsky, Vladimir M., assignor.)

Standard Electric Products, Inc. (See Weiscopef, Marcus W., assignor.)

Standard Electric Stove Company, The. (See Pierson, Charles A., assignor.)

Standard Fire Equipment Corporation. (See Johnston, Charles G., assignor.)

Standard Four Tire Co. (See Bierman, Edwin W., assignor.)

Standard Gage Co. (See Aldeborgh, Erik H., assignor.)

Standard Gage Company. (See Ritchey, P. D., and Holt, assignors.)

Standard Gas Equipment Corporation. (See O'Dowd, Henry W., assignor.)

Standard Gas Equipment Corporation. (See Pittman, W., assignor.)

Standard Machine Company. (See Bergsten, John, assignor.)

Standard Mailing Machines Company. (See Storck, Frederick W., assignor.)

Standard Manufacturing Company. (See Elmstrom, Robert M., assignor.)

Standard Manufacturing Company, The. (See Young, James V., assignor.)

Standard Metal Spinning Co. (See Horowitz, Leon J., assignor.)

Standard Mirror Company. (See La Hodny, William, assignor.)

Standard Mirror Company. (See La Hodny, W., and Kibitz, assignors.)

Standard Motor Construction Company. (See Smith, Benjamin C., assignor.)

Standard Neckwear Company. (See Weinstein, Otto, assignor.)

Standard Oil Company. (See Atwell, Harold V., assignor.)

Standard Oil Company. (See Bartels, Edward E., assignor.)

Standard Oil Company. (See Brinker, Jesse E., assignor.)

Standard Oil Company. (See Engbrecht, Herman J., assignor.)

Standard Oil Company. (See Humphreys, Robert E., assignor.)

Standard Oil Company. (See Lockhart, Luther B., assignor.)

Standard Oil Company. (See Nicholson, Stanley, assignor.)

Standard Oil Company. (See Paulus, Max G., assignor.)

Standard Oil Company. (See Paulus, M. G., and Brewster, assignors.)

Standard Oil Company. (See Rogers, F. M., and Bransky, assignors.)

Standard Oil Company. (See Rogers, F. M., and Wilson, assignors.)

Standard Oil Company. (See Rogers, F. M., Grimm, and Wendt, assignors.)

Standard Oil Company. (See Thompson, Walter N., assignor.)

Standard Oil Company. (See Wilkin, Robert E., assignor.)

Standard Oil Company. (See Wilson, Robert E., assignor.)

Standard Oil Company. (See Wilson, R. E., and Atwell, assignors.)

Standard Oil Company. (See Wilson, R. E., and Bahlke, assignors.)

Standard Oil Company of California. (See Anfenger, Maximilian B., assignor.)

Standard Oil Company of California. (See Bessonett, Leland S., assignor.)

Standard Oil Company of California. (See Bly, Edwin P., assignor.)

Standard Oil Company of California. (See Christopher, Harold S., assignor.)

Standard Oil Company of California. (See Cicely, Lee W., assignor.)

Standard Oil Company of California. (See Evans, John M., assignor.)

Standard Oil Company of California. (See Hanna, Richard W. and R. J., assignors.)

Standard Oil Company of California. (See Kuhl, John, assignor.)

Standard Oil Company of California. (See Mason, William D., assignor.)

Standard Oil Company of California. (See Thompson, Walter N., assignor.)

Standard Oil Company of California. (See Williams, F. S., assignor.)

Standard Oil Company of California. (See Wilson, George O., assignor.)

Standard Oil Company of New York. (See Rather, J. B., and Shepard, assignors.)

Standard Oil Development Company. (See Brown, Henry M., assignor.)

Standard Oil Development Company. (See Burgess, Louis, assignor.)

Standard Oil Friction Burner Company. (See Hoag, Charles I., assignor.)

Standard Optical Company, The. (See Van Tassel, John R., assignor.)

Standard Plate Glass Company. (See Stilwell, R. O., and Christie, assignors.)

Standard Pneumatic Action Company. (See Fiala, Joseph B., assignor.)

Standard Pyroxoloid Corporation. (See Watson, Philip H., assignor.)

Standard Radio Corporation. (See Cohen, M., and Stenman, assignors.)

Standard Railway Fusee Corporation. (See Dutcher, Frank, assignor.)

Standard Safety Appliance Company. (See Benson, Henry R., assignor.)

Standard Screw Company. (See Ehrman, E. H., and Corlett, assignors.)

Standard Sealing Equipment Corporation. (See Kimball, W. D., and Ridout, assignors.)

- Standard Sealing Equipment Corporation. (See Kimball, W. D., Rideout, and McPaul, assignors.)
- Standard Sealing Equipment Corporation. (See McPaul, M., and Rideout, assignors.)
- Standard Silk Dyeing Co. (See Seyer, Joseph, assignor.)
- Standard Spray Pump Company. (See Costello, Frank T., assignor.)
- Standard Steel and Bearings Incorporated. (See Gamble, Robert E., assignor.)
- Standard Steel Car Company. (See Lindsay, G. W., and Nordenmalm, assignors.)
- Standard Steel Car Company. (See Anderson, Harry T., assignor.)
- Standard Steel Car Company. (See Christianson, Andrew, assignor.)
- Standard Steel Propeller Company. (See Caldwell, Frank W., assignor.)
- Standard Stoker Company. (See Hunt, Andrew M., assignor.)
- Standard Thermometer Company. (See Adair, Thomas D., Jr., assignor.)
- Standard Tobacco Stemmer Company. (See Bronander, Wilhelm B., assignor.)
- Standard-Trump Brothers Machine Company. (See Fay, Frederick L., assignor.)
- Standard-Trump Brothers Machine Company. (See Houseman, Harold E., assignor.)
- Standard Underground Cable Company. (See Fisher, Henry W., assignor.)
- Standard Underground Cable Company. (See Fisher, H. W., and Atkinson, assignors.)
- Standard Underground Cable Company. (See Schooley, Claude O., assignor.)
- Standard Underground Cable Company. (See Simons, Donald M., assignor.)
- Standard Varnish Works. (See Hirsh, J. E., and Robson, assignors.)
- Standewick, Reginald G., Marblehead, Mass., assignor to General Electric Company. Regulating means for elastic-fluid turbines. 1,629,318; May 17.
- Standewick, Reginald G., Marblehead, Mass., assignor to General Electric Company. Regulating means for elastic-fluid turbines. 1,629,319; May 17.
- Standewick, Reginald G., Marblehead, Mass., assignor to General Electric Company. Suspension of pistons and the like. 1,652,879; Dec. 13.
- Standfest, George, Jr., Rochester, N. Y. Rail structure. 1,640,858; Aug. 30.
- Standing, Amos W., Houston, Tex. Bill clasp. 1,636,254; July 19.
- Stanish, John E., Winthrop, Mass., assignor to United Shoe Machinery Corporation. Paterson, N. J. Finishing machine. 1,636,333; July 19.
- Standish, Thomas L., Los Angeles, Calif. Submarine detection float. 1,636,447; July 19.
- Standlee, Harvey R., Tulsa, Okla. Packer. 1,642,273; Dec. 13.
- Standlee, Harvey R., assignor to Paul Arbon & Company, Tulsa, Okla. Combined socket and jar. 1,620,985; Mar. 15.
- Stanfield, William R., Union, Iowa. Supporting and driving mechanism for device at side of tractors. 1,651,642; Dec. 6.
- Stanford, Forrest G. (See Korner, J. H., and Stanford.)
- Stange, Christopher L., assignor to The Grand Council of the Order of De Molay, St. Louis, Mo. Ring. Des. 73,108; July 19.
- Stange, George H., Portland, Oreg. Theft alarm for automobiles. 1,648,202; Nov. 8.
- Stanger, Otto C. (See Miner, C. S., and Stanger.)
- Stanley, Frederick C., Fairfield, assignor to The Raybestos Company, Bridgeport, Conn. Attaching non-metallic facings to working clutch members. 1,620,043; Mar. 8.
- Stanley, George P., assignor to Berst-Forster-Dixfeld Company, Dixfield, Me. Machine for making toothpicks and the like. 1,618,623; Jan. 11.
- Stanley, Irving, assignor, by mesne assignments, to Sealed Containers Corporation, New York, N. Y. Apparatus for making receptacles. 1,628,074; May 10.
- Stanley, Isaac P., Manset, Me. Tire chain. 1,617,034; Feb. 8.
- Stanley, Malcolm S. (See Innes, W. R. D., and Stanley.)
- Stanley, Stanley J., New York, N. Y. Bottle or bag gasket. 1,640,430; Aug. 30.
- Stanley, William, Chicago, Ill. Fish bait. 1,615,963; Feb. 1.
- Stanley Works, The. (See Bodmer, C., and Cook, assignors.)
- Stanley Works, The. (See Cook, Harris J., assignor.)
- Stanley Works, The. (See Parsons, Stuart W., assignor.)
- Stanley Works, The. (See Raymond, Horace H., assignor.)
- Stanley Works, The. (See Schade, Edmund A., assignor.)
- Stannard, Winfield H. (See Klopsteg, P. E., and Stannard.)
- Stansbury, Harry B., St. Louis, Mo. Pneumatic chassis support. 1,645,826; Oct. 18.
- Stansel, Roy W., Inman, Kans. (Adjustable gunstock. 1,651,299; Nov. 29.
- Stansfield, William H., Auburn, N. Y. Display rack. 1,634,804; July 5.
- Stap, R. K. R., Connerville, Ind. Radiator cap. 1,652,061; Dec. 6.
- Stanton, Arthur G., Fargo, N. Dak. Fastener. 1,637,502; Aug. 2.
- Stanton, Edward F., Los Angeles, Calif. Marking exhibitor. 1,626,565; Apr. 26.
- Stanton, Edward F., assignor to Humpty Dumpty Stores Company, Los Angeles, Calif. Tag exhibitor. Des. 74,031; Dec. 6.
- Stanton, Harmon G., Grand Rapids, Mich. Propeller. 1,638,968; July 12.
- Stanton, Wolcott P., Berkeley, Calif. Concrete conveying and distributing cart. 1,641,703; Sept. 6.
- Stanworth, Levi, Port Sydney, Ontario, Canada. Automatic hydraulic pump. 1,615,556; Jan. 25.
- Stapel, Adolf G., Montgomery, Ala. Rotary plow. 1,611,075; May 31.
- Stapf, Robert J., Northfield, Minn. Razor-blade holder. 1,634,387; July 5.
- Staples, Charles F., Detroit, Mich. Washing machine. 1,634,805; July 5.
- Staples, Charles F., Detroit, Mich. Washing machine. 1,634,890; July 5.
- Staples, Earle L., New York, N. Y. Liquid-fuel burner. 1,641,017; Aug. 30.
- Staples, Elden I., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing company. Motor-control system. 1,619,380; Mar. 1.
- Staples, Elliot M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electrical transmission system. 1,622,357; Mar. 29.
- Staples, Horace A., Plainfield, and H. K. Beach, Roselle, N. J., assignors to American Copper Products Corporation, New York, N. Y. Machine for picking coils of wire or rods. 1,643,186; Sept. 20.
- Staples, Oscar C., Tulsa, Okla. Safety connecting link. 1,616,766; Aug. 8.
- Stapleton, Glenn T. (See Smith, Herbert C., assignor.)
- Stapp, Frederick, Denver, Colo. Riveting mandrel. 1,634,521; July 5.
- Star Chandler Co. (See Boehringer, John A., assignor.)
- Star Drilling Machine Company, The. (See Krupp, Leo A., assignor.)
- Star Porcelain Company, The. (See Sortwell, Harold H., assignor.)
- Star, Richard, Brooklyn, N. Y. Ship's log. 1,641,907; Sept. 6.
- Star Shutter Company. (See Hansen, Francis F., assignor.)
- Star Sprinkler Corporation. (See Griffith, William B., assignor.)
- Star, Wyatt C., Lake Wales, Fla. Flexible-tread wheel. 1,634,048; June 28.
- Starbuck, James R., Tampa, Fla. Garter. 1,636,720; July 26.
- Starck, John E. E. (See Turner, F. J., and Starck.)
- Starck, William A., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper. Des. 71,852; Jan. 11.
- Starita, Frank, et al. (See Kurz, Robert F., assignor.)
- Stark, Charles W., Trenton, N. J. Building structure comprising water receptors. 1,633,685; June 28.
- Stark, Frank R., Chicago, Ill. Ventilator. Re16,812; July 12.
- Stark, Frederick W., assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 73,588; Oct. 4.
- Stark, George W., Mason, Mich. Dirt conditioner. 1,650,400; Nov. 22.
- Stark, Harold M., Highland Park, Mich. Apparatus and process for leaching, filtering, and absorbing gases and the like. 1,625,831; Apr. 26.
- Stark, John J., Des Moines, Iowa. Surface for highways, floors, and the like. 1,613,063; Jan. 4.
- Stark, John W., Kensington, Minn. Grass-seed scarifier. 1,651,000; Nov. 29.
- Stark, Nathan I., Philadelphia, Pa. Scouring device. 1,645,359; Oct. 11.
- Stark, Rawson E., assignor to The Stibium Products Company, Ellyria, Ohio. Making precipitated antimony sulphide. 1,633,754; June 28.
- Stark, Theodore H., assignor to C. Bruno & Son, Inc., New York, N. Y. Violin case. 1,624,994; Apr. 19.
- Stark, Vester, Fairfield, Iowa. Gambrel. 1,641,508; Sept. 6.
- Stark, Willet E. (See Fox, O., and Stark.)
- Stark, Emil D., Oak Park, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Harp damper. 1,637,539; Aug. 2.
- Starke, Ernest F., Red Cloud, Nebr. Rim tool. 1,632,248; June 14.
- Starke, Otto R. (See Strauss, F., and Starke.)
- Starke, Otto R., assignor to The Ferdinand Strauss Corporation, New York, N. Y. Tail-waging toy. 1,635,770; July 12.
- Starke, Richard W. (See Butters, R. H., and Starke.)
- Starkey Automatic Pump Company, The. (See Starkey, Lewis P., assignor.)
- Starkey, Clarence L., Fresno, Calif. Automatic compensating gear. 1,647,480; Nov. 1.
- Starkey, Lewis P., assignor to The Starkey Automatic Pump Company, Fort Collins, Colo. Self-operating filling station. 1,650,882; Nov. 29.
- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Spring-clutch construction. 1,615,804; Jan. 25.

- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Starter for automobiles. 1,617,775; Feb. 15.
- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Multiple-spring clutch. 1,629,420; May 17.
- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Friction clutch. 1,640,472; Aug. 30.
- Starkie, John W., East Elmhurst, N. Y., assignor to The Aeolian Company. Keyboard for organs and the like. 1,623,211; Apr. 5.
- Starkins, Arthur O., Paterson, assignor of one-third to G. W. Vaughan, Ridgewood, N. J. Expanding tool. 1,648,032; Nov. 8.
- Starkweather, George B., Washington, D. C. Aircraft. 1,645,779; Oct. 13.
- Starnes, Ouis H., Carlisle, Pa. Corrective shoe and arch support therefor. 1,618,684; Feb. 22.
- Starr, Charles E., Oakland, Calif., assignor to Perfecto Gear Differential Co., Seattle, Wash. Transmission mechanism. 1,623,212; Apr. 5.
- Starr, Charles E., Oakland, Calif., assignor to Perfecto Gear Differential Company, Seattle, Wash. Transmission gears. 1,623,213; Apr. 5.
- Starr, Charles M., South Bend, Ind. Automatic cut out. 1,628,339; May 10.
- Starr, Frank F., assignor to Delco-Light Company, Dayton, Ohio. Engine. 1,626,364; Apr. 26.
- Starr, Fred, et al. (See Pennabaker, George B., assignor.)
- Starr, Harold H., et al. (See Jones, George A. E., assignor.)
- Starr, Howard D., Long Beach, Calif. Maintaining a reserve supply of fuel in fuel tanks. 1,633,046; June 21.
- Starr, Morton H., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Weighing machine. 1,627,124; May 3.
- Starr, Morton H., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale. Re16,840; Dec. 27.
- Starr, Perl L., Detroit, Mich. Lathe attachment. 1,619,832; Mar. 8.
- Starr, Perl L., Chicago, Ill. Grinding tool. 1,624,634; Apr. 12.
- Starr, Perl L., Chicago, Ill. Cylinder-grinding tool. 1,624,635; Apr. 12.
- Starr Piano Company. (See Mayer, Fred G., assignor.)
- Starr, Robert J., Briarcrest, Saskatchewan, Canada. Resilient wheel. 1,627,418; May 3.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel board and panel-board connector. 1,620,645; May 24.
- Starrett, L. S., Company, The. (See Simpson, Robert J. O., assignor.)
- Starrett Manufacturing Company. (See Starrett, Henry F., assignor.)
- Starrett, Wendelin D., Oakland, Calif. Slope-stake calculator. 1,635,646; June 10.
- Startup, Kenneth S. (See Young, Frank A., assignor.)
- Stearns, Joseph D., Berkeley, assignor of one-fourth to W. A. Harter, San Francisco, Calif. Direction indicator for motor trucks and the like. 1,635,587; July 12.
- Stastny, Rudolph B., Wilber, Nebr. Dandelion grubber. 1,624,442; Apr. 12.
- State Banking and Trust Company, trustee, The. (See Schaffer, Lewis D., assignor.)
- Steteler, Ernest S. (See Kohman, H. A., Irvin, and Steteler.)
- Stathakis, Sam. (See Bellamy, William D., assignor.)
- Stathes, George A. (See Stathes, Nicholas A. and G. A.)
- Stathes, Nicholas A. and G. A., New York, N. Y. Automatic closure. 1,629,747; May 24.
- Statler, Charles, et al. (See Peterman, Henry, assignor.)
- Stauber, Max. (See Hermann, J., and Stauber.)
- Stauby, John, assignor to Eagle Pencil Company, New York, N. Y. Display container. 1,628,439; May 10.
- Stauder, Emanuel, assignor to Huther Brothers Saw Mfg. Company, Rochester, N. Y. Woodworking machine. 1,651,846; Dec. 6.
- Staufacher, Edwin R. (See Delsasso, L. P., Dengler, and Stauffer.)
- Stauffer, Bertram. (See Freund, S., and Stauffer.)
- Stauffer, John F., Tutwiler, Miss. Target. 1,652,062; Dec. 6.
- Stauffer, Wallace W., Akron, Ind. Dough cutter. 1,618,685; Feb. 22.
- Staunton, Le Roy W. (See Rypinski, M. C., Staunton, and Bourne.)
- Staunton, Le Roy W., Jackson Heights, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Electromagnetic sound reproducer. 1,621,562; Mar. 22.
- Staupe, Alton W., Foxboro, Wis. Screw-driver attachment. 1,625,227; Apr. 19.
- Stauss, John, New Orleans, La. Keyboard-indicating device and registering performance. 1,644,960; Oct. 11.
- Steele, Walter C., Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill. Waistband for trousers. 1,652,543; Dec. 13.
- Stavrum, Maurice W., Chicago, Ill. Loop antenna. Des. 72,118; Mar. 1.
- Stay, Theron D., and C. O. Tessier, Cleveland, Ohio, assignors, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa. Apparatus for reclaiming metals. 1,630,361; May 31.
- Stazak, Michael B. (See Eaton, G. K., and Stazak.)
- Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Relay. 1,640,431; Aug. 30.
- Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Electric rectifier. 1,647,418; Nov. 1.
- Stead, Charles E. (See Skeen, Samuel T., assignor.)
- Stead, Lawrence A. (See Carlson, E. E., and Stead.)
- Stead, Lewis H., Los Angeles, Calif. Plumbing fixture. 1,613,251; Jan. 4.
- Stead Rail Anchors Incorporated. (See Cooper, Francis W., assignor.)
- Steady-lite Motion Picture Machine Corporation. (See Kosken, Wilho A., assignor.)
- Stearn, Franklin A., Paterson, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching selector-switch circuit. 1,648,009; Nov. 8.
- Stearn, Franklin A., Paterson, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Counting-relay operation. 1,650,745; Nov. 29.
- Stearns, Chester E., and C. H. Vogel, Carstairs, Alberta, Canada. Harvester and stooker. 1,646,462; Oct. 25.
- Stearns, Frank P., Shaker Heights Village, Ohio. Fluid compressor. 1,658,418; Aug. 9.
- Stearns, Jason C., Worcester, Mass. Tail and signal lamp. 1,629,549; May 24.
- Stebbins, Eugene, Des Moines, Iowa. Dispensing device. 1,639,388; Aug. 16.
- Stebbins, Albert H., Los Angeles, Calif. Screen. 1,616,472; Feb. 8.
- Stebbins, Albert H., Los Angeles, Calif. Screen. 1,616,473; Feb. 8.
- Stebbins, Albert H., Los Angeles, Calif. Air-volume dust reducer. 1,620,241; Mar. 8.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator-table fan. 1,620,242; Mar. 8.
- Stebbins, Albert H., Los Angeles, Calif. Classifier deck. 1,620,243; Mar. 8.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator deck. 1,622,471; Mar. 29.
- Stebbins, Albert H., Los Angeles, Calif. Air-blast classifier. 1,624,518; Apr. 12.
- Stebbins, Albert H., Los Angeles, Calif. Air-blast classifier. 1,624,519; Apr. 12.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,627,673; May 10.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,627,674; May 10.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,627,675; May 10.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,627,676; May 10.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,627,677; May 10.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,627,678; May 10.
- Stebbins, Albert H., Los Angeles, Calif. Dust-extracting unit. 1,629,593; May 24.
- Stebbins, Albert H., Los Angeles, Calif. Air classifier. 1,629,594; May 24.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,633,198; June 21.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator table. 1,633,199; June 21.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator table. 1,644,753; Oct. 11.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator deck. 1,646,985; Oct. 25.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator. 1,648,285; Nov. 8.
- Stebbins, Albert H., Los Angeles, Calif. Table concentrator. 1,648,286; Nov. 8.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator. 1,650,725; Nov. 29.
- Stebbins, Albert H., Los Angeles, Calif. Circular-deck concentrator. 1,650,726; Nov. 29.
- Stebbins, Albert H., Los Angeles, Calif. Air classifier. 1,650,727; Nov. 29.
- Stebbins Engineering and Manufacturing Company. (See Dunbar, Thomas L., assignor.)
- Stebbins Engineering and Manufacturing Company. (See Richter, A., and Augsburg, assignors.)
- Stebbins, Timothy J., assignor to Red Jacket Manufacturing Co., Davenport, Iowa. Pump jack. 1,633,045; June 21.
- Stebler, Fred, assignor to Stebler-Parker Co., Riverside, Calif. Combined radial and thrust bearing. 1,651,073; Nov. 29.
- Stebler, Fred, assignor to Stebler-Parker Co., Riverside, Calif. Fruit grader. 1,651,847; Dec. 6.
- Stebler-Parker Co. (See Stebler, Fred, assignor.)
- Stechbart, Bruno, assignor to Bodine Electric Company, Chicago, Ill. Starting means for induction motors. 1,641,903; Sept. 6.
- Stecke, Albert, Osnabruck, Germany. Joint for wires and wires. 1,642,314; Sept. 15.
- Stedefeld, Curt. (See Kruckenber, F., and Stedefeld.)
- Stedwell, George W., et al. (See Hawxhurst, John J., assignor.)
- Steedman, James P. (See Britton, George W., assignor.)

- Steel, Benjamin F., East Orange, and H. D. Kelly, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Machine for treating wire. 1,617,087; Feb. 8.
- Steel, Benjamin F., East Orange, N. J., assignor to Westinghouse Lamp Company. Making bimetallic wire. 1,653,373; Dec. 20.
- Steel, Charles W. and R. T. Griffiths, assignors to The Miller Rubber Company, Akron, Ohio. Method of and apparatus for making hollow articles. 1,624,849; Apr. 12.
- Steel Construction Company Limited. (See Davies, Frederick A., assignor.)
- Steel, Donald, Jarbidge, Nev. Dredge sluice jig. 1,651,046; Nov. 29.
- Steel Drum Accessories Corporation. (See Rahling, Henry D., assignor.)
- Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
- Steel Products Company, The. (See Crawford, Frederick C., assignor.)
- Steel Products Company, The. (See Crawford, F. C., and Grauman, assignors.)
- Steel, Samuel T. (See Durnell, Harold G., assignor.)
- Steel Scaffolding Company, The. (See Goodwin, James R., assignor.)
- Steel Scaffolding Company, The. (See Goodwin, Percy E., assignor.)
- Steel Stamping Company, The. (See Bregman, Harry, assignor.)
- Steel and Tubes, Incorporated. (See Johnston, Gustave V., assignor.)
- Steel Wheel Corporation. (See Forsyth, George H., assignor.)
- Steel Wheel Corporation. (See Putnam, Alden L., assignor.)
- Steel Wheel Corporation. (See Schoenthal, Fred C., assignor.)
- Steel Wheel Corporation, The. (See Tuttle, W. W., and Hirvonen, assignors.)
- Steel Wheel Corporation. (See Williams, William E., assignor.)
- Steel, Charles W., assignor to The Miller Rubber Company, Akron, Ohio. Strip-applying attachments for tire-building machines. 1,632,151; June 14.
- Steele, Edward J., Des Moines, Iowa. Valve. 1,624,850; Apr. 12.
- Steele, Edwin G. (See Sutton, H. M., Steele, and Steele.)
- Steele, Herbert H., Lynbrook, N. Y. Educational device for teaching spelling. 1,619,160; Mar. 1.
- Steele, Lawrence C., Pittsburgh, Pa. Feeding mechanism deflector. 1,643,686; Sept. 27.
- Steele, Roscoe, Rockaway, N. J., assignor to Wireboards Panels Company. Machine for use in making boxes. 1,634,049; June 28.
- Steele, Walter L. (See Sutton, H. M., Steele, and Steele.)
- Steelsmith, F. R., trustee. (See Stocking, Bert A., assignor.)
- Steen, Carl W., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Adjustable machine support. 1,628,620; May 10.
- Steen, Charles W., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Alternating-current motor. 1,641,704; Sept. 6.
- Steen, James C., assignor to The Reynolds Machine Company, Massillon, Ohio. Screw-driving machine. 1,624,189; Apr. 12.
- Steenrod, William J., assignor to Baker-Vawter Company, Benton Harbor, Mich. Loose-leaf binder. 1,619,589; Mar. 1.
- Steenrod, William J., assignor to Baker-Vawter Company, Benton Harbor, Mich. Locking mechanism for loose-leaf binders. 1,623,283; Apr. 5.
- Steenrod, William J., assignor to Baker-Vawter Company, Benton Harbor, Mich. Binder. 1,630,500; May 31.
- Steenrod, William J., assignor to Baker-Vawter Company, Benton Harbor, Mich. Lock for loose-leaf binders. 1,632,249; June 14.
- Steenrod, Lulu E., West Salem, Wis. Knicker supporter. 1,643,613; Sept. 27.
- Steenstra, George, assignor of one-sixth to H. B. Seligstein, one-sixth to M. F. Seligstein, and one-sixth to S. J. Seligstein, St. Louis, Mo. Airplane. 1,644,453; Oct. 4.
- Steenstrup, Christian, Schenectady, N. Y. Artificial fish bait. 1,622,063; Mar. 22.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,645,119; Oct. 11.
- Steere Engineering Company. (See Steere, George R., assignor.)
- Steere, Ernest C., Sydney, New South Wales, Australia. Electric water heater. 1,630,909; May 31.
- Steere, George R., assignor to Steere Engineering Company, Detroit, Mich. Gate or valve operating system. 1,619,003; Mar. 1.
- Steere, Samuel A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic tire. 1,632,201; June 14.
- Steere, Samuel A., Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cord tire fabric. 1,635,196; July 12.
- Steers, Newton I., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Safety blasting cap. 1,639,906; Aug. 23.
- Steerup, Godfrey. (See Miner, C. S., and Steerup.)
- Steeze, Marcus C., Duluth, Minn. Life-saving apparatus. 1,630,501; May 31.
- Steffan, William C. (See Ackermann, F. B., Steffan, and Greiner.)
- Steffen, Adolf, Pittsburgh, Pa., assignor to Adams Brothers Manufacturing Company, Inc. Gas heater. Des. 74,078; Dec. 13.
- Steffen, Ralph M. (See Darlington, H. T., and Steffen.)
- Steffen, Raymond A., Hamilton, Ohio. Paper formation and weight indicator. 1,634,344; July 5.
- Steffens, Calvin B., Allenton, Mo. Auxiliary Ford starter switch and switch-operating mechanism. 1,621,288; Mar. 15.
- Steffens, George V., Company. (See Witbeck, Desford, assignor.)
- Steffens, Hans R. A. (See Arntz, Svend A., assignor.)
- Steffens, Henry C., San Francisco, Calif. Electric perforating machine. 1,631,074; Nov. 29.
- Steffens, Matthew J., Chicago, Ill. Fishhook. 1,649,140; Nov. 15.
- Stegemann, Louis A., Irvington, assignor to Cinema Advertising Corporation, Newark, N. J. Cabinet for projecting apparatus. 1,653,743; Dec. 27.
- Steger, Alex., Vining, Minn. Pop-corn shaker. 1,653,442; Dec. 20.
- Steger, Marvin E., McCleary, Wash. Defect-removing and patch-cutting machine. 1,629,595; May 24.
- Stegner, Cloyd K., Detroit, Mich. Device for sharpening straight and safety razor blades. 1,619,533; Mar. 8.
- Stehlik, Rudolph F., assignor, by mesne assignments to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,612,991; Jan. 4.
- Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,638,513; Aug. 9.
- Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Impulse sender. 1,640,473; Aug. 30.
- Stehlin, Charles F., New Rochelle, N. Y. Tone-developing loud speaker. 1,616,474; Feb. 8.
- Stein, Hermann, Harry, Berlin-Hohenschonhausen, Germany. Rotary kiln for burning cement, magnesite, lime, and the like. 1,617,137; Feb. 8.
- Steichen, Mairé C., New York, N. Y. Hair waver. 1,646,173; Oct. 18.
- Steidle, Anton, Arlington, assignor to Burton-Boston Brush Co., Cambridge, Mass. Brush. 1,642,974; Sept. 20.
- Steiert, Alois F., and O. W. Linke, Philadelphia, Pa. Floor polisher. 1,635,016; July 5.
- Steiger, George W., Jamaica, N. Y. Lifting grab and the like. 1,646,938; Oct. 25.
- Stein, Jacob J., Overland, Mo. Spraying machine. 1,648,154; Nov. 8.
- Steigman, Israel N., Brooklyn, N. Y. Motion-picture machine. 1,613,730; Jan. 11.
- Stell, Frank P., Cudahy, Wis. Counter. 1,629,933; May 24.
- Stein, Charles M., executor. (See Steimer, Theodore C.)
- Steimer, Theodore C., deceased, Pittsburgh, Pa.; C. M. Steimer, executor, Zanesville, Ohio, assignor, by mesne assignments, to The Hartford Special Machinery Company, Glassworking apparatus. 1,642,430; Sept. 13.
- Steinke, Walter H. (See Jett, George C., assignor.)
- Stein, Sigmund, and Company. (See Fisher, Wilbur H., assignor.)
- Stein, Berthold. (See Berliner, K., Stein, and Trautner.)
- Stein, Berthold, Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Making 2-7 dinitro-antraquinone. 1,622,168; Mar. 22.
- Stein, Charles, assignor to Societe Ch. M. Stein & Cie., Paris, France. Recuperative furnace. Re16,826; Dec. 20.
- Stein, Charles, and W. M. Heller, Atlantic City, N. J. Doll. Des. 72,640; May 10.
- Stein, Charles, and W. M. Heller, Atlantic City, N. J. Doll. 1,651,738; Dec. 6.
- Stein, Charles E., Brea, Calif. Bumper. 1,626,566; Apr. 26.
- Stein, Charles M., Paris, France. Automatic obturator for the supply pipe for burners. 1,645,550; Oct. 18.
- Stein-Davies Company, The. (See Fackler, Louis, assignor.)
- Stein, Fred W., Atchison, Kans. Variable condenser for radiocircuits. 1,616,093; Feb. 1.
- Stein, Fred W., Atchison, Kans. Radio interference eliminator. 1,630,980; May 31.
- Stein, Gerhard, Neuronowitz, near Meissen, Germany. Pot for glass-melting furnaces. 1,625,435; Apr. 19.
- Stein, Harry B., Chicago, Ill. Window-hanging device. 1,625,289; Apr. 19.
- Stein, Harry B., Chicago, Ill. Window construction. 1,627,419; May 3.
- Stein, Harry B., Chicago, Ill. Window construction. 1,653,783; Dec. 27.
- Stein, Holmst. (See Rothmann, A., and Stein.)
- Stein, Herbert B., New York, N. Y. Surgical retractor instrument. 1,613,141; Jan. 4.
- Stein, Jacob, New York, N. Y. Machine for uniting sheet rubber. 1,628,203; May 10.
- Stein, John A., New York, N. Y., assignor to American Machine and Foundry Company. Windowing device for cigarette machines. 1,647,255; Nov. 1.
- Stein, Leo. (See Stein, Michael H. and L.)
- Stein, Louis, Chicago, Ill. Advertising portfolio. 1,625,228; Apr. 19.

- Stein, Louis H., Chicago, Ill. Measuring gauge. 1,619,834; Mar. 8.
- Stein, Louis H., assignor to Stromberg Motor Devices Company, Chicago, Ill. Universal multiple operation machine. 1,627,934; May 10.
- Stein, Michael H. and L. Chicago, Ill.; said Michael H. Stein assignor to said L. Stein. Brief case. 1,638,753; Aug. 9.
- Stein, Mitchell A., Anderson, S. C. Circuit-controlling apparatus. 1,625,832; Apr. 26.
- Stein, Samuel A., Los Angeles, Calif. Radiometer. 1,648,746; Nov. 8.
- Stein, Samuel F., Williamsport, Pa. Belt tightener. 1,640,623; Aug. 30.
- Stein, Theodor, Berlin, Friedenau, Germany, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Power plant. 1,644,754; Oct. 11.
- Stein, William D. (See Block, David J., assignor.)
- Stein, William G., Canton, Ohio. Deflector and light filter. 1,643,187; Sept. 20.
- Steinback, Edward P., Bloomington, Minn. Poultry-feeding device. 1,629,979; May 24.
- Steinbeck, Erle W., Chicago, Ill. Tufting machine. 1,614,576; Jan. 18.
- Steinberg, Carl, New York, N. Y. Straw hat. 1,643,138; Sept. 20.
- Steinberg, Irving C., assignor to J. Steinberg & Sons, Newark, N. J. Skylight. 1,636,018; July 19.
- Steinberg, Samuel, and E. J. Boyler, New Haven, Conn.; said Boyler assignor to said Steinberg. Target. 1,652,688; Dec. 13.
- Steinberg, Sol S. (See Randol, Glenn T., assignor.)
- Steinberg & Sons. (See Steinberg, Irving C., assignor.)
- Steinberger, Edwin E., New York, N. Y. Glove. Des. 72,915; June 21.
- Steinberger, Louis, Brooklyn, N. Y. Loud speaker. Des. 73,715; Oct. 25.
- Steinberger, Louis, Brooklyn, N. Y., and G. Hill, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y. Insulated support for inductance coils. 1,645,462; Oct. 11.
- Steinbrecht, Hans S., New York, N. Y. Stabilizer for aircraft. 1,626,567; Apr. 26.
- Steinbreder, William J. (See Beegle, Raymond E., assignor.)
- Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Hydraulic work-carriage control. 1,643,262; Sept. 20.
- Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Control valve. 1,649,866; Nov. 22.
- Steiner Electric Corporation. (See Long, George F., assignor.)
- Steiner Electric Corporation. (See Piel, Gottfried, Jr., assignor.)
- Steiner, Frank M., and G. Olson, Minneapolis, Minn., assignors, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,636,155; July 19.
- Steiner, Fred W. et al. (See Johnstone Samuel, assignor.)
- Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel-folding machine. 1,618,391; Feb. 22.
- Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Attachment for towel cabinets. 1,621,690; Mar. 22.
- Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,643,096; Sept. 20.
- Steiner, George A., Salt Lake City, Utah, and G. Olson, Minneapolis, Minn., assignors to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,643,095; Sept. 20.
- Steiner, John, Poughkeepsie, N. Y. Polishing wheel. 1,619,442; Mar. 1.
- Steiner, Oscar, Philadelphia, Pa., assignor to General Electric Company. Supporting and driving films. 1,614,214; Jan. 11.
- Steiner Sales Company. (See Leate, Karl M., assignor.)
- Steiner Sales Company. (See Mortensen, J., and Tropp, assignors.)
- Steiner Sales Company. (See Overholt, Albert L., as assignor.)
- Steiner Sales Company. (See Steiner, F. M., and Olson, assignors.)
- Steiner Sales Company. (See Steiner, George A., assignor.)
- Steiner Sales Company. (See Steiner, G. A., and Olson, assignors.)
- Steintor, Alexander. (See Perron, Samuel H., assignor.)
- Steinhardt, Sigmund, New York, N. Y. Hold-up alarm. 1,639,578; Aug. 16.
- Steinicke, Frank H. (See Gilbert, V. G. W., and Steinicke.)
- Steininger, William, Berwyn, Ill. Lawn sprinkler. 1,650,473; Nov. 22.
- Steinke, Leroy O., Spokane, Wash. Heating device. 1,647,155; Nov. 1.
- Steinkeller, Walter, Vienna, Austria. Machine for making buttered slices of bread or the like. 1,615,920; Feb. 1.
- Steinkraus, John C., Cicero, Ill. Map or display rail. 1,628,860; May 17.
- Steinkritzer, Max, Donnacona, Quebec, Canada. Nut lock. 1,616,338; Feb. 1.
- Steinle, Adolf, and O. Eppenstein, assignors to the Firm of Carl Zeiss, Jena, Germany. Apparatus for testing toothed wheels. 1,642,219; Sept. 13.
- Steinle, William J. (See Hopkinson, E., and Steinle.)
- Steinle, William J., Flushing, N. Y., assignor to The Hartford Rubber Works Company. Method and apparatus for making tire casings. 1,654,351; Dec. 27.
- Steinman, Samuel, Brooklyn, N. Y. Latch device for hand bars. 1,634,918; July 5.
- Steinman, Saul, Shelton, Conn. Sign holder. 1,627,350; May 3.
- Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Safety pulley. 1,640,624; Aug. 30.
- Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Choke coil. 1,646,502; Oct. 25.
- Steinmetz, Charles P., deceased, by J. L. R. Hayden, executor, Schenectady, N. Y., assignor to General Electric Company. Protective system. 1,646,265; Oct. 18.
- Steinmetz, George, Charlottenburg, near Berlin, Germany. Paper clip. 1,615,179; Jan. 18.
- Steinmetz, George J. (See Ruse, Charles L., assignor.)
- Steinmetz, Herman, assignor to Bat-A-Pen Corporation, Rochester, N. Y. Game apparatus. 1,630,869; May 31.
- Steinmetz, Joseph A., Philadelphia, Pa. Mooring dirigible aircraft. 1,634,064; July 5.
- Steinmetz, Joseph A., Philadelphia, Pa. Gripping member for cylinders. 1,639,786; Aug. 23.
- Steinmetz, Stefan, Berlin, Germany. Removal of the cereals and drying of grain moistened for this purpose. 1,637,091; July 26.
- Steinmeyer, Harry A., and J. H. Voss, Chicago, Ill. Cooling system. 1,649,321; Nov. 22.
- Steinruck, Herman, assignor to Sterling Aluminum Company, Erie, Pa. Display case. 1,640,583; Aug. 30.
- Stella, Edward F. (See Rizer, Earl A., assignor.)
- Steller, Arthur, assignor to Allsopp Bros., Newark, N. J. Ring. Des. 72,971; June 28.
- Stelmach, Paul, Brooklyn, N. Y. Paper fastener. 1,619,936; Sept. 6.
- Stelmach, Paul, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Display stand. 1,644,359; Oct. 4.
- Stellmann, Louis M. (See Pierce, Howard W., assignor.)
- Stellner, William, Collingwood, Melbourne, Victoria, Australia. Propeller. 1,622,472; Mar. 29.
- Stelzer, William, Chicago, Ill. Sanitary toilet cover. 1,632,455; June 14.
- Stembridge & Brandt. (See Wellman, Lester R., assignor.)
- Stemen, Charles M., Johnstown, Ohio. Sanitary milk can cover. 1,636,199; July 19.
- Stemme, Henry. (See Brady James T., assignor.)
- Stendahl, Louis, and E. Hanson, Zimmerman, Minn. Pump-operating device. 1,642,274; Sept. 13.
- Stene, Thomas W. (See Kennedy, J. J., and Stene.)
- Steneck Trust Company, trustee. (See Lowy, Otto, assignor.)
- Stensgard, Ed C. (See Lewis, Matthew M., assignor.)
- Stenholm, David F., Rockford, Ill. Theatrical make-up box. 1,650,241; Nov. 22.
- Stenkvist, Emil, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Treating liquid-insulated transformers. 1,626,218; Apr. 26.
- Stenman, Eric E. (See Cohen, M., and Stenman.)
- Stenseth, Kristoffer, Valdres, Norway. Arrangement for indication of the position or direction of the steering wheels in vehicles. 1,653,744; Dec. 27.
- Stenz, Bernard F., assignor to Simplex Sampling Association, Inc., New York, N. Y. Predetermining dental replacement. 1,654,387; Dec. 27.
- Stenzel, Otto, Salt Lake City, Utah. Vehicle light lens. 1,636,928; July 26.
- Stephansen, Julius, Drammen, Norway. Dewatering apparatus for pulp. 1,650,100; Nov. 22.
- Stephens, Albert G., Indianapolis, Ind. Display-case closure. 1,643,632; Sept. 27.
- Stephens, Andrew J., Kansas City, Mo. Blow-out patch. 1,618,314; Feb. 22.
- Stephens, Benjamin G. C., Auckland, New Zealand. Electric-iron plug. 1,618,686; Feb. 22.
- Stephens, F. G. (See Jones, John T., assignor.)
- Stephens, F. W., et al. (See Daniels, Cecil C., assignor.)
- Stephens, Herman E., Huntington Park, assignor to West Coast Knitting Mills, Los Angeles, Calif. Undergarment. 1,653,483; Dec. 20.
- Stephens, Hugh, Jr., Winnipeg, Manitoba, Canada. Combination hair comb and brush. 1,644,208; Oct. 4.
- Stephens, John R., et al. (See Prator, Ernest P., assignor.)
- Stephens, Percy W., Chicago, Ill. Auxiliary air intake for motors. 1,615,527; Jan. 25.
- Stephens, Ruth B., Los Angeles, Calif. Hairdressing article. 1,652,462; Dec. 13.
- Stephens, Samuel, and Wickersham Quoin Company. (See Stephens, William, assignor.)
- Stephens, William, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for testing porosity of indurated articles. 1,623,932; Apr. 5.
- Stephens, William, Somerville, Mass., assignor to Samuel Stephens and Wickersham Quoin Company, Boston, Mass. Composing-room cabinet. 1,630,678; May 31.
- Stephenson, Charles H. (See Howard, B. J., and Stephenson.)

- Stephenson, Herman. (See Stephenson, Thomas E., assignor.)
- Stephenson, James E., assignor to General Railway Signal Company, Rochester, N. Y. Snubbing circuit for semaphore signal. 1,630,981; May 31.
- Stephenson, Robert, Blackburn, England. Garment suspender. 1,626,305; Apr. 26.
- Stephenson, Samuel E., et al. (See Harding, Joseph G., assignor.)
- Stephenson, Thomas E., Harrisburg, Pa. Pipe vise. 1,644,755; Oct. 11.
- Stephenson, Thomas E., Harrisburg, assignor of forty one hundred and thirty H. Stephenson, Wyomissing, Pa. Pipe wrench. 1,620,170; Mar. 8.
- Stepp, William C., Penelope, Tex. Tire-inflating apparatus. 1,628,813; May 17.
- Sterbenz, John W., Los Angeles, Calif. Panel-fastening means. 1,645,120; Oct. 11.
- Sterges, Alexander. (See Wilson, V. L., and Stergios.)
- Sterling Aluminum Company. (See Steinruck, Herman, assignor.)
- Sterling Automatic Machinery Company. (See Bellows, Walter C., assignor.)
- Sterling, Bernard A., Chicago, Ill. Fastening device. 1,612,992; Jan. 4.
- Sterling Blower Company, The, et al. (See Christoph, George W., assignor.)
- Sterling Bronze Company. (See Derujinsky, Gleb W., assignor.)
- Sterling Bronze Company. (See Roth, Louis, assignor.)
- Stern, Frank H., Minneapolis, Minn. Double-entry and trial-balance book. 1,625,105; Apr. 19.
- Sterling, Harry C., assignor to McMillan Book Company, Syracuse, N. Y. Loose-leaf binder. 1,625,752; Apr. 19.
- Sterling, Harry C., assignor to McMillan Book Company, Syracuse, N. Y. Flyleaf for loose-leaf binders. 1,634,345; July 5.
- Sterling Telephone & Electric Company. (See Hearne, Alec E., assignor.)
- Sterling Wheelbarrow Company. (See Smith, Irving R., assignor.)
- Stern, Allan G. (See Hirschfeld, H. A., and Stern.)
- Stern, Bernard G., Cleveland, Ohio. Combination sink and faucet. 1,651,164; Mar. 29.
- Stern, Carl L. (See Bower, W. M., Burdon, and Stern.)
- Stern, Carl L., and A. V. Bugler, assignors to Linotype and Machinery Limited, London, England. Sheet feeding and delivering mechanism for printing machines. 1,617,656; Feb. 15.
- Stern, Carl L., and A. V. Bugler, assignors to Linotype and Machinery Limited, London, England. Sheet feeding and delivering mechanism for printing machines. 1,647,377; Nov. 1.
- Stern, Charles. (See Feeley, M. R., Stern, and Braden.)
- Stern, Charles, Jersey City, N. J., and R. W. Braden, New York, N. Y., assignors to B. & S. Manufacturing Products Corporation, Jersey City, N. J. Attachment for locomotives. 1,628,478; May 10.
- Stern, Emil, Chicago, Ill. Wrapping machine. 1,629,934; May 24.
- Stern, Ignatz, I. Roth, and J. Markowitz, New York, N. Y. Saffary milk can. 1,645,308; Oct. 11.
- Stern, Isidor, Newark, N. J. Combination gem and setting. Des. 71,935; Jan. 25.
- Stern, Isidor, Newark, N. J. Combination gem and setting. Des. 73,109; July 19.
- Stern, Isidor, Newark, N. J. Combination gem and setting. Des. 73,110; July 19.
- Stern, Isidore, New York, N. Y. Denture attachment. 1,638,553; Aug. 9.
- Stern, Isidore, New York, N. Y. Denture attachment. 1,641,557; Sept. 6.
- Stern, Joseph M., and E. M. Elder, Cleveland, Ohio. Interment mat. 1,637,839; Aug. 2.
- Stern, Julius. (See Ehmsen, Heinrich, assignor.)
- Stern, Julius, Brooklyn, N. Y. Floating soap. 1,615,244; Jan. 25.
- Stern, Louis, Company. (See Graemer, August F., assignor.)
- Stern, Louis, Company. (See Jones, Percival W., assignor.)
- Stern, Louis, Company. (See Valcort, Louis E., assignor.)
- Stern, Ludwig, New York, N. Y. Pipe. Des. 74,079; Dec. 13.
- Stern, Maximilian, New York, N. Y. Diathermic electrode. 1,633,649; June 28.
- Stern, Otto, assignor to the Firm: Standard Compositors Aktiengesellschaft, Berlin, Germany. Matrix-setting and line-casting machine. 1,633,422; June 21.
- Stern, Sidney J., Chicago, Ill. Book puller. 1,635,864; July 12.
- Stern, William J., Palmers Green, London, England. Rotary pump machine. 1,616,285; Feb. 1.
- Sternaman, John. (See Weaver, I. A., and Sternaman.)
- Sternberg, Alfred, Berlin-Grünwald, Germany, assignor to Società Industria Globetite, Milan, Italy. Blood-treating process. 1,632,321; June 14.
- Sternberg, Herman J., St. Louis, Mo. Feed-water heater. 1,621,289; Mar. 15.
- Sternberg, Irving C., New York, N. Y., assignor to Arctic Air-Corperation, Chicago, Ill. Casing for the discharge mouth of building-ventilating systems. Des. 73,949; Nov. 22.
- Sternberg, Max. (See Baskin, L., and Sternberg.)
- Sternbergh, Harry S., assignor to W. W. Blakely, Detroit, Mich. Hold-down device. 1,623,762; Apr. 6.
- Sternkopf, Christian J., Rittersgrun, Germany. Process and apparatus for the production of wood pulp. 1,619,004; Mar. 1.
- Sterrett, James R., et al. (See Carpenter, Charles U., assignor.)
- Stertzbach, Harry W. (See Johnson, G. T., and Stertzbach.)
- Stertzbach, Harry W., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Cast side frame for car trucks. 1,642,793; Sept. 20.
- Stertzbach, Harry W., and M. R. Hansen, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck side frame. 1,637,970; Aug. 2.
- Stetson, Frank H., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Shuttle block. 1,621,439; Mar. 15.
- Stetson, John, San Francisco, Calif. Skating device. 1,628,004; May 10.
- Stetson, John, San Francisco, Calif. Figure toy. 1,649,623; Nov. 15.
- Stetson-Ross Machine Company. (See Webb, Orra W., assignor.)
- Stetson, Warner D., Detroit, Mich. Wire-splicing tool. 1,645,668; Oct. 18.
- Stettner, Ludwig W., Oakland, Calif. Acetylene generator. 1,642,467; Sept. 13.
- Stewart, Douglas S., London, England. Telephone accessories. 1,654,193; Dec. 27.
- Stewart, William R., Harvey, Ill. Transmission gear. 1,648,969; Nov. 15.
- Steupe, Ernest E., Saugus, Calif. Resilient wheel. 1,615,349; Jan. 25.
- Steuernagel, Hugo V., Hartford, Conn. Clamp. 1,628,479; May 10.
- Stevens, Antonio K., Memphis, Tenn. Garment holder. 1,641,705; Sept. 6.
- Stevens, Albert W., Dayton, Ohio. Airplane view finder. 1,622,125; Mar. 22.
- Stevens, Alfred J., London, Ontario, Canada. Game apparatus. 1,631,558; July 7.
- Stevens, Augustus W., and F. M. Lindsay, Calif. Drying machine. 1,630,082; June 19.
- Stevens, Blamey, Temascaltepec, Mexico. Hydraulically-operated diaphragm pump. 1,627,257; May 3.
- Stevens, Burd D., Evanston, assignor of three-fourths to W. V. Kelley, Chicago, Ill. Carburetor. 1,646,043; Oct. 18.
- Stevens, Charles E., San Rafael, Calif. Paper box and blank. 1,651,848; Dec. 6.
- Stevens, Clarence E., Kingston, Pa. Steadying device for vehicle wheels. 1,648,627; Nov. 8.
- Stevens, Clement H., High Wycombe, England. Pneumatically-operated percussive hand tool. 1,621,382; Mar. 15.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic hammer. 1,615,890; Feb. 1.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Throttle handle for fluid-pressure tools. 1,616,929; Feb. 8.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Fluid-pressure hammer. 1,617,969; Feb. 15.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic percussive tool. 1,628,845; May 24.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Fluid-pressure-operated hammer. 1,634,729; July 5.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Tool raiser. 1,651,417; Dec. 6.
- Stevens Engineering and Construction Company. (See Roop, C. E., Diekmeyer, and Barutio, assignors.)
- Stevens, Francis M. (See Stevens, Augustus R. and F. M.)
- Stevens, Frank H. (See Abrams, H. J., Liddicoat, and Stevens.)
- Stevens, Frank W., assignor to H. C. Veno, Newton, Mass. Form for concrete structures. 1,621,563; Mar. 22.
- Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,625,833; Apr. 26.
- Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,636,334; July 19.
- Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,649,787; Nov. 15.
- Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,649,788; Nov. 15.
- Stevens, Frederick A., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,649,789; Nov. 15.

- Stevens, Frederick A., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,649,790; Nov. 15.
- Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,649,794; Nov. 15.
- Stevens, Frederick A., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,649,795; Nov. 15.
- Stevens, Frederick A., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,649,796; Nov. 15.
- Stevens, Frederick A., and J. W. Welch, Providence, R. I., assignors, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting and method. 1,643,909; Sept. 27.
- Stevens, Harry, Bangor, Me. Music-leaf turner. 1,617,185; Feb. 8.
- Stevens, Harry L. (See Voelkel, George W., assignor.)
- Stevens, Harry P., New York, N. Y. Movable door panel. 1,627,579; May 10.
- Stevens, Harry S., assignor to D. Durham, Los Angeles, Calif. Floor polisher. 1,616,767; Feb. 8.
- Stevens, Horace D. (See Fitt, E. D., and Stevens.)
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Valve-hole-punching machine for inner tubes. 1,622,256; Mar. 22.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tube-stock-cutting apparatus. 1,622,257; Mar. 22.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Flap cutting and measuring machine. 1,625,403; Apr. 19.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for deflating tubes. 1,629,128; May 17.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for wrapping tire tape or the like. 1,634,919; July 5.
- Stevens, J. & B., Company, The. (See Frisbie, Russell A., assignor.)
- Stevens, James L., Hayden, Ariz. Concentration of ores. 1,614,089; Jan. 11.
- Stevens, Jerry W., assignor to Northwest Paper Company, Cloquet, Minn. Apparatus for and method of screening pulp. 1,629,812; May 24.
- Stevens, John A., assignor to Stevens Products Company, Lowell, Mass. Shock absorber. 1,653,317; Dec. 20.
- Stevens, John C., assignor to Leupold, Volpel & Co., Portland, Ore. Double-base-line attachment for water-level recorders. 1,614,264; Jan. 11.
- Stevens, Le Roy W., Chicago, Ill. Building block. 1,639,063; Aug. 16.
- Stevens, Leslie, Glen Ridge, N. J. Sound amplifier. 1,644,795; Oct. 11.
- Stevens, Louis W., Boston, Mass. Grease package. 1,646,264; Oct. 18.
- Stevens, M. T., and Sons Company. (See Stone, George, assignor.)
- Stevens, Nathaniel D., Hazleton, Pa., and L. H. Rosheim, assignors to M. H. Detrick Company, Chicago, Ill. Furnace-arch construction. 1,628,284; May 10.
- Stevens, Percy H., assignor to Smith, Major & Stevens Limited, Abbey Works, Northampton, England. Control of polyphase electromotors. 1,645,827; Oct. 18.
- Stevens Products Company. (See Stevens, John A., assignor.)
- Stevens, Robert C., Erie, Pa. Releasing poppet-valve gear. 1,613,581; Jan. 4.
- Stevens, Royale H. (See Gepp, H. W., Hey, Rigg, Stevens, and Williams.)
- Stevens, Sylvester G., Duluth, Minn. Pyrotechnic. 1,645,206; Oct. 11.
- Stevens, Virgil A., Green Cove Springs, Fla. Garment presser and creaser. 1,629,230; May 17.
- Stevens Walden-Worcester, Incorporated. (See McGuckin, John J., assignor.)
- Stevens, Walter E., Akron, Ohio. Automobile heater. 1,642,631; Sept. 13.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bead-placing device. 1,630,722; May 31.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-stripping machine. 1,634,920; July 5.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for covering tire beads. 1,635,647; July 12.
- Stevens, William G., jr., New York, N. Y. Coupling. 1,635,144; July 5.
- Stevens, Ashton G., Chicago, Ill. Slug-casting machine. 1,617,610; Feb. 15.
- Stevenson, Clarence M., Los Angeles, Calif., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic test-lens frame. 1,631,559; June 7.
- Stevenson Company. (See Hibbins, Thomas A., assignor.)
- Stevenson Company, The. (See Hibbins, Thomas A., assignor.)
- Stevenson, Donald M., Portland, Ore. Load moving and raising and lowering means. 1,646,119; Oct. 18.
- Stevenson, Earl P., Newton, assignor to Arthur D. Little, Inc., Cambridge, Mass. Producing sodium fluoride. 1,624,122; June 28.
- Stevenson, Edward. (See Scott, William R., assignor.)
- Stevenson, Edward E. (See Burgess, L. P., and Stevenson.)
- Stevenson, George, Toronto, Ontario, Canada. House construction. 1,632,421; June 14.
- Stevenson, George H., assignor to Western Electric Company, Inc., New York, N. Y. Radio receiving apparatus. 1,612,952; Jan. 4.
- Stevenson, George M., Baltimore, Md. Process of and machine for making ferules. 1,629,813; May 24.
- Stevenson, Harry, Kearney, assignor to Brandes Laboratories, Inc., Newark, N. J. Electromagnetic sound reproducer. 1,619,161; Mar. 1.
- Stevenson, Ralph D., Hubbard, Ohio. Magazine pencil. 1,652,256; Dec. 13.
- Stevenson, Reston. (See Parsons, C. E., and Stevenson.)
- Stevenson, Thomas K., assignor to Francis Van Blarcom, New York, N. Y. Gear-wheel holder. 1,645,669; Oct. 15.
- Stevenson, William, Dunedin Otago, New Zealand. Fuel atomizer. 1,630,410; May 31.
- Stevenson, William, Morrilton, N. J. Tappet for internal-combustion engines. 1,634,276; July 5.
- Stevenson, William B., Philadelphia, Pa., assignor to Victor Talking Machine Company. Composite radiopaque (sound) modifier. 1,652,257; Dec. 13.
- Steventon, Alfred T., Richmond, England. Holder for cigarette lighters. 1,651,418; Dec. 6.
- Steward, Alden A., Rutland, Vt. Burner igniter. 1,646,503; Oct. 25.
- Steward Davit & Equipment Corporation. (See Hills, Harry B., assignor.)
- Steward, John M., Salem, Ore. Planter. 1,613,542; Jan. 4.
- Steward, William J., Boston, Mass. Collapsible chair and easel. 1,619,381; Mar. 1.
- Steward, William J., Jamaica Plain, Mass. Collapsible chair and easel. 1,640,380; Aug. 30.
- Steward, Alexander, Denver, Colo. Rotary bit for drilling wells. 1,637,594; Aug. 2.
- Steward, Alexander, Roselle, assignor to C. L. Constant Company, Hoboken, N. J. Treating discarded lead battery plates. 1,627,351; May 3.
- Steward, Alfred C., Pasadena, Calif. Rotary pump. 1,641,509; Sept. 6.
- Steward, Alonzo B., Rushville, Ind. Self-guiding and riding cultivator. 1,626,888; May 3.
- Steward, Anne H., Cleveland, Ohio. Base frame for primary educational work and play. 1,627,211; May 3.
- Steward, Archie A. and J. H., Waterloo, Iowa. Centrifugal coumbout. 1,643,097; Sept. 20.
- Steward, Cecelia H., Pittsburgh, Pa. Cover casing for match packages. Des. 72,581; May 3.
- Steward, Charles L., Jacksonville, Ala. Rim for automobile wheels. 1,637,880; Aug. 2.
- Steward, Charles M. (See Peebles, J. B., and Stewart.)
- Steward, Charles P., Pee Dee, N. C. Compensating mechanism for concrete-pipe machines. 1,648,788; Nov. 8.
- Steward, Charles, and W. A. Russell, Rushville, Ind. Traffic guide. 1,651,301; Nov. 29.
- Steward, Claudius. (See Thomas A., and Stewart.)
- Steward, David. (See Rummer, John C., assignor.)
- Steward, David A., Listowel, Ontario, Canada. Internal-combustion engine. 1,645,309; Oct. 11.
- Steward, David H., and G. W. Nelson, assignors to Stewart Machine Co., Kent, Ohio. Vending machine. 1,621,960; Mar. 22.
- Steward, Frank H., Philadelphia, Pa., assignor to L. B. Eppstein, J. Wilzin, and J. B. Gordatoski, New York, N. Y., syndicate managers of The Cum-art Syndicate, New York, N. Y. Apparatus for building tire casings. 1,627,212; May 3.
- Steward, Frank T. and W. W., Sacramento, Calif. Liquid sprayer. 1,622,213; Mar. 22.
- Steward, Franklin W., Chicago, Ill. Steering-wheel lock for automobiles. 1,631,436; June 7.
- Steward, Fred W., assignor to United States Glass Company, Pittsburgh, Pa. Light shade or similar article. Des. 72,457; Apr. 12.
- Steward, Gayle D., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 72,873; June 14.
- Steward, George B., Ottawa, Ontario, Canada. Geometrical device. 1,615,180; Jan. 18.
- Steward, Helen A., Gulfport, Miss. Garment supporter. 1,645,121; Oct. 11.
- Steward, Henry A., and F. L. Holt, Tullahoma, Tenn. Clutch control for tractors. 1,629,550; May 24.
- Steward, Henry C., assignor to The Westmoreland Chemical & Color Company, Philadelphia, Pa. Manufacturing process lamp. 1,642,975; Sept. 20.
- Steward, James A., assignor to American Can Company, New York, N. Y. Can. 1,635,509; July 12.
- Steward, James G., Minneapolis, Minn. Rolling window screen. 1,613,967; Jan. 11.
- Steward, James M. (See Cassels, Arnold V., assignor.)
- Steward, James M., Brisbane, Queensland, Australia. Glass lamp. 1,637,429; Aug. 2.
- Steward, James R., Chicago, Ill. Combined peg head and neck for a stringed musical instrument. Des. 71,938; Jan. 25.

- Stewart, John, New York, N. Y. Cleaning device for distributor heads. 1,636,083; July 19.
- Stewart, John H. (See Bailey, Charles W., assignor.)
- Stewart, John H. (See Stewart, Archie A. and J. H.)
- Stewart, John H., Cincinnati, Ohio. Control system for fuel burners. 1,654,194; Dec. 27.
- Stewart, John M., Clarendon, Va. Electrical condenser. 1,632,362; June 14.
- Stewart, Laurence G., St. Louis, Mo. Ring. Des. 73,076; Oct. 18.
- Stewart, Leon E., Newkirk, Okla. Camper's apartment. 1,644,406; Oct. 6.
- Stewart, Lincoln E., Guerneville, Calif. Baseball-game apparatus. 1,642,093; Sept. 13.
- Stewart, M. H., et al. (See Patterson, Roy G., assignor.)
- Stewart Machine Co. (See Stewart, D. H., and Nelson, assignors.)
- Stewart Manufacturing Corporation. (See Carlson, Eric, assignor.)
- Stewart Manufacturing Company. (See Groves, Lucian S., assignor.)
- Stewart Manufacturing Corporation. (See Snyder, Herbert C., assignor.)
- Stewart, Robert, New York, N. Y. Dispensing container. 1,619,770; Mar. 1.
- Stewart, Robert, New York, N. Y. Liquid dispenser and applicator. 1,646,324; Oct. 18.
- Stewart, Robert D., deceased, Cleveland, N. Dak., The First National Bank, administrator, Arlington, S. Dak. Gate lock. 1,642,978; Sept. 20.
- Stewart, Robert H., Vancouver, British Columbia, Canada, assignor to Texas Gulf Sulphur Company, New York, N. Y. Mining of sulphur. 1,615,050; Jan. 18.
- Stewart, Robert H., Vancouver, British Columbia, Canada, assignor to Texas Gulf Sulphur Company, New York, N. Y. Mining of sulphur. 1,615,051; Jan. 18.
- Stewart, Robert M. (See Nelson, Heber S., assignor.)
- Stewart, Stanley B., Centralia, Wash. Choker hook. 1,615,528; Jan. 25.
- Stewart, Walter W. (See Stewart, Frank T. and W. W.)
- Stewart-Warner Speedometer Corporation. (See Chase, Wilfred C., assignor.)
- Stewart-Warner Speedometer Corporation. (See Hedemark, Edward L., assignor.)
- Stewart-Warner Speedometer Corporation. (See Olsen, John K., assignor.)
- Stewart-Warner Speedometer Corporation. (See Parker, Leonard E., assignor.)
- Stewart-Warner Speedometer Corporation. (See Rockwell, Edward A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Ross, Frank A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Schulze, William H., assignor.)
- Stewart-Warner Speedometer Corporation. (See Schweisshel, Fred G., assignor.)
- Stewart-Warner Speedometer Corporation. (See Seales, Volney A., assignor.)
- Stewart-Warner Speedometer Corp. (See Sussin, Victor, assignor.)
- Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)
- Stewart-Warner Speedometer Corporation. (See Wheeler, Leonard H., assignor.)
- Stewart-Warner Speedometer Corporation. (See Whittington, Frederick G., assignor.)
- Stewart, William E., Nashville, Tenn. Fountain pen. 1,651,047; Nov. 29.
- Stewart, William E., assignor to Eisele & Company, Nashville, Tenn. Fastening device for caps. 1,614,048; Jan. 11.
- Stewart, William E., assignor to Eisele & Company, Nashville, Tenn. Fastening means for clinical-thermometer caps. 1,614,807; Jan. 18.
- Stewart, William G., Cleveland, Ohio. Compression apparatus. 1,628,689; May 17.
- Stibium Products Company, The. (See Stark, Rawson E., assignor.)
- Stich, Ferdinand, New York, N. Y. Wave motor. 1,647,025; Oct. 25.
- Sticht, Claude M., Detroit, Mich. Dispensing carton. Des. 73,074; Nov. 8.
- Stickdora, Robert, Munich, Germany. Flush device for water-closets. 1,629,421; May 17.
- Stickle, Frederick, Chicago, Ill. Air gauge. 1,613,582; Jan. 4.
- Stickle, Frederick A., assignor to The National Screen & Manufacturing Company, Cincinnati, Ohio. Window-screen holder. 1,638,205; July 19.
- Stickler, Eugene N., New York, N. Y. Gauge. 1,654,388; Dec. 27.
- Stickless Pan Company. (See Lichter and Jacobs, assignors.)
- Stickney, Alpheus B. (See Stickney, Charles A. and Stickney, Burnham C., Rutherford, N. J. Internal-combustion engine. 1,628,442; May 10.
- Stickney, Burnham C., Rutherford, N. J. Internal-combustion engine. 1,632,517; June 14.
- Stickney, Burnham C., Rutherford, N. J. Gas engine. 1,641,105; Aug. 30.
- Stickney, Burnham C., Rutherford, N. J. Internal-combustion engine. 1,641,787; Sept. 6.
- Stickney, Burnham C., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,626,124; Apr. 26.
- Stickney, Burnham C., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,626,641; May 3.
- Stickney, Burnham C., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,629,129; May 17.
- Stickney, Burnham C., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,651,740; Dec. 6.
- Stickney, Burnham C., Portsmouth, N. H., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,651,419; Dec. 6.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,651,739; Dec. 6.
- Stickney, Charles A., assignor to Rockford Drilling Machine Company, Rockford, Ill. Shock absorber. 1,642,802; Sept. 20.
- Stickney, Charles A., assignor to Rockford Drilling Machine Company, Rockford, Ill. Friction clutch. 1,645,780; Oct. 18.
- Stickney, Charles A., Rockford, Ill., assignor to The National Automatic Tool Company, Richmond, Ind. Rotatable work support for machine tools. 1,653,318; Dec. 20.
- Stickney, Charles A., Rockford, Ill., and A. B. Stickney, New Haven, Conn. Maintaining a predetermined temperature. 1,637,756; Aug. 2.
- Stiebel, Theodor, Berlin, Germany. Mechanically-driven type-rod typewriter. 1,638,602; Aug. 9.
- Stiebel, Ralph C., Ellwood City, Pa. Tube-forming mill. 1,622,744; Mar. 29.
- Stiebel, Ralph C., Ellwood City, Pa. Universal coupling. 1,643,794; Sept. 27.
- Stieglitz, Konrad, Cassel, Germany. Syringe with glass piston. 1,644,801; Oct. 11.
- Stieglitz, Konrad, Cassel, Germany. Double-spool pliers for surgical operations. 1,649,423; Nov. 15.
- Stiehm, Louis F., Rollingstone, Minn. Liquid strainer. 1,630,223; May 24.
- Stiel, Wilhelm, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y. Wood grider. 1,614,162; Jan. 11.
- Stieler, Heinrich, Frankfurt-on-the-Main, Germany. Fire-lighting device. 1,652,288; Dec. 13.
- Stiemke, Walter H. (See Jett, George C., assignor.)
- Stier, Eugene A., near Dayton, Ohio. Figure wheeled toy. 1,622,473; Mar. 29.
- Stier, John, Cleveland, Ohio. Game device. 1,634,564; July 5.
- Stierli, Otto. (See Heimgartner, C., and Stierli.)
- Stiffel, Theophile A., assignor to Ornamental Iron Products Co., Chicago, Ill. Lamp. Des. 73,111; July 19.
- Stigall, William H. (See Chandler, T. H., and Stigall.)
- Stigers, Chesley E., Marshall, Okla. Rim. 1,641,399; Sept. 6.
- Stiles, Charles, Altoona, Kans. Signal. 1,639,907; Aug. 23.
- Stiles, Charles A. (See Largent, W. W., and Stiles.)
- Stiles, George H., Spokane, Wash. Vehicle lamp. 1,643,963; Oct. 4.
- Stiles, Thomas G., Arlington, N. J. Rail bond. 1,643,755; Sept. 27.
- Stilgenbauer, Glenn W., Shepherd, Mich. Cultivator. 1,625,384; Apr. 26.
- Still, Carl, assignor to the Firm: Carl Still, Recklinghausen, Germany. Saturating receptacle. 1,639,709; Aug. 23.
- Still, Elmer G., Livermore, Calif. Aviation device. 1,634,239; June 28.
- Still, Firm: Carl. (See Still, Carl, assignor.)
- Stillman, Job M. A., Niagara Falls, N. Y. Preparing Urea. 1,614,698; Jan. 18.
- Stillman, Job M. A., Niagara Falls, N. Y. Treatment of lime nitrogen. 1,633,200; June 21.
- Stillman, G. Wayne, et al. (See Wardell, John W., assignor.)
- Stillman, John, et al. (See Wardell, John W., assignor.)
- Stillwell, Albert G., Coscob, Conn. Producing fertilizer. 1,622,684; Mar. 29.
- Stillwell, Richard O., and C. H. Christie, assignors to Standard Plate Glass Company, Butler, Pa. Process of and apparatus for making sheet glass. 1,637,881; Aug. 2.
- Stilz, Joseph. (See Viezzi, Luigi, assignor.)
- Stinson, Frederick C., assignor to The Casey-Hedger Co., Chattanooga, Tenn. Water tube boiler. 1,628,005; May 10.
- Stimpson, Charles J., Bronxville, N. Y. Sash-cord fastener. 1,654,274; Dec. 27.
- Stimpson, Edward B., Company. (See Rau, Henry V., assignor.)
- Stimpson, Edwin B., Company. (See Stimpson, Edwin B., assignor.)
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,614,937; Jan. 18.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Bolt and nut assembly. 1,616,268; Feb. 1.

- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,629,847; May 24.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-setting machine. 1,635,865; July 12.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-setting machine. 1,646,072; Oct. 18.
- Stimpson, Edwin B., assignor to E. B. Stimpson Company, Brooklyn, N. Y. Rivet-setting machine. 1,651,976; Dec. 6.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-setting machine. 1,651,977; Dec. 6.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Machine for feeding and driving linking hooks and the like. 1,653,674; Dec. 27.
- Stimpson, Edwin B., and H. V. Rau, assignors to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting-machine pocket. 1,629,846; May 24.
- Stimpson, Edwin B., Company. (See Stimpson, E. B., and Rau, assignors.)
- Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Loom temple roll. 1,621,177; Mar. 15.
- Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading shuttle for looms. 1,649,624; Nov. 15.
- Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Bobbin-cleaner attachment for replenishing looms. 1,654,472; Dec. 27.
- Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing-loom bobbin cleaner. 1,654,473; Dec. 27.
- Stimpson, Walter F. (See Hartman, Charles H., assignor.)
- Stimpson, Walter F., Louisville, Ky. Scale. 1,624,995; Apr. 19.
- Stimpson, Walter F., and W. E. Finch, Louisville, Ky.; said Finch assignor to said Stimpson. Thermostatic adjusting mechanism for scales. 1,647,378; Nov. 1.
- Stinson, Annie W. Los Angeles, Calif. Morning gown. 1,630,140; Mar. 8.
- Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Laminated film which includes a layer of polymerized vinyl chloride. 1,627,935; May 10.
- Stinnes, Hugo, Riebeck, Montan and Oiwere Akt. Ges. (See Hellthaler, Theodor, assignor.)
- Stinson, Alexander J., Elgin, Ariz. Music-teaching device. 1,619,683; Mar. 1.
- Stinson, George, Gardner, assignor to Heywood-Wakefield Company, Boston, Mass. Baby-carriage gear. 1,643,910; Sept. 27.
- Stinson, Lewis A., Chicago, Ill. Material-conveying apparatus. 1,649,867; Nov. 22.
- Stipech, Andrew, Flint, Mich. Direction signal for automobiles. 1,617,035; Feb. 8.
- Striss, Jacob, Brooklyn, N. Y. Envelope machine. 1,613,915; Jan. 11.
- Striss, Jacob, New York, assignor to The Larvex Corporation, Brooklyn, N. Y. Atomizer. 1,623,504; Apr. 5.
- Striss, Jacob, New York, assignor to The Larvex Corporation, Brooklyn, N. Y. Nozzle for atomizers. 1,630,278; May 31.
- Striss, Jacob, New York, assignor to The Larvex Corporation, Brooklyn, N. Y. Bottle cap or closure. 1,643,964; Oct. 4.
- Striss, Jacob, New York, assignor to The Larvex Corporation, Brooklyn, N. Y. Bottle cap or closure. 1,643,965; Oct. 4.
- Strilen, Eugene D., Muscatine, Iowa. Method and apparatus for determining hydrogen-ion concentration. 1,616,092; Feb. 1.
- Stirling, Charles P. (See Smith, D. A., and Stirling.)
- Stirling, David M., San Francisco, Calif. Tee for golf balls. 1,614,499; Jan. 15.
- Stitt, Charles M., assignor of one-third to A. McDonald, Los Angeles, and one-third to W. J. Reiter, Santa Monica, Calif. Picture. 1,627,468; May 3.
- Stitt, Walter C., et al. (See Nesmith, Samuel D., assignor.)
- Stokes, Harry A. T., Claverdon, near Warwick, England. Grass-cutting machine. 1,649,868; Nov. 22.
- Stokes, James D., Detroit, Mich., assignor to Superior Safety Furnace Pipe Company. Producing ornamented eaves. 1,642,903; Sept. 20.
- Stobbe, Rudolph H., St. Clairsville, Ohio. Automobile top and curtain construction. 1,629,935; May 24.
- Stobbe, Alfred (See Baentsch, F., and Stober.)
- Stobie, John W. (See Poirer, Ernest, assignor.)
- Stock, Anthony T., assignor to Delco-Light Company, Dayton, Ohio. Refrigerating apparatus. 1,631,345; June 7.
- Stock, George H., Falmouth, England. Vacuum jacketed disk. 1,616,512; Nov. 8.
- Stock, John B., Detroit, Mich. Reversible fan for cooling systems. 1,650,776; Nov. 29.
- Stock, Julius A., Cicero, assignor to W. C. Ritchie & Company, Chicago, Ill. Thumb-hole-cutting machine. 1,620,299; Mar. 8.
- Stock, Julius A., Cicero, assignor to W. C. Ritchie & Company, Chicago, Ill. Capping machine. 1,624,286; Apr. 12.
- Stock Motorpflug Aktiengesellschaft. (See Jerezek, Viktor, assignor.)
- Stock, Pauline. (See Wittek, Hermann, assignor.)
- Stockade Building System, Inc. (See Fuller, Richard B., assignor.)
- Stockade Building System, Inc. (See Hewlett, J. M., and Fuller, assignors.)
- Stockemer, Ralph W., Dierks, Ark. Holding device for saw-mill carriages. 1,622,059; Mar. 22.
- Stocker, Ernst, Lucerne, Switzerland. Door closer. 1,629,596; May 24.
- Stocker, Elmer D., Eugene D., and J. C. Ledbetter, assignors to United States Hoffman Machinery Corporation, New York, N. Y. Pressing machine. 1,653,192; Dec. 20.
- Stocker, William M., Woodhaven, assignor to Cameron Machine Company, Brooklyn, N. Y. Winding means. 1,619,220; Mar. 1.
- Stocker, William M., Woodhaven, assignor to Cameron Machine Company, Brooklyn, N. Y. Winding machine. 1,620,044; Mar. 8.
- Stockfleth, Berger, Berlien Springs, and F. W. Burger, Niles, assignor to Clark Tractor Company, Buchanan, Mich. Portable elevating apparatus. 1,625,290; Apr. 19.
- Stockfleth, Berger, Berlien Springs, and F. W. Burger, Niles, assignors to Clark Tractor Company, Buchanan, Mich. Muffler for gas engines. 1,653,934; Dec. 27.
- Stockford, Alexander E., Los Angeles, Calif. Heavy duty trailer for trucks. 1,629,597; May 24.
- Stockholder, John H., New Orleans, La. Float-controlled valve. 1,641,240; Sept. 6.
- Stockholders Syndicate. (See Blumenberg, Henry, jr., assignor.)
- Stocking, Bert A., Audubon, assignor to F. R. Steelsmith, trustee, Des Moines, Iowa. Washing machine. 1,633,140; June 21.
- Stockinger, Franz, New York, N. Y. Photo-engraving process. 1,643,526; Sept. 27.
- Stockman, Maxwell, Kansas City, Mo. Radiator cap. Des. 72,972; June 28.
- Stockmans, Charles, Antwerp, Belgium. Loose-leaf ledger. 1,624,020; Apr. 12.
- Stoekmayer, Max. (See Loewenherz, S., and Stockmayer.)
- Stockov, Max, New York, N. Y. Wardrobe trunk. 1,613,731; Jan. 11.
- Stockov, Max, New York, N. Y. Wardrobe trunk. 1,613,732; Jan. 11.
- Stockstad, Harold E., Duluth, Minn. Safety hook. 1,626,642; May 3.
- Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Oven heat regulator. 1,617,871; Feb. 15.
- Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Gas range and burner therefor. 1,648,789; Nov. 8.
- Stockstrom, Louis, assignor to American Stove Company, St. Louis, Mo. Hydrocarbon stove and burner therefor. 1,614,854; Jan. 18.
- Stockton Box Company. (See Goff, Henry J., assignor.)
- Stockton, Charles G. (See Winters, Charles D., assignor.)
- Stockton, Richard, New York, N. Y. Combined cigarette holder and ash tray. 1,614,265; Jan. 11.
- Stockwell, Herbert C., Los Angeles, Calif. Mechanical theater censor. 1,618,488; Feb. 22.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Equalizer for automatic player pianos. 1,638,419; Aug. 9.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Dust-collecting valve mechanism for player pianos. 1,638,420; Aug. 9.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Pneumatic-valve mechanism. 1,648,075; Nov. 8.
- Stoddard, William B., Caldwell, N. J., and I. Hochstadter, Paterson, N. J. Forming sodium tungstate. 1,652,648; Dec. 13.
- Stoddard, Elliott J., Highland Park, Mich. Process and apparatus for germinating seed. 1,621,440; Mar. 15.
- Stoddard, Elliott J., Detroit, Mich. Radiator. 1,624,565; Apr. 12.
- Stoddart, Edwin W., New York, N. Y. Game target plate. 1,623,834; Apr. 5.
- Stoeckicht, Wilhelm, Munich-Solln, Germany. Shaft coupling. 1,637,663; Aug. 2.
- Stoeckicht, Wilhelm, Munich-Solln, Germany. Change-speed friction gearing. 1,637,664; Aug. 2.
- Stoeffler, Ralph F., St. Louis, Mo. Dental attachment. 1,614,325; Jan. 11.
- Stoehrer, Fred, Methuen, assignor to Stoehrer and Pratt Dodgem Corporation, Lawrence, Mass. Amusement device. 1,652,840; Dec. 13.
- Stoehrer and Pratt Dodgem Corporation. (See Stoehrer, Fred, assignor.)
- Stoekle, Erwin R., Milwaukee, Wis. Varying the electrical impedance of a circuit. 1,651,849; Dec. 6.
- Stoekle, Erwin R., Milwaukee, Wis. Variable resistance. 1,653,745; Dec. 27.
- Stoekle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Union of metallic bodies by fusion. 1,614,501; Jan. 18.
- Stoetzlen, Charles L., Erie, Pa., assignor to Burke Electric Company, Switch lock. 1,624,372; Apr. 12.
- Stoer, Bruno P., Cleveland, Ohio. Holder for laundry marking pins. 1,619,893; Mar. 8.

- Stoor, Charles E., London, England. Suspending and drawing curtains and the like. 1,649,371; Nov. 15.
- Stoetzel, Joseph J., Queens Village, assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Pneumatic-tube apparatus. 1,624,078; Apr. 12.
- Stoetzel, Joseph J., Queens Village, assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Single-tube pneumatic-dispatch unit. 1,626,214; Apr. 26.
- Stoetzel, Joseph J., New York, N. Y. Air-retulating valve. 1,647,755; Nov. 1.
- Stoewener, Fritz. (See Jannek, J., Wietzel, and Stoewener.)
- Stoffel, Fernand, Paris, France. Process and apparatus for the dyeing of belle-shaped felt pieces employed in hat manufacture. 1,614,408; Jan. 11.
- Stoffel, Martin, assignor of one-half to J. N. Miller, and Henry, Ill. Winch for barbed-wire spools. 1,648,568; Nov. 13.
- Stoffel, Oskar, Baden, Germany. Packing ring. 1,631,654; June 7.
- Stoglin, Clarence L., San Antonio, Tex. Shine stand. 1,617,507; Feb. 15.
- Stohlgren, Carl O., Rockton, Ill. Button-making machine. 1,641,462; Sept. 6.
- Stöhr, Miroslav, Prague, Czechoslovakia. Fire grate. 1,618,850; Feb. 22.
- Stoiberg, Anders J., assignor of forty-nine one-hundredths to Bain-Collins Company, Roundup, Mont. Railroad tie. 1,645,629; Oct. 18.
- Stolby, Ray L., Floral Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. 1,613,624; Jan. 11.
- Stokely, Ray L., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selector-switch circuits for step-by-step systems. 1,647,256; Nov. 1.
- Stokely, Ray L., Floral Park, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone-exchange system. 1,653,759; Dec. 27.
- Stoker, Hiram. (See Taylor, J. G., and Stoker.)
- Stokes, Charles L., Los Angeles, Calif. Descriptive mailing matter. 1,613,968; Jan. 11.
- Stokes, Jane G., Larchmont, assignor to Jane Gray Company, Inc., New York, N. Y. Doll or similar article. Des. 72,502; Apr. 19.
- Stokes, John S. (See Novotny, E. E., and Cary, assignors.)
- Stokes, John S. (See Novotny, E. E., and Romieux, assignors.)
- Stokes, John S., Huntington Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Assembling, tabbing, and applying composite box wrappers. 1,625,577; Apr. 19.
- Stokes, John S., Huntington Valley, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa. Box-wrapping system. 1,647,481; Nov. 1.
- Stokes, Oscar E. (See Williamson, Fred H., assignor.)
- Stokes, Oscar E. (See Williamson, F., and Runnels, assignors.)
- Stokes, Oscar E., Streator, Ill. Bumper. 1,631,653; June 7.
- Stokes, Oscar E., Streator, Ill. Washing machine. 1,642,700; Sept. 20.
- Stokes & Smith Company. (See Bridgman, Harry, assignor.)
- Stokes and Smith Company. (See Sonneborn, John R., assignor.)
- Stokes and Smith Company. (See Stokes, John S., assignor.)
- Stokes and Smith Company. (See Streeper, William H., assignor.)
- Stokes, Thomas J., assignor of one-half to H. O. Nelson, Jefferson, Tex. Air valve. 1,624,021; Apr. 12.
- Stokesberry, Horace, Guilford Township, Hendricks County, Ind. Pipe coupling. 1,646,463; Oct. 25.
- Stoll, Arthur, Arlesheim, near Basel, and W. Kussmaul, Basel, assignors to the Firm Chemical Works formerly Sandoz, Basel, Switzerland. Oxidation of aldoses. 1,648,368; Nov. 8.
- Stoll, Berry V., Louisville, Ky. Rotary toothbrush. 1,631,897; June 7.
- Stoll, Charles A., Kane, Pa. Warm-air generator. 1,632,250; June 14.
- Stoll, Frank M., assignor to Stoll Manufacturing Company, Denver, Colo. Tent. 1,639,755; Aug. 23.
- Stoll, Henry C., and H. L. Schroder, assignors of one-third to H. B. Kanter and one-third to P. S. McLean, New York, N. Y., and one-third to said Schroder. Phonograph. 1,628,285; May 10.
- Stoll, Herman, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich. Piston-ring groove. 1,619,993; Mar. 8.
- Stoll, Karl, Mamaroneck, and E. C. Meyer, Larchmont, assignors to Pure Food Factory "Hausa," Mamaroneck, N. Y. Shaping plastic material. 1,647,756; Nov. 1.
- Stoll Manufacturing Company. (See Stoll, Frank M., assignor.)
- Stollberg, Carl, Berlin, Germany. Coupling for railway cars. 1,629,551; May 24.
- Stolper, Charles, assignor to American Can Company, New York, N. Y. Can body and forming the side seam thereof. 1,625,229; Apr. 19.
- Stoller, Hugh M., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Dynamo-electric machine. 1,613,625; Jan. 11.
- Stoller, Hugh M., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control regulator. 1,624,566; Apr. 12.
- Stoller, Hugh M., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Dynamo-electric machine. 1,641,359; Sept. 6.
- Stolp, Frank H. (See Fedders, J. M., and Stolp.)
- Stolp, Frank H., Geneva, N. Y. Radiator. 1,613,253; Jan. 4.
- Stolp, Samuel S., assignor to C. B. Gillson, Chicago, Ill. Direct-current track circuit for railway signals. 1,626,643; May 3.
- Stolpe, Frederick J., Chicago, Ill. Shock-absorbing means. 1,634,522; July 5.
- Stoltz, Benjamin, and D. A. Lillie, Montpelier, Ind. Apparatus for making packing cups. 1,622,685; Mar. 29.
- Stoltz, Charles E., assignor to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Multiple fuse. 1,616,148; Feb. 1.
- Stolz, Joseph, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Leading-in bushing for high voltages. 1,651,234; Nov. 29.
- Stone, Andrew J., Paris, France. Golf tee. 1,633,686; June 28.
- Stone, B. A., et al. (See Nix, Neely, assignor.)
- Stone, Bertha E., Great Falls, Mont. Feeder. 1,630,982; May 31.
- Stone, Charles B. (See Clark, T. E., and Stone.)
- Stone, Charles H. (See Reilly, J. B., and Stone.)
- Stone, David, New Rochelle, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Winding machine. 1,627,213; May 3.
- Stone, Edward N., Ogden, Utah, assignor of one-half to Cresson-Morris Company, Philadelphia, Pa. Screen wall for centrifugal baskets. 1,624,287; Apr. 12.
- Stone, Edward N., Ogden, Utah, assignor to Cresson-Morris Company, Philadelphia, Pa. Screen wall for centrifugal baskets. 1,624,288; Apr. 12.
- Stone, Fred, Rosalia, Wash. Combination cigarette or cigar and match. 1,635,967; July 12.
- Stone, Fred G., Manchester, N. H., assignor to Stone Surface Washer Company, Inc., North Andover, Mass. Surface washer. 1,620,693; Mar. 15.
- Stone, Frederick W., Montreal, Quebec, Canada, assignor to Central Commercial Company. Sound record. 1,623,285; Apr. 5.
- Stone, George, assignor to M. T. Stevens and Sons Company, New Bedford, Mass. Apparatus for cleaning cloth. 1,628,690; May 17.
- Stone, George F. A., London, England. Electrical condenser. 1,623,563; Apr. 5.
- Stone, George M., Griswold, Iowa. Power-transmission mechanism for motor vehicles. 1,631,837; June 7.
- Stone, George W., assignor to National Auto Body Works, San Francisco, Calif. Tractor coupling device. 1,637,665; Aug. 2.
- Stone, Gunnard, assignor of one-third to A. Pearson, Island Park, Idaho. Pipe sleeve. 1,649,752; Nov. 15.
- Stone, Harry, Chicago, Ill. Lamp shade. Des. 73,625; Oct. 11.
- Stone, Harry, assignor of one-half to H. Jacobson, New York, N. Y. Safety switch control. 1,645,028; Oct. 11.
- Stone, Herbert A., Chicago, Ill. Aquarium. 1,643,527; Sept. 27.
- Stone, J. F., and Company. (See Darker, Alfred H., assignor.)
- Stone, Jacob M., assignor to L. F. Stone, Breckenridge, Tex. Dust cap. 1,622,358; Mar. 29.
- Stone, John H., Buffalo, N. Y. Awning fastener. 1,613,555; Jan. 11.
- Stone, John M., assignor to The Operadio Corporation, Chicago, Ill. Loop antenna. 1,613,355; Jan. 11.
- Stone, John S., San Diego, Calif., assignor to American Telephone and Telegraph Company. Directive antenna array. 1,643,323; Sept. 27.
- Stone, Joseph, Bessemer, Ala. Mold-ramming machine. 1,620,406; Mar. 8.
- Stone, Lester, E. (See Stone, Jacob M., assignor.)
- Stone, Lester V., Augusta, assignor of one-fourth to J. R. Good and one-fourth to M. C. B. Holley, Augusta, Ga. Gauge cock. 1,616,287; Feb. 1.
- Stone, Peter, Detroit, Mich. Internal-combustion engine. 1,649,869; Nov. 22.
- Stone, Peter P., et al. (See Blanc, Adolph I., assignor.)
- Stone, Rufus M., Oklahoma City, Okla. Burner. 1,644,617; Oct. 4.
- Stone, Samuel, Miles City, Mont. Draining handle for stew kettles. 1,615,414; Jan. 25.
- Stone, Surface Washer Company. (See Stone, Fred G., assignor.)
- Stone, Thomas L., Newark, N. J., assignor to Hampden Glazed Paper and Card Company, Holyoke, N. Y. Cover paper or the like. Des. 72,291; Mar. 22.
- Stone, Thomas L., Newark, N. J., assignor to Hampden Glazed Paper and Card Company, Holyoke, Mass. Cover paper or the like. Des. 73,507; Nov. 8.
- Stone, Thomas W., assignor to Western Gas Construction Company, Fort Wayne, Ind. Gas-purifying apparatus. 1,632,251; June 14.
- Stone, Thomas W., assignor to Western Gas Construction Company, Fort Wayne, Ind. Oil-spraying device. 1,646,839; Oct. 25.

- Stone & Webster, Inc. (See Klein, August C., assignor.)
 Stone & Webster, Inc. (See Shippee, Allen E., assignor.)
 Stonebraker, Harold E., Rochester, N. Y. Gear-cutting machine. 1,647,257; Nov. 1.
 Stoneham, Cecil D., Lewisham, England. Apparatus for predicting the movements of moving bodies. 1,649,870; Nov. 22.
 Stonehill, Winaloe U., Cincinnati, Ohio. Automobile lamp. 1,644,696; Oct. 11.
 Stonequist, Arthur J. (See Stonequist, L. W., Rottum, and Stonequist.)
 Stonequist, Lawrence W., C. Rottum, and A. J. Stonequist, Chicago, Ill. Advertising device. 1,641,609; Sept. 6.
 Stoner, Charles M., assignor to The Wolf Company, Chambersburg, Pa. Pulverizer. 1,648,747; Nov. 8.
 Stoner, Frank, Lakewood, assignor to The Baker-Raulang Company, Cleveland, Ohio. Receptacle. 1,646,266; Oct. 18.
 Stoney Foundry Engineering and Equipment Co., The. (See Stoney, J. T. and Purwin, assignors.)
 Stoney, John T., Cleveland, Ohio. Automatic valve mechanism. 1,645,828; Oct. 18.
 Stoney, John T., Cleveland, Ohio. Apparatus for forming sand molds. 1,653,675; Dec. 27.
 Stoney, John T., and K. Purwin, assignors to The Stoney Foundry Engineering and Equipment Co., Cleveland, Ohio. Molding machine. 1,613,856; Jan. 11.
 Stooddy Company. (See Stooddy, Winston F., assignor.)
 Stooddy, Winston F., Whittier, Calif. Machine for making welding rods. 1,640,859; Aug. 30.
 Stooddy, Winston F., assignor to Stooddy Company, Whittier, Calif. Making welding rods and the resulting product. 1,629,743; May 24.
 Stoop, William J., Wheeling, W. Va. Mechanism for producing metal plates. 1,622,060; Mar. 22.
 Stoop, William J., Wheeling, W. Va. Normalizing furnace. 1,634,858; July 5.
 Stoop, William J., Wheeling, W. Va. Machine for opening sheet-metal packs. 1,647,061; Oct. 25.
 Stoppel, Albert W., Chicago, Ill. Blade-stropping device. 1,652,647; Dec. 13.
 Stopperless Water Bottle Company. (See Reach, Milton B., assignor.)
 Stoppel, Clarence A., Houston, Tex. Keyboard attachment for typesetting machines. 1,613,679; Jan. 11.
 Storad Manufacturing Company, The. (See Fleming, W. K. and Baehr, assignors.)
 Storch, Henry H. (See Gauger, A. W., and Storch.)
 Storch, Frederick W., Somerville, assignor to Standard Mailing Machines Company, Everett, Mass. Rotary printing device. 1,629,130; May 17.
 Storch, Walter, Berlin, Germany. Grinding device. 1,628,753; May 17.
 Storer, Norman W., and T. S. Scott, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Vehicle structure. 1,621,035; Mar. 15.
 Storey, John W., Irwin, Pa. Water heater. 1,618,735; Feb. 22.
 Storey, Leonidas P., St. Paul, Minn., assignor of one-half to Fire-Brick Arch Company, Incorporated. Expansion chamber for pumps. 1,647,757; Nov. 1.
 Storey, Norman C., Passaic, N. J. Vehicle. 1,623,214; Apr. 5.
 Storey, Oliver W., Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Dover, Del. Producing solid oxides of carbon. 1,639,982; Aug. 23.
 Storey, Oliver W., and G. T. Collinson, Madison, Wis., assignors to C. F. Burgess Laboratories, Inc., Dover, Del. Producing oxidized carbon. 1,639,981; Aug. 23.
 Storey, Ruth-Ellen, Pasadena, Calif. Child's harness. 1,651,561; Dec. 6.
 Stork, John, San Diego, Calif. Measuring device. 1,642,977; Sept. 20.
 Storlie, Ole O., Tacoma, Wash. Revolving valve-sleeve gas engine. 1,614,634; Jan. 18.
 Storlie, Ole O., Tacoma, Wash. Engine valve. 1,652,380; Dec. 13.
 Storm, Adolph, assignor of one-half to C. G. Strand, Minneapolis, Minn. Lead sight for firearms. 1,625,060; Apr. 19.
 Storms, Roy B., Indianapolis, Ind. Anti-mouth-breathing device. 1,629,892; May 24.
 Storey, Nelson Sd., Bozeman, Mont. Grease gun. 1,647,941; Nov. 1.
 Stos, Frank F., assignor of one-half to J. Krajewski, East Cleveland, Ohio. Curtain and shade support. 1,653,591; Dec. 20.
 Stotesbury & Miner. (See Hughes, Joseph D. E., assignor.)
 Stout, John H., Glen May, England. Laminated spring. 1,628,371; May 10.
 Stotz, G. m. b. H. Abt. der Brown, Boveri & Cie., A.-G. (See Schachtner, Heinrich, assignor.)
 Stouffer, Smith A., Kingview, Pa. Road machine. 1,623,964; Apr. 12.
 Stough, Sylvester L. (See Ashford, Alfred J., assignor.)
 Stoughton, Brandler, Bethlehem, Pa., assignor to Burrows Magnetic Equipment Corporation, Jersey City, N. J. Apparatus for testing magnetizable objects. 1,638,174; Aug. 9.
 Stout, Edward E. (See Weydell, Jarl M., assignor.)
 Stout, William B., Detroit, Mich. Gasoline tank. 1,616,008; Feb. 1.
 Stout, William B., Detroit, Mich. Toy. 1,616,513; Feb. 8.
 Stovall, William M., Port Angeles, Wash. Wrench. 1,638,891; Aug. 16.
 Stover, George H., New York, N. Y. Apparatus for handling bricks. 1,626,644; May 3.
 Stover-Lang Company. (See Lang, George H., assignor.)
 Stover, Paul A., assignor to The Stover Signal Engineering Company, Racine, Wis. Rear signal light for automobiles. 1,629,231; May 17.
 Stover, Paul A., assignor to The Stover Signal Engineering Company, Racine, Wis. Rear signal light for automobiles. 1,629,233; May 17.
 Stover Signal Engineering Company. (See Seidel, Emory P., assignor.)
 Stover Signal Engineering Company, The. (See Stover, Paul A., assignor.)
 Stow, Audley H., Charleston, W. Va., assignor to E. S. White, Caldwell, N. J. Brake for mine cars and other vehicles. 1,640,474; Aug. 30.
 Stow, Audley H., Charleston, W. Va., assignor to E. S. White, Caldwell, N. Y. Mine and other car. 1,643,687; Sept. 27.
 Stowe, Loyd R., St. Louis, Mo. Stoker. 1,627,715; May 10.
 Stowe, Loyd R., St. Louis, Mo. Water tube boiler. 1,627,871; May 10.
 Stowe, Loyd R., St. Louis, Mo. Heat-exchanging mechanism. 1,650,242; Nov. 22.
 Stowell, C. and J. M. Isaacs, Redding, Calif. Socket wrench. 1,615,201; Jan. 18.
 Stowell, Francis H., et al. (See Stowell, Francis H., assignor.)
 Stowell, Francis H., assignor to F. H. Stowell and H. H. Glick, Indianapolis, Ind. Window-sash holder. 1,643,614; Sept. 27.
 Stowell, Preston D., South Braintree, Mass. Wrench. 1,659,710; Aug. 23.
 Stowers, John L., Habana, Cuba. Device for opening and closing windows, shutters, and similar appliances. 1,614,500; Jan. 18.
 Stowers, John L., Habana, Cuba. Device for opening and closing windows, shutters, and similar appliances. 1,627,580; May 10.
 Stowers, John L., Atlantic City, N. J. Hair waver. 1,643,226; Sept. 20.
 Strachan, James M., North Acton, London, England. Sliding window of motor and other vehicles. 1,631,775; June 7.
 Strachan, James M., North Acton, London, England. Spring suspension of motor and other vehicle bodies. 1,652,841; Dec. 13.
 Strachan, Robert. (See Traill, R., and Strachan.)
 Strachan, Thomas H., assignor to Dayton Scale Company, Dayton, Ohio. Shipping attachment for weighing scales. 1,623,137; Apr. 5.
 Strachan, Thomas H., assignor to Dayton Scale Company, Dayton, Ohio. Zero-adjusting device for scales. 1,623,243; Nov. 22.
 Strachan, Thomas H., assignor to Dayton Scale Company, Dayton, Ohio. Spring scale. 1,650,913; Nov. 29.
 Strachota, Clarence A., St. Paul, Minn., assignor to Liptak Fire-Brick Arch Company, Chicago, Ill. Fire-arch structure. 1,626,982; May 3.
 Strachota, Clarence A., assignor to Liptak Fire-Brick Arch Company, Chicago, Ill. Furnace wall. 1,639,711; Aug. 23.
 Strack, Herman. (See Hausmann, P., and Strack.)
 Strack, Mat. (See Sokolowski, Peter, assignor.)
 Strader, Sansbury, Los Angeles, Calif. Scrubbing machine. 1,644,859; Oct. 11.
 Stradley, Early E. (See Ferriter, J. P., and Stradley.)
 Stradley, Royden E., Chicago, Ill. Toothbrush. Des. 33,244; Aug. 9.
 Streibly, Royden E., Chicago, Ill. Toothbrush. 1,632,859; June 21.
 Strahan, Harry J., New York, N. Y. Terminal testing unit for spark plugs. 1,650,546; Nov. 22.
 Strahan, James L., assignor to The Loudon Machinery Company, Fairfield, Iowa. Air control for ventilating systems. 1,623,286; Apr. 5.
 Straight, Halver R., Adel, Iowa. Ventilating device for farm buildings. 1,615,964; Feb. 1.
 Straight, Halver R., Adel, Iowa. Mechanism for transferring plastic blocks from one conveyor to another. 1,615,965; Feb. 1.
 Straight, Halver R., Adel, Iowa. Title cutter. 1,615,966; Feb. 1.
 Straight, Halver R., Adel, Iowa. Continuous pugging wet pan. 1,623,287; Apr. 5.
 Straight, Halver R., Adel, Iowa. Tunnel kiln. 1,633,829; June 28.
 Straight, Halver R., Adel, Iowa. Mechanism for handling building blocks and the like. 1,650,053; Nov. 22.
 Straightline Radio Corporation. (See Herman, Henry F., assignor.)
 Strait, Hosea H., Overland, Mo. Quoin. 1,632,422; June 14.
 Strait Hydro Carbon Oil Burner Company, The. (See Strait, Laclede C., assignor.)
 Strait, Laclede C., assignor to The Strait Hydro Carbon Oil Burner Company, Sacramento, Calif. Hydrocarbon oil burner. 1,639,064; Aug. 16.

- Straits, Joseph A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-regrooving tool. 1,631,941; June 7.
- Stratz, John F., assignor to National Aircroft Burner Company, Philadelphia, Pa. Fluid-control cock. 1,648,513; Nov. 8.
- Strand, Andrew, Minneapolis, Minn. Milk-bottle cover. 1,634,806; July 5.
- Strand, Andrew, Minneapolis, Minn. Internal-combustion engine. 1,644,845; Sept. 27.
- Strand, Carl, Mitchell, S. Dak. Tire-chain fastener. 1,642,701; Sept. 20.
- Strand, Carl, Mitchell, S. Dak. Hopple. 1,649,200; Nov. 15.
- Strand, Charles A., Chicago, Ill. Blade-sharpening mechanism. 1,628,754; May 17.
- Strand, Charles G. (See Storm, Adolph, assignor.)
- Strand, Eric J. (See Olson, Gustaf, assignor.)
- Strand, Henry, Cleveland, Ohio. Portable honing or lapping machine. 1,624,636; Apr. 12.
- Strand, Joseph, Los Angeles, Calif. Plaster board. 1,640,736; Aug. 30.
- Strand, Joseph, assignor to Klinch Lath Corporation, Los Angeles, Calif. Wall construction and metal member therefor. 1,612,993; Jan. 4.
- Strand, Joseph, assignor to Klinch Lath Corporation, Los Angeles, Calif. Wall-board-retaining member. 1,619,994; Mar. 8.
- Strand, Nels A., Evanston, Ill. Polishing or buffer wheel. 1,654,275; Dec. 27.
- Strandberg, Alvin C., assignor of one-half to O. S. Wiard, Kansas City, Mo. Brad. 1,634,632; July 5.
- Strangers, Julien, London, England, assignor to H. B. Kruger, New York, N. Y. Display stand. 1,625,436; Apr. 19.
- Strandgren, Carl B., Paris, France. Turbine-wheel propeller and motor. 1,639,908; Aug. 23.
- Strandlund, Carl G., Moline, assignor to Deere & Company, Moline, Ill. Cultivator. 1,633,215; Apr. 26.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Combined gauge wheel and colter. 1,628,372; May 10.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Lister plow and planter. 1,610,625; Aug. 30.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Wheeled plow. 1,641,706; Sept. 6.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Cultivator. 1,644,042; Oct. 4.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Draft device. 1,633,677; Dec. 27.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Draft-control mechanism for plows. 1,653,678; Dec. 27.
- Strandlund, Carl G., and T. Brown, assignors to Deere & Company, Moline, Ill. Draft device. 1,653,676; Dec. 27.
- Strang, John M., assignor to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Eyepiece-prism combination for use in range finders of the self-contained base type. 1,634,695; July 5.
- Strang, John M., assignor to Barr and Stroud Limited, Glasgow, Scotland. Periscope, telescope, and like observational instrument. 1,645,880; Oct. 18.
- Straszky, Emil. (See Clark, W. F., and Straszky.)
- Straszky, Emil, Warren, Pa., assignor to F. B. Rae, Jr., and E. G. Meister, Cleveland, Ohio. Thermostatic switch. 1,640,257; Aug. 23.
- Strassburger, William J. (See Hornbostel, H., and Strassburger.)
- Strasser, Albert, Rorschach, Switzerland. Manufacture of lead electrode for accumulators. 1,641,241; Sept. 6.
- Strassmann, Paul G., Crefeld, Germany. Closure for vertical retort. 1,646,322; Oct. 18.
- Strasswimer, Ferdinand, New York, N. Y. Necktie. 1,616,238; Feb. 1.
- Stratford, Charles W., San Francisco, Calif. Process of and apparatus for refining oils. 1,613,298; Jan. 4.
- Stratford, Herbert R., assignor to The Stratmore Company, Cleveland, Ohio. Surfacing. 1,648,663; Nov. 8.
- Stratman, Joseph T. (See Caruowsky, R. R., and Stratman.)
- Stratman, Joseph W., assignor to The Chas. W. Breneman Company, Cincinnati, Ohio. Window-shade cloth and constituting. 1,653,592; Dec. 27.
- Stratmore Company, The. (See Stratford, Herbert R., assignor.)
- Stratton, Fenton F., East Croydon, England. Carburetor. 1,636,793; July 26.
- Stratton, Fenton F., East Croydon, England. Carburetor for internal-combustion engines. 1,650,547; Nov. 22.
- Stratton, John F. O., Chicago, Ill. Flow meter. 1,626,216; Apr. 26.
- Stratton, John F. O., Chicago, Ill. Furnace. 1,640,056; Aug. 23.
- Stratton, John F. O., Chicago, Ill. Furnace. 1,640,158; Aug. 23.
- Straub, Christopher, East Elmhurst, N. Y., assignor, by mesne assignments, to Astoria Importing and Manufacturing Co. Inc. Control mechanism for veneer-cutting machines. 1,615,489; Jan. 25.
- Straub, Christopher, East Elmhurst, N. Y., assignor, by mesne assignments, to Astoria Importing and Manufacturing Co. Inc. Veneer-cutting machine. 1,626,365; Apr. 26.
- Straub, Christopher, East Elmhurst, N. Y., assignor to Astoria Importing and Manufacturing Co. Inc. Combined machine. 1,646,796; Oct. 25.
- Straub, Francis J., New Kensington, Pa. Block-making machine. 1,651,420; Dec. 6.
- Straub, Francis J., New Kensington, Pa. Stripper-block machine. 1,652,381; Dec. 13.
- Straub, Francis J., and J. T. Weinzierl, New Kensington, Pa. Gear-shifting mechanism for motor vehicles. 1,650,593; Nov. 22.
- Straub, Francis J., and J. T. Weinzierl, New Kensington, Pa. Gear-shifting mechanism for motor vehicles. 1,650,397; Nov. 22.
- Straub, Frank, Los Angeles, Calif. Thermostat. 1,622,932; June 21.
- Straub, Fritz. (See Gubler, H., Stahel, and Straub.)
- Straub, Fritz, assignor to the Firm: Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs containing chromium and making the same. 1,626,167; Apr. 26.
- Straub, Fritz, assignor to the Firm: Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs and making same. 1,626,168; Apr. 26.
- Straub, Fritz, assignor to the Firm: Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs containing chromium and making same. 1,626,169; Apr. 26.
- Straub, Fritz, Basel, and H. Schneider, Riehen, near Basel, assignors to the Firm: Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs and making same. 1,617,872; Feb. 15.
- Straub, Fritz, Basel, and Hermann Schneider, Riehen, near Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs and making same. 1,624,637; Apr. 12.
- Straub, Fritz, Basel, and H. Schneider, Riehen, near Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Chromable azo dyestuffs derived from formaldehyde sulphurous acid and nitrated 1-(azo naphthol)-2-hydroxy-naphthalene-4-sulphonic acid and making same. 1,633,874; June 28.
- Straub, John, Ashley, N. Dak. Bottle stopper. 1,654,389; Dec. 27.
- Straub, Joseph C., Berkeley, Calif., assignor to Hall-Scott Motor Car Co. Packing joint. 1,653,894; Dec. 27.
- Straub, Otto H., Kudalstadt, assignor to the Firm F. Ad. Richter & Cie. A. G., Baukastenfabrik, Rudolstadt, Thuring, Germany. Roof-tile beam for toy structures. 1,621,178; Mar. 15.
- Straube, Piano Company. (See Betz, William G., assignor.)
- Straubel, C. A., Company. (See Meyers, Julius R., assignor.)
- Strauch, Eugene, assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Electric switch. 1,615,245; Jan. 25.
- Straus, Harry H. (See Grupe, William F., assignor.)
- Strauss, Joseph K., Jamaica, assignor to the Ulman Manufacturing Company, Long Island City, N. Y. Frame for photographs, display cards, and the like. 1,634,921; July 5.
- Straus, Nathan, & Sons, Inc. (See Rampfel, Heinrich, assignor.)
- Strauss, Charles, Paris, France. Foldable comb. 1,638,930; Feb. 8.
- Strauss, Ferdinand, Corporation, The. (See Arden, Thomas R., assignor.)
- Strauss, Ferdinand, Corporation, The. (See Starke, Otto R., assignor.)
- Strauss, Ferdinand, Corporation, The. (See Strauss, F., and Starke, assignors.)
- Strauss, Ferdinand, and O. R. Starke, assignors to The Ferdinand Strauss Corporation, New York, N. Y. Tail-wigging toy. 1,639,442; Aug. 16.
- Strauss, Joseph B., Chicago, Ill. Bascule bridge. 1,615,891; Feb. 8.
- Strauss, Joseph B., Chicago, Ill. Yielding barrier for vehicles. 1,652,186; Dec. 13.
- Strauss, Joseph B., assignor of one-half to C. Weinfeld, Chicago, Ill. Concrete vehicle body. 1,633,141; June 21.
- Strauss, Nathan, & Sons, Inc. (See Kaufmann, Lou B., assignor.)
- Strauss, Norbert F., Milwaukee, Wis. Electric water heater. 1,614,974; Jan. 18.
- Strauss, Siegmund, and W. Brandt, Vienna, Austria. Method and means for measuring electrical resistance. 1,649,753; Nov. 15.
- Straussler, Nicholas, Piccadilly, England. Collapsible floating structure such as a boat, pontoon, seaplane float and temporary bridge. 1,650,914; Nov. 23.
- Strawn, Ervin E., assignor to A. S. Gilman, Cleveland, Ohio. Duplicating device. 1,623,366; Apr. 5.
- Strawn, Marion L. (See Ray, W. H., and Strawn.)
- Strawn, Nella B., Antonito, Colo. Washing machine. 1,626,714; Aug. 9.
- Straus, Joseph W., Forest, Ind. Nest. 1,638,374; Aug. 9.
- Strayer, Guy H., Belle Valley, Pa. Power-actuated bucket. 1,627,872; May 10.
- Strayer, Lawrence H., Kent, Ohio. Aeronautic toy. 1,625,167; Apr. 19.
- Strayer, Lawrence H., Kent, Ohio. Sounding-toy film burster. 1,632,518; June 14.
- Streator, Henry D., Galesburg, Mich. Pavement. 1,636,113; July 19.

- Streator, Henry D., Galesburg, Mich. Pavement. 1,636,114; July 9.
- Strecker, Andrew M., Phroso, Okla. Press-wheel boxing for grain drills. 1,624,022; Apr. 12.
- Strecker, Elmer G., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Meat clamp. 1,647,673; Nov. 1.
- Streep, Bert C., Normal, Ill. Cymbal holder for drums. 1,641,558; Sept. 6.
- Streper, Walter H., assignor to Stokes and Smith Company, Philadelphia, Pa. Structure for feeding cut-out sheets. 1,644,549; Oct. 4.
- Street, G. W., et al. (See Lewis, Claude L., assignor.)
- Street, Louis H., Olean, N. Y. Automatic sawmill. 1,648,920; Nov. 15.
- Streeter-Amey Weighing & Recording Company. (See Wiley, George G., assignor.)
- Strehlow, Oscar E., Evanston, Ill. Excavating. 1,644,288; Oct. 4.
- Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Car construction. 1,631,437; June 7.
- Streif, Harold K., St. Paul, Minn. Bottle rack. 1,620,407; Mar. 8.
- Streiff, Rudolph A., assignor to F. Kelper, Rochester, N. Y. Automobile mirror. 1,650,161; Nov. 22.
- Streine, Frank H., assignor to The Streine Tool and Manufacturing Company, New Bremen, Ohio. Automatic plate and sheet trimming and squaring machine. 1,629,238; Mar. 17.
- Streine Tool and Mfg. Co., The. (See Streine, Frank H., assignor.)
- Streit, Frank J., Cincinnati, Ohio. Can opening and closing device. 1,632,519; June 14.
- Streit, Max, Breslau, Germany. Change-spur gearing. 1,622,264; Mar. 22.
- Streitwolf, Karl, Frankfurt-on-the-Main, and J. Hallensleben, Höchst-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Complex metallic arsenobenzene compounds and making same. 1,616,204; Feb. 1.
- Streitz, George B., (See Blume, H. and Streitz.)
- Strelow, Walter, Berlin-Halensee, Germany. Swimming ring or belt. 1,648,970; Nov. 15.
- Stremel, Joseph, Everett, assignor of one-half to N. Schommers, Spokane, Wash. Operating head for obstruction removers. 1,616,833; Feb. 8.
- Stremple, Julius J., assignor of one-half to E. Foster, Leander, Tex. Adjustable roller bearing. 1,650,728; Nov. 29.
- Stresau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electrically-welded bubble tower. 1,630,037; May 24.
- Stresau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Arc welding. 1,638,892; Aug. 16.
- Stresau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Metallic arc welding. 1,643,227; Sept. 20.
- Stresau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Self-anchoring rivet. 1,647,062; Oct. 25.
- Stresau, Richard, Wauwatosa, and H. Woodhead, assignors to A. O. Smith Corporation, Milwaukee, Wis. Electrically-welded pipe coupling and making the same. 1,637,318; July 26.
- Stretch, Charles B., Brockton, Mass. Fringe and making. 1,637,882; Aug. 20.
- Streun, John A., assignor to Hardwicke-Ettert Company, Sherman, Tex. Hull and cotton separator and cleaner. 1,630,638; May 31.
- Stricker, William, assignor of one-half to A. Livingston, Kansas City, Mo. Drier. 1,646,223; Oct. 13.
- Strickland, Royce M., New Haven, Conn., assignor to The Geometric Tool Co. Self-opening die head. 1,639,712; Aug. 23.
- Strickler, George, Boise, Idaho. Repeating shotgun. 1,648,831; Nov. 8.
- Strickler, William H., Philadelphia, Pa., assignor of one-half to W. H. Dentzel, Philadelphia, Pa. Coaster-track structure. 1,642,275; Sept. 13.
- Strickler, William H., Philadelphia, Pa., assignor of one-half to W. H. Dentzel, Philadelphia, Pa. Coaster car and track therefor. 1,642,276; Sept. 13.
- Strid, Sven J., assignor to Fred Mathews, Chicago, Ill. Hand-brake booster. 1,612,994; Jan. 4.
- Strid, Sven J., assignor to F. Mathews, Chicago, Ill. Drop shaft for hoist brakes. 1,620,141; Mar. 8.
- Striely, Maurice E., Milburn, N. J., assignor to American Telephone and Telegraph Company. Program-selecting circuits. 1,629,552; May 24.
- Striely, Maurice E., and C. H. Fetter, Milburn, N. J., assignors to American Telephone and Telegraph Company. Equalization of transmission. 1,624,023; Apr. 12.
- Striffler, Gottlieb, Chicago, Ill. Heating furnace or stove. 1,626,054; Apr. 26.
- Strigl, Karl J., New York, N. Y. Roundabout. 1,641,707; Sept. 6.
- Stringer, Alfred E., Chicago, Ill. Pipe and testing plug therefor. 1,615,316; Jan. 25.
- Stringer, Alfred E., Chicago, Ill. Testing cover support and pipe therefor. 1,640,057; Aug. 23.
- Stringer, Alfred E., Chicago, Ill. Soil-pipe drainage system. 1,640,058; Aug. 23.
- Stringer, Hubert L., Rockbeare Hill, near Exeter, England. Apparatus for converting vibratory motion into rotary motion. 1,616,359; Feb. 1.
- Stringer, Melvin, Portstown, Pa. Forming band brakes. 1,619,549; Mar. 1.
- Stringer, Melvin, Portstown, Pa. Angle split rings. 1,621,961; Mar. 22.
- Stringer, Melvin, New York, N. Y. Spring action. 1,621,962; Mar. 22.
- Strling, John. (See Burkhalter, W. T. and Stripling.)
- Stripling, Leslie D., Big Spring, Tex. Tractor. 1,643,098; Sept. 20.
- Stripling, Leslie D., Big Springs, Tex. Axle for tractors. 1,648,076; Nov. 8.
- Stripling, Luke S., assignor of one-half to R. L. Gragg, Burkettsburg, Tex. Windmill. 1,632,322; June 14.
- Strite, George T., et al. (See Travers, Charles J., assignor.)
- Strite, George T., Minneapolis, Minn., assignor of one-third to H. W. Bolens, Port Washington, and one-third to P. D. Durant, Milwaukee, Wis. Cultivating means. 1,641,207; Sept. 6.
- Strizich, Thomas H. (See Heinson, Ernest T., assignor.)
- Strobel, Francis J., Philadelphia, Pa. Muffler attachment for telephones. 1,628,075; May 10.
- Strobl, Charles, Appleton, Wis. Tool. 1,635,968; July 12.
- Strodel, Norbert J., Syracuse, N. Y. Valve lifter. 1,619,162; Mar. 1.
- Strom, Fredric E., St. Paul, Minn. Synchronizing attachment for phonographs. 1,642,702; Sept. 20.
- Strom, Gustav, assignor of forty one-hundredths to P. D. Johnston, Pontiac, Mich. Poured-wall form. 1,636,256; July 19.
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Beach, John M., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Beach, J. M., and Fletcher, assignors.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Beyland, S. A., and Reynolds, assignors.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Levis, John M., jr., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Longworth, Arthur, assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Olney, Benjamin, assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Reinke, Eugene A., assignor.)
- Stromberg-Carlson Telephone Mfg. Co., The. (See Slough, Frank M., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Williams, John D., assignor.)
- Stromberg Electric Company. (See Long, Albert E., assignor.)
- Stromberg Electric Company. (See Ostler, Ernest S., assignor.)
- Stromberg Motor Devices Co. (See Chandler, Milton E., assignor.)
- Stromberg Motor Devices Company. (See Gustafson, Charles J., assignor.)
- Stromberg Motor Devices Company. (See Holt, Frank, assignor.)
- Stromberg Motor Devices Company. (See Mock, F. C., Gustafson, and Chandler, assignors.)
- Stromberg Motor Devices Company. (See Stein, Louis, assignor.)
- Stromberg Research Corporation. (See Mock, Frank C., assignor.)
- Strong, Albin L., assignor to L. A. Molten, Hoboken, N. J. Fuel saver. 1,642,831; Sept. 20.
- Strong, Archie H., Flushing, assignor to Master Domestic Refrigerating Company, Inc., Queens County, N. Y. Refrigerating apparatus. 1,646,712; Oct. 25.
- Strong, Arthur P., Chicago, Ill. Forced-draft stoker. 1,632,423; June 14.
- Strong, Arthur P., Chicago, Ill. Grate link. 1,648,514; Nov. 8.
- Strong, Chester F., New York, N. Y. System for generating and distributing electricity. 1,644,158; Oct. 4.
- Strong, Eugene H., Pearsall, Tex. Electric target practice apparatus for firearms. 1,645,881; Oct. 18.
- Strong, Henry, Ukiah, Calif. Rotary air compressor. 1,641,833; Sept. 6.
- Strong, James B. (See Hoffman, P. and Strong.)
- Strong, John E., Grand Rapids, Mich. Combined table and seat structure. 1,646,939; Oct. 25.
- Strong, Mildred S. (See Strong, Robert L., assignor.)
- Strong, Robert L., assignor to M. S. Strong, Louisville, Ky. Undergarment. 1,624,444; Apr. 12.
- Strong, Samuel M., Garden City, N. Y. Respiration and recording. 1,619,005; Mar. 1.
- Strongson, Herman L., Brooklyn, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,291; Oct. 4.
- Strongson, Herman L., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,310; Oct. 4.
- Strong, Howard T., A. F. Hauser, and J. Hammer, Peoria, Ill. Rolling tub stand. 1,630,279; May 31.
- Stroud, Charles M., assignor of one-half to L. H. Fawkes, Minneapolis, Minn. Oil burner. 1,618,392; Feb. 22.

- Stroud, Charles M., assignor of one-half to L. H. Fawkes, Minneapolis, Minn. Oil burner. 1,652,803; Dec. 13.
- Stroud, David H., Jenkintown, Pa. Rug. Des. 74,032; Dec. 6.
- Stroud, David H., Jenkintown, Pa. Rug. Des. 74,033; Dec. 6.
- Stroud, David H., Jenkintown, Pa. Rug. Des. 74,034; Dec. 6.
- Stroud, David H., Jenkintown, Pa. Rug. Des. 74,035; Dec. 6.
- Stroud, David H., Jenkintown, Pa. Rug. Des. 74,036; Dec. 6.
- Strout, Paul G., Belmont, and Walter A. Simond, Franklin, assignors to Acme Knitting Machine & Needle Company, Franklin, N. H. Knitting machine. 1,624,373; Apr. 12.
- Stroup, Everett P., and W. A. Cook, assignors to Marion Machine, Foundry & Supply Company, Marion, Ind. Soot blower. 1,649,001; Nov. 15.
- Strouse, Albert F., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Delivering coal to hoppers of continuous-fuel-feed stokers. 1,624,079; Apr. 12.
- Strouse, Charles H., Indianapolis, Ind. Interior fortress. 1,634,598; July 5.
- Strout, Haven T. (See Bloss, R. R., Strout, and Ansel.)
- Strout, Robert W., Brooklyn, assignor, by mesne assignments, to E. W. Bliss Company, New York, N. Y. Canseaming machine. 1,617,465; Feb. 15.
- Struble, Clarence H., and S. W. Hall, Chicago, Ill. Brush. 1,631,560; June 7.
- Struble, James F., Hutchinson, Kans. Antifreezing device. 1,626,763; May 3.
- Struble, Leo O., and C. E. Hanly, Salina, Kans. Automobile awning. 1,637,971; Aug. 2.
- Strubler, Charles G. and G. L. Chicago, Ill., assignors to Toledo Scale Company, Toledo, Ohio. Indicator actuating and controlling device for scales. 1,636,257; July 19.
- Strubler, Gordon L. (See Strubler, Charles G. and G. L.)
- Structural Gypsum Corporation. (See Rowan, Thomas, assignor.)
- Strube, Otto, Dwight, Ill. Refrigerator. 1,617,552; Feb. 15.
- Strughold, Peter, St. Louis, Mo. Thermostatic safety switch or cut-out. 1,640,300; Aug. 23.
- Strum, Max, Jr., Keptos, N. J. Leveling attachment for cameras. 1,618,257; Feb. 22.
- Strunack, Michael, Pottstown, Pa. Tool retainer for pneumatic hammers. 1,646,120; Oct. 18.
- Strunck, Carl F., Hendersonville, N. C. Display stand. 1,630,870; May 31.
- Strupe, Cecil H., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Snare drum. 1,638,106; Aug. 9.
- Strupe, Cecil H., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Banjo. 1,633,593; Dec. 20.
- Strupp, Herbert A., Evansville, Ind. Connecting-rod attachment. 1,625,905; Apr. 26.
- Struthers Manufacturing Co. (See Struthers, William G., assignor.)
- Struthers, William G., Oakland, Calif., assignor to Struthers Manufacturing Co., Oakland, Calif. Clamp. 1,621,691; Mar. 22.
- Stryke, Mark H., Brooklyn, N. Y. Garment. 1,632,424; June 14.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,733; May 24.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,734; May 24.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,735; May 24.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,736; May 24.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,737; May 24.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,738; May 24.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,739; May 24.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 72,740; May 24.
- Stuart, Collin, assignor of one-half to W. Ile. Jackson, Mich. Self adjusting clutch or brake. 1,647,482; Nov. 1.
- Stuart, Donald R., Council Bluffs, Iowa. Toy vehicle. 1,642,468; Sept. 13.
- Stuart, Eita B., et al., executors. (See Stuart, Robert J.)
- Stuart, Frank T., Maplewood, N. J., assignor to The R. Neumann Hardware Co. Bag frame. 1,616,705; Feb. 8.
- Stuart, Frank T., Maplewood, N. J., assignor to The R. Neumann Hardware Co. Bag frame. 1,617,553; Feb. 15.
- Stuart, Frank T., Maplewood, N. J., assignor to The R. Neumann Hardware Co. Bag lock. 1,620,171; Mar. 8.
- Stuart, Frank T., Maplewood, N. J., assignor to The R. Neumann Hardware Co. Hinge for bag frames. 1,636,019; July 19.
- Stuart, Harvey R., assignor to The Bauer-Stuart Company, Springfield, Ohio. Shock absorber. 1,615,554; Feb. 1.
- Stuart, Harvey R., assignor to The Bauer-Stuart Company, Springfield, Ohio. Shock absorber. 1,615,855; Feb. 1.
- Stuart, Harvey R., assignor to The Bauer-Stuart Company, Springfield, Ohio. Demonstrating device for shock absorbers and the like. 1,627,125; May 8.
- Stuart, Henry P., Seattle, Wash. Amplifying and detecting tube. 1,644,796; Oct. 11.
- Stuart, Joseph, assignor to Lobdell Car Wheel Company, Wheeling, W. Va. Calipers. 1,635,908; July 12.
- Stuart, Kenneth E., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Electrolytic method and apparatus. 1,630,224; May 24.
- Stuart, Lillian, New York, N. Y. Protector. 1,620,743; Mar. 15.
- Stuart, Robert J., deceased, Poughkeepsie, N. Y.; E. B. Stuart and T. H. Stuart, executors. Table. 1,624,770; Apr. 12.
- Stuart, Thomas H., et al., executors. (See Stuart, Robert J.)
- Stuart, Wallace A., Cleveland, Ohio, assignor of one-half to B. L. Jarrett, Sewickley, Pa. Blast furnace. Re16,697; Aug. 9.
- Stuart, Wallace A., Cleveland, Ohio, assignor of one-half to B. L. Jarrett, Sewickley, Pa. Lining for blast furnaces and the like. 1,632,633; June 14.
- Stuart, Raymond F., Philadelphia, and J. V. Dolan, Ardmore, assignors to The American Motor Body Corporation, Philadelphia, Pa. Revolving chair. 1,634,922; July 5.
- Stubblefield, Joseph W., Los Angeles, Calif. Floor-scrapping machine. 1,614,855; Jan. 18.
- Stubs, Everett, Springfield, Vt. Ring-spinning frame. 1,629,366; May 17.
- Stubbs, Joseph, Limited. (See Stubbs, Joseph H., assignor.)
- Stubbs, Joseph H., assignor to Joseph Stubbs Limited, Ancoats, Manchester, England. Reel or swift for use in the winding of textile yarns. 1,649,771; Nov. 15.
- Stubbs, Marie M., executrix. (See Stubbs, Robert C.)
- Stubbs, Robert C., Dallas, Tex. Vibrating machine. 1,615,052; Jan. 18.
- Stubbs, Robert C., Dallas, Tex. Machine for making compressed concrete. 1,638,667; Aug. 9.
- Stubbs, Robert C., Dallas, Tex. Measuring device for street and road paving and the like. 1,638,715; Aug. 9.
- Stubbs, Robert C., deceased, Dallas, Tex.; M. M. Stubbs, executrix. Machine for compacting and solidifying concrete and other plastics. 1,650,574; Nov. 22.
- Stubbs, Robert C., deceased, Dallas, Tex.; M. M. Stubbs, executrix. Self-adjusting and self-advancing roller for finishing concrete and the like. 1,650,746; Nov. 22.
- Stubbs, William A., Sherbrooke, Quebec, Canada. Key fastener. 1,636,392; July 19.
- Stubenbergh, Arthur F., Maunawai, Hawaii. Spraying machine. 1,633,294; June 21.
- Stuber, Adolph, assignor to Eastman Kodak Company, Rochester, N. Y. Self-threading winding means. 1,645,882; Oct. 18.
- Stuber, John, Alma, Wis. Hen's nest. 1,613,207; Jan. 4.
- Stuber & Kuck Co. (See Abele, Theodore, assignor.)
- Stuber & Kuck Co. (See Koll, Louis, assignor.)
- Stuber & Kuck Co. (See Kuck, Henry G., assignor.)
- Stuckl, A. (See Severn, Arthur B., assignor.)
- Studebaker Corporation, The. (See Baus, Richard E., assignor.)
- Studebaker Corporation, The. (See Bourgon, Joseph H., assignor.)
- Studebaker Corporation, The. (See Brenner, Frank A., assignor.)
- Studebaker Corporation, The. (See Davenport, George R., assignor.)
- Studebaker Corporation, The. (See Fuller, Gla R., assignor.)
- Studebaker Corporation, The. (See Henry, Guy P., assignor.)
- Studebaker Corporation, The. (See Herrmann, Karl L., assignor.)
- Studebaker Corporation, The. (See Hoffer, J. G., Sullivan, and Bourgon, assignors.)
- Studebaker Corporation, The. (See Link, Vincent, assignor.)
- Studebaker Corporation, The. (See Longgood, Eugene A., assignor.)
- Studebaker Corporation, The. (See McIntyre, Elmer L., assignor.)
- Studebaker Corporation, The. (See Mose, Carl C., assignor.)
- Studebaker Corporation, The. (See Paton, Clyde R., assignor.)
- Studebaker Corporation, The. (See Pierce, Hodgson S., assignor.)
- Studebaker Corporation, The. (See Smith, Sydney, assignor.)
- Studebaker Corporation, The. (See Sprung, Edwin G., assignor.)
- Studebaker Corporation, The. (See Wagner, Edward F., assignor.)
- Studebaker Corporation, The. (See Williams, Clarence H., assignor.)

- Studebaker Corporation, The. (See Wise, Karl M., assignor.)
- Studebaker, John W., Des Moines, Iowa. Educational device. 1,617,687; Feb. 15.
- Studevant, L. M. (See Waterworth, Robert J., assignor.)
- Studiengesellschaft für Wirtschaft u. Industrie m. b. H. (See Weckerle, Ferdinand, assignor.)
- Studler, René R., Washington, D. C. Latch. 1,653,319; Dec. 20.
- Stuebing, Albert F., East Orange, N. J., assignor to The Bradford Patents Corporation, New York, N. Y. Friction draft gear. 1,649,871; Nov. 22.
- Stuebner, Gustav. (See Masonick, J., and Stuebner.)
- Stuebner, John. (See Masonick J., and Stuebner.)
- Stuedeman, Anton G., assignor, by mesne assignments, to Jenkins Machine Company, Sheboygan, Wis. Return feeder for continuous-feed rollers. 1,615,557; Jan. 25.
- Stuivenberg, Cornelis H., assignor, by mesne assignments, to Naamloze Vennootschap Kamate, Amsterdam, Netherlands. Calculating machine. 1,640,381; Aug. 30.
- Stukart, Hendrik, assignor to U. S. Slicing Machine Company, La Porte, Ind. Bread slicer. 1,631,231; June 7.
- Stukart, Hendrik, assignor to U. S. Slicing Machine Company, La Porte, Ind. Bread slicer. 1,645,551; Oct. 18.
- Stukenborg, Louis C., Memphis, Tenn., and J. H. Cooper, Lonoke, Ark. Powder-dusting machine. 1,624,996; Apr. 19.
- Stull, Frederick W., Torrington, Conn. Auto signal. 1,647,558; Nov. 1.
- Stull, John S. (See Holmberg, C. G., Jr., and Stull.)
- Stull Process Company. (See Stull, Ray T., assignor.)
- Stull, Ray T., Columbus, Ohio, assignor to Stull Process Company, Savannah, Ga. Whirlpool classifier and classifying process. 1,629,182; May 17.
- Stults, Delos B., Decatur, Ill. Tie plate and rail fastening. 1,618,442; Jan. 4.
- Stultz, George W. (See Warring, R. T., and Stultz.)
- Stump, Burdette, Denver, Colo. Phonograph. 1,643,228; Sept. 20.
- Stump, Daniel M., assignor to The Albert Dickinson Company, Chicago, Ill. Closure for culture containers. 1,641,400; Sept. 6.
- Stump, Earl R. (See Stump, Oscar C. and E. R.)
- Stump, Horace E. (See Lomis, C., and Stump.)
- Stump, Oscar C. and E. R., Seattle, Wash. Collision-signal switch. 1,625,505; Apr. 19.
- Stumpenhorst, John A., Wilkinsburg, Pa., assignor to Duplex Transmission Company. Motor-vehicle transmission mechanism. 1,632,634; June 14.
- Stumpf, Johann, Berlin, Germany. Delivering preheated feed water. 1,616,239; Feb. 1.
- Stumpf, Johann, Berlin, Germany. Valve gear for steam engines. 1,625,632; Apr. 19.
- Stumpf, Johann, Berlin, Germany. Connecting rod. 1,644,756; Oct. 11.
- Stumpf, Otto, Mannheim, Germany. Pocket stand. 1,632,717; June 14.
- Stumpf, Walter, Baltimore, assignor to The Black & Decker Manufacturing Company, Towson, Md. Electric tool. 1,633,389; June 21.
- Stuntz, John E., Central Estrella, Cuba, assignor to The Hooven, Owens, Rentschler Company, Hamilton, Ohio. Sugar-mill machinery. 1,640,059; Aug. 23.
- Sturbelle, Lucien C., Brussels, Belgium. Mechanical converter. 1,618,543; Jan. 4.
- Sturdy's, J. F., Sons Co. (See Eklund, George, assignor.)
- Sturdy's, J. F., Sons Co. (See Nelson, Nels T., assignor.)
- Sturgeon, Harold M., assignor of one-half to L. W. Hottel, Erie, Pa. Molding press apparatus. 1,623,022; Mar. 29.
- Sturgeon, Robert A., Brighouse, England. Centrifugal separating apparatus. 1,648,793; Nov. 8.
- Sturges, Charles E. (See Krieger, Edward C., assignor.)
- Sturges, Herbert M., Kansas City, Mo. Mop. 1,633,830; June 28.
- Sturges, Herbert M., Kansas City, Mo., assignor to Sturges Mop Company. Mop. 1,637,595; Aug. 2.
- Sturges Mop Company. (See Sturges, Herbert M., assignor.)
- Sturk, Evald E., Alhadena, Calif. Holder for tubes of tooth paste, shaving cream, and the like. 1,637,883; Aug. 2.
- Sturk, Evald E., Hollywood, Calif. Hot-water bottle. Light for automobiles. 1,643,593; Sept. 27.
- Sturm, Frank X., assignor to The Glove Corporation, Alexandria, Ind. Glove. Re16,609; May 3.
- Sturm & Scheinberg. (See Scheinberg, Morris M.)
- Sturman, Morris C., assignor to Sandel Manufacturing Company, Chicago, Ill. Smoking stand. Des. 73,986; Nov. 29.
- Sturman, Robert E., Minneapolis, Minn. Hay sling. 1,651,978; Dec. 6.
- Sturrock, John, assignor to International Harvester Company, Chicago, Ill. Pitman connection. 1,646,464; Oct. 25.
- Sturt, Alfred T., Flint, Mich., assignor to Durant Motors Incorporated. Motor-vehicle frame. 1,629,320; May 17.
- Sturt, Alfred T., Flint, Mich., and W. F. Pfander, Yonkers, N. Y., assignors to Durant Motors Incorporated. Motor-vehicle frame. 1,629,234; May 17.
- Sturt, Alfred T., Flint, Mich., and W. F. Pfander, Yonkers, N. Y., assignors to Durant Motors Incorporated. Muffler and motor-vehicle frame. 1,629,235; May 17.
- Sturtevant, B. F., Company. (See Allen, George W., assignor.)
- Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air separator. 1,615,558; Jan. 25.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Liquid-measuring apparatus. 1,617,873; Feb. 15.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. 1,621,564; Mar. 22.
- Stutsman, Leonard E. (See Binkley, R. S., Stutsman, and Grove.)
- Stutz, Frank, Washington, D. C. Attachment for garment hangers. 1,638,375; Aug. 9.
- Styer, John F., and T. W. Jones, Greeley, Colo. Side 1,643,353; Sept. 27.
- Styr, Frank, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Cage for ball bearings. 1,654,101; Dec. 27.
- Suarez, Joseph M., Baltimore, Md. Articulated car. 1,617,658; Feb. 15.
- Suarez, Joseph M., Baltimore, Md., assignor of one-fifth to J. P. Buck, Washington, D. C. Articulated car. 1,640,159; Aug. 23.
- Subert, Josef, Oak Park, Ill. Chimney-draft regulator. 1,633,687; June 28.
- Submarine Signal Company. (See Dorsey, Herbert G., assignor.)
- Submarine Signal Company. (See Fay, Richard D., assignor.)
- Submarine Signal Company. (See Hayes, H. C., and Mason, assignors.)
- Suddedeutsche Christbaumschmuck- u. Reflektoren Gesellschaft mit beschränkter Haftung. (See Kempf, Conrad, assignor.)
- Sudds, Homer A., Everett, Wash. Bottle-container closure. 1,645,829; Oct. 18.
- Suek, Anton, Muenster, Saskatchewan, and J. H. Thiemann, Humboldt, Saskatchewan, Canada. Weeder. 1,614,808; Jan. 18.
- Suekoff, Samuel, Chicago, Ill. Spring-cushion construction. 1,621,091; Mar. 15.
- Suekoff, Samuel, Chicago, Ill. Spring-cushion-loading apparatus. 1,646,885; Oct. 25.
- Suerlain Perfumery Corporation of New York. (See D'Escayrac, Bernard, assignor.)
- Suetzko, Okamoto, Kakegawa, Japan. Wall paper. Des. 74,037; Dec. 6.
- Sul Manufacturing Company, The. (See Schwerin, Frank H., assignor.)
- Sugden, Charles K., London, England. Sound-reproducing apparatus. 1,642,905; Sept. 20.
- Sugg, Frederick B., Ozark, Ala. Movable headlight. 1,646,326; Oct. 18.
- Suggs, George R., Atlanta, Ga. Advertising novelty. 1,621,908; Sept. 20.
- Sughrue, Thomas J., Chicago, Ill. Coin holder. 1,626,366; Apr. 26.
- Suida, Hermann, Modling, Lower Austria, Austria. Production of concentrated acetic acid from dilute aqueous solutions of the same. 1,621,441; Mar. 15.
- Suida, Hermann, Modling, Austria. Concentration of dilute acetic acid. 1,624,810; Apr. 12.
- Suida, Hermann, Modling, Austria. Concentration of dilute acetic acid. 1,624,811; Apr. 12.
- Suida, Hermann, Modling, near Vienna, Austria. Concentrating dilute acetic acid. 1,624,812; Apr. 12.
- Suida, Hermann, Modling, near Vienna, Austria. Production of ethyl chloride. 1,637,972; Aug. 2.
- Sukrov, Philip, assignor to J. V. Roemer, Detroit, Mich. Reversible collar. 1,637,540; Aug. 2.
- Sulak, Anton G., Seattle, Wash. Piano. 1,643,139; Sept. 20.
- Sullins, Harold L., assignor of one-fourth to W. D. Gray, Taft, Calif. Quick-connecting sucker rod. 1,622,064; Mar. 22.
- Sullins, Harold L., and J. E. Mustain, Taft, Calif.; said Mustain assignor of one-fourth to said Sullins and one-fourth to W. D. Gray. Sucker rod and lock. 1,626,307; Apr. 26.
- Sullivan, Albert V. (See Heinbockel, J. F., and Sullivan.)
- Sullivan, Albert V., Alameda, assignor to California Packing Corporation, San Francisco, Calif. Combination pitch pliter. 1,629,131; May 17.
- Sullivan, Charles E., and L. Zabolitzky, Colorado Springs, Colo. Steam, air, and signal line connection. 1,643,229; Sept. 20.
- Sullivan, Elizabeth. (See Suvan, Betty, assignor.)
- Sullivan, Elizabeth J., Minneapolis, Minn. Flour imp. 1,650,143; May 24.
- Sullivan, Eugene J. (See Whitehead, A. G., and Sullivan.)
- Sullivan, Francis W., Los Angeles, Calif. Valve action for organs and the like. 1,623,367; Apr. 5.
- Sullivan, Frank A., Bethlehem, Pa. Game board. 1,637,922; Aug. 2.

- Sullivan, Freda D., New York, N. Y. Heating device. 1,624,080; Apr. 12.
- Sullivan, Frederick B., Oakland, Calif. Fly swatter. 1,650,548; Nov. 22.
- Sullivan, George M. (See Johnston, W. D., and Sullivan.)
- Sullivan, James M., assignor to Safety Hone Company, Chicago, Ill. Razor-blade sharpener. 1,653,484; Dec. 20.
- Sullivan, John J., Bridgeport, Conn. Hedge trimmer. 1,627,258; May 3.
- Sullivan, John L., Berkeley, Calif. Furring and fastening device. 1,649,625; Nov. 15.
- Sullivan, Joseph E., Portage, Wis. Incandescent-electric lamp connection. 1,626,983; May 3.
- Sullivan, Josephine W., New York, N. Y. Folding back rest. 1,625,106; Apr. 19.
- Sullivan Machinery Company. (See Blom, Hjalmar T., assignor.)
- Sullivan Machinery Company. (See Cartledge, Frank, assignor.)
- Sullivan Machinery Company. (See Clapp, Lewis J., assignor.)
- Sullivan Machinery Company. (See Cundy, Oscar R., assignor.)
- Sullivan Machinery Company. (See Dee, Thomas L., assignor.)
- Sullivan Machinery Company. (See Ferguson, Alexander D., assignor.)
- Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
- Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
- Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)
- Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
- Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
- Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
- Sullivan Machinery Company. (See Lee, Frank M., assignor.)
- Sullivan Machinery Company. (See Lobbey, Fred T., assignor.)
- Sullivan Machinery Company. (See London, Jacob M., assignor.)
- Sullivan Machinery Company. (See Madsen, Norman, assignor.)
- Sullivan Machinery Company. (See Maxson, Louis A., assignor.)
- Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
- Sullivan Machinery Company. (See Mitchell, Joseph S., assignor.)
- Sullivan Machinery Company. (See Nelson, Sven T., assignor.)
- Sullivan Machinery Company. (See Officer, Charles B., assignor.)
- Sullivan Machinery Company. (See Oliphant, John, assignor.)
- Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
- Sullivan Machinery Company. (See Osgood, Robert C., assignor.)
- Sullivan Machinery Company. (See Richey, George H., assignor.)
- Sullivan Machinery Company. (See Rundqvist, Thore R. E., assignor.)
- Sullivan Machinery Company. (See Simmons, Leon E., assignor.)
- Sullivan Machinery Company. (See Smith, Charles C., assignor.)
- Sullivan Machinery Company. (See Tardiff, Henry, assignor.)
- Sullivan Machinery Company. (See Whinnen, Eugene, assignor.)
- Sullivan Machinery Company. (See Wilcox, Ralph, assignor.)
- Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
- Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
- Sullivan, Maurice, Brooklyn, N. Y. Valve shield. 1,651,438; June 7.
- Sullivan, Patrick. (See Wendel, Frans B., assignor.)
- Sullivan, Perry W. (See Hoffer, J. G., Sullivan, and Bourgon.)
- Sullivan, William B., Detroit, Mich., assignor to Chro-batic Tool Company. Carburizing box. 1,643,756; Sept. 27.
- Sulzberger, Nathan, New York, N. Y. Apparatus and method for producing novel lighting effects. 1,617,425; Feb. 15.
- Sulzberger, Nathan, New York, N. Y. Process and apparatus for lighting. 1,636,970; July 26.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Essencing curing tendencies of photographic films. 1,641,401; Sept. 6.
- Sulzer Frères Société Anonyme. (See Wirth, Elias, assignor.)
- Sulzer Frères Société Anonyme. (See Zbinden, Eugen, assignor.)
- Suman, John R. (See Lewis, W. W., and Suman.)
- Sumbling, William H., Toronto, Ontario, Canada. Ironing machine. 1,634,523; July 9.
- Summer, Frank S. (See Summer, Samuel, assignor.)
- Summer, Samuel, Albany, assignor to one-half to P. S. Summer, New York, N. Y. Internal-combustion engine. 1,622,010; Mar. 22.
- Summers, Bertrand S., Port Huron, Mich. Making paper machine. 1,643,820; Sept. 27.
- Summers, Bertrand S., Port Huron, Mich., assignor to The Locomotive Terminal Improvement Co., Chicago, Ill. Plating metal. 1,619,835; Mar. 8.
- Summers, Caleb E., assignor to General Motors Research Corporation, Dayton, Ohio. Indicator. 1,635,232; July 11.
- Summers, Daniel A. (See Walker Harvey A., assignor.)
- Summers, Frank E., near Memphis, Mo., assignor to The Magnovox Company, San Francisco, Calif. Electrostatic detector and amplifier. 1,619,318; Mar. 1.
- Sumners, John H., Tiffin, Ohio. Liquid gauge. 1,614,215; Jan. 11.
- Summers, Louis C., Shady Point, Okla. Cultivator hopple. 1,644,757; Oct. 11.
- Summers, Louis D., Springfield, assignor to Leader Iron Works, Decatur, Ill. Boiler. 1,636,391; July 19.
- Sumners, John E., assignor to Franz and Sumners, Springfield, Ill. Boiler and economizer organization. 1,642,794; Sept. 20.
- Summerson, William L., New York, N. Y. Baby's bed. 1,649,754; Nov. 15.
- Summey, David L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Furnace lining. 1,643,425; Sept. 27.
- Summit Thread Company. (See Ham, Robert L., assignor.)
- Sumner, Arthur D. (See Wilson, R. O., and Sumner.)
- Sumner, Ernest, New York, N. Y. Train-lighting apparatus. 1,645,207; Oct. 11.
- Sumner Iron Works. (See Dorman, George W., assignor.)
- Sumner Iron Works. (See Luth, Paul F., assignor.)
- Sumner Iron Works. (See Oetzen, Ernest A., assignor.)
- Sumner, John B., Port William, Ontario, Canada. Bottle-cap remover. 1,640,382; Aug. 30.
- Sumpter, John E., Minneapolis, Minn. Disconnect air-break line switch. 1,652,689; Dec. 13.
- Sumpter, Owen H., and J. G. Sheffer, Mitchellville, Iowa. Bolster repair stake. 1,648,664; Nov. 8.
- Sumpter, Owen J., Tacoma, Wash. Duplex shoe polisher. 1,651,431; Dec. 6.
- Sunday, Gustave W. (See Scholtz, J., and Sunday.)
- Sunday, Irvin R., Reading Pa. Paper-cutting cabinet. 1,631,776; June 7.
- Sunday, James J. (See Kelch, J. W., and Sunday.)
- Sunday, James J., Detroit, Mich., assignor, by mesne assignments, to Kelch Ventilating Heater Company. Heater for automobiles. 1,628,691; May 17.
- Sundback, Gideon, assignor to Hookless Fastener Company, Meadville, Pa. Making fastener stringers. 1,653,320; Dec. 20.
- Sundback, Gideon, assignor to The Photo Plating Company, Minneapolis, Minn. Rocking toy. Des. 72,874; June 14.
- Sundback, Adolph, assignor to The Photo Plating Company, Minneapolis, Minn. Rocking toy. Des. 72,875; June 14.
- Sundberg, Elizabeth L., administratrix. (See Sundberg, William.)
- Sundberg, Elizabeth L., trustee. (See Sundberg, William, assignor.)
- Sundberg, William, deceased, by E. L. Sundberg, administratrix, assignor to E. L. Sundberg, trustee, Chicago, Ill. Box-car-unloading apparatus. 1,626,984; May 3.
- Sundblad, Uno L., assignor to one-half to C. W. Wells, New Haven, Conn. Electrically-wound timepiece. 1,650,662; Nov. 29.
- Sundberg, James C., Sacramento, Calif. Combination step plate and luggage carrier. 1,641,510; Sept. 6.
- Sunde, Aspalon A., Ute, Iowa. Antiskid device. 1,635,017; July 5.
- Sunderland, Alfred E. (See Niederhauser, F. C., and Sunderland.)
- Sunderland, Charles C., assignor to John A. Roebling's Sons Company, Trenton, N. J. Rope-tension-testing device. 1,619,093; Mar. 1.
- Sunderland, Charles C., assignor to John A. Roebling's Sons Company, Trenton, N. J. Rope socket. 1,629,236; Aug. 16.
- Sunderland, James C., and J. F. Costelow, Kansas City, Mo. Broiling apparatus. 1,631,655; June 7.
- Sunderland, John P., Port Chester, N. Y., assignor to The Calorac Electric Corporation. Electric heating apparatus. 1,645,029; Oct. 11.
- Sunderland, R., assignor to Central Advertising Specialty Company, Terre Haute, Ind. Thermometer tube. 1,635,771; July 12.
- Sundh, August, Hastings on the Hudson, N. Y. Flexible Sundquist, Johan O. (See Sundquist, Karl A., assignor.)
- Sundquist, Karl A., deceased, Bridgeport, Conn., M. E. Nelson, administratrix, assignor to I. O. Sundquist, Lulea, Sweden. Writing machine. 1,652,988; Dec. 13.
- Sundstedt, Hugo, New York, N. Y. Air-propelled barge. 1,641,937; Sept. 6.
- Sundstrand Corporation. (See Sundstrand, Oscar J., assignor.)

- Sundstrand, Gustaf D., assignor, by mesne assignments, to Sundstrand Machine Tool Co., Rockford, Ill. Lathe. 1,639,756; Aug. 23.
- Sundstrand Machine Tool Co. (See Sundstrand, Gustaf D., assignor.)
- Sundstrand, Oscar J., Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del. Adding and listing machine. 1,626,889; May 3.
- Sundstrom, Carl, and G. N. Terziev, Syracuse, assignors to The Solvay Process Company, Solvay, N. Y. Production of hydrated sodium of carbonate. 1,650,244; Nov. 22.
- Sundstrom, Leonard E., Rockville, Nebr. Timer. 1,650,729; Nov. 29.
- Sundt, Edward V., Chicago, Ill. Low-capacity fuse, 1,626,105; Apr. 26.
- Sunfast Hats, Incorporated. (See Mansbendel, Fritz P., assignor.)
- Sunland Sales Cooperative Association. (See Pitts, Edmund M., assignor.)
- Sun-Maid Raisin Growers of California. (See Forrest, Thomas W. W., assignor.)
- Sun-Maid Raisin Growers of California. (See Nichols, Paul F., assignor.)
- Sun Oil Company. (See Alleman, Gellert, assignor.)
- Sun Oil Company. (See Clayden, Arthur L., assignor.)
- Sun Oil Company. (See McKee, James, assignor.)
- Sun Oil Company. (See Pew, A. E., Jr., and Thomas, assignors.)
- Sun Oil Company. (See Thomas, Henry, assignor.)
- Sun-Ray Lighting Products Co. (See Jaret, Joseph T., assignor.)
- Sun-Ray Lighting Products, Inc. (See Amdur, Noah W., assignor.)
- Sun-Ray Lighting Products, Inc. (See Brieff, Joseph, assignor.)
- Sun Rise Lamp Mfg. Co. (See Cricchio, Paul, assignor.)
- Sun Rise Lamp Mfg. Co. Inc. (See Hecht, Leo, assignor.)
- Sun Rise Lamp Mfg. Co. (See Zweig, Louis, assignor.)
- Sun Rubber Company, The. (See Lower, Melvin S., assignor.)
- Sun Shipbuilding & Dry Dock Company. (See Howitz, Alfred A., assignor.)
- Super Coal Process Company. (See Bowen, Richard, assignor.)
- Super Diesel Tractor Corporation. (See Scott, Philip L., assignor.)
- Super Gas Corporation. (See Poignand, Francis N., assignor.)
- Super-Rubber Lining Corporation. (See Leonl, Hugo, assignor.)
- Super-Safety Switch Company. (See Luther, Martin P., assignor.)
- Superheater Company, The. (See Broido, Benjamin, assignor.)
- Superheater Company, The. (See Broido, Benjamin N., assignor.)
- Superheater Company, The. (See Griffin, Joseph F., assignor.)
- Superheater Company, The. (See Hard, Malcolm, assignor.)
- Superheater Company, The. (See Hardy, Charles R., assignor.)
- Superheater Company, The. (See McKee, Neal T., assignor.)
- Superheater Company, The. (See Ryder, Gilbert B., assignor.)
- Superheater Company, The. (See Thom, R. A. and J., assignors.)
- Superior Foundry Company, The. (See Snow, Robert R., assignor.)
- Superior Hard Rubber Company. (See Gurnee, I. Q., and Smith, assignors.)
- Superior Hat Company. (See Wittecoff, Edward, assignor.)
- Superior Safety Furnace Pipe Company. (See Stoakes, James D., assignor.)
- Superior Type Company, The. (See Willard, Maurice L., assignor.)
- Superior Valve Company. (See Wilson, C. A., Gocke, and De Corse, assignors.)
- Supermarine Aviation Works, Limited, The. (See Mitchell, Reginald J., assignor.)
- Supertile Machinery Corporation. (See Flam, Stephen, assignor.)
- Suppes, Richard A., Johnstown, Pa. Sectional insulator or cut-out switch. 1,629,893; May 24.
- Supreme Player Action Corporation. (See Rydberg, John T., assignor.)
- Surdi, Tommaso, Rome, Italy. Manufacture of artificial food and product obtained by said process. 1,634,346; July 5.
- Sure-Guard Corporation. (See Schauman, K. O., Yancey, and Mifsud, assignors.)
- Suren, Nathan H., Needham, assignor, by mesne assignments, to The Gamewell Company, Newton, Mass. Signaling mechanism. 1,616,879; Feb. 8.
- Surface Combustion Company. (See Manker, Forrest W., assignor.)
- Surico, Carmine, assignor to Clermont Machine Co., Inc., New York, N. Y. Machine for making macaroni. 1,627,297; May 3.
- Surlemont, Henri, Verviers, Belgium. Automatic in-ter-fer arranged and actuated by internal-combustion engines. 1,621,179; Mar. 15.
- Surles, Lawrence O., Atlanta, Ga. Spotlight. 1,638,716; Aug. 9.
- Surprent, Oscar, et al. (See St. Jacques, Emile J. M., assignor.)
- Surtees, Robert, Gateshead, England. Machine for emulsifying, mixing, or grinding materials. 1,614,409; Jan. 11.
- Susdorf, Henry M., Rantoul, Ill. Valve tool. 1,647,204; Nov. 1.
- Susman, John G., Indianapolis, Ind. Art-glass joint. 1,620,300; Mar. 8.
- Susong, Jacob A., Newport, Tenn. Hot-water heater. 1,641,397; Sept. 13.
- Susannah Silk Mills. (See Bunting, James H., assignor.)
- Susquehanna Silk Mills. (See Rothschild, Max, assignor.)
- Sussin, Victor, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Car heater. 1,623,215; Apr. 5.
- Sutcliffe, Arthur G. (See Frank, J. M., and Sutcliffe.)
- Sutcliffe, Edgar R., Leigh, England. Producing activated carbonaceous substances and the product of the method. 1,629,237; May 17.
- Sutcliffe, William C., Vaucluse, near Sydney, New South Wales, Australia. Clip or file. 1,613,208; Jan. 4.
- Suter, Eugene F., London, England. Electric heater for waving or curling the hair. 1,617,133; Feb. 8.
- Sutherland, Andrew E., Madrid, Iowa. Plow hitch. 1,623,642; Apr. 5.
- Sutherland, Bainbridge P., Del Norte, Colo. Potato feeder. 1,622,686; Mar. 29.
- Sutherland, Boyd C., North Garden, Va. Fruit cleaning and polishing machine. 1,630,983; May 31.
- Sutherland, Daniel M., Jr., Trenton, N. J. Electric insulation board. 1,636,491; July 19.
- Sutherland, Donald W., Jr., Sioux Falls, S. Dak. Butter-fat-reading machine. 1,643,426; Sept. 27.
- Sutherland, Ernest E., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Terminal for electric heating units. 1,615,661; Jan. 25.
- Sutherland, Ernest E., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric toaster and grill. 1,624,445; Apr. 12.
- Sutherland, Ernest E., Mansfield, Ohio, assignor to The Westinghouse Electric & Manufacturing Company. Terminal support. 1,645,101; Oct. 11.
- Sutherland, Ernest E., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Resistor-supporting unit. 1,652,503; Dec. 13.
- Sutherland, Frederick F., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Milling plastic materials. 1,614,999; Jan. 18.
- Sutherland, Holton M. (See Sutherland, J. H., H. J., and H. M.)
- Sutherland, John G., Oakwood, Ohio. Combination tire carrier and signaling means. 1,645,830; Oct. 18.
- Sutherland, John H., H. J., and H. M., Swampscott, Mass. Template holder for pattern-grading machines. 1,633,295; June 21.
- Sutherland, William F., Toronto, Ontario, Canada. Electrical measuring instrument. 1,646,634; Oct. 25.
- Sutherland, William F., Toronto, Ontario, Canada. Electrical measuring instrument. 1,651,482; Dec. 6.
- Sutinen, John, Duluth, Minn. Railway tie. 1,651,106; Nov. 29.
- Sutker, Louis, Brooklyn, N. Y. Roller bearing for sliding doors. 1,619,443; Mar. 1.
- Sutner, Robert M., Newark, N. J., assignor to J. F. Booram, Greenwich, Conn. Mural decoration. 1,627,214; May 8.
- Sutter, Carl, and G. A. Pettit, New Orleans, La. Lubricating device. 1,640,012; Aug. 23.
- Sutter, Charles, Suresnes, assignor to Societe Anonyme des Anciens Etablissements Hotchkiss & Cie, St. Denis, France. Fire strip for fire-arm. 1,620,408; Mar. 8.
- Sutter, Ernest, assignor to Alpina Käse A. G., Burgdorf, Bern, Switzerland. Packing and preserving food products and the package obtained thereby. 1,640,860; Aug. 30.
- Sutter, Robert, St. Imier, Switzerland. Device for re-tailing and measuring liquors. 1,612,890; Jan. 4.
- Sutts, Alfred E., Danvers, and D. Edgar, Lynn, Mass., assignors to The Turner Tanning Machinery Company, Portland, Me. Splitting machine. 1,644,961; Oct. 11.
- Sutton-Abramsen Engineering Company. (See Wise, George A., assignor.)
- Sutton, E. W., Carpet Lining Corporation. (See Hendel, Richard, assignor.)
- Sutton, Eunice S. (See Ward, S. M., and Sutton.)
- Sutton, Henry M., and W. L. and E. G. Steele, Dallas, Tex. Process of and apparatus for separating, cleaning, and grading all kinds of nuts, cereals, and legumes. 1,632,520; June 14.
- Sutton, John, El Monte, Calif. Shut-down device for oil-worm-pumping equipment. 1,621,692; Mar. 22.
- Sutton, O. D., and C. E. Kendall, Chicago, Ill. Internal-combustion engine. 1,625,835; Apr. 26.
- Sutton, Robert S., Indiana, Pa. Dome damper. 1,616,094; Feb. 1.
- Sutton Shops, Inc. (See Sutton, William W., assignor.)
- Sutton, William H., assignor to J. & P. Coats, Limited, Paisley, Scotland. Cop or cone holder or stand for use in the unwinding of yarns and threads. 1,653,520; Dec. 20.

- Sutton, William S., Rockford, Ill. Rheostat. 1,634,050; June 28.
- Sutton, William S., Rockford, assignor to American Radiator Company, Chicago, Ill. Valve. 1,630,362; May 31.
- Sutton, William V., assignor to Sutton Shops, Inc., Rockford, Ill. Cap. 1,651,562; Dec. 6.
- Suvan, Betty, Chicago, Ill., assignor to Elizabeth Sullivan, Detroit, Mich. Stationery holder. 1,623,604; Apr. 5.
- Suzuki, Chujiro, Tokyo, Japan. Cereal-swelling machine. 1,639,909; Aug. 23.
- Suzuki, Chujiro, Tokyo, Japan. Corn-expansion machine. 1,647,483; Nov. 1.
- Suzuki, Masuichi, Los Angeles, Calif. Lock. 1,621,036; Mar. 15.
- Svartz, Josef, Stockholm, Sweden. Multicylinder plunger pump, compressor, and the like. 1,636,253; July 19.
- Svedberg, Theodor, Upsala, Sweden, and J. B. Nichols, Madison, Wis. Analytical centrifuge. 1,648,369; Nov. 8.
- Sveen, Karl, Aas Landbrukskole, Norway. Effecting agglomeration in paper pulp and other suspensions and mixtures. 1,622,474; Mar. 29.
- Svenska Akkumulator Aktiebolaget Jungner. (See Lundberg, Brore H., assignor.)
- Svenska Aktiebolaget Gasaccumulator. (See Johanson, Georg K. V., assignor.)
- Svenska Aktiebolaget Logg. (See Broady, H. W., and Rydberg, assignors.)
- Svenska Aktiebolaget Logg. (See Lissel, Karl G., assignor.)
- Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
- Svenson, Ferdinand K., Detroit, Mich. Pneumatic wheel. 1,624,688; Apr. 12.
- Svenson, Sven, assignor of one-half to M. K. Rellly, Fond du Lac, Wis. Paper-fastening device. 1,637,357; Aug. 2.
- Svensson, Carl A., Falun, Sweden. Bogie for railway cars and the like. 1,640,626; Aug. 30.
- Svensson, Carl A., and T. Collin, Falun, Sweden. Bogie for railway cars and the like. 1,635,694; July 12.
- Svensson, Carl A., and T. Collin, Falun, Sweden. Bogie for railway cars and the like. 1,635,695; July 12.
- Svensson, Gustaf. (See Svensson, Oskar and G.)
- Svensson, Karl J., Lidings Villastad, and K. A. P. Norling, Södertörns Villastad, Sweden. Apparatus for lifting out and cleaning centrifugal drums. 1,635,233; July 12.
- Svensson, Oskar and G., Daglösen, Sweden. Fuel-feeding device of internal-combustion engines. 1,624,024; Apr. 12.
- Sviageninov, Ivan G., New York, N. Y. Caster attachment for trunks. 1,642,094; Sept. 13.
- Swab, Jay G., assignor to H. Trenchard, Jr., Brooklyn, N. Y. Conveyor mechanism. 1,615,194; Jan. 18.
- Swab, Jay G., assignor to H. Trenchard, Jr., Brooklyn, N. Y. Automatic fastener affixing machine. 1,615,195; Jan. 18.
- Swab, Jay G., Baldwin, assignor to Tension Envelope Co., Inc., New York, N. Y. Making envelopes. 1,613,787; Feb. 22.
- Swab, Jay G., Baldwin, assignor to Tension Envelope Co., Inc., Brooklyn, N. Y. Fastener for envelopes and the like. 1,619,382; Mar. 1.
- Swacker, Leo C., South Charleston, W. Va. Meter lock cock. 1,615,181; Jan. 18.
- Swain, Britton W. (See DeWald, G. J., and Swain.)
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Resilient wheel. 1,630,225; May 24.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Manufacturing wire wheels. 1,630,226; May 24.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Wheel and demountable rim. 1,643,188; Sept. 20.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Wheel and demountable rim. 1,643,172; Sept. 20.
- Swan, Charles, Long Beach, Calif. Forming paving compositions. 1,632,456; June 14.
- Swan, Charles N., Louisville, Ky. Auto wheel. 1,646,635; Oct. 25.
- Swan, Ernest W. (See Cox, Floyd, assignor.)
- Swan, Fred, Wichita, Kans. Underreamer. 1,620,699; Mar. 15.
- Swan, Fred, Wichita, Kans. Underreamer bit or cutter. 1,620,700; Mar. 15.
- Swan, Harold A., Coronado, Calif. Portable belt sander. 1,631,898; June 7.
- Swan, Harry B., and J. L. Crawford, Detroit, Mich. Pommel valve for air-jolting molding machines. 1,643,427; Sept. 27.
- Swan, John P., Plymouth, Fla. Sprinkler system. 1,651,563; Dec. 6.
- Swan, John W., Stamford, Conn. Carburetor. 1,630,723; May 31.
- Swan, John W., Stamford, Conn. Manifold. 1,636,721; July 26.
- Swan Metallic Seal & Cap Company. (See Torvander, Swan N., assignor.)
- Swanberg, Floyd L. (See Scoville, Eugene M., assignor.)
- Swanson, Julius, Chicago, Ill., assignor, by mesne assignments, to R. Chelton, Chicago, Ill. Penclip. 1,629,766; May 24.
- Swanfeldt, Andrew, Los Angeles, Calif. Ornamental awning fabric and making the same. 1,625,690; Apr. 19.
- Swangren, Edwin V., Maywood, assignor to A. J. Denton, Jr., Chicago, Ill. Soft-metal washer for nails. 1,616,648; Dec. 13.
- Swann, Herbert. (See Baddiley, J., Shepherdson, Swann, Hill, and Lawrie.)
- Swann, James S., assignor to Union Metal Products Company, Chicago, Ill. Hopper door for railway cars. 1,638,603; Aug. 9.
- Swanson, Carl A. S., and D. Morgan, Des Moines, Iowa. Closet reinforcing flange. 1,648,665; Nov. 8.
- Swanson, August, New Lexington, Ohio. Vehicle signal-light casing. Des. 73,150; July 26.
- Swanson, Bernhard M., Los Angeles, Calif. Instrument for gauging internal tapers. 1,637,757; Aug. 2.
- Swanson, Carl A. S., trustee. (See Swanson, Carl A. S.)
- Swanson, Carl A. S., assignor to C. A. S. Swanson, as trustee, Malden, Mass. Conserving header plugs. 1,621,648; Mar. 22.
- Swanson, Carl O., Moline, Ill. Clothesline reel. 1,648,628; Nov. 8.
- Swanson, Carl W., Chicago, Ill. Washing-machine cabinet. Des. 72,458; Apr. 12.
- Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Check-indorser machine. 1,617,874; Feb. 15.
- Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Inking mechanism. 1,617,875; Feb. 15.
- Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Adjustable type carrier. 1,617,876; Feb. 15.
- Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Clutch mechanism. 1,617,877; Feb. 15.
- Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Inking mechanism. 1,617,878; Feb. 15.
- Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Check-indorser-inking mechanism. 1,617,879; Feb. 15.
- Swanson, John A., Waltham, Mass., and A. A. Pollak, Waterbury, Conn. Bandage-dispensing device. 1,626,257; Apr. 26.
- Swanson, Patrick. (See Jackson, J. A., and Swanson.)
- Swanson, Peter, Ely, Minn. Gravity lock. 1,647,484; Nov. 1.
- Swanson, Swan A., New York, N. Y. Electrical switch. 1,646,797; Oct. 25.
- Swanstrom, Carl G., Buffalo, Minn. Valve mechanism. 1,618,687; Feb. 22.
- Swanstrom, Charles J., Coronado Beach, Calif. Sawing device. 1,616,880; Feb. 8.
- Swarens, Chester A., et al. (See Hobson, John H., assignor.)
- Swart, Clarence A. (See Williams, T., and Swart.)
- Swart, George R., & Company. (See Albrecht, William, Jr., assignor.)
- Swart, George R., & Company. (See Belluche, Elmer W., assignor.)
- Swart, George R., & Company. (See Ehlig, Harry, assignor.)
- Swartout, Leon, Rochester, N. Y. Handy case for car and bus conductors and others. 1,629,322; May 17.
- Swartwout, Denton K., Cleveland, Ohio. Ventilating and heating system for motor vehicles. 1,622,359; Mar. 29.
- Swartwout, Denton K., Cleveland, Ohio. Ventilating and heating means for conveyances. 1,643,966; Oct. 4.
- Swartwout, Everett W., White Plains, N. Y. Smoking pipe. 1,632,100; June 14.
- Swartwout, Everett W., White Plains, N. Y. Regenerator engine. 1,641,830; Sept. 6.
- Swartz, Guy E., Detroit, Mich. Drill bushing. 1,617,554; Feb. 15.
- Swartz, Harry H., Bell, Pa. Rock drill. 1,614,216; Jan. 11.
- Swartz, Hugh, and P. C. Mulligan, assignors to Dual Oil Burner, Inc., Seattle, Wash. Oil-burner system. 1,613,969; Jan. 11.
- Swartz, Hugh, and P. C. Mulligan, assignors to Dual Oil Burner Company. Steam generator. 1,630,540; May 31.
- Swartz, Ira T. (See Baker, Arthur R., assignor.)
- Swartz, Ira T., trustee. (See Swartz, Ira T., assignor.)
- Swartz, Ira T., trustee. (See Weaver, Albert E., assignor.)
- Swartz, Ira T., assignor, by mesne assignments, to I. T. Swartz, trustee, Indianapolis, Ind. Carburetor. 1,619,894; Mar. 8.
- Swartz, Niles P., Dalton, Pa. Brake. 1,623,817; Apr. 5.
- Swartz, Otto E., assignor to The Ohio Match Company, Wadsworth, Ohio. Transfer device for conveyers. 1,629,283; May 17.
- Swartz, Otto E., assignor to The Ohio Match Company, Wadsworth, Ohio. Chute-clearing device for match machines. 1,636,876; July 26.
- Swartzbaugh Manufacturing Company. (See Ziola, Henry A., assignor.)
- Swartzlander, James W. (See Fernald, Charles F., assignor.)
- Swaser, George T., Raymond, Wash. Penholder. 1,641,511; Sept. 6.

- Swathmey, Joseph H. (See Haynes, William J., assignor.)
- Swayze, William W., Wilmington, Del. Pin-locking means. 1,644,618; Oct. 4.
- Swearingen, Fred, Pueblo, Colo. Automatic gate. 1,624,813; Apr. 12.
- Sweda, Edward J. (See Law, R., and Sweda.)
- Swedeborg, John H., Ashtabula, Ohio. Structural element. 1,643,971; Nov. 15.
- Sweeney, Everett M., Twin Falls, Idaho. Shot cartridge. 1,613,143; Jan. 4.
- Sweeney, Andrew J., Bayonne, N. J. Rotary pump. 1,636,259; July 19.
- Sweeney and Boland. (See Fogarty, John G., assignor.)
- Sweeney, Eloise, Richmond, Va. Combined mattress and bedpan. 1,631,656; June 7.
- Sweeney, John W., Sugarland, Tex. Water-craft propeller and ventilator. 1,650,915; Nov. 29.
- Sweeney, Morgan L., Los Angeles, Calif., assignor to Union Tank & Pipe Co. Casing head. 1,629,749; May 24.
- Sweeney, Orland R., Ames, Iowa. Elaborating corn stalks into pulp for use in paper making and the like. 1,639,152; Aug. 16.
- Sweeney, Patrick, Wisner, Nebr. Disk harrow. 1,625,379; Apr. 19.
- Sweeney, Ulysses G., Mount Bullion, Calif. Combined caliper and divider. 1,633,879; June 28.
- Sweet, Alvin H., Los Angeles, Calif. Brake-band lining. 1,615,490; Jan. 25.
- Sweet, Arthur, Salt Lake City, Utah. Confection package. 1,630,984; May 31.
- Sweet Candy Company. (See Cassidy, Willis W., assignor.)
- Sweet, Cecil H. (See Erwin, W. C., and Sweet.)
- Sweet, Donald H., Evanston, Ill. Lubricating system. 1,632,807; June 21.
- Sweet, Edna, Winnetka, Ill. Ribbon fastener. 1,647,589; Nov. 1.
- Sweet, Henry N. (See Jenkins, Samuel B., assignor.)
- Sweet, John A. (See Halbach, H. L., and Sweet.)
- Sweet, Lyman R., Boston, Mass. Heating drum. 1,633,201; June 21.
- Sweet, Marie A., Highland Park, Ill. Cane toy. 1,641,057; Aug. 30.
- Sweet-Orr & Co. (See Sweet, Stanley A., assignor.)
- Sweet, Robert C., et al. (See Cooper, William D., assignor.)
- Sweet, Roger J., Buffalo, N. Y. Internal-combustion engine. 1,649,554; Nov. 15.
- Sweet, Stanley A., New York, assignor to Sweet-Orr & Co., Inc., Wappingers Falls, N. Y. Bib pocket. 1,645,502; Oct. 11.
- Sweet, Stanley A., New York, assignor to Sweet-Orr & Co., Inc., Wappingers Falls, N. Y. Combined hammer loop and pocket for garments. 1,649,932; Nov. 22.
- Sweet, Sterling S. (See Sheppard, S. E., and Sweet.)
- Sweet, Sydney G., Cedarville, East Griguland, South Africa. Rotary fluid-expansion or internal-combustion engine. 1,647,768; Nov. 1.
- Sweet, William M., Niles, Mich. Dirigible headlight. 1,639,865; Aug. 23.
- Sweeting, Earl R., New York, N. Y. Umbrella attachment. 1,633,961; June 28.
- Sweetland, Ernest J., Montclair, N. J. Lubricating system of internal-combustion engines. 1,624,689; Apr. 12.
- Sweetland, Ernest J., Hazleton, Pa., and G. H. Greenhalgh, Newark, N. J., said Greenhalgh assignor to said Sweetland. Renewable filter unit. 1,646,377; Oct. 18.
- Sweetland, Ernest J., Hazleton, Pa., and G. H. Greenhalgh, North Arlington, N. J., said Greenhalgh assignor to said Sweetland. Renewable filter unit. 1,646,378; Oct. 18.
- Sweetland, Ernest J., Ann Arbor, Mich. Attachment to leaf spring for lubricating same. 1,648,702; Nov. 8.
- Sweitzer, Henry G., Detroit, Mich. Radiator wall shield. 1,624,997; Apr. 19.
- Swem, Daniel D., assignor to The Artistic Bronze Company, Bridgeport, Conn. Bracket hinge. 1,629,183; May 17.
- Swem, Daniel D., assignor to The Artistic Bronze Company, Bridgeport, Conn. Refrigerator latch. 1,650,398; Nov. 22.
- Swendsen, Willard L., Chicago, Ill. Radiator cap. Des. 73,985; Nov. 29.
- Swenev, Harry K., Evansville, Wyo. Conduit coupling. 1,652,064; Dec. 6.
- Sweningson, Louis, Cleveland, Ohio. Wringer. 1,640,627; Aug. 30.
- Swenson, Carl E., assignor of one-fourth to C. L. Anderson, one-fourth to L. Faust, and one-fourth to E. S. Ekstrom, Rockford, Ill. Universal joint. 1,615,317; Jan. 25.
- Swenson, Carl E., assignor of one-fourth to C. L. Anderson, one-fourth to L. Faust, and one-fourth to E. S. Ekstrom, Rockford, Ill. Propeller shaft. 1,627,936; May 10.
- Swenson, Carl E., assignor of one-fourth to C. L. Anderson, one-fourth to L. Faust, and one-fourth to E. S. Ekstrom, Rockford, Ill. Universal-joint assembly. 1,651,850; Dec. 6.
- Swenson, Carroll E., Clifton, Tex. Direction and temperature indicating device. 1,628,006; May 10.
- Swenson Evaporator Company. (See Badger, Walter L., assignor.)
- Svenson, Lester, Deerfield, Wis. Steam-heated iron. 1,629,553; May 24.
- Swett, Caswell D., assignor to F. J. Lasar, San Francisco, Calif. Washing machine. 1,653,321; Dec. 20.
- Swett, Charles E., Boston, assignor to H. H. Beckwith, Brookline, Mass. Box toy. 1,623,073; Apr. 5.
- Swett, Lewis B., assignor to Pennsylvania Stamping Corporation, York, Pa. Making saws. 1,631,657; June 7.
- Swiatecki, Wladyslaw, Lublin, Poland. Device for dropping bombs from aircraft. 1,623,893; Apr. 5.
- Swickard, Frank, Clarinda, assignor of one-half to W. A. Blahut, Mass. Box toy. 1,628,104; Apr. 26.
- Swickard, Frank, assignor to Titanic Double Cutter Trust, Clarinda, Iowa. Cutting apparatus. 1,649,002; Nov. 15.
- Swift & Company. (See Britt, Max, assignor.)
- Swift & Company. (See Dye, Ione, assignor.)
- Swift & Company. (See Parsons, Clinton H., assignor.)
- Swift, Edward B., Seattle, Wash. Ship's anchor. 1,636,760; July 26.
- Swift, Edwin H., Brooklyn, N. Y. Air heater and retarder. 1,618,238; Feb. 22.
- Swift, Ernest L., assignor to V. Swift, Oakland, Calif. Metal-coated electrode. 1,628,104; Apr. 26.
- Swift, Frank, Toronto, Ontario, Canada. Tape measure. 1,623,138; Apr. 5.
- Swift, George C. (See Geiger, F., and Swift.)
- Swift, George L., assignor to Brown & Bigelow, St. Paul, Minn. Toy bank. 1,651,936; Dec. 6.
- Swift, George W., Jr., Bordentown, N. J. Machine for making one-piece window envelopes. 1,639,010; Aug. 16.
- Swift, George W., Jr., Bordentown, N. J. Sheet-teedling means. 1,643,646; Sept. 27.
- Swift, George W., Jr., assignor to George W. Swift, Jr., Inc., Bordentown, N. J. Cap-making machine. 1,647,379; Nov. 1.
- Swift, George W., Jr., assignor to George W. Swift, Jr., Inc., Bordentown, N. J. Sheet-feeding mechanism. 1,647,819; Nov. 1.
- Swift, George W., Jr., Inc. (See Swift, George W., Jr., assignor.)
- Swift, Lewis B., assignor to Taylor Instrument Companies, Rochester, N. Y. Recording mechanism. 1,646,940; Oct. 25.
- Swift, Owen P., Halifax, England, assignor to Chadelod Chemical Company, New York, N. Y. Paint and varnish remover. 1,620,409; Mar. 8.
- Swift, Virginia. (See Swift, Ernest L., assignor.)
- Swift, William S. (See Corriston, Katherine, assignor.)
- Swift, Willis C., West Alexandria, Ohio. Portable acetylene generator. 1,627,581; May 10.
- Swigert, Ernest G., Portland, Oreg. Cast-steel ladle. 1,633,876; June 28.
- Swimmer, Robert, New York, N. Y. Water and soap spray. 1,616,514; Feb. 8.
- Swinebush, B. (See Nixon, Clarence R., assignor.)
- Swindell, William, and Brothers. (See Brooke, Frank W., assignor.)
- Swindell, William E., East Orange, N. J. Bottle or similar container. Des. 71,937; Jan. 25.
- Swindell, William E., East Orange, N. J. Bottle or similar container. Des. 73,716; Oct. 25.
- Swindell, William E., East Orange, N. J. Bottle or similar container. Des. 74,080; Dec. 13.
- Swindowsky, Walter, San Antonio, Tex. Shock absorber. 1,614,695; Jan. 18.
- Swinsen Bramley-Moore. (See McIntyre, John, assignor.)
- Swingle, Charles W., and H. Miller, St. Louis, Mo. Downdraft hot-air furnace. 1,613,315; Feb. 22.
- Swingrite Co. The. (See Nicholl, Glibber E., assignor.)
- Swingspout Measure Co. (See Wiswell, Ozro N., assignor.)
- Swinington, Lawrence G., Los Angeles, Calif. Blotter-edge guard and paper cutter. 1,640,100; Aug. 23.
- Swiney, Alonzo N., Macon, Mo. Automatic motor stop. 1,642,315; Sept. 13.
- Swift, William R. (See Conlon, Charles S., assignor.)
- Swisher, Earl D., Des Moines, Iowa. Barking toy. 1,652,832; Dec. 13.
- Swisher, Lamont, Decatur, Ill. Side and end wall of sectional buildings. 1,649,872; Nov. 22.
- Swisher, R. D., Mfg. Co. (See Corey, Matt M., assignor.)
- Switzer, Charles A., Des Moines, Iowa. Sanitary baby toilet seat. 1,648,791; Nov. 8.
- Switzer, Elmer E., Beaumont, Tex. Asbestos crown-top packing. 1,626,436; Apr. 26.
- Switzer, Henry W., Hamilton, Ontario, Canada, assignor to H. Heimbach, Buffalo, N. Y. Window. 1,634,277; July 5.
- Switzer, Judson D. (See Miles, F. H., and Switzer.)
- Switzer, O. S., & Co. (See Switzer, Russell M., assignor.)
- Switzer, Russell M., assignor to O. S. Switzer & Co., Chicago, Ill. Cover attachment for receptacles. 1,618,489; Feb. 22.
- Swoboda, Adolph R., Newark, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Switching device. 1,624,374; Apr. 12.
- Swoboda, Conrad, assignor to The McCaskey Register Company, Alliance, Ohio. Filing cabinet. 1,650,663; Nov. 29.

- Swohoda, H. O., Inc., et al. (See Newsham, A. S., Viersen, and Misch, assignors.)
- Swohoda, H. O., Inc. (See Swohoda, H. O., and Richards, assignors.)
- Swohoda, Hans O., and E. M. Richards, assignors to H. O. Swohoda, Inc., Pittsburgh, Pa. Cracking liquid hydrocarbons. 1,616,515; Feb. 8.
- Swoope, Samuel F., Cincinnati, Ohio. Repair link. 1,631,346; June 7.
- Swope, Ernest E. (See Black, L. J., and Swope.)
- Swope, Frederick E., Jr., Philadelphia, Pa. Variable condenser. 1,620,244; Mar. 8.
- Sykes, Adrian F., New Barnet, England. Electro-magnetic apparatus for recording sound. 1,621,180; Mar. 15.
- Sykes, Adrian F., New Barnet, Herts, England. Telephone transmitter and receiver. 1,637,397; Aug. 2.
- Sykes, Adrian F., New Barnet, England. Reproduction of sound. 1,639,713; Aug. 23.
- Sykes, Cecil M., assignor to The Hayes Meserole Mfg. Co., Milford, Conn. Pencil sharpener. 1,628,076; May 10.
- Sykes Company, The. (See Rowley, James H., assignor.)
- Sykes, Howard M., Valparaiso, Ind. Automatic fishhook. 1,620,497; Mar. 8.
- Sykes, Robert D., Minneapolis, Minn. Aerating milk and cream can cover. 1,651,979; Dec. 6.
- Sykes, Thomas A. (See Ohio, Frank, assignor.)
- Sykes, William E. (See Lane, G. L., and Sykes.)
- Sykora, Rudolf, Boston, Mass. Producing relative color design. 1,620,604; Mar. 8.
- Syler, Claude E., Fort Worth, Tex. Mold-liner gauge. 1,646,327; Oct. 13.
- Sylvan, Joseph, Chicago, Ill. Collapsible skylight construction. 1,612,995; Jan. 4.
- Sylvester, Alexander I., Baltimore, Md. Motor sled. 1,649,873; Nov. 22.
- Sylvester, Edward G., Honolulu, Hawaii. Hairpin. 1,644,809; Jan. 15.
- Sylvester, Howard C., Bakersfield, Calif. Switchman's lantern. 1,646,328; Oct. 18.
- Sylwan, Per O. T., Forshaga, Sweden. Condensation exhaust for drying cylinders and such-like. 1,629,598; May 24.
- Syzmank, Franz, Schweinfurt, Germany. Thrust ball bearing. 1,622,065; Mar. 22.
- Symington Company, The. (See Anderson, Gustaf A., assignor.)
- Symington Company, The. (See Barrows, Donald S., assignor.)
- Symington Company, The. (See Couch, Glenn F., assignor.)
- Symington Company, The. (See Hankins, Cyrus, assignor.)
- Symington Company, The. (See Kadel, Byers W., assignor.)
- Symington Company, The. (See Knapp, Raleigh T., assignor.)
- Symington Company, The. (See Martin, Mark H., assignor.)
- Symington Company, The. (See Symington, Thomas H., assignor.)
- Symington, Scott, Passaic, N. J. Separation of solids from liquids. 1,641,708; Sept. 6.
- Symington, T. H., and Son, Inc. (See Symington, T. H., and Drenning, assignors.)
- Symington, Thomas H., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Side frame and journal box therefor. 1,620,498; Mar. 8.
- Symington, Thomas H., and P. R. Drenning, assignors, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Truck bolster with absorption mechanism. 1,633,503; June 21.
- Symington, Thomas H., and P. R. Drenning, assignors, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Truck bolster with absorption mechanism. 1,642,751; Sept. 20.
- Symmes, Charles D., Cygnet, Ohio. Vegetable-thinning machine. 1,616,700; Jan. 18.
- Symmes, Charles D., Cygnet, Ohio. Agricultural instrument. 1,631,561; June 7.
- Symmes, Ernest M., assignor to Hercules Powder Company, Wilmington, Del. Granular ammonium nitrate and making same. 1,613,334; Jan. 4.
- Symmes, Ernest M., assignor to Hercules Powder Company, Wilmington, Del. Ammonium-nitrate explosive. 1,613,335; Jan. 4.
- Symons Brothers Company. (See Symons, Edgar B., assignor.)
- Symons, Edgar B., Hollywood, Calif., assignor to Symons Brothers Company, Milwaukee, Wis. Disk crusher. 1,616,240; Feb. 1.
- Symons, Edgar B., Los Angeles, Calif., assignor to Symons Brothers Company, Milwaukee, Wis. Crushing disk. 1,630,502; May 31.
- Symphoner Co., The. (See Winder, Charles F., assignor.)
- Syrack, Henry, assignor, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio. Transplanter. 1,651,851; Dec. 6.
- Syrptroth, Emil, Schwab-Gmund, Germany, assignor to G. S. Settler, New York, N. Y. Fixing artificial hair dress on natural hair. 1,627,469; May 3.
- Syracusa, Michael, Chicago, Ill. Airplane construction. 1,637,398; Aug. 2.
- Syracuse Industrial Gas Co. (See Henderson, Nelson H., assignor.)
- Syracuse Ornamental Company. (See Holstein, Adolph M., assignor.)
- Syracuse Washing Machine Corporation. (See Bliss, Donald M., assignor.)
- Syracuse Washing Machine Corporation. (See Geldhof, Peter E., assignor.)
- Syracuse Washing Machine Corporation. (See Nelson, J. C., and Geldhof, assignors.)
- Szabo, Joseph, and A. Ladane, New Castle, Pa. Automatic railway switch. 1,622,980; Mar. 29.
- Szakács, Joseph, assignor of one-third to N. Gensalo, Wood, and one-third to W. I. Evans, Broad Top, Pa. Tool. 1,643,861; Sept. 27.
- Szalkacs, Miklos, (See Zorgo, Desider, assignor.)
- Szako, John, New York, N. Y. Bench plane. 1,645,781; Oct. 18.
- Szalla, Dezső, North Tonawanda, N. Y. Automatically-operated garage door. 1,624,814; Apr. 12.
- Szandrowsky, Anton, New York, assignor to C. H. Durfee, Forest Hills, N. Y. Valve lifter. 1,615,053; Jan. 18.
- Szantay, Daniel. (See Sinko, J., and Szantay.)
- Szekely, Ernest, Evanston, assignor of one-half to Drying Systems Inc., Chicago, Ill. Air-filter drive. 1,638,067; Aug. 9.
- Szekely, Otto E., Moline, Ill. Internal-combustion engine. 1,622,687; June 29.
- Szekely, Otto E., Moline, Ill. Washing machine. 1,646,174; Oct. 18.
- Szepesi, Eugene, Boston, Mass. Instrument for graphic control. 1,623,216; Apr. 5.
- Szigethy, Stephen, New York, N. Y. Candelabrum. 1,631,232; June 7.
- Sztogryn, John, Jersey City, N. J. Bag holder. 1,632,808; June 21.
- Szuch, Joe. (See Szuch, Vincent and J.)
- Szuch, Vincent and J., Ravenna, Ohio. Gate for railway crossing. 1,639,866; Aug. 23.
- Szuchy, Joseph, Perth Amboy, N. J. Train signaling and controlling system. 1,638,754; Aug. 9.
- Szuhánszky, Paul, Niagara Falls, Ontario, Canada. Folding bench. 1,654,437; Dec. 27.
- Szymczak, Anton, Virginia, Minn. Receptacle stand. 1,617,139; Feb. 8.
- T & L Co., The. (See Lotz, William A., assignor.)
- T. & L. Co., The. (See Tuckmantel, Hugo, assignor.)
- T. R. Gely, A. G. (See Lüttin, Karl, assignor.)
- Taaffe, George R., assignor to United Iron Works, Inc., Joplin, Mo. Adjustable bearing mechanism for drums, sleeves, etc. 1,633,797; June 28.
- Tabb, Warner T., Mahwah, N. J. Hair curler. 1,631,989; June 14.
- Tabb, Warner T., Mahwah, N. J. Hair curler. 1,631,890; June 14.
- Tabb, Warner T., Mahwah, N. J. Clamp. 1,631,991; June 14.
- Taber, Edward A., and A. G. Spinney, Portland, Me. Pilot-light control. 1,616,706; Feb. 8.
- Taber, William P., Adena, Ohio. Supporting roof strata during the mining of minerals. 1,630,589; May 31.
- Tajor, Harry B., Everett, Mass. Chair. 1,613,488; Jan. 4.
- Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.)
- Tabor Manufacturing Company, The. (See Williams, Henry H., assignor.)
- Tabulating Machine Company, The. (See Brandt, Martin F., assignor.)
- Tabulating Machine Company, The. (See Bryce, James W., assignor.)
- Tabulating Machine Company, The. (See Carroll, Fred M., assignor.)
- Tabulating Machine Company, The. (See Ford, Eugene A., assignor.)
- Tacke, Louis, assignor to H. Schultz & Company, Chicago, Ill. Feed attachment for stapling and other machines. 1,652,383; Dec. 13.
- Taecker, August T., Brawley, Calif. Fuel vaporizer. 1,642,795; Sept. 20.
- Taft, Edward A., trustee. (See Barker, Robert W., assignor.)
- Taft, John A., Cincinnati, Ohio. Cotton condenser. 1,645,630; Oct. 18.
- Taft, John A., Birmingham, Ala., assignor, by mesne assignments, to The Dixie Gin Compress Company, Inc., New Orleans, La. Round-bale compress. 1,648,246; Nov. 8.
- Taft-Pierce Manufacturing Company, The. (See Simmons, Frank L., assignor.)
- Taggart Brothers Company Inc. (See Taggart, Joseph W., assignor.)
- Taggart, Joseph W., assignor to Taggart Brothers Company, Inc., Watertown, N. Y. Reinforced paper bag. 1,643,370; Nov. 8.
- Tagliabue, Charles J., Mfg. Co. (See Bast, Frank J., assignor.)
- Tagliabue, Charles J., Mfg. Co. (See Irwin, Lawrence C., assignor.)
- Tagliani, Giovanni. (See Lomann, H., and Tagliani.)
- Tagliani, Giovanni, assignor, by mesne assignments, to Chemical Works, formerly Sandoz, Basel, Switzerland. Treating cotton or other threads containing cellulose. 1,633,617; June 28.

- Tahan, Tofic A., Union City, N. J. Lug-strap support. 1,641,873; Sept. 6.
- Tainter, Simon S., Dixfield, Me. Machine for assembling clotheings. 1,616,041; Feb. 8.
- Tainton, Uriah J., Johannesburg, Transvaal, South Africa. Pump. 1,623,605; Apr. 5.
- Tait, Wilfred E., assignor to H. J. Clark, Boston, Mass. Permutation lock for savings banks. 1,649,372; Nov. 15.
- Takamichi, Jokichi, jr., and N. Fujita, Clifton, N. J. Making a vat slitting. 1,634,310; July 5.
- Takuchi, Masayoshi, assignor of one-half to Y. Yasuda, Los Angeles, Calif. Treating tobacco. 1,617,727; Feb. 15.
- Talaga, Michal, Gary, Ind. Rail connector. 1,616,996; Feb. 8.
- Talander, Joseph, Paris, France. Machine for sealing bottles, etc. 1,649,141; Nov. 15.
- Talbert, Lee R., Long Beach, Calif. Sash-cord guide. 1,616,205; Feb. 1.
- Talbot, Benjamin, Middlesbrough, England. Metallurgical furnace. 1,648,247; Nov. 8.
- Talbot, Benjamin, Middlesbrough, England, assignor to Talbot Non-Corrosive Linings Company, Philadelphia, Pa. Lined pipe. 1,644,361; Oct. 4.
- Talbot, Benjamin, Northallerton, England, assignor to Talbot Non-Corrosive Linings Company, Philadelphia, Pa. Water pipe and making the same. 1,644,360; Oct. 4.
- Talbot, Benjamin, North Allerton, England, assignor to Talbot Non-Corrosive Linings Company, Philadelphia, Pa. Coating. 1,653,746; Dec. 27.
- Talbot, Evariste E., Fall River, Mass. Take-up motion for looms. 1,633,142; June 21.
- Talbot, George J., assignor to The Buol Machine Company, New Britain, Conn. Automatic sash fastener. 1,651,045; Nov. 20.
- Talbot, George W., Bloomington, Ind. Scored veneer and making same. 1,637,164; July 26.
- Talbot, James A., assignor of one-half to S. V. Davin, Walla Walla, Wash. Weeder. 1,625,168; Apr. 19.
- Talbot, James A., assignor of one-half to S. V. Davin, Walla Walla, Wash. Weeder. 1,625,169; Apr. 19.
- Talbot, Non-Corrosive Linings Company. (See Talbot, Benjamin, assignor.)
- Talbott, Harry G., Baltimore, Md. Wall furniture. 1,633,423; June 21.
- Talcott, Morton C., assignor to The Billings & Spencer Company, Hartford, Conn. Drop hammer. 1,651,483; Dec. 6.
- Talevich, Tom J., Sapulpa, Okla. Locomotive-driving-wheel truing and dangle-reducing device. 1,617,036; Feb. 8.
- Taliaferro, John C., Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Friction-top container. 1,616,268; Feb. 1.
- Taliaferro, John C., Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Metal container. 1,653,521; Dec. 20.
- Taliaferro, Thomas L., Chicago, Ill. Jar closure. 1,616,516; Feb. 8.
- Taliaferro, Thomas L., Chicago, Ill. Closing jars. 1,616,517; Feb. 8.
- Taliaferro, Thomas L., Chicago, Ill. Jar closure. 1,616,518; Feb. 8.
- Taliaferro, Thomas L., Chicago, Ill. Liner for metal caps. 1,618,490; Feb. 22.
- Taliaferro, Thomas L., Chicago, Ill. Forming liners for metal caps for containers. 1,618,491; Feb. 22.
- Taliaferro, Thomas L., Chicago, Ill. Jar-closing machine. 1,628,007; May 10.
- Taliaferro, Thomas L., Chicago, Ill. Apparatus for forming sealing rings on jar closures or the like. 1,628,008; May 10.
- Taliaferro, Thomas L., Chicago, Ill. Jar-closing machine. 1,642,209; Oct. 4.
- Taljan, Stefan A., East St. Louis, Ill. Drum or pulley attachment. 1,631,899; June 7.
- Talley, Randal E., North Irwin, Pa., assignor to George J. Hagan Company, Pittsburgh, Pa. Electric heating device. 1,625,880; Apr. 19.
- Talvey, Robert G. and W. W., California, Mo. Ring latch. 1,641,085; Aug. 30.
- Talley, Waldemar W. (See Talley, Robert G. and W. W.)
- Tallmadge, Webster, Montclair, N. J., assignor to Webster Tallmadge & Company, Inc., New York, N. Y. Fluid-circulating system. 1,653,485; Dec. 20.
- Talman, Albert R., et al. (See Snodgrass, Joseph C., assignor.)
- Tallman, Allen P., Toledo, Ohio. Rubber mold and treating the molding surfaces. 1,652,218; Dec. 13.
- Tam, William D., Jackson, Calif. Combination packing and display box. 1,641,709; Sept. 6.
- Tanassy, Jay, New York, N. Y. Bag closure. 1,617,508; Feb. 15.
- Tamberlin, John, assignor to The George W. Blabon Company, Philadelphia, Pa. Sheet-linoleum disintegrator. 1,619,276; Mar. 1.
- Tambone, Dominick, New York, N. Y. Earthquakeproof building construction. 1,615,350; Jan. 25.
- Tamborizza, Manufacturing Company. (See Franic, Adolph, assignor.)
- Tamen Brothers et al. (See Friedland, Moshe, assignor.)
- Tamini, Mario, Milan, Italy. Driving arrangement for machines installed on automobiles. 1,627,126; May 3.
- Tammen, Henry C. (See Ash, L. R., Tammen, and Hunter.)
- Tammeo, Aldo, Genoa, Italy. Wing structure for aircraft. 1,628,705; May 10.
- Tanaka, Frank W., New York, N. Y. Amusement device. 1,622,981; Mar. 29.
- Tandel, Fritz, assignor to C. G. Haubold A. G., Chemnitz, Saxony, Germany. Fabric-feeding apparatus. 1,615,415; Jan. 25.
- Tange, George Y., Cleveland, Ohio. Safety fuse. 1,622,567; Sept. 13.
- Tangenberg, Albert, Grand Rapids, assignor to Electric Refrigeration Corporation, Detroit, Mich. Refrigerator-cabinet construction. 1,651,741; Dec. 6.
- Tangring, Olof, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Gauge. 1,647,552; Nov. 1.
- Tanguay, Arthur G., Chicago, Ill., assignor to Badger Tool & Mfg. Co., Cutting tool. 1,625,836; Apr. 26.
- Tangye, Roy M., Denver, Colo. Carburetor. 1,620,925; Mar. 15.
- Tangye, Roy M., Denver, Colo., assignor, by mesne assignments, of one-fourth to The Colorado Carburetor Company, Carburetor. 1,616,838; Dec. 27.
- Taniguchi, Kumazo, Kingsburg, Calif. Submarine life-saving device. 1,634,055; June 28.
- Tanke, Emil, Falkenhagen, near Sergefeld Krs. Osthavelland, Germany, assignor by mesne assignments to automatic Electric Inc., Chicago, Ill. Telephone system. 1,652,187; Dec. 13.
- Tannehill, Thomas T., Toronto, Ontario, Canada. Combination door lamp and sound amplifier. Des. 72,322; Mar. 29.
- Tannehill, Vernon L. (See Astrom, J., and Tannehill.)
- Tannehill, Vernon L., assignor to Fort Wayne Engineering and Manufacturing Co., Fort Wayne, Ind. Water softener. 1,626,055; Apr. 26.
- Tannanum, Harold J., and D. Brown, New York, N. Y., assignors to Electreconomy, Inc. Electric toasting and heating appliance. 1,625,745; Dec. 13.
- Tannenholz, Melville, Brooklyn, N. Y. Decorate luncheon mat for hot plates. Des. 72,876; June 14.
- Tannenholz, Melville, Brooklyn, N. Y. Luncheon mat for hot plates. Des. 73,271; Aug. 16.
- Tanner, Arnold J., North Haven, Conn. Display container. 1,616,707; Feb. 8.
- Tanner, Arnold J., North Haven, Conn. Display container. 1,616,708; Feb. 8.
- Tanner, Arnold J., North Haven, Conn. Display container. 1,625,171; Apr. 19.
- Tanner, Arnold J., North Haven, Conn. Display container. 1,647,829; Nov. 1.
- Tanner, Arnold J., North Haven, Conn., assignor, by mesne assignments, to S. S. Gorham, Chicago, Ill., trustee. Railway and like fare system and means used therewith. 1,625,170; Apr. 19.
- Tanner, Charles H., St. Cloud, Minn. Card-holder attachment. 1,652,842; Dec. 13.
- Tanner, De Witt C., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission of pictures by electricity. 1,613,970; Jan. 11.
- Tanner Engineering Company, The. (See Tanner, Harry L., assignor.)
- Tanner, Frederick H., Fishponds, Bristol, England. Dividable box. 1,654,225; Dec. 27.
- Tanner, George W., Otis, Colo. Caster wheel. 1,619,590; Mar. 1.
- Taner, Harry L., Brooklyn, N. Y., assignor to The Tanner Engineering Company, Inc. Position indicator. 1,621,290; Mar. 15.
- Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Liquid-controlled gyrocompass. 1,647,419; Nov. 1.
- Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., New York, N. Y. Damping gyroscopic compass. 1,650,162; Nov. 22.
- Tanner, Hubert D., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gear-tooth grinder. 1,626,890; May 3.
- Tanner, Inos B., assignor to Joseph E. Nelson & Sons, Chicago, Ill. Tank. 1,615,916; Jan. 11.
- Tanner, Inos B., assignor to Joseph E. Nelson & Sons, Chicago, Ill., copartnership consisting of J. E. Nelson and W. H. Nelson. Tank. 1,617,355; Feb. 15.
- Tanner, Oscar A., Verona, Pa., assignor to Artstone Burial Vault Co., Inc. Manufacturing artificial stone. 1,617,927; Feb. 15.
- Tanner, Philip A., and F. T. Irgens, South Bend, Ind., assignors to Cushman Motor Works, Lincoln, Neb. Lubricating means for internal-combustion engines. 1,628,755; May 17.
- Tanner, Roe, Attica, Ohio. Propelling means. Re16,573; Mar. 15.
- Tanner, Wellington L., Panasoffee, Fla., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Insecticide and applying same. 1,652,291; Dec. 13.
- Tanner, William G., New Castle, Pa. Porch swing. 1,613,544; Jan. 4.
- Tannewitz, Carl E., Grand Rapids, Mich. Band-saw wheel. 1,645,552; Oct. 18.
- Tanquary, Anita K., Los Angeles, Calif. Holder. 1,652,544; Dec. 13.

- Tansill, Charles M., White Hall, Md. Gas mixing gas-
ket for internal-combustion engines. 1,620,410; Mar. 8.
Tansley, George H., assignor to Colt's Patent Fire Arms
Manufacturing Company, Hartford, Conn. Magazine
safety device for automatic pistols. 1,638,068; Aug. 9.
Tanz, Benjamin W. (See Evans, John R., assignor.)
Tape, William H., Lethbridge, assignor of one-half to
P. Barrowman, Lethbridge, Alberta, Canada. Brake.
1,645,975; Oct. 18.
Taplin, Carleton V. (See Anderson, G. T., and Taplin.)
Taplin, George C., Boston, Mass. Operating-table attach-
ment. 1,618,609; Feb. 22.
Taplin, George C., Boston, Mass. Operating table.
1,635,588; July 12.
Taplin Manufacturing Company, The. (See Lienhard,
Richard B., assignor.)
Tapping, Lewis, Brooklyn, N. Y. Safety razor.
1,618,895; Feb. 22.
Tapp, John C., Broomfield, Colo. Gauge. 1,623,643;
Aug. 5.
Tapping, Frank F. (See Thornley, F. C., Tapping and
Reynard.)
Tar & Petroleum Process Company. (See Knowles, A. S.,
and McIntire, assignors.)
Taranto, John, Waltham, Mass. Magazine for box looms.
1,622,066; Mar. 22.
Tarbox, Gordon L., North Plainfield, N. J. Universal
joint. 1,643,647; Sept. 27.
Tarbox, Gordon L., North Plainfield, N. J. Universal
joint. 1,643,648; Sept. 27.
Tarbox, Gordon L., North Plainfield, N. J. Universal
joint. 1,649,408; Nov. 15.
Tarbox, John P., Garden City, N. Y. Method and system
of vibratory signal control. 1,628,077; May 10.
Tarbox, John P., assignor to Budd Wheel Company,
Philadelphia, Pa. Double nut for dual wheels.
1,637,696; Aug. 2.
Tarbox, John P., assignor to Edward G. Budd Manu-
facturing Co., Philadelphia, Pa. Latch mechanism.
1,635,589; July 12.
Tarbox, John P., Garden City, N. Y., assignor to Tarbox
Safety Aircraft Company, Washington, D. C. Balanc-
ing system for aircraft. 1,644,758; Oct. 11.
Tardif, John P., assignor to Edward G. Budd Manu-
facturing Company, Philadelphia, Pa. Latch mechanism.
1,645,310; Oct. 11.
Tarbox, Leon A., Oil City, assignor to Emlenton Refining
Company, Emlenton, Pa. Revivifying fuller's earth.
1,618,299; Jan. 4.
Tarbox Safety Aircraft Company. (See Tarbox, John P.,
assignor.)
Tardiff, Henry, Claremont, N. H., assignor to Sullivan
Machinery Company. Drilling mechanism. 1,653,240;
Dec. 20.
Tardif, Roy A., Sacramento, Calif. Spare-tire advertis-
ing sign. 1,645,940; Oct. 18.
Tark, Marcus B., Philadelphia, Pa. Screening appara-
tus. 1,615,559; Jan. 25.
Terman, Benjamin F., Quincy, Pa. Shipping crate for
animals. 1,619,895; Mar. 8.
Ternowski, Joseph, Detroit, Mich. Sliding window.
1,616,709; Feb. 8.
Teromino, Bennie A., New Brunswick, N. J. Time-con-
trolled lighting switch. 1,638,004; Aug. 9.
Tarrant, William P., Saratoga Springs, N. Y. Portable
spreading device. 1,639,238; Aug. 16.
Tartarine Manufacturing Co., Inc. (See Hanson, Hugo H.,
assignor.)
Tartrais, Eugene H., Maisons-Laffitte, France. Liquid-
fuel internal-combustion engine. 1,615,293; Jan. 25.
Tartrais, Eugene H., Maisons-Laffitte, France. Fuel-sup-
ply means for heavy-oil engines. 1,623,074; Apr. 5.
Tartrais, Eugene H., Montmorency, France. Lubricating
arrangement for the cylinders of two-stroke cycle en-
gines. 1,630,547; May 31.
Tascarella, Salvatore, Brooklyn, N. Y. Step for surgical
tables. 1,652,065; Dec. 6.
Taschman, Armen H., Cleveland, Ohio. Pole or post.
1,639,542; Aug. 18.
Tasker, Fred E. (See Rice, John V., Jr., assignor.)
Tasker, Richard H., Liverpool, England. Knife for use in
flaying cattle and like purposes. 1,630,871; May 31.
Tasman, George, Brooklyn, N. Y. Adjustable seat for
vehicles. 1,615,246; Jan. 25.
Tasman, George, Brooklyn, N. Y. Joint. 1,619,836;
Mar. 8.
Tate, Charles R., Omaha, Nebr. Shipping box. 1,612,891;
Jan. 4.
Tate, Harry F., assignor to Sta-Kleen Burner Company,
Kokomo, Ind. Low-pressure oil burner. 1,643,967;
Oct. 4.
Tate, James R., Lowell, Ariz. Spring-clip hanger.
1,623,368; Apr. 5.
Tate, Joseph T., et al. (See Greenstreet, Oliver P., as-
signor.)
Tate, Kenneth L. (See Norwood, H. Y., and Tate.)
Tate, Kenneth L., assignor to Taylor Instrument Com-
panies, Rochester, N. Y. Apparatus for measuring the
flow of gases. 1,630,318; May 31.
Tate, Kenneth L., assignor to Taylor Instrument Com-
panies, Rochester, N. Y. High-temperature vapor-pres-
sure recorder and regulator. 1,632,152; June 14.
Tate, Kenneth L., assignor to Taylor Instrument Com-
panies, Rochester, N. Y. Gas-analysis apparatus.
1,633,362; June 21.
Tate, Lionel C., Newburgh, Ind. Plug. 1,614,975;
Jan. 18.
Tate Safety Window Scaffold Corporation. (See Tate,
William R., assignor.)
Tate, Samuel G., Washington, D. C., assignor to Union
Special Machine Company, Chicago, Ill. Overedge
looper mechanism for sewing machines. 1,650,306;
Mar. 22.
Tate, William R., Brooklyn, N. Y., assignor to Tate Safety
Window Scaffold Corporation. Window-washer's scaffold.
1,622,067; Mar. 22.
Tatter, John. (See Pascoe, W. H., and Tatter.)
Tatum, John J., Baltimore, Md. Coupler striking plate.
1,624,995; Aug. 19.
Taub, Alex., assignor to General Motors Corporation, De-
troit, Mich. Baffle plate in valve chamber. 1,623,322;
Apr. 5.
Taub, Alex., assignor to General Motors Corporation, De-
troit, Mich. Oiling system for internal-combustion
engines. 1,634,123; June 28.
Taub, Alex., assignor to General Motors Corporation, De-
troit, Mich. Clutch. 1,638,376; Aug. 9.
Taub, Alex., assignor to General Motors Corporation, De-
troit, Mich. Clutch. 1,644,759; Oct. 11.
Taub, Raphael, Newark, N. J. Collapsible-tube paste
brush and case. 1,653,322; Dec. 20.
Taubel, Clarence H., Riversdale, R. I., assignor to Hemphill
Company, Central Falls, R. I. Seamless knit, clocked
stocking and making same. 1,619,788; Mar. 1.
Taubert, Fred G., Jersey City, N. J., assignor to New York
Manufacture Co., Inc., New York, N. Y. Shoe. Des.
73,450; Sept. 15.
Taudervin, Ralph E. (See Bean, T. R., and Taudervin.)
Taubman Corporation, The. (See Zuschlag, Theodor, as-
signor.)
Taunton Pearl Works, Inc. (See Palmer, James A., as-
signor.)
Taverner, Alphonso, Birmingham, Ala., assignor to Metal
& Thermit Corporation, Carteret, N. J. Rail-clamping
apparatus. 1,620,172; Mar. 8.
Tausch, Ernst, Wilmersdorf, near Berlin, Germany. Re-
siliant-ring element. 1,641,059; Aug. 30.
Tauschek, Gustav, Vienna, Austria. Tabulator, particu-
larly for calculating wages. 1,617,058; Feb. 8.
Tauschek, Gustav, Vienna, Austria. Punching machine.
1,626,217; Apr. 26.
Tauschek, Gustav, Vienna, Austria. Arrangement for
sorting perforated cards used for statistics, book-
keeping, and the like. 1,639,443; Aug. 16.
Tavannes Watch Co., S. A. (See Varaud, André, as-
signor.)
Tave, Samuel. (See Furst, E., and Tave.)
Taveau, René de M., Elizabeth, N. J., assignor, by mesne
assignments, to The Texas Company, New York, N. Y.
Treating hydrocarbons. 1,645,553; Oct. 18.
Tavender, Walter K. (See Reimers, A. E., and Tavender.)
Tawa, Mike A., et al. (See Sabbag, Littfallah G., as-
signor.)
Taylor, Albert H., Washington, D. C. Apparatus for re-
cording electrical signals. 1,630,227; May 24.
Taylor, Albert H., Washington, D. C., assignor to Wired
Radio, Inc., New York, N. Y. Radio signal circuits.
1,613,735; Jan. 11.
Taylor, Albert H., Washington, D. C., assignor to Wired
Radio, Inc., New York, N. Y. Signal-transmission sys-
tem. 1,628,009; May 10.
Taylor, Albert H., Washington, D. C., assignor to Wired
Radio, Inc., New York, N. Y. Piezo-electric crystal
system. 1,639,817; Aug. 25.
Taylor, Albert H., Washington, D. C., assignor to Wired
Radio, Inc., New York, N. Y. Three-phase oscillator.
1,654,196; Dec. 27.
Taylor, Albert H., and L. C. Young, Washington, D. C.
Receiving system for high-frequency electrical oscilla-
tions. 1,624,987; Mar. 15.
Taylor, Albert H., and L. C. Young, Washington, D. C.,
assignors to Wired Radio, Inc., New York, N. Y. Radio
signaling circuit. 1,639,816; Aug. 23.
Taylor, Albert H., and L. C. Young, Washington, D. C.,
assignors to Wired Radio, Inc., New York, N. Y. Mod-
ulator system for frequency multiplier circuits.
1,654,195; Dec. 27.
Taylor, Albert W., Peckville, Pa. Line pulley. 1,635,145;
July 5.
Taylor, Alfred M., Erdington, Birmingham, England.
Electric power transmission system. 1,638,647;
Aug. 9.
Taylor, Alfred M., Erdington, Birmingham, England.
Electric power transmission. 1,639,473; Aug. 16.
Taylor, Arch B., Charlotte, C. T. Long, Winston-Salem,
N. C., and A. C. Sohn, Pittsburgh, Pa., assignors to
Taylor-Long Company, Charlotte, N. C. Bottle. Des.
72,459; Apr. 12.
Taylor, Arch B., Charlotte, C. T. Long, Winston-Salem,
N. C., and A. C. Sohn, Pittsburgh, Pa., assignors to
Taylor-Long Company, Charlotte, N. C. Bottle. Des.
72,503; Apr. 19.
Taylor, Arthur E., assignor of one-half to S. Hinman,
Elvira, Ohio. Nail-driving implement. 1,621,761;
Mar. 22.
Taylor, Benjamin. (See Major, J. L., and Taylor.)
Taylor, Burt E., Mount Vernon, assignor to The Rorden
Company, New York, N. Y. Sterilizing apparatus.
1,646,713; Oct. 25.

- Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Transfer mechanism. 1,646,714; Oct. 25.
- Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Sterilizing apparatus. 1,646,715; Oct. 25.
- Taylor, Cecil H., and B. B. Neuteboom, Detroit, Mich. Airplane. 1,622,241; Mar. 22.
- Taylor, Cecil H., and B. B. Neuteboom, Detroit, Mich. Aeroplane. 1,622,242; Mar. 22.
- Taylor, Cecil H., and S. M. Udale, assignors to G. M. Holley, Detroit, Mich. Vaporizer. 1,648,515; Nov. 8.
- Taylor, Charles B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Prime-mover control system. 1,628,621; May 10.
- Taylor, Charles F., Montclair, N. J. Flexible coupling. 1,634,965; July 5.
- Taylor, Charles R., Moccasin, Mont. Grain-drill attachment. 1,642,908; Sept. 20.
- Taylor, Charles W., Hendon, London, England. Pulley. 1,636,492; July 19.
- Taylor, Charles W., assignor to E. C. F. Hartmann and D. Neff, Salt Lake City, Utah. Sound amplifier. 1,628,010; May 10.
- Taylor, Chase, Washington, D. C. Signaling device. 1,628,756; May 17.
- Taylor, Clarence E., Watseka, Ill. Self-thawing radiator for motor vehicles. 1,630,872; May 31.
- Taylor, Clarence T., Arlington, Kans. Fruit-picker's bag. 1,645,360; Oct. 11.
- Taylor, Cyrus, (See Bergmann, C. N., and Taylor.)
- Taylor, Doc G., Baytown, Tex. Antichattering device. 1,619,444; Mar. 1.
- Taylor, E. E., Company. (See Peabody, George M., assignor.)
- Taylor, Edward C. (See Castricum, M., and Taylor.)
- Taylor, Edward C., New York, N. Y. Stolen-car signal. 1,646,886; Oct. 25.
- Taylor, Edward N., Upper Montclair, assignor to De Forest Radio Company, Jersey City, N. J. Electric assembling machine. 1,648,010; Nov. 8.
- Taylor, Elmer Z. (See Bergmann, C. N., and Taylor.)
- Taylor, Eugene S., and Hugh E. Young, Chicago, Ill. Traffic-regulation system. 1,648,629; Nov. 8.
- Taylor, Forrest W., Los Angeles, Calif. Tool-holding attachment for pockets. 1,618,492; Feb. 22.
- Taylor, Frank F., Cincinnati, Ohio. Toy wagon. 1,650,163; Nov. 22.
- Taylor, George A., Boston, Mass. Tack. 1,618,239; Feb. 22.
- Taylor, George A., Wechawken, N. J., assignor to National Biscuit Company, New York, N. Y. Display cover. 1,628,204; May 10.
- Taylor, George L., Rochester, assignor to Kopygraph, Incorporated, Batavia, N. Y. Cutting mechanism. 1,653,129; Dec. 20.
- Taylor, George N. (See Parks, E. F., Brink, and Taylor.)
- Taylor, George W., jr., Leavittsburg, Ohio. Signal for toy electric trains. 1,649,043; Nov. 15.
- Taylor, Guy B., Wilmington, Del., and A. S. Richardson, Cincinnati, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitration process and nitrating mixture therefor. 1,640,737; Aug. 30.
- Taylor, Halsey W., Warren, Ohio. Drinking fountain. 1,624,081; Apr. 12.
- Taylor, Halsey W., Warren, Ohio. Drinking fountain. 1,635,440; July 12.
- Taylor, Harold. (See Gurley, John W., assignor.)
- Taylor, Harry T., assignor to Taylor-Johnston Manufacturing Company, Monroe, La. Grease gun. 1,616,997; Feb. 8.
- Taylor, Harvey B., Philadelphia, Pa. Annular-jet turbine. 1,613,971; Jan. 11.
- Taylor, Harvey B., Philadelphia, Pa. Impulse turbine. 1,623,446; Apr. 5.
- Taylor, Herbert E. (See Highfield, F. W., and Taylor.)
- Taylor, Herbert E., Coventry, England, assignor to Gleason Works, Rochester, N. Y. Method of and machine for hobbing gears. 1,618,240; Feb. 22.
- Taylor, Herbert M., Rochester, N. Y. Kitchen utensil. 1,649,874; Nov. 22.
- Taylor, Herman E., Detroit, Mich. Transportation system. 1,632,569; June 14.
- Taylor, Herman J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Testing apparatus for solenoids and the like. 1,637,062; July 26.
- Taylor, Hugh S., assignor to Western Electric Company, Incorporated, New York, N. Y. Socket. 1,642,517; Sept. 13.
- Taylor, Huston, Detroit, Mich. Impact bar for automobile bumpers. 1,639,011; Aug. 16.
- Taylor, Huston, assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Demountable rim carrier. 1,644,159; Oct. 4.
- Taylor Instrument Companies. (See Amdursky, Samuel S., assignor.)
- Taylor Instrument Companies. (See Carson, Charles B., assignor.)
- Taylor Instrument Companies. (See Ely, James, assignor.)
- Taylor Instrument Companies. (See Foote, Edward B., assignor.)
- Taylor Instrument Companies. (See Foote, E. B., and Staiker, assignors.)
- Taylor Instrument Companies. (See Heesch, Henry W., assignor.)
- Taylor Instrument Companies. (See Heesch, H. W., and Schofield, assignors.)
- Taylor Instrument Companies. (See Ireland, G. B., and Scott, assignors.)
- Taylor Instrument Companies. (See Jameson, Percy R., assignors.)
- Taylor Instrument Companies. (See Long, Herbert, assignor.)
- Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
- Taylor Instrument Companies. (See Norwood, H. Y., and Tate, assignors.)
- Taylor Instrument Companies. (See Olson, Raymond E., assignor.)
- Taylor Instrument Companies. (See Swift, Lewis B., assignor.)
- Taylor Instrument Companies. (See Tate, Kenneth L., assignor.)
- Taylor, Irving A. (See Beach, D. K., and Taylor.)
- Taylor, Irving A., assignor to S. Riley Stoker Corporation, Worcester, Mass. Furnace-wall air plate. 1,619,445; Mar. 1.
- Taylor, Irving A., assignor to Riley Stoker Corporation, Worcester, Mass. Fuel-feeding mechanism for under-fed stokers. 1,635,234; July 12.
- Taylor, Irving A., and C. H. Rich, assignors to Riley Stoker Corporation, Worcester, Mass. Ash-discharge mechanism for mechanical stokers. 1,651,484; Dec. 6.
- Taylor, James A., Portland, Me. Connecting tubes. 1,633,798; June 28.
- Taylor, James H., Oak Park, Ill. Steam boiler. 1,634,056; June 28.
- Taylor, James H., Oak Park, Ill. Machine for shaping pipes. 1,634,057; June 28.
- Taylor, James H., New York, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Flat-work ironer. 1,631,847; June 7.
- Taylor, James H., New York, N. Y., and J. P. Singiser, Chicago, Ill., assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Garment press. 1,639,355; Aug. 16.
- Taylor, James S., Wynona, assignor of one-half to H. B. Ouster, Ponca City, Okla. Safety casing spider. 1,650,101; Nov. 22.
- Taylor, Jerome C., Huntington Beach, Calif. Oil-well-tubing drainer. 1,620,173; Mar. 8.
- Taylor, John, Chicago, Ill. Battery-plate puller. 1,628,563; May 10.
- Taylor, John, Chicago, Ill. Battery filler. 1,628,564; May 10.
- Taylor, John, assignor of one-half to Mather & Platt Limited, Manchester, England. Automatic sprinkler or fire extinguisher. 1,639,911; Aug. 23.
- Taylor, John B., assignor to The Anglo-American Mill Company, Owensboro, Ky. Vibrating scalper. 1,614,810; Jan. 18.
- Taylor, John G., and H. Stoker, Lovelock, Nev. Hay loader. 1,623,447; Apr. 5.
- Taylor, John H., Peoria, Ill. Car coupling. 1,636,202; July 19.
- Taylor, John M., assignor to Diamond State Fibre Company, Bridgeport, Pa. Noiseless gear. 1,613,489; Jan. 4.
- Taylor, John M., assignor to Diamond State Fibre Company, Bridgeport, Pa. Mechanical element and making same. 1,623,894; Apr. 5.
- Taylor, John Q., Media, Pa. Safety-match-box holder. 1,637,358; Aug. 2.
- Taylor, John R., and E. Wood, Sawtelle, Calif. Expansion core. 1,640,013; Aug. 23.
- Taylor-Johnston Manufacturing Company. (See Taylor, Harry T., assignor.)
- Taylor, Lawrence P., Los Angeles, Calif. Apparatus for cementing soles to shoes. 1,623,561; May 17.
- Taylor, Lawrence P., Los Angeles, Calif. Shoemaker's last. 1,652,384; Dec. 13.
- Taylor, Leslie W., Bournemouth, England. Tobacco pipe. 1,624,690; Apr. 12.
- Taylor-Long Company. (See Long, C. T., and Sohn, assignors.)
- Taylor-Long Company. (See Taylor, A. B., Long, and Sohn, assignors.)
- Taylor, Mark, Gainesville, assignor of eleven-twentieths to A. W. Beauprie, Atlanta, Ga. Brace plate. 1,624,289; Apr. 12.
- Taylor, Maurice C. (See Guyer, J. A., and Taylor.)
- Taylor, Maurice C., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Hypochlorite composition. 1,650,054; Nov. 22.
- Taylor, Raolo, and J. W. Cooper. Flytrap. 1,632,635; June 14.
- Taylor, Raymond M., Indianapolis, Ind. Combined muffler and cut-out. 1,615,147; Jan. 18.
- Taylor, Richardson H., Meeker, Colo. Dental mandrel. 1,646,330; Oct. 18.
- Taylor, Robert L., Pittsburgh, Pa., assignor to Toupet-Taylor Engineering Company. Prepared fireproof mortar. 1,645,030; Oct. 11.
- Taylor, Rosa Q., et al. (See Boone, D. C., and Burkett, assignors.)
- Taylor, Roy, assignor of one-half to D. A. Cant, Los Angeles, Calif. Swivel. 1,617,776; Feb. 15.

- Taylor, Roy, assignor of one-half to D. A. Cant, Los Angeles, Calif. Swivel. 1,627,873; May 10.
- Taylor, Roy M., Richmond, Ind. Air sanding device. 1,640,258; Aug. 23.
- Taylor, Samuel G. (See Westmoreland, E. E., and Taylor.)
- Taylor, Samuel W., Baltimore, assignor to Poole Engineering and Machine Company, Woodbury, Baltimore, Single-seal throttle valve. 1,616,289; Feb. 1.
- Taylor, Stanley A. (See Falk, George E., assignor.)
- Taylor, Theodore A., and A. J. Yeager assignors to Prentiss-Wabers Stove Company, Wisconsin Rapids, Wis. Portable stove. 1,638,223; Aug. 9.
- Taylor, Thomas A., Bonham, Tex. Rotary store structure. 1,653,323; Dec. 20.
- Taylor, Thomas F., San Francisco, Calif. Dirigible headlight. 1,640,738; Aug. 30.
- Taylor, Thomas M., assignor to Keystone Roofing Manufacturing Company, York, Pa. Drip sheet. 1,630,639; May 31.
- Taylor, Thomas P., Co. (See Hammond, Myron B., assignor.)
- Taylor Tilting Light Company, The. (See Pfeifer, Ferdinand, assignor.)
- Taylor-Wharton Iron and Steel Company. (See Andrews, Charles B., assignor.)
- Taylor-Wharton Iron & Steel Company. (See Hopfield, Lewis D., assignor.)
- Taylor, Willard L. (See Baker, F. E., and Taylor.)
- Taylor, William, and F. W. Preston, Leicester, England. Method of and apparatus for polishing. 1,624,290; Apr. 12.
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass composition. 1,615,247; Jan. 25.
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass composition. 1,652,259; Dec. 13.
- Taylor, William E., East Orange, N. J., assignor to American Can Company, New York, N. Y. Method and apparatus for making can bodies. 1,628,923; May 17.
- Taylor, William E., Bloomfield, and Z. Hoffman, East Orange, N. J. Feeding machine. 1,645,555; Oct. 18.
- Taylor, William J., North Chicago, Ill., assignor to Standard Conveyor Company, St. Paul, Minn. Portable elevator. 1,645,554; Oct. 18.
- Taylor, William L., Cincinnati, Ohio. Multiplex bag and filling machine. 1,632,520; Jan. 14.
- Taylor, William L., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Filling and weighing machine. 1,648,077; Nov. 8.
- Taylor, William M., et al. (See Larsh, John M., assignor.)
- Taylor Wordsworth and Company. (See Layland, W. E., and Whitehead, assignors.)
- Teague, Oscar W. (See Hamersley, Garvin, assignor.)
- Teachout, John H. Cleveland Heights, assignor to The White Motor Company, Cleveland, Ohio. Folding top for vehicles. 1,627,716; May 10.
- Teague, Merwyn C., Elmhurst, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Machine for dispersing various solids and liquids. 1,624,567; Apr. 12.
- Teague, Merwyn C., Jackson Heights, N. Y., assignor to American Rubber Company, East Cambridge, Mass. Thickening and stabilizing latex and product. 1,644,124; June 28.
- Teahen, James M., Detroit, Mich. Operating handle for flushing tanks. 1,634,524; July 5.
- Teare, Albert R., Lakewood, assignor to J. C. Miles, Cleveland, Ohio. Heating and ventilating apparatus. Re16,751; Sept. 27.
- Te Aroha Dairy Company Limited, The. (See Murray, Henry L., assignor.)
- Tebaldi, Alessandro, Milan, Italy. Valve piston. 1,642,596; Sept. 13.
- Technical Glass Company, The. (See Anderson, William A., assignor.)
- Technical Glass Company. (See Netschert, Franz, assignor.)
- Technicolor Motion Picture Corporation. (See Andrews, Jarvis M., assignor.)
- Technicolor Motion Picture Corporation. (See Ball, Joseph A., assignor.)
- Technicolor Motion Picture Corporation. (See Comstock, Daniel E., assignor.)
- Technicolor Motion Picture Corporation. (See Troland, Leonard T., assignor.)
- Technicolor Motion Picture Corporation. (See Troland, L. T., and Andrews, assignors.)
- Techno-Chemical Laboratories, Limited. (See Süderlund, G. Boborg, and Testrup, assignors.)
- Tedeschi, Virgilio, Buenos Aires, Argentina. Circuit closer. 1,650,968; Nov. 29.
- Tedman, Hudson A., assignor to Winslow Boiler & Engineering Co., Galesburg, Ill. Fire pot for fuel burners. 1,639,153; Aug. 16.
- Tedstone, Bertha E., San Antonio, Tex. Dress shield. 1,630,228; May 24.
- Teed, Earl S., assignor to The Textile Rubber Company, Akron, Ohio. Apparatus for drying artificial silk yarn, or the like. 1,643,594; Sept. 27.
- Teed, John F., Brockton, Mass. Innersole. 1,646,430; Oct. 25.
- Teel, Raymond A., East Bangor, Pa. Flexible coupling. 1,623,857; Apr. 5.
- Teel, Vernon, Trowsdale, Okla. Cushion for chair rockers. 1,636,280; July 19.
- Tector, Charles N., Hagerstown, Ind. Mechanism for slotting piston-ring castings. 1,651,980; Dec. 6.
- Teetor, Daniel C., Tipton, Ind. Piston ring. 1,623,710; Apr. 5.
- Tefft, Ivan D., assignor to The Wahl Company, Chicago, Ill. Fountain pen. 1,624,190; Apr. 12.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Hinge. 1,620,701; Mar. 15.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Door closer. 1,643,932; Sept. 27.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Knob or handle lock. 1,654,149; Dec. 27.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Knob or handle lock. 1,654,489; Oct. 27.
- Teichmann, Albert, Zeitz, Germany. Safety device for elevators, conveyors, and like apparatus. 1,645,883; Oct. 18.
- Teichmann, Karl, Friedenshütte, Germany. Closure for preserving vessels and the like. 1,614,022; Jan. 11.
- Teigel, Austin F., Moorhead, Minn. Cigarette holder. 1,613,545; Jan. 10.
- Teipel, Joseph, and W. F. Exner, assignors to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Controller housing. 1,616,149; Feb. 1.
- Telts, Ernest R., Akron, Ohio. Fastening means. 1,648,155; Nov. 8.
- Tekel, Louis O. (See Graham, A. J., and Tekell.)
- Tekker, William E., Penn Township, St. Joseph County, Ind. Roofing tool. 1,642,390; Sept. 13.
- Telagraph Corporation. (See Van Nostrand, Arleigh N., assignor.)
- Teece, Fred W., Akron, Ohio. Gaseous-fuel mixer. 1,639,579; Aug. 16.
- Teleforce Radio Laboratories Company, The. (See New, Thomas E., assignor.)
- Telegraph Construction and Maintenance Company. (See Riddle, John, assignor.)
- Telegraphie-Gesellschaft mit beschränkter Haftung System Stille. (See Hornauer, Willy, assignor.)
- Telegraphie-Gesellschaft mit beschränkter Haftung System Stille. (See Scheel, Gustav, assignor.)
- Telfer, Andrew. (See Bosle, J. P., and Telfer.)
- Telford, Jasper B., Peckville, assignor of forty one-hundredths to H. B. Harbottle, Scranton, Pa. Electrical connector. 1,642,345; Sept. 13.
- Telford, John C., Stourbridge, England. Building construction. 1,613,546; Jan. 4.
- Telford, John C., Stourbridge, England. Building construction. 1,613,547; Jan. 4.
- Tella Sheet Metal Co. (See Zentner, Mathew, assignor.)
- Teller, Louis J., Providence, R. I. Ophthalmic mounting. 1,622,615; Mar. 29.
- Teller, Spencer J., Hartford, and J. J. Thacher, Wethersfield, Conn., assignors to Pratt & Whitney Company, New York, N. Y. Work support. 1,616,150; Feb. 1.
- Telling, John W. (See Floto, Julius, assignor.)
- Telschow, Lewis F. W., Butler, Ind. Bread container. 1,644,001; Oct. 4.
- Temens, Estafy, Elizabethport, N. J. Hydraulic power apparatus. 1,615,103; Jan. 18.
- Tennelley, Joseph, London, England. Propelling wheeled vehicles. 1,631,900; June 7.
- Tempest, Charles, London, England. Canister or container for tea, coffee, and the like. 1,618,688; Feb. 22.
- Temple, David L., Floral Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. 1,653,790; Dec. 27.
- Temple, Elmer J., Pittsfield, Mass., assignor to General Electric Company, Transformer. 1,620,411; Mar. 8.
- Temple, Fred W., assignor to Temple Inc., Chicago, Ill. Molded article and method of and apparatus for producing it. 1,650,307; Nov. 22.
- Temple, Fred W. (See Temple, Fred W., assignor.)
- Temple, Oliver, Dycrsburg, Tenn. Device for applying ointment to the gums. 1,622,616; Mar. 29.
- Templer, John F. H., Ealing, London, England. Trawling gear. 1,635,294; July 12.
- Templeton, Alexander, Paterson, N. J. Shuttle-tension device. 1,637,359; Aug. 2.
- Templeton, Edwin G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire machine. 1,620,499; Mar. 8.
- Templeton, Walter B., Chicago, Ill. Jack. 1,626,891; Mar. 8.
- Templeton, William R., Roslindale, Mass. Trap. 1,624,446; Apr. 12.
- Templin, Ellis W., Philadelphia, Pa., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Running gear for motor vehicles. 1,651,742; Dec. 6.
- Tench, Leonard. (See Mercer, R., and Tench.)
- Tench Studios, The. (See Freund, Zdenko, assignor.)
- Teneau, Valentin C., Pelham, N. Y. Playing-card holder. Des. 73,272; Aug. 16.
- Teneau, Valentin C., Pelham, N. Y. Playing-card holder. 1,634,696; July 5.
- Tenbaum, Louis S., Rochester, N. Y. Ash-sifter attachment for fire grates. 1,646,941; Oct. 25.
- Tennessee Tool Works, Inc. (See Fischer, F. W., and Dallas, assignors.)

- Tenney, Charles L., Ames, Iowa, and P. W. Thayer, Minneapolis, Minn., said Thayer assignor to American Gas Construction Company, Newton, Iowa. Gas-purifying apparatus. 1,632,457; July 14.
- Tenney, James A. (See Fletcher, O. H., and Tenney.)
- Tensfeldt, Ernst, Charlottenburg near Berlin, Germany. Appliance for storing type bars. 1,648,203; Nov. 8.
- Tension Envelope Co. Inc. (See Swab, Jay G., assignor.)
- Teppema, Jan, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing rubber. 1,637,790; Aug. 2.
- Teppema, Jan, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing rubber. 1,637,791; Aug. 2.
- Tepper, Sidney M., Cleveland, Ohio. Saw. 1,644,619; Oct. 4.
- Teragawa, Takeo, Los Angeles, Calif. Dental vibratory matrix. 1,621,762; Mar. 22.
- Teragawa, Takeo, Los Angeles, Calif. Dental vibratory matrix. 1,634,058; June 28.
- Teragawa, Takeo, Los Angeles, Calif. Dental vibratory matrix. 1,634,059; June 28.
- Tercock, Chris, Naarden, Netherlands. Automatic lighting device for motor cars. 1,652,888; Dec. 13.
- Tercan, Russell, St. Paul, Minn. Nozzle. 1,631,167; June 7.
- Terbune, Herman R., Ridgewood, N. Y., assignor to Skehan & Sweeney, Inc., New York, N. Y. Printed fabric or similar article. Des. 72,076; Feb. 22.
- Terkelsen, Andrew. (See Derry, Jasper, assignor.)
- Ter Meer, Gustav, Hanover-Linden, Germany. Centrifugal separator. 1,651,147; Dec. 13.
- Terna, Géza, Detroit, Mich. Drafting and lay-out instrument. 1,618,788; Feb. 22.
- Termostad Manufacturing Company. (See Andersen, Andrew C., assignor.)
- Termostad Manufacturing Company. (See Archer, Thomas P., assignor.)
- Termostad Manufacturing Company. (See Archer, T. P., assignor.)
- Termostad Manufacturing Company. (See Archer, T. P., and Heintz, assignors.)
- Termostad Manufacturing Company. (See Heintz, Ernest E., assignors.)
- Termostad Manufacturing Company. (See Schnell, William, assignor.)
- Terraz, Symphorian, assignor to the Trustees of Assumption College, Worcester, Mass. Sun dial. 1,629,238; May 17.
- Terrell, Charles A., et al. (See Wood, Joseph E., assignor.)
- Terrell, John. (See Vaughan, J. B., and Terrell.)
- Terrill, Earl B., Colchester, Ill. Ammonia compressor. 1,651,235; Nov. 29.
- Terriase, Henri, and M. Lévy, Geneva, Switzerland. Recovering hydrochloric acid. 1,633,877; June 28.
- Terry, Charles H., Cincinnati, Ohio. Collapsible core. 1,631,838; June 7.
- Terry, Charles H., Cincinnati, Ohio. Mold for forming hollow panels. 1,631,839; June 7.
- Terry, Charles M. (See Cory, R. C., and Terry.)
- Terry, Charles M., assignor to A. W. Cash Company, Decatur, Ill. Automatic regulating means for steam plants. 1,653,324; Dec. 20.
- Terry, E. L. (See Wingo, William W., assignor.)
- Terry, Erwin L., Tuckerman, Ark. Pocket stamp. 1,651,302; Nov. 29.
- Terry, Frank G., Salinas, Calif. Thrashing machine. 1,636,578; July 19.
- Terry, Frederick P., Alameda, Calif. Furnace igniter. 1,631,345; June 7.
- Terry, George A., Buffalo, N. Y. Dental handpiece wrist-joint guard. 1,632,860; June 21.
- Terry, George A., Buffalo, N. Y. Dental handpiece. 1,638,175; Aug. 9.
- Terry, Joseph T., Leadville, Colo., assignor of one-half to H. H. Sheridan, Chicago, Ill. Treatment of ores. 1,627,582; May 10.
- Terry, Matsuo, C., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,639,444; Aug. 16.
- Terry, Roger V., Hilton Village, Va., assignor to Newport News Shipbuilding and Drydock Company. Hydraulic turbine. 1,647,156; Nov. 1.
- Terry, Walter R. (See Stahl, L. R. D., Wilson, Terry, and Hull.)
- Tersh, Edward W. (See Kloss, Vitalia M., assignor.)
- Terwilliger, Charles O., Beacon, assignor to F. v. Briesen, trustee, New York, N. Y. Resin and making the same. 1,624,082; Apr. 12.
- Terwilliger, Charles O., Beacon, assignor to F. v. Briesen, trustee, New York, N. Y. Resin and making the same. 1,624,658; Apr. 12.
- Terwilliger, Gerald D. (See Moses, E. Q., Terwilliger, and Hammond.)
- Terwilliger, Laura E. M., executrix. (See Moses, E. Q., Terwilliger, and Hammond.)
- Terwilliger, Seely M., and W. T. Severen, Los Angeles, Calif. Direction signal. 1,647,380; Nov. 1.
- Terwilliger, William G., Highland, N. Y., and J. Scudder, Brookline, Mass. Carton. 1,652,746; Dec. 13.
- Terziev, George N. (See Sundstrom, C., and Terziev.)
- Tesche, Heinrich, and A. Job, Elberfeld, near Cologne, Germany, assignors to Grussli Dyestuff Corporation, New York, N. Y. Anthraquinone-nitrosamine compound. 1,643,285; Sept. 27.
- Teschler, Samuel, Denver, Colo. Unit for crushing and distributing powdered stone in coal mines. 1,631,233; June 7.
- Teek, John A., Chicago, Ill. Bracket. 1,634,162; June 28.
- Tessier, Charles O. (See Stay, T. D., and Tessier.)
- Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Light-modifying device for cameras. 1,613,363; Jan. 4.
- Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture apparatus. 1,625,505; Apr. 5.
- Tessky, Karl, Esslingen-on-the-Neckar, Germany. Clutch. 1,624,025; Apr. 12.
- Test, Ellis W. (See Hawkes, A. G., and Test.)
- Test, Ellis W. (See Oehm, W. N., and Test.)
- Testi, Nicholas, New York, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. 1,622,982; Mar. 29.
- Testite Company, The. (See Groeniger, W. C., and Cromwell, assignors.)
- Testrup, Nils. (See Söderlund, O., Boberg, and Testrup.)
- Tet-Tie Company. (See Zolleis, John G., assignor.)
- Tetens, Raymond E., Lansing, assignor to General Motors Corporation, Detroit, Mich. Gas-tank support. 1,649,265; Nov. 15.
- Teter, Jacob P., Indianapolis, Ind. Dehydrater for clay slips. 1,630,280; May 31.
- Tetrick, Claude S., Clarksburg, W. Va. Combination spacer store pole. 1,614,577; Jan. 18.
- Tetzlaff, Benjamin A., Berwyn, Ill., assignor to Wittek Manufacturing Co. (Electric switch. 1,644,797; Oct. 11.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Bottle-capping machine. 1,629,599; May 24.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Bottle closure and producing the same. 1,635,510; July 12.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Bottle closure and producing the same. 1,635,511; July 12.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Bottle closure and producing the same. 1,635,512; July 12.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Bottle closure and producing the same. 1,635,513; July 12.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Closure-applying machine. 1,635,514; July 12.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Closure-applying machine. 1,635,515; July 12.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Bottle-capping machine. 1,649,266; Nov. 15.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Conveyor. 1,649,267; Nov. 15.
- Tevedar, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Conveyor. 1,651,981; Dec. 6.
- Tevedar, Swan N., Maywood, Ill. Cap for covering the opening ends of jars, cans, etc. 1,618,393; Feb. 22.
- Tevedar, Swan N., Maywood, Ill., assignor to American Can Company, New York, N. Y. Apparatus for and process of lining can ends. 1,614,023; Jan. 11.
- Tevedar, Swan N., Maywood, Ill., assignor to Swan Metallic Seal & Cap Company. Machine for sealing caps to jars and cans. 1,646,504; Oct. 25.
- Tew, James D., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making rubber tubes. 1,628,286; May 10.
- Tew, James D., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing method and apparatus. 1,631,707; June 7.
- Tew, William W., Banks, Ala. Spring wheel. 1,618,689; Feb. 22.
- Tew, William W., Brundidge, Ala. Safety device for vehicles. 1,637,133; July 26.
- Tewksbury, Dana S., and A. E. Newton, Kankakee, Ill. Furnace-door-operating device. 1,613,490; Jan. 4.
- Tewksbury, Dana S., and A. E. Newton, Kankakee, Ill. Furnace-door mounting. 1,631,840; June 7.
- Texas Company, The. (See Bader, Joseph P., assignor.)
- Texas Company, The. (See Burlingham, James H., assignor.)
- Texas Company, The. (See de Flores, Luis, assignor.)
- Texas Company, The. (See Dimmig, Howard, assignor.)
- Texas Company, The. (See Drake, Rollin L., assignor.)
- Texas Company, The. (See Fitzpatrick, John, assignor.)
- Texas Company, The. (See Hadaway, William S., jr., assignor.)
- Texas Company, The. (See Hall, Frank W., assignor.)
- Texas Company, The. (See Holmes, Ralph C., assignor.)
- Texas Company, The. (See Holmes, R. C., Manley, and Behimer, assignors.)
- Texas Company, The. (See Manley, Frederick T., assignor.)
- Texas Company, The. (See Noel, Frank C., assignor.)

- Texas Company, The. (See Taveau, René de M., assignor.)
- Texas Company, The. (See Walker, George D., assignor.)
- Texas Company, The. (See White, George D., assignor.)
- Texas Company, The. (See Wolcott, Edson R., assignor.)
- Texas Gulf Sulphur Company. (See Kobbe, William H., assignor.)
- Texas Gulf Sulphur Company. (See Schwab, James W., assignor.)
- Texas Gulf Sulphur Company. (See Stewart, Robert H., assignor.)
- Texas Iron Works Sales Corporation. (See Grattan, Joseph G., assignor.)
- Textile Electric Sign Co. (See Wineburgh, Henry H., assignor.)
- Textile Machine Works. (See Brumbach, Alvin L., assignor.)
- Textile Machine Works. (See Janssen, Henry, assignor.)
- Textile Publishing Company. (See Hurst, Albert E., assignor.)
- Textile Rubber Company, The. (See Teed, Earl S., assignor.)
- Textol Metal Art Products Co. (See Goldberg, Abraham, assignor.)
- Th. Goldschmidt A.-G. (See Guertler, W., and Sander, assignors.)
- Thacher, John J. (See Teller, S. J., and Thacher.)
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Chip and blank separator for lathes. 1,616,151; Feb. 1.
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Forming attachment for lathes. 1,616,152; Feb. 1.
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Automatic lathe. 1,618,155; Feb. 1.
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Automatic lathe. 1,637,792; Aug. 2.
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Bushing-feeding attachment for automatic lathes. 1,645,123; Oct. 11.
- Thackray, George E., Westmont Borough, Pa. Bonding rails. 1,627,352; May 3.
- Thaden, Gerhard M., Reading, Pa. Bell. 1,651,303; Aug. 29.
- Thaden, Gerhard M., Reading, Pa. Bell support. 1,651,304; Nov. 29.
- Thaete, Maximilian W., Denver, Colo. Waste receiver. 1,633,688; June 28.
- Thazard, George F., Home Gardens, Calif. Unpluggable bit. 1,639,065; Aug. 16.
- Thaidigsmann, John H. (See Wismer, S. H., and Thaidigsmann.)
- Thal, Adolph F., Chicago, Ill. Treating soap. 1,633,689; June 28.
- Thal, Paul E., Chicago, Ill. Cylinder and valve testing device. 1,649,994; Nov. 22.
- Thalhammer, Karl W., Los Angeles, Calif. Tripod construction. 1,650,747; Nov. 29.
- Thalheimer, Nicholas C., assignor to Union Metal Products Company, Chicago, Ill. Diaphragm buffer mechanism. 1,636,156; July 19.
- Thalheimer, Nicholas C., Chicago, Ill., assignor, by mesne assignments, to Railway Metal Products Company. Sliding-door opening and closing mechanism. 1,649,626; Nov. 15.
- Tharaldsen, Filip, Christiania, Norway. Electric smelting. 1,618,316; Feb. 22.
- Tharaldsen, Filip, Oslo, Norway. Making liquid zinc from blue powder. 1,647,381; Nov. 1.
- Thatcher, David, Cleveland, Ohio. Liner. 1,614,326; Jan. 11.
- Thatcher, Harry S., assignor to The Celite Company, Los Angeles, Calif. Filter aid and making same. 1,632,458; June 14.
- Thatcher, J. H. (See Miller, Jesse P., assignor.)
- Thatcher, M. E., Los Angeles, Calif. Toilet-paper receptacle. 1,626,308; Apr. 26.
- Thate, Herman. (See Maehler, A., and Thate.)
- Thau, Walter E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,652,504; Dec. 13.
- Thayer, Alfred. (See Lieske, R., Thaus, and Bonrath.)
- Thayer, Cecil A., Gary, Ind. Fishing reel. 1,632,522; June 14.
- Thayer, Florence J., Eddyville, Iowa. Curtain stretcher. 1,638,060; Aug. 9.
- Thayer, Fred I., Farmington, N. H. Knot supporter for four-in-hand neckties. 1,623,448; Apr. 5.
- Thayer-Loy, Corporation. (See Horn, Max, assignor.)
- Thayer, Paul W. (See Tenney, Charles I., and Thayer.)
- Thayer, Paul W., Minneapolis, Minn. Soot receptacle. 1,628,521; May 10.
- Thebaud, Victor E., and S. Wesselius, Grand Rapids Township, Kent County, Mich. Machine for mashing roots and vegetables. 1,619,550; Mar. 1.
- Thiele, George I., assignor to The Hooven, Owens, Rentschler Company, Hamilton, Ohio. Sugar-mill machinery. 1,640,060; Aug. 23.
- Thielgaard, Holger, Chicago, Ill., assignor to Electric Graph Advertising Service, Chicago, Ill. Printing mechanism. 1,628,078; May 10.
- Theis, Hugh H., Taylor, Tex. Automobile signal. 1,629,057; May 17.
- Theis, John, et al. (See Cobros, John M., assignor.)
- Theiss, John H., Parlin, N. J. Dipping apparatus. 1,616,397; Feb. 1.
- Thelander, Oscar, assignor to Frost Manufacturing Company, Kenosha, Wis. Flushing mechanism. 1,612,953; Jan. 4.
- Themak, Edward, New York, N. Y. Liquid applicator. 1,633,424; June 21.
- Thener, Arthur F., assignor to Cupples Company Manufacturing, St. Louis, Mo. Slicing tubular articles. 1,654,021; Dec. 27.
- Thener, Arthur F., and J. M. Kountzmann, assignors to Cupples Company, Manufacturers, St. Louis, Mo. Apparatus for counting and packing rings. 1,654,022; Dec. 27.
- Theobald, George A., and T. A. Olson, assignors to Pollock Pen Company, Boston, Mass. Die-casting machine. 1,645,167; Oct. 11.
- Theobold, Charles H., St. Louis, Mo. Swimmer's hand paddle. 1,621,693; Mar. 22.
- Theonett & Co. (See Netter, Jacob, assignor.)
- Theobald, Aris, Jeannette, Pa. Cooking apparatus. 1,636,393; July 19.
- Therlauff, Alfred, Detroit, Mich. Caster. 1,649,087; Nov. 15.
- Thermal Industrial and Chemical (T. I. C.) Research Company Limited. (See Morgan, John S., assignor.)
- Thermal Industrial and Chemical (T. I. C.) Research Company Limited. (See Morgan, J. S., and Rider, assignors.)
- Thermatomic Carbon Company. (See Uhlinger, Roy H., assignor.)
- Thermic Generating Company. (See Carter, Mitchell, assignor.)
- Thermo Electric Battery Company. (See Hermann, Otto, assignor.)
- Thermo Instrument Company, The. (See Bitzel, Andrew, assignor.)
- Thermokept Corporation. (See Bach, Niels P., assignor.)
- Thermokept Corporation. (See Malmquist, Adolph K., assignor.)
- Thermokept Corporation. (See Rooney, Walter E., assignor.)
- Thermokept Corporation. (See Willison, Walter W., assignor.)
- Thero, Charley, assignor to Union Special Machine Company, Chicago, Ill. Machine for overcasting the edges of fabrics. 1,625,633; Apr. 19.
- Theroz Company, The. (See Schaub, Jacob, assignor.)
- Therrien, A. J., & Co. (See Therrien, Adelaire J., assignor.)
- Therrien, Adelaire J., assignor to A. J. Therrien & Co., Lynn, Mass. Pattern holder for grading machines. 1,641,302; Sept. 6.
- Thesen, Oluf, Philadelphia, Pa. Push-button switch. 1,639,757; Aug. 23.
- Thesen, Oluf, Philadelphia, Pa. Drinking glass. 1,651,485; Dec. 6.
- Theurich, Paul, Dresden, assignor to the Firm Wezel & Naumann Aktiengesellschaft, Leipzig, Germany. Advertising panel or decorative wall covering. 1,623,564; Apr. 6.
- Thévoz, Frederic, Geneva, Switzerland. Press. 1,629,010; Mar. 13.
- Thews, Karl B., Sawpit, Colo., assignor to Colorado Vanadium Corporation, New York, N. Y. Recovering vanadium. 1,621,038; Mar. 15.
- Thibaudau, Charles E., Ivry-sur-Seine, France, assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,646,722; July 26.
- Thibaut, Richard E. (See Augur, Richard F., assignor.)
- Thibodeau, Joseph F., A. Deguire, W. Turner, and A. Mc Dermid, assignors to The Spanish River Pulp & Paper Mills, Limited, Espanola, Ontario, Canada. Rope carrier for paper machines. 1,649,044; Oct. 18.
- Thibert, Napoleon E., assignor to The Lock-Em-All Mfg. Co., Worcester, Mass. Detachable fastener for number plates and the like. 1,649,875; Nov. 22.
- Thide, Charles, Brooklyn, N. Y. Self-lubricating and internal-pressure spring. 1,620,301; Mar. 8.
- Thiele, August, Chicago, Ill. Foldable table. 1,646,175; Oct. 13.
- Thiel, Anton, and W. Schmidt, Bremen, Germany. Apparatus for measuring limbs. 1,622,890; Mar. 29.
- Thiel, Louis, Cincinnati, Ohio, assignor to The Cincinnati Lathe and Tool Company. Lathe. 1,614,049; Jan. 11.
- Thiel, Otto, Detroit, Mich., assignor to Silent Automatic Corporation. Motor-controlled valve. 1,642,391; Sept. 13.
- Thiel, Theodore. (See Fountain, A., Balzarini, and Thiel.)
- Thiele, Adolph, Espanola, Wash. Support. 1,618,493; Feb. 22.
- Thiem, Herman C., Rochester, N. Y. Anchoring flange. 1,624,817; Apr. 12.
- Thiemann, John H. (See Suck, A., and Thiemann.)
- Thiemann, William B., Albert City, Iowa. Portable pneumatic elevating device. 1,619,277; Mar. 1.
- Thieme, Otto, Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. 1,617,728; Feb. 15.

- Thieme, Otto, Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting machine. 1,623,217; Apr. 5.
- Thieme, Otto, Hartford, Conn., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Typewriting machine. 1,649,329; Nov. 15.
- Thienemann, Heinz. (See Lueg, P., Drucker, and Thienemann.)
- Thienemann, Heinz, Leverkusen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Process for the prevention of adhesion of the charge, during the activation of carbon. 1,638,070; Aug. 9.
- Thies, Urban C., assignor, by mesne assignments, to K. E. Cowden, receiver, Dayton, Ohio. Partition unit and construction. 1,629,367; May 17.
- Thieslack, Emil, Berlin, Germany. Die-casting machine. 1,638,717; Aug. 9.
- Thless, Karl. (See Wagner, H., Langbein, Beck, and Thless.)
- Thless, Karl, C. J. Müller, and E. Runne, Hochst-on-the-Main, and A. Schaefer, Marxheim-on-the-Taunus, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Thioindigo vat dyestuffs and making same. 1,632,252; June 14.
- Thlessen, John F., Los Angeles, Calif. Combined ash tray and cigarette and cigar extingisher. 1,640,584; Aug. 30.
- Thietten, Frank, assignor of one-third to C. I. Davis and one-third to W. S. Thietten, Twin Falls, Idaho. Attachment for seed planters. 1,632,861; June 21.
- Thietten, William S., et al. (See Thietten, Frank, assignor.)
- Thimgan, Matthew, Murdock, Nebr. Road marker. Des. 73,717; Oct. 25.
- Thimgren, Edward, Popotla, Mexico. Music stand. 1,623,565; Apr. 5.
- Thimme, Charles H., Hollywood, Calif. Producing titles and inscriptions for motion-picture films. 1,614,050; Jan. 11.
- Thoen, Lowell H., Stockton, assignor, by mesne assignments, to Western Harvester Co., San Francisco, Calif. Feeder mechanism and housing for combined harvesters. 1,633,235; June 21.
- Thom, James. (See Thom, Robert A. and J.)
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Can-label cutter. 1,614,578; Jan. 18.
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Container opener. 1,624,375; Apr. 12.
- Thom, Robert A., Bearsden, near Glasgow, and J. Thom, Aberdeen, Scotland, assignors to The Superheater Company, New York, N. Y. Steam generator. 1,623,944; Apr. 5.
- Thom, Winzel W., A. S. T. Lageraad, and A. M. Walzer, Minneapolis, Minn., said Thom and said Lageraad, assignors to said Walzer. Game board. Des. 73,764; Jan. 1.
- Thoma, Eugen, Pforzheim, Germany. Soldering articles. 1,630,771; May 31.
- Thoma, George J., Portland, Oreg. Instantaneous setting of glue between surfaces. 1,624,691; Apr. 12.
- Thoma, Hans, Munich, assignor to Neufeldt & Kuhnke Betriebsgesellschaft m. b. H., Kiel, Germany. Relay-structure suspension. 1,629,324; May 17.
- Thoman, Charles J. (See Hinkley, B. C., Thoman, and Holton.)
- Thoman, Emile. (See Nuhrah, G. A., Thoman, and Rose-wall.)
- Thoman, George C., Columbus, Ohio. Gate valve. 1,630,969; Nov. 29.
- Thomann, Frederick A., East Moline, assignor to Deere & Company, Moline, Ill. Flask for casting metallic wheel hubs. 1,643,140; Sept. 20.
- Thomann, Robert, Lausanne, Switzerland. Gate apparatus for turbines and the like. 1,643,099; Sept. 20.
- Thomas, Adolph A. (See Blickeberger, Charles, assignor.)
- Thomas, Adolph A., New York, N. Y. Loud-speaking telephone receiver. 1,614,327; Jan. 11.
- Thomas, Adolph A., New York, N. Y. Phonographic reproducing apparatus. 1,622,011; Mar. 22.
- Thomas, Adolph A., New York, N. Y. Electric phonograph. 1,625,918; Apr. 26.
- Thomas, Adolph A., New York, N. Y. Electric phonograph reproducer. 1,630,640; May 31.
- Thomas, Adolph A., New York, N. Y. Electric sound reproducer. 1,630,641; May 31.
- Thomas, Adolph A., New York, N. Y. Electric sound reproducer. 1,630,642; May 31.
- Thomas, Adolph A., New York, N. Y. Electric phonograph reproducer. 1,630,643; May 31.
- Thomas, Adolph A., New York, N. Y. Electric sound reproducer. 1,635,390; July 12.
- Thomas, Adolph A., New York, N. Y. Radio receiving apparatus. 1,652,219; Dec. 13.
- Thomas, Albert, and C. Stewart, Paris, France, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,641,788; Sept. 6.
- Thomas, Albert G., Lynchburg, Va. Vacuum or thermionic tube. 1,636,261; July 19.
- Thomas, Albert G., Lynchburg, Va. Vacuum tube and tube circuits. 1,652,880; Dec. 13.
- Thomas, Albert J., Clinton, Ind. Reversible door latch and lock. 1,627,420; May 3.
- Thomas & Armstrong Company, The. (See Pfeiffer, Ferdinand A., assignor.)
- Thomas, Arthur, Mont-sur-Marchienne, assignor to Ateliers de Constructions Electriques de Charleroi, Société Anonyme, Brussels, Belgium. Foundry-ladle crane. 1,629,184; May 17.
- Thomas, Arthur C., assignor to The Little Red Wagon Mfg. Co., Omaha, Nebr. Tractor dump wagon. 1,619,094; Mar. 1.
- Thomas, Arthur D., Black Rock, Victoria, Australia. Mechanism for opening and closing gates, doors, and the like. 1,628,443; May 10.
- Thomas, Arthur E., London, England. Spanner. 1,640,383; Aug. 30.
- Thomas, Arthur E., Wayne, Mich. Door-operating mechanism. 1,645,168; Oct. 11.
- Thomas, Benjamin D., assignor of one-tenth to Thomas-wins construction, 1,625,634; Apr. 19.
- Thomas, Benjamin J., Shamokin, Pa. Self-adjusting valve lifter. 1,623,506; Apr. 5.
- Thomas & Betts Co., The. (See Church, Lewis H., assignor.)
- Thomas & Betts Co., The. (See Davis, A. P., and Buchanan, assignors.)
- Thomas & Betts Co., The. (See Ledbetter, James C., assignor.)
- Thomas & Betts Co., The. (See McMurtrie, Adnah, assignor.)
- Thomas & Betts Co., The. (See Strongson, Herman L., assignor.)
- Thomas & Betts Co., The. (See Thomas, George C., Jr., assignor.)
- Thomas & Betts Co., The. (See Thomas, G. C., Jr., and Church.)
- Thomas, Bruno, Seattle, Wash. Furnace for electrical treatment of gases for the purpose of oxidation of atmospheric nitrogen or for other purposes. 1,634,811; July 5.
- Thomas, Burel, St. Louis, Mo. Safety device for railroad crossing. 1,615,520; Jan. 25.
- Thomas, Chester L., Denver, Colo. Presser foot. 1,623,075; Apr. 5.
- Thomas, Clifford R. (See Day, W. H., and Thomas.)
- Thomas, Commodore J. (See Davies, D. B., and Thomas.)
- Thomas, Daniel W., Richmond, Ind. Plow. 1,616,398; Feb. 1.
- Thomas, Durward D., Beckwith, Calif. Swage and raker gauge. 1,622,745; Mar. 29.
- Thomas, Edward, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Take-up block. 1,625,506; Apr. 19.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Device for weighing sheet material. 1,619,163; Mar. 1.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Testing device. 1,619,164; Mar. 1.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,619,165; Mar. 1.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Testing device. 1,639,818; Aug. 23.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Indicating device. 1,647,320; Nov. 1.
- Thomas, Edward J. (See Grant, W. C., Thomas, and Drew.)
- Thomas, Elba A., et al. (See Minnis, Henry M., assignor.)
- Thomas Elevator Company. (See Wilson, Alexander H., assignor.)
- Thomas, Elmer R., assignor of one-half to V. Harris, Shidler, Okla. Combination clamp. 1,645,463; Oct. 11.
- Thomas, Elmer R., and P. E. Langfitt, Shidler, Okla. Pump jack. 1,628,692; May 17.
- Thomas, Errold B., Newton, assignor to Thomas Products, Inc., Boston, Mass. Sanitary napkin or the like. 1,646,503; Apr. 19.
- Thomas, Frederick, Philadelphia, Pa. Steam trap. 1,619,989; Mar. 8.
- Thomas, Frederick, Philadelphia, Pa. Creasing and folding machine. 1,620,986; Mar. 15.
- Thomas, Frederick, assignor to Rhode Island Braiding Machine Company, Philadelphia, Pa. Hemmer for sewing machines. 1,625,753; Apr. 19.
- Thomas, George B. (See Catlin, H., and Thomas.)
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Rotary snap switch. 1,621,340; Mar. 15.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. 1,628,480; May 10.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. 1,631,841; June 7.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Canopy fixture. 1,650,549; Nov. 22.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Canopy fixture. 1,652,066; Dec. 6.
- Thomas, George C., Malden, Mass., assignor to Converse Rubber Shoe Co. Arctic or gaiter. 1,626,587; Apr. 26.

- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,292; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,293; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,295; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,296; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,297; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,303; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,304; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,312; Oct. 4.
- Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,313; Oct. 4.
- Thomas, George C., jr., Elizabeth, and L. H. Church, Roselle, assignors to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,644,309; Oct. 4.
- Thomas, George E., Philadelphia, Pa. Fermentation apparatus. 1,633,618; June 28.
- Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Universal joint. 1,632,202; June 14.
- Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,635,100; July 5.
- Thomas, George M., Philadelphia, Pa. Constant-surface-speed taking machine. 1,627,353; May 3.
- Thomas, George M., assignor of one-third to P. Garzoni and one-third to J. Grahonia, Wayland, Ky. Permutation lock. 1,629,239; May 17.
- Thomas, George P., Glenshaw, Pa. Metal-punching apparatus. 1,637,013; July 26.
- Thomas, George P., Glenshaw, Pa. Metal-punching machine. 1,650,748; Nov. 29.
- Thomas, Griff E., jr., W. P. Wade, and F. B. Ruwwe, Eagle Lake, Tex. Grain loader. 1,618,155; Feb. 15.
- Thomas, Guy M., et al. (See Rouse, George M., assignor.)
- Thomas, Harold D., assignor to Automatic Shoe Shiner Corporation, New York, N. Y. Time-switch mechanism. 1,625,339; Apr. 19.
- Thomas, Harry W., Indiana, Pa. Dish or analogous article. Des. 72,641; May 10.
- Thomas, Henry. (See Paw, A. E., jr. and Thomas.)
- Thomas, Henry, Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Manufacturing gasoline. 1,624,692; Apr. 12.
- Thomas, Herbert J. (See Scofield, L. M., and Thomas.)
- Thomas, Horace T., Lansing, Mich. Transmission brake. 1,622,475; Mar. 28.
- Thomas, Horace T., Lansing, Mich. Charge-forming device for internal-combustion engines. 1,646,505; Oct. 25.
- Thomas, Howard L., Circleville, Ohio. Fence post. 1,643,100; Sept. 20.
- Thomas, Hubert S., Llandaff, and W. R. Davies, Whitchurch, Wales. Machine for doubling tin plates. 1,617,880; Feb. 15.
- Thomas, Hubert S., Llandaff, and W. R. Davies, Whitchurch, Wales. Machinery employed in the shearing of metal plates or sheets. 1,619,684; Mar. 1.
- Thomas, I. P., and Son Company. (See Wedge, Uley, assignor.)
- Thomas, Idris. (See Vaughn, F. B. and Thomas.)
- Thomas, James A., Albert Lea, Minn. Pilot light. 1,613,064; Jan. 4.
- Thomas, James A., Albert Lea, Minn. Pilot light. 1,650,401; Nov. 22.
- Thomas, James A., Albert Lea, Minn. Pilot headlight. 1,650,402; Nov. 22.
- Thomas, Joel C. J., F. Halliday, and A. Hill, jr., Sulzgent, Ala. Heater. 1,652,067; Dec. 6.
- Thomas, John. (See Wylam, B., Harris, and Thomas.)
- Thomas, John C. (See Dyer, J. G., and Thomas.)
- Thomas, John W., Woodstock, N. Y. Kindling device. 1,651,465; Nov. 29.
- Thomas, Judson L., Manufacturing Co. (See Havener, Arthur R., assignor.)
- Thomas, Judson R., Hamilton, Mont. Hoe. 1,613,144; Jan. 4.
- Thomas, Laurence H. (See Kuhn, F., and Thomas.)
- Thomas, Laurence H. and F. Kuhn, assignors to American Electrical Heater Company, Detroit, Mich. Machine for making asbestos-covered wire. 1,645,884; Oct. 18.
- Thomas-Morse Aircraft Corporation. (See Thomas, Benjamin D., assignor.)
- Thomas, Otto, Pittston, Pa. Wall-paper support. 1,618,241; Feb. 22.
- Thomas, Percy H., Upper Montclair, N. J. Transmission tower for electric circuits. 1,616,931; Feb. 8.
- Thomas, Percy H., Upper Montclair, N. J. Universal transmission tower. 1,616,932; Feb. 8.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Glow-discharge transmitter. 1,626,645; May 3.
- Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Glow-discharge transmitter. 1,626,646; May 3.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Glow-discharge apparatus and operating the same. 1,626,647; May 3.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Glow-discharge microphone. 1,626,648; May 3.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode holder for glow-discharge transmitters. 1,630,454; May 31.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Glow-discharge microphone. 1,638,898; Aug. 16.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Constant-current glow-discharge microphone. 1,654,352; Dec. 27.
- Thomas Products, Inc. (See Thomas, Errol B., assignor.)
- Thomas, R., and Sons Co., The. (See Eckert, Grandon E., assignor.)
- Thomas, R., and Sons Company, The. (See Kaufman, Abram E., assignor.)
- Thomas, Seth, Clock Co. (See Wehrle, Frank X., assignor.)
- Thomas, Sydney E. (See Quick, W., Thomas, and Berwick.)
- Thomas, Thomas C., Evanston, Ill., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Making well points. 1,625,340; Apr. 19.
- Thomas, Thomas H. (See Farmer, C. C., and Thomas.)
- Thomas, Thomas H., Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train-control device. 1,616,663; June 28.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Emergency-valve device. 1,612,832; Jan. 4.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train-control device. 1,644,551; Oct. 4.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake device. 1,649,044; Nov. 15.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,653,130; Dec. 20.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,653,131; Dec. 20.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,653,132; Dec. 20.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,653,133; Dec. 20.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,653,134; Dec. 20.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,653,135; Dec. 20.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,653,136; Dec. 20.
- Thomas, Thomas P. (See Marden, J. W., Thomas, and Conley.)
- Thomas, Walter H., Spencer, Iowa. Foot throttle control. 1,619,319; Mar. 1.
- Thomas, Walter L., Fruitland, Fla. Combined airplane and helicopter. 1,620,787; Mar. 15.
- Thomas, Wellington M. (See Hays, C., and Thomas.)
- Thomas, Wesley A., Memphis, Tenn. Combination ladder and seat. 1,613,387; Feb. 22.
- Thomas, William, assignor to Dempster Mill Manufacturing Company, Beatrice, Nebr. Twin-pump unit. 1,613,491; Jan. 4.
- Thomas, William A., assignor to Central Machine Company, Inc., Philadelphia, Pa. Quick-recharging top for green runs. 1,653,534; Dec. 20.
- Thomas, William C., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Vehicle head lamp. 1,650,550; Nov. 22.
- Thomas, William D., Philadelphia, Pa. Resilient automobile lamp. 1,641,908; Sept. 6.
- Thomas, William G. (See Turrell, J. E., and Thomas.)
- Thomas, William H., 3d, Little Falls, N. Y. Automatic temperature-control valve for liquids or steam. 1,634,525; July 5.
- Thomas, William F., Covendale, Pa. Coal drill or boring machine. 1,626,568; Apr. 26.
- Thomas, William L., Dallas, Tex. Window-sash support. 1,634,599; July 5.
- Thomas, William T. (See Dowd, Raymond E., assignor.)
- Thomas, Willis P., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Roller cleaner. 1,614,502; Jan. 18.
- Thomas, Willis P., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,640,137; Aug. 23.

- Thomas, Wingate S., assignor to Knapp Brothers Manufacturing Company, Chicago, Ill. Attaching means for building trim. 1,629,848; May 24.
- Thomas, Wingate S., assignor to Knapp Brothers Manufacturing Company, Chicago, Ill. Building construction and the like. 1,646,666; Oct. 25.
- Thomaschewski, Otto, Newark, N. J. Cutlery cleaner. 1,646,887; Oct. 25.
- Thomassen, John T., Carlton, Oreg. Fruit drier. 1,624,639; Apr. 12.
- Thompson, John P., Phoenix, Ariz. Vibration check for automobile. 1,612,840; Jan. 4.
- Thompson, Pierce H., Los Angeles, Calif. Wall partition. 1,616,768; Feb. 8.
- Thomlinson, William G., Glasgow, Scotland. Paper bag or envelope. 1,644,095; Oct. 4.
- Thommel, Georg. (See Colditz, W., and Thommel.)
- Thompson, Axel H., New York, N. Y., assignor to The Brunswick-Balke-Coller Company, Chicago, Ill. Bowling-alley pin spotter. 1,621,565; Mar. 22.
- Thompson, Albert F., assignor of one-half to A. T. Walraven, Dallas, Tex. Fire extinguisher. 1,620,142; Mar. 8.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Segregating packaged goods undergoing treatment. 1,612,893; Jan. 4.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can feeder. 1,621,611; Mar. 22.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Vertical cooler. 1,651,912; Dec. 6.
- Thompson, Albert W., Miami, Fla. Fruit-juice extractor. 1,649,755; Nov. 15.
- Thompson, Allison G., et al. (See Ward, Andrew W., assignor.)
- Thompson, Arthur A., assignor of one-half to E. R. McGinis, Oakland, Calif. Ear protector. 1,619,772; Mar. 1.
- Thompson, Arthur G., New York, N. Y., and L. K. Sprague, assignors to The Henry G. Thompson & Son Company, New Haven, Conn. Metal-cutting machine. 1,623,449; Apr. 6.
- Thompson, Arthur E., assignor of one-third to M. Hunt, San Francisco, Calif. Gas-burner attachment. 1,643,911; Sept. 27.
- Thompson, Arthur S., Ontario, Calif. Combined lathe and drill. 1,618,358; Feb. 22.
- Thompson, Arthur S., Ontario, Calif. Watchmaker's desk or cabinet. 1,643,101; Sept. 20.
- Thompson, Arthur W., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Angle ring for transformers. 1,621,039; Mar. 15.
- Thompson, Augustus F., Huntington, W. Va. Gas burner. 1,637,014; July 26.
- Thompson, Augustus F., Huntington, W. Va. Gas-burner cook stove. 1,640,861; Aug. 30.
- Thompson, Augustus H., Addison, Mich. Attachment for electrical heaters. 1,647,553; Nov. 1.
- Thompson Bros. Shoe Co. (See Macdonald, L. S., and Small, assignors.)
- Thompson, Burchard D., Cyclone, assignor of one-half to J. L. Yerdon, Bradford, Pa. Fuel control means for internal-combustion engines. 1,624,693; Apr. 12.
- Thompson, Calvin, Vancouver, British Columbia, Canada. Window-sash securing means. 1,648,371; Nov. 8.
- Thompson, Charles D., Roanoke, Va. Device for extracting bushings and the like. 1,634,600; July 5.
- Thompson, Charles E., Jr., Martinsburg, W. Va. Automatic adjusting apparatus for lawn mowers. 1,652,690; Dec. 13.
- Thompson, Charles F., Youngstown, Ohio. Eye shield. 1,637,092; July 26.
- Thompson, Charles H., Ojai, Calif. Cuspidor. 1,615,729; Jan. 25.
- Thompson, Charles H., assignor to Yarnall-Waring Company, Philadelphia, Pa. Hammer-blow steam trap. 1,625,107; Apr. 19.
- Thompson, Christian J., Peshtigo, Wis. Boat-hull construction. 1,637,973; Aug. 2.
- Thompson, Don N., Syracuse, assignor to Pass & Seymour Inc., Solvay, N. Y. Electric-lamp socket. 1,630,679; May 31.
- Thompson, Donald C. (See Miles, F. J., and Thompson.)
- Thompson, Eugene A., et al. (See Knoff, Leroy K., assignor.)
- Thompson, Fayette L., Portland, and C. A. Sloper, Rainier, Oreg. Toy and operating mechanism therefor. 1,621,140; Mar. 15.
- Thompson, Fearing S., Springfield, Ill. Multiple spacer. 1,643,968; Oct. 4.
- Thompson, Frank E., Plerson Station, Ill. Snowplow. 1,621,040; Mar. 15.
- Thompson, George K., Summit, N. J. Roof-gutter bracket. 1,613,734; Jan. 11.
- Thompson, George K., Summit, N. J. Car truck. 1,616,154; Feb. 1.
- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Time-sounding system. 1,618,242; Feb. 22.
- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Cleaning device for dials of telephone instruments. 1,639,819; Aug. 23.
- Thompson, George T., Lake City, Colo. Tent support. 1,645,885; Oct. 18.
- Thompson, George W., Pittsburgh, Pa. Pipe wrench. 1,645,985; May 3.
- Thompson, George W., Cheboygan, Mich., assignor to Bilex Products Company. Controlling means for ignition cut-offs. 1,629,554; May 24.
- Thompson, Harold E. (See Curme, G. O., Jr., and Thompson.)
- Thompson, Harry E., assignor to Universal Cooler Corporation, Detroit, Mich. Cylinder-cap construction for compressors. 1,634,633; July 5.
- Thompson, Harry H. (See Halse, G. W., Thompson, and Chaney.)
- Thompson, Henry E., Newark, N. J. Closure fastener. 1,625,507; Apr. 19.
- Thompson, Henry G., and Son Company, The. (See Thompson, A. G., and Sprague, assignors.)
- Thompson, Henry P., Chicago, Ill. Windshield heater. 1,622,068; Mar. 22.
- Thompson, Horace W., East Cleveland, assignor to Bardons & Oliver, Cleveland, Ohio. Metal lathe. 1,642,909; Sept. 20.
- Thompson, Howard A., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,619,221; Mar. 1.
- Thompson, Howard A., Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,628,287; May 10.
- Thompson, Howard A., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electro-responsive apparatus. 1,629,011; May 17.
- Thompson, Howard A., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,631,842; June 7.
- Thompson, Howard A., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,641,789; Sept. 6.
- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,633,049; June 21.
- Thompson, Howard A., Edgewood Borough, and C. W. Fallo, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,653,379; Dec. 20.
- Thompson, James H., Hollidays Cove, W. Va. Electron-discharge device. 1,627,127; May 3.
- Thompson, James H., Trenton, assignor to Hussong Dyeing Machine Company, Groveville, N. J. Yarn rack for dyeing machines. 1,614,410; Jan. 11.
- Thompson, James J. (See Ellenburg, Joseph N., assignor.)
- Thompson, Jink, Huntington, W. Va. Ice-cream disher. 1,645,208; Oct. 11.
- Thompson, John A. (See Whitehurst, Calvin A., assignor.)
- Thompson, John L., Waterbury, Conn. Shoe-polishing machine. 1,623,218; Apr. 5.
- Thompson, John M., Edgewood, Iowa. Glareshield. 1,613,364; Jan. 4.
- Thompson, John M., Thorpe, Iowa. Gate-supporting means. 1,616,538; Feb. 8.
- Thompson, John M., and W. H. Buffalo, N. Y. Pipe-cleaning apparatus. 1,612,842; Jan. 4.
- Thompson, John M., and W. H. Buffalo, N. Y. Device for passing cables through pipe lines. 1,620,788; Mar. 15.
- Thompson, John M., and W. H. Buffalo, N. Y. Pine-line-cleaning device. 1,651,562; June 7.
- Thompson, Kenworthy, Mansfield, Ohio. Tread-band-building machine. 1,649,933; Nov. 22.
- Thompson, L. A., Scenic Railway Company, The. (See Darling, Frank W., assignor.)
- Thompson, Lester M., Taylorville, Ill. Tractor. 1,613,681; Jan. 11.
- Thompson, Lewis I., Portland, Oreg. Machine for separating threads from fabric. 1,628,373; May 10.
- Thompson, Lincoln, Naugatuck, and J. B. Marshall, Westport, assignors to The Bristol Company, Waterbury, Conn. Electrical pick-up device for phonograph records. 1,637,165; July 26.
- Thompson, Lindsay, Toronto, Ontario, Canada. Collapsible display box. 1,614,311; Jan. 18.
- Thompson, Louis B., Marshall, Mich. Watch holder. 1,613,492; Jan. 4.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Flow meter and the like. 1,614,217; Jan. 11.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,633,831; June 28.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Induction voltage regulator. 1,635,060; July 5.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Moisture meter. 1,645,077; Oct. 11.
- Thompson, Louis W., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Flow meter. 1,650,664; Nov. 29.
- Thompson Manufacturing Company. (See Thompson, Walter V., assignor.)
- Thompson, Milton D., Fairhaven, Mass. Propeller. 1,626,056; Apr. 26.

- Thompson, Ole W., Durkee, Oreg. Crank shaft. 1,630,038; May 24.
- Thompson, Ole, New York, N. Y., assignor, by mesne assignments, to Splittdorf-Bethlehem Electrical Company, Newark, N. J., Magneto generator. 1,626,367; Apr. 26.
- Thompson, Orville W., assignor to Jas. P. Marsh & Company, Chicago, Ill. Gauge. 1,654,102; Dec. 27.
- Thompson, Otto W., Chicago, Ill. Lawn rake. 1,612,894; Jan. 4.
- Thompson, Otto W., Chicago, Ill. Lawn rake. 1,652,260; Dec. 13.
- Thompson, Paul H. (See Bradford, R. H., La Barr, and Thompson.)
- Thompson, Perce D., Tulsa, Okla. Tonga. 1,614,328; Jan. 11.
- Thompson Products Inc. (See Bissell, Richard E., assignor.)
- Thompson Products Inc. (See Graham, Matthew P., assignor.)
- Thompson Products Inc. (See Hufford, George H., assignor.)
- Thompson, Ray A., assignor to Aluomdy Sign & Signal Co., Chicago, Ill. Sign. 1,649,268; Nov. 15.
- Thompson, Robert et al. (See Moore, S., and Sheets, assignors.)
- Thompson, Robert D. (See Penrod, John, assignor.)
- Thompson, Robert D. (See Penrod, J., and Thompson.)
- Thompson, Robert G., et al. (See Bell, Frank M., assignor.)
- Thompson, Roy S., Bay Village, Ohio. Greenhouse-bar painter. 1,645,976; Oct. 18.
- Thompson, Russell G., and C. W. Crumrine, assignors, by mesne assignments, to North East Appliances, Inc., Rochester, N. Y. Power mechanism. 1,646,465; Oct. 25.
- Thompson, Theodore, assignor of one-half to A. V. Brown, Ely, Minn. Razor-strop stretcher. 1,624,851; Apr. 12.
- Thompson, Thomas, Brighton, Iowa. Ladder. 1,643,649; Sept. 27.
- Thompson, Thomas E., Los Angeles, Calif. Self-checking test device. 1,644,160; Oct. 4.
- Thompson, Thomas M., assignor of one-half to A. B. Wilson, Great Falls, Mont. Agricultural machine. 1,636,928; July 26.
- Thompson, W. A. (See Williamson, James C., assignor.)
- Thompson, Wade B., Detroit, Mich. Magnetic T square. 1,639,580; Aug. 16.
- Thompson, Walter, New York, N. Y. Collar button. 1,648,033; Nov. 8.
- Thompson, Walter N., Taft, assignor to Standard Oil Joint Company, San Francisco, Calif. Rotary core drill. 1,615,921; Feb. 1.
- Thompson, Walter N., Taft, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Core barrel. 1,636,084; July 19.
- Thompson, Walter S. (See Orlov, George, assignor.)
- Thompson, Walter V. (See Lewis, F. P., and Thompson.)
- Thompson, Walter V. E., Los Angeles, Calif. Lawn sprinkler. 1,613,336; Jan. 4.
- Thompson, Walter V. E., Los Angeles, Calif. Hose band. 1,641,559; Sept. 6.
- Thompson, Walter V. E., assignor to Thompson Manufacturing Company, Los Angeles, Calif. Sprinkler with resistance motor. 1,642,910; Sept. 20.
- Thompson, Wayne B. (See Preble, J. J., and Thompson.)
- Thompson, Willard W., Dorchester, Mass., assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y. Illuminating appliance. 1,654,150; Dec. 27.
- Thompson, William, Brookville, Wexford, and W. R. Thompson, The Quay, Wexford, Ireland. Division of feeding troughs for tied cattle. 1,652,068; Dec. 6.
- Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car body construction. 1,630,548; May 31.
- Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car end. 1,640,912; Aug. 30.
- Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car-wall construction. 1,641,208; Sept. 6.
- Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Running-board saddle. 1,644,760; Oct. 11.
- Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car roof. 1,645,078; Oct. 11.
- Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Refrigerator-car roof. 1,647,382; Nov. 1.
- Thompson, William H. (See Thompson, John M. and Thompson, W. H.)
- Thompson, William H., Berkeley, Calif. Pump. 1,628,340; May 10.
- Thompson, William H., assignor of one-third to F. S. Reuser and one-third to J. W. Duncan, Wichita Falls, Texas. Cotton-gusting machine. 1,646,324; Oct. 13.
- Thompson, William R. (See Thompson, William and W. R.)
- Thompson, Willis A. S. (See Gunn, R. W., and Thompson.)
- Thoms, Alexander P. (See Buck, N. E., Roper, and Thoms.)
- Thomsen, Laura K. H., San Francisco, Calif. Dohcng toy. 1,619,446; Mar. 1.
- Thomsen, Peter, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Steam boiler. 1,619,447; Mar. 1.
- Thomsen, Theodor, jr. (See Thomsen, Theodor, sr., and T., Jr.)
- Thomsen, Theodor, sr., and T., Jr., Wittorf, near Neumunster, Germany. Universal grate-bar-molding machine. 1,652,332; Dec. 13.
- Thomsen, Thomas C., assignor to Messrs. Kocofod, Hauberg, Marstrand & Helweg, Aktieselskabet Titan Copenhagen, Denmark. Centrifugal separator. 1,625,919; Apr. 26.
- Thomsen, William A. V., Plainfield, N. J. Flexible coupling. 1,648,078; Nov. 8.
- Thomsen, Albert R., Derby, Conn. Antiskidding device. 1,628,929; May 17.
- Thomson, Albert R., Derby, Conn. Tread member for antiskidding devices. 1,628,930; May 17.
- Thomson, Alexander, Summit, and J. W. Eskholme, Glen Ridge, N. J.; said Eskholme assignor to said Thomson. 1,621,910; Mar. 22.
- Thomson, Charles H., J. Cummskey, C. J. Miller, and A. L. Jones, Liverpool, England. Fluid-controlling valve. 1,622,069; Mar. 22.
- Thomson, David P., Lynn, Mass., assignor to General Electric Company. Inclosed dynamo-electric machine. 1,652,444; Dec. 6.
- Thomson, Edward A., London, England. Heat-insulation lining for cold-storage chambers. 1,614,411; Jan. 11.
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric welding. 1,637,063; July 26.
- Thomson, George I., Chicago, Ill. Golf-stroke-registering device. 1,639,714; Aug. 23.
- Thomson, George I., Chicago, Ill. Golf-stroke-registering device. 1,639,715; Aug. 23.
- Thomson, Herbert G., New York, N. Y., assignor to Anchor Post Fence Company, Garwood, N. J. Fence-fastening device. 1,631,942; June 7.
- Thomson, Herbert G., New York, N. Y., assignor to Anchor Post Fence Company, Garwood, N. J. Fence construction. 1,643,277; Sept. 20.
- Thomson, Herbert G., New York, N. Y., assignor to Anchor Post Fence Company, Garwood, N. J. Fence construction. 1,650,245; Nov. 22.
- Thomson, Judson L., Manufacturing Co. (See Havener, Arthur R., assignor.)
- Thomson Machine Company. (See Parsons, Edward T., assignor.)
- Thomson, McLeod, Chelsea, N. J., assignor to The Rail Joint Company, New York, N. Y. Construction for head-free rail joints. 1,635,648; July 12.
- Thomson, McLeod, Atlantic City, N. J., assignor to The Rail Joint Company, New York, N. Y. Convertible rail-joint structure. 1,650,551; Nov. 22.
- Thomson, Norman W., Farlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Condensation. 1,654,103; Dec. 27.
- Thomson, Ronald F., Chicago, Ill. Bottle-filling device. 1,633,048; June 21.
- Thomson, Roy W., Wallace, Idaho, assignor of one-half to Thompson, George W., Spokane, Wash. Friction brake. 1,643,354; Sept. 18.
- Thomson, S. H., Manufacturing Company, The. (See Hummert, Robert H., assignor.)
- Thonet, Joseph R., Reading, Mass., assignor to Sprague-Hathaway Company. Platesinking die. 1,612,841; Jan. 4.
- Thorburn, Clyde D. (See Bingham, Harold E., assignor.)
- Thordarson, Chester H., Chicago, Ill. Electric jump-spark coil. 1,629,132; May 17.
- Thordarson, Chester H., Chicago, Ill. Amplifying transformer. 1,632,101; June 14.
- Thoren, Josef H. E. (See Hultgren, A. G. E., and Thoren.)
- Thoren, Oscar W., Gresham, Oreg. Toy gun. 1,652,545; Dec. 13.
- Thoresen, Einar, Pittsburgh, Pa. Apparatus for sky-writing. 1,632,153; June 14.
- Thorley, Ira O., Denver, Colo. Transmission-gear set. 1,640,628; Aug. 30.
- Thorpe, Raymond M., Cleveland, Ohio. Wick for oil stove. 1,633,353; June 21.
- Thorn, Charles C., Camden, N. J. Switch throwing and locking mechanism. 1,654,023; Dec. 27.
- Thorn, J. S., Company. (See Doering, Albert L., assignor.)
- Thorn, J. S., Company. (See Renton, Henry N., assignor.)
- Thorn, J. S., Company. (See Rupp, Charles, assignor.)
- Thörnblad, Axel R., Stockholm, and G. W. Nordenswan, Appelviken, Sweden. Parachute. 1,649,934; Nov. 22.
- Thörnblad, Thor G., Stockholm, Sweden. Mechanical date indicator. 1,649,142; Nov. 15.
- Thornburg, Alvin, assignor of one-half to C. H. Haas, Manly, Iowa. Lubricating device. 1,621,844; Mar. 22.
- Thorne, Carl B., Hawkesbury, Ontario, Canada. Plant for bleaching and like purposes. 1,634,388; July 5.
- Thorne, Carl B., Hawkesbury, Ontario, Canada. Bleaching and like purposes. 1,642,978; Sept. 20.
- Thorne, Carl B., Hawkesbury, Ontario, Canada. Bleaching and the like purposes. 1,643,566; Sept. 27.
- Thorne, George E., Trenton, N. J. Temperature regulator. 1,621,816; Mar. 22.

- Thorne, James L., Columbus, Ohio. Painter's scaffold. 1,616,182; Jan. 18.
- Thorne, Lawrence C., assignor to Frantz Manufacturing Co., Sterling, Ill. Folding door. 1,626,764; May 3.
- Thorne, Robert H., Williamsport, Pa. Laminated packing and forming the same. 1,625,508; Oct. 19.
- Thorne, Victor C. (See Lehmann, Otto P. R., assignor.)
- Thornier, Walter, Berlin, Germany. Apparatus for projecting multicolor images in cinematography. 1,634,760; July 5.
- Thornley, Albert B., assignor to Narragansett Machine Company, Pawtucket, R. I. Refrigerating apparatus. 1,636,877; July 26.
- Thornley, Albert B., assignor to Narragansett Machine Company, Pawtucket, R. I. Pump. 1,636,878; July 26.
- Thornley and Company. (See Thornley, F. C., Tapping, and Reynard, assignors.)
- Thornley, Ellen S., executrix. (See Nolan, John W.)
- Thornley, Fred C., F. F. Tapping, Knightsbridge, London, and O. Reynard, Inkerman Terrace, London, England, assignors to Thornley and Company. Obtaining stable aqueous emulsions of pitch and other unsaponified organic matter of mineral origin. 1,653,028; Dec. 20.
- Thornley, William H. (See Nolan, John W., assignor.)
- Thornton, Elizabeth, Detroit, Mich. Mixing device for internal-combustion engines. 1,633,050; June 21.
- Thornton, Frank C., East Cleveland, Ohio. Metal container. 1,615,054; Jan. 18.
- Thornton, Frank C., East Cleveland, Ohio. Metal-container sealing-closure-fastening apparatus. 1,640,585; Aug. 30.
- Thornton, Frederick, Huntington, W. Va. Trolley wheel. 1,622,296; Mar. 29.
- Thornton, George H., Patterson, Ill. Apparatus for use in packing ruit and the like. 1,643,429; Sept. 27.
- Thornton, John E., London, England. Cinematograph film material. 1,635,516; July 12.
- Thornton, John E., London, England. Manufacture of cinematograph positive films. 1,649,756; Nov. 15.
- Thornton, John E., West Hampstead, London, England. Optical system for cameras, cinematograph projectors, and similar apparatus. 1,654,991; Dec. 27.
- Thornton, Louis P., Portland, Ore. Indoor football game. 1,615,491; Jan. 25.
- Thornton, Roy A., North Weymouth, Mass. Combined pump and can opener. 1,632,933; June 21.
- Thornton Trolley Wheel Co. (See Fearing, J. L., and Sellman, assignors.)
- Thornum, William, Salt Lake City, Utah. Flexible wheel. 1,631,349; June 7.
- Thornycroft, Tom, Westminster, England. Cylinder of internal-combustion engines. 1,644,860; Oct. 11.
- Thorp, Earl L., Superior, Wis. Flash-light holder. 1,621,645; Mar. 22.
- Thorp, Fred W., assignor to Northern Corrugating Company, Green Bay, Wis. Napkin dispenser. 1,648,121; Oct. 18.
- Thorp, James M., Alameda, Calif. Multiwheel propelling mechanism for motor vehicles. 1,643,476; Sept. 27.
- Thorp, Joe J., Breckwalth, Tex. Grease cup. 1,638,377; Aug. 9.
- Thorp, Noah O., Cleo, Tex. Wire stretcher. 1,613,209; Jan. 4.
- Thorp, Vaughn P., River Edge, N. J., assignor to American Telephone and Telegraph Company. Carrier telegraph receiver. 1,642,703; Sept. 20.
- Thorne, Frank B., Venice, Ohio. Alarm. 1,615,148; Jan. 18.
- Thorne, Frederick W. (See Krueger, A. G., and Thorne.)
- Thorne, Joseph M., San Francisco, Calif. Furring nail. 1,641,303; Sept. 6.
- Thorne, Walter W. (See Hochstetter, F. W., and Thorpe.)
- Thorne, Willard G., Los Angeles, Calif. Burglar detector. 1,634,472; July 5.
- Thornby, Karl J., assignor to California Corrugated Culvert Company, Oakland, Calif. Convertible automatic floodgate and controllable headgate. 1,634,697; July 5.
- Thorsen, P. S., & Company. (See Bullard, Maurice L., assignor.)
- Thorsen, Lars M., and K. B. Ward, Chicago, Ill. Combination warm-air cleaner and heat converter. 1,635,605; Aug. 9.
- Thorsten, Thorleif, Pittsburgh, Pa. Conveyer. 1,627,354; May 3.
- Thorvald, Goodwin, Glyndon, Minn. Tractor potato digger. 1,631,234; June 7.
- Thrall, Wayne E., Worcester, Mass. Carburetor tester. 1,615,000; Jan. 18.
- Thrasher, Charlie, et al. (See Gregory, B., and Mitchell, assignors.)
- Thrasher, Halbert J., et al. (See Ackerman, Chester W., assignor.)
- Threadgill, William A., Miami, Fla. Concrete block mold. 1,631,901; June 7.
- Three C Davenport Company. (See Konrad, Otto, assignor.)
- Threefoot, Frederick M., et al. (See Threefoot, L., and Elkin, assignors.)
- Threefoot, Gladys L., et al. (See Threefoot, L., and Elkin, assignors.)
- Threefoot, Henry M., et al. (See Threefoot, L., and Elkin, assignors.)
- Threefoot, Louis, et al. (See Threefoot, L., and Elkin, assignors.)
- Threefoot, Louis, and G. W. Elkin, Meridian, Miss., assignors of one-tenth to L. Threefoot, one-tenth to G. L. Threefoot, one-tenth to F. M. Threefoot, one-tenth to G. L. Threefoot, one-tenth to H. M. Threefoot, one-sixth to G. W. Elkin, one-sixth to C. H. Elkin, and one-sixth to M. Elkin. Conveyer system. 1,632,203; June 14.
- Threefoot, Louis, and G. W. Elkin, Meridian, Miss., assignors of one-tenth to L. Threefoot, one-tenth to G. L. Threefoot, one-tenth to F. M. Threefoot, one-tenth to G. L. Threefoot, one-tenth to H. M. Threefoot, one-sixth to G. W. Elkin, one-sixth to C. H. Elkin, and one-sixth to M. Elkin. Conveyer system. 1,632,204; June 14.
- Thrift, Homer C., Burkburnett, Tex. Apparatus for screwing together and unscrewing joints of pipe and the like. 1,617,509; Feb. 15.
- Thrift, Homer C., Burkburnett, Tex. Rotary. 1,642,220; Sept. 13.
- Thrift, Homer C., Houston, Tex. Pump mechanism. 1,645,670; Oct. 18.
- Thrixton, William D., Belmar, N. J. Portable collapsible crate. 1,633,425; June 21.
- Thronsen, Sigurd, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and mechanism for winding strand material. 1,639,676; Aug. 23.
- Thropp, Damon R., Stockton, Calif. Revolving scraper. 1,629,648; Mar. 22.
- Throop, Newton A., Chicago, Ill. Vacuum cleaner. 1,642,518; Sept. 13.
- Thropp, Joseph W. (See Bonner, W. T., and Thropp.)
- Thropp, Joseph W., Trenton, N. J. Magnetic clutch. 1,621,383; Mar. 15.
- Thropp, Joseph W., Trenton, N. J. Control system. 1,629,384; Mar. 15.
- Thropp, Joseph W., Trenton, N. J. Power-transmission system. 1,621,385; Mar. 15.
- Thropp, Joseph W., Trenton, N. J. Safety stop mechanism. 1,621,442; Mar. 15.
- Thrush, Homer A., Peru, Ind. Water relief valve. 1,629,552; Mar. 8.
- Thrush, Homer A., Peru, Ind. Temperature damper regulator. 1,645,886; Oct. 18.
- Thullen, J. C. (See Thullen, Louis H., assignor.)
- Thullen, Louis H., Upper Montclair, N. J., assignor, by mesne assignments, to J. C. Thullen, Leetonia, Ohio. Transformer. 1,654,923; July 5.
- Thum, Edmund, Pawtucket, R. I. Toy mechanism. 1,644,314; Oct. 4.
- Thum, George E., Elizabeth, N. J. Cone carrier. 1,627,583; May 10.
- Thum, Walter A. (See Shickman, A. J., Thum, and Dempsey.)
- Thunberg, Ernst J., and H. G. Åkerlind, Trollhattan, Sweden. Detachable coupling for lifting ropes and the like. 1,618,851; Feb. 22.
- Thurber, Harry F. (See Carmichael, A. J., and Thurber.)
- Thurber, Harry F., assignor to The Greist Manufacturing Company, New Haven, Conn. Lamp. Des. 74,081; Dec. 13.
- Thurchar, Theodore, Chicago, Ill. Smoke washer. 1,640,018; Aug. 30.
- Thurley, Arthur J., London, England. Adjustable single-lever pipe and nut wrench with ratchet-like control. 1,626,309; Apr. 26.
- Thurlow, William E., et al. (See Frost, Walter E., assignor.)
- Thurman, Fred A., Apache, Okla. Box. 1,625,920; Apr. 26.
- Thurman, Tandy B., Kansas City, Mo., assignor to The Artcraft Company, Hinge. 1,622,617; Mar. 29.
- Thurnan, Carl G., New Hartford, N. Y. Workman's saddle belt. 1,642,911; Sept. 20.
- Thurmann, Otto, Berlin, Germany. Cocoa and chocolate grinder. 1,620,702; Mar. 15.
- Thurstensen, Soren, assignor to Henry Vogt Machine Co., Louisville, Ky. Return bend and terminal fitting. 1,647,321; Nov. 1.
- Thurston, Arthur L., Freeport, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Company, Inc., Garden City, N. Y. Airplane radiator. 1,650,665; Nov. 29.
- Thurston, Charles B., assignor of one-third to W. S. Buchner and one-sixth to R. B. Thurston, Oldale, Calif. Oil-well pump. 1,625,230; Apr. 19.
- Thurston, Ernest B., assignor to The Houghton Elevator & Machine Co., Toledo, Ohio. Control mechanism. Re16,658; June 14.
- Thurston, Ernest B., assignor to The Houghton Elevator & Machine Co., Toledo, Ohio. Switch mechanism. Re16,810; Dec. 6.
- Thurston, Ernest B., assignor to The Houghton Elevator & Machine Company, Toledo, Ohio. Controller for electric elevators. 1,653,443; Dec. 20.
- Thurston, Fred W., New York, N. Y. Mining drill. 1,642,183; Sept. 13.
- Thurston, Herman B. (See Roby, Frank M., assignor.)
- Thurston, Herman B., Cleveland Heights, Ohio. Low-water alarm. 1,617,928; Feb. 15.
- Thurston, Herman B., Cleveland Heights, Ohio. Low-water alarm. 1,619,222; Mar. 1.
- Thurston, Herman B., Cleveland Heights, Ohio. Low-water alarm. 1,629,936; May 24.

- Thurston, Herman B., Cleveland Heights, Ohio. Low-water alarm. 1,629,937; May 24.
- Thurston, Herman B., Cleveland, Ohio. Low-water alarm. 1,629,938; May 24.
- Thurston, Howard, Beechhurst, and H. Jansen, New York, N. Y. Method of and apparatus for producing theatrical illusions. 1,618,264; Jan. 4.
- Thurston, Robert B., et al. (See Thurston, Charles B., assignor.)
- Thurston, Tennis R., Spokane, Wash. Bath cabinet. 1,643,528; Sept. 27.
- Thurtle, Fred E., Butte, Mont. Folding tent. 1,623,507; Apr. 5.
- Thwing, Charles F., Great Cacapon, W. Va. Automobile speedway device. 1,630,229; May 24.
- Thust, George J., Appleton, Wis. Expanding mill. 1,644,552; Oct. 4.
- Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Electric temperature control. 1,651,236; Nov. 29.
- Thwing Instrument Company. (See Thwing, Charles B., assignor.)
- Thyogen Company, The. (See Horton, Daniel T., assignor.)
- Thyssen & Co. Aktiengesellschaft. (See Glaubitz, Arthur, assignor.)
- Thyssen & Co. Aktiengesellschaft. (See Laszlo, Franz, assignor.)
- Thyssen, Conrad, Aachen, Germany. Feeding articles. 1,637,030; July 26.
- Tibbels, Myron E., assignor to The Herbrand Company, Fremont, Ohio. Flash winder. 1,615,892; Feb. 1.
- Tibbens, Samuel K., assignor to one-half to W. F. Martin, Harrisburg, Pa. Safety hook. 1,627,470; May 3.
- Tibbets, Ernest R. (See Pleasant, C., and Tibbets.)
- Tibbets, Charles H., New Castle, Colo. Device for preventing spreading of railway rails. 1,651,075; Nov. 29.
- Tibbets, Milton (See Andrews, F. W., and Tibbets.)
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,620,744; Mar. 15.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Lock mechanism. 1,626,106; Apr. 26.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,627,753; May 10.
- Tibbets, Robert M., Long Beach, assignor of seventy-two and one-half per cent to W. L. Burroughs and twenty-seven and one-half per cent to D. G. Lorraine, Los Angeles, Calif. Rod rack. 1,634,859; July 5.
- Tilden, Frederick, Grand Rapids, Mich. Faucet. 1,638,020; Aug. 9.
- Tibbets, Worley A., et al. (See Hudson, A. D., and Smith, assignors.)
- Tie, Francis A., assignor to The Electric Railway Equipment Company, Cincinnati, Ohio. Hanger for trolley wires. 1,629,368; May 17.
- Tice, James Y., Bloomfield, N. J. Ash receiver. 1,634,761; July 5.
- Tice, Merlin E., Wappingers Falls, assignor to Dutchess Fibre Company, Inc., New York, N. Y. Dyeing. 1,652,649; Dec. 13.
- Tichenor, Carl M. (See Tichenor, Harry M. and C. M.)
- Tichenor, Harry M. and C. M., Detroit, Mich. Window-control mechanism. 1,651,003; Nov. 29.
- Tichenor, Paul B., et al. (See Zimmer, Samuel B., assignor.)
- Tichota, August, Dodge, Nebr. Adjustable seat. 1,623,818; Apr. 5.
- Tichota, Rudolph, Dodge, Nebr. Antifrost vision appliance. 1,636,879; July 26.
- Tichota, Vencel J., Dodge, Nebr. Draft equalizer. 1,650,983; Nov. 29.
- Tickel, Walter D., Oklahoma City, Okla. Figure toy. 1,649,045; Nov. 15.
- Tidwell, William A., Indianapolis, Ind. Toy gun. 1,626,892; May 3.
- Tidwell, William A., Indianapolis, Ind. Missile for toy guns. 1,646,122; Oct. 18.
- Tiedke, Hans F., Saginaw, Mich., assignor to Baker Perkins Company, Incorporated, White Plains, N. Y. Flour duster. 1,642,519; Sept. 13.
- Tiedemann, Anton H., Weehawken, N. J. Caster. 1,645,831; Oct. 1.
- Tiedemann, Paul, Brooklyn Township, Cuyahoga County, Ohio. Adjustable cot. 1,644,043; Oct. 4.
- Tiedemann, Robert, Munich, Germany. Bearing and direction indicator with section map for vehicles. 1,644,454; Oct. 4.
- Tiefel, Charles G., Rochester, N. Y. Overinflation-preventing apparatus. 1,619,383; Mar. 1.
- Tiefel, Charles G., assignor to The Todd Company, Inc., Rochester, N. Y. Work-ejecting mechanism for printing apparatus. 1,626,649; May 3.
- Tiefenbacher, Thomas B., Elizabeth, N. J. Boring-tool holder. 1,647,590; Nov. 1.
- Tieke, William. (See Wille, K., and Tieke.)
- Tielkemeyer, Henry, St. Louis, Mo. Curtain and drape fixture. 1,630,549; May 31.
- Tielkemeyer, Henry, St. Louis, Mo. Furnace. 1,650,749; Nov. 29.
- Tierney, John E., St. Paul, Minn. Cover attachment for bathtubs. 1,615,351; Jan. 25.
- Tierney, Miles A., Minneapolis, Minn. Fixture-attaching strap. 1,618,610; Feb. 22.
- Tierney, Miles A., Minneapolis, Minn. Fixture-attaching strap. 1,621,566; Mar. 22.
- Tierney, Miles A., Minneapolis, Minn. Fixture-attaching strap. 1,642,796; Sept. 20.
- Tierney, William H., Washington, D. C. Swing. 1,640,862; Aug. 30.
- Tietjen, Diedrich W., assignor to E. R. Wagner Mfg. Company, North Milwaukee, Wis. Roller bearing. 1,629,600; May 24.
- Tietz, Walter M., Newark, N. J. Razor-blade holder. 1,624,640; Apr. 12.
- Tietz, Walter M., Newark, N. J. Razor hone and strop. 1,629,980; May 24.
- Tiffany & Company. (See Barney, Arthur L., assignor.)
- Tiffany & Company. (See Mitchell, Walter R., assignor.)
- Tiffany, Harry J., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. 1,618,852; Feb. 22.
- Tiffany Manufacturing Company. (See Joyce, Harold L., assignor.)
- Tift, Thomas, de C. (See Herthel, E. C., and Tift.)
- Tirik, Peter. (See Paulus, R., and Tirik.)
- Tilden, Charles H. (See Leckliter, Henry L., assignor.)
- Till, Henry, Los Angeles, Calif. Creating a hydraulic head. 1,623,869; Apr. 5.
- Till, Steven L., Chicago, Ill. Boiler feed trap. 1,631,708; June 1.
- Tillberg, Erik W., assignor to S. Hellström, Stockholm, Sweden. Producing bricks and tiles. 1,647,063; Oct. 25.
- Tilley, Edwin F., Jr., Plainfield, N. J. Oven. 1,615,183; July 5.
- Tilling-Stevens Motors Limited. (See Whitehorn, Harold K., assignor.)
- Tillman, Ferdinand J., St. Louis, Mo. Safety-razor-blade sharpener. 1,648,972; Nov. 15.
- Tillman, Ferdinand J., assignor to Yard-O-Meter Corporation, St. Louis, Mo. Casing for a cloth-measuring machine. Des. 73,987; Nov. 29.
- Tillman, Ferdinand J., assignor to Yard-O-Meter Corporation, St. Louis, Mo. Measuring and computing machine. 1,622,300; Mar. 29.
- Tillman, Ferdinand J., assignor to Yard-O-Meter Corporation, St. Louis, Mo. Detachable counter bracket for supporting fabric measuring and computing machines. 1,640,160; Aug. 23.
- Tillotson Manufacturing Co., The. (See Braselton, Chester H., assignor.)
- Tillotson Manufacturing Company, The. (See Ritter, George F., assignor.)
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Eye-testing cabinet. 1,630,281; May 31.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Apparatus and process for producing optical lenses. 1,630,724; May 31.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Multifocal lens. 1,641,790; Sept. 6.
- Tillyer, Edgar D., and N. M. Baker, assignors to American Optical Company, Southbridge, Mass. Surfacing machine. 1,639,012; Aug. 16.
- Tilver, Edgar D., and H. R. Moulton, assignors to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,644,798; Oct. 11.
- Tilmanns, Carl W., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Can opener. 1,635,649; July 12.
- Tilt, Le Roy W., Baltimore, Md. Drain guard for washing machines. 1,626,125; Apr. 26.
- Timbs, Edward, Los Angeles, assignor to Union Tool Company, Torrance, Calif. Draw works with cooling apparatus. 1,613,680; Jan. 11.
- Timbs, Edward, Los Angeles, assignor to Union Tool Company, Torrance, Calif. Underreamer. 1,634,001; June 28.
- Timbs, Edward, Los Angeles, assignor to Union Tool Company, Torrance, Calif. Pulley support for crown blocks. 1,639,116; Aug. 16.
- Timbs, Edward, Los Angeles, Calif., assignor to The National Supply Company of Delaware, New York, N. Y. Crown-block bearing-sheave unit. 1,649,995; Nov. 22.
- Timbs, Edward, Los Angeles, and L. E. Zerbe, Moneta, assignors to Union Tool Company, Torrance, Calif. Unitary structure for crown sheaves. 1,642,979; Sept. 20.
- Timbs, Edward, Los Angeles, L. E. Zerbe, Moneta, and F. von Schlegel, Pasadena, assignors to Union Tool Company, Torrance, Calif. Sand reel for well-drilling rig. 1,648,123; Oct. 13.
- Time-O-Stat Corporation. (See Gauger, Frank A., assignor.)
- Time-O-Stat Corporation. (See Gauger, F. A., and Johnson, assignors.)
- Timeus, Andrew, Sidney, Ohio. Locking mechanism for shock ropes. 1,631,439; June 7.
- Timken Roller Bearing Company, The. (See Alden, Herbert W., assignor.)
- Timken-Detroit Axle Company, The. (See Alden, H. W., and Hufferd, assignors.)
- Timken-Detroit Axle Company, The. (See Morgan, Matthew B., assignor.)
- Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
- Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)

- Timken Roller Bearing Company, The. (See Miller, George L.)
- Timken Roller Bearing Company, The. (See Sanders, Walter C., assignor.)
- Timken Roller Bearing Company, The. (See Schlaupitz, O. and Schum, assignors.)
- Timken Roller Bearing Company, The. (See Scribner, William L., assignor.)
- Timken Roller Bearing Company, The. (See Wallin, Philip, assignor.)
- Timm, Ellen V. (See Loftus, Thomas L., assignor.)
- Timme, Albert F., Kenosha, Wis. Revaporizer. 1,650,246; Nov. 22.
- Timmerman, Frank J. (See Kelly, William A., assignor.)
- Timmis, William W., Jamaica, N. Y. assignor to M. E. Conran & Co., Inc. Level. 1,612,343; Jan. 4.
- Timmons, J. S., Inc. (See Coggeshall, Thelwell R., assignor.)
- Timmons, J. S., Inc. (See Forrester, Melvyn B., assignor.)
- Timmons, John S., Philadelphia, Pa. Loud-speaking telephone. 1,650,474; Nov. 22.
- Timmons, Lindsay H., assignor to A. C. Hoffner, Des Moines, Ia. Humidifier. 1,618,243; Feb. 22.
- Timmons Radio Products Corporation. (See Fisher, Roy S., assignor.)
- Timpson, Lewis G. M. (See Ferguson, G. E., and Timpson.)
- Timpson, Thomas W., assignor to R. H. Macy & Co., Inc., New York, N. Y. Display table. 1,644,289; Oct. 4.
- Tin Decorating Company, The. (See Hermani, Henry, assignor.)
- Tin Decorating Company of Baltimore, The. (See Hermani, Henry, assignor.)
- Tindall, Carl A., assignor to J. R. Showers, Shelbyville, Ind. Till. 1,647,942; Nov. 1.
- Tingley, Bruce H., assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Automatic shuttle control mechanism for adding machines. 1,625,291; Apr. 19.
- Tingley, Leonard C., assignor to Federal Products Corporation, Providence, R. I. Cylinder gauge. 1,619,771; Mar. 1.
- Tingley, Philo B., Glen Ridge, N. J. Cigarette holder. 1,620,302; Mar. 8.
- Tingley, Stephen L., Nitro, W. Va. Apparatus for cracking and distilling hydrocarbon oils. 1,627,937; May 10.
- Tingley, Stephen L., Nitro, W. Va. Oil distillation and cracking. 1,627,938; May 10.
- Tinius Olsen Testing Machine Company. (See Lewis, Robert D., assignor.)
- Tinius Olsen Testing Machine Company. (See Lewis, R. B., and Williams, assignors.)
- Tinius Olsen Testing Machine Company. (See Lundgren, Jacob, assignor.)
- Tinker, Frank, Sutton Coldfield, England. Production of petrol. 1,632,011; June 14.
- Tinker, Herbert W., assignor to Federal Pressed Steel Company, Milwaukee, Wis. Bumper structure for vehicles. 1,614,503; Jan. 18.
- Tinkess, Alfred S., Stockton, Calif. Combination lunch box and table. 1,615,580; Jan. 25.
- Tinnerman, Albert H., Cleveland, Ohio. Stove-leg connection. 1,646,267; Oct. 18.
- Tinnerman, Albert H., Cleveland, Ohio. Manifold for gas ranges. 1,651,166; Nov. 29.
- Tinsley, Edward O., assignor to Robert Gair Company, New York, N. Y. Vending display support. 1,639,787; Aug. 28.
- Tinsley, Edward O., assignor to Robert Gair Company, New York, N. Y. Polygonal container. 1,649,088; Nov. 15.
- Tinsley, Thomas G., Portland, Oreg. Percolator. 1,638,969; Aug. 16.
- Tinsman, Samuel H., Morris, Ill. Riding cultivator. 1,630,772; Mar. 31.
- Tintner, George L. (See Hill, C. B., and Tintner.)
- Tipton, Edna S., Jackson Heights, N. Y. Dental compact. 1,626,310; Apr. 26.
- Tipton, Edna S., New York, N. Y. Beauty compact. 1,626,311; Apr. 26.
- Tipton, Edna S., New York, N. Y. Beauty compact. 1,626,312; Apr. 26.
- Tiranty, Philippe H. L. (See Conti, J. T. F., and Tiranty.)
- Tiregate Valve Corporation. (See Welton, Park T., assignor.)
- Trone, Charles, Buffalo, N. Y. Door lock. 1,649,424; Nov. 15.
- Tisch, Roland W., Grand Rapids, Mich. Bird house. 1,628,597; May 10.
- Tisdale, Harold W. (See Bridges, F., Firman, Tisdale, and Hoskins.)
- Tisdell, William M., and L. S. Puls, Los Angeles, Calif. Garment sleeve with detachable and reversible cuff. 1,648,703; Nov. 8.
- Tischen, Paul, Detroit, Mich. Hinge. 1,627,584; May 10.
- Tishlarich, Ottmar M. (See Hall, J. A., Jr., and Tishlarich.)
- Titanic Double Cutter Trust. (See Swickard, Frank, assignor.)
- Titanium Alloy Manufacturing Company, The. (See Kinzie, Charles J., assignor.)
- Titcomb, Lee R., Brooklyn, and H. S. Ashmun, New York, N. Y. Device for extinguishing fires. 1,644,290; Oct. 4.
- Titcomb, Lee R., Brooklyn, and H. S. Ashmun, New York, N. Y. Device for cleaning pipes. 1,647,759; Nov. 1.
- Titeflex Metal Hose Co. (See Fulton, William H., assignor.)
- Titeflex Metal Hose Co. (See Herbst, William K., assignor.)
- Titgen, Harry W., Philadelphia, Pa. Tumbling mill. 1,642,632; Sept. 13.
- Titterton, Frank A., and C. S. Renwick, Richmond, assignors to Hopkins Spray Equipment Company, San Francisco, Calif. Controlling the distribution of liquids. 1,643,969; Oct. 4.
- Titterton, Morris M., et al. (See Titterton, Morris M., assignor.)
- Titterton, Morris M., assignor to C. H. Colvin and M. M. Titterton, Brooklyn, N. Y. Stabilizer. 1,645,079; Oct. 11.
- Titterton, Morris M., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Steam press. 1,654,353; Dec. 27.
- Titus, Alfred E., Trenton, N. J. Refrigerator door lock. 1,618,693; Feb. 8.
- Titus, Alfred E., Trenton, N. J. Door hinge. 1,645,977; Oct. 18.
- Titus Blatter & Company. (See Biva, Lucien, assignor.)
- Titus, Edwin A., Moline, Ill. Coal-chute gate. Re16,633; May 24.
- Titus, Helena J., New York, N. Y. Hexagonal cosmetic box. Dec. 72,342; May 10.
- Titus, John E., Chicago, Ill. Automatic adjuster for push rods. 1,631,563; June 7.
- Titusville Forge Company, et al. (See Davidson, William D., assignor.)
- Titusville Forge Company. (See Montgomery, Gustavus, assignor.)
- Titusville Forge Company. (Montgomery, G. A., and Driscoll, assignors.)
- Titusville Forge Company, et al. (See O'Brien, Frederick J., assignor.)
- Tival, Henri L. P., Le Pec, France. Preparing products of organic origin. 1,630,985; May 31.
- Tiendeck, William, Clydebank, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-straightening machine. 1,625,691; Apr. 19.
- Tjoen Siang Ie. (See Eilers, Jan., assignor.)
- Tjossem, Kinney, Paulina, Iowa. Loading gun. 1,639,018; Aug. 16.
- Tobacco By Products and Chemical Corporation. (See Gross, E. M., and Arnold, assignors.)
- Tobeler, Max E., Detroit, Mich. Removable punch. 1,635,909; July 12.
- Tober, Carl, Berlin-Karlshorst, Germany. Braiding machine. 1,635,285; July 12.
- Tobey, Harry W., Pittsfield, Mass., assignor to General Electric Company. Electric welding. 1,637,031; July 16.
- Tobey, Thomas J. (See Shuell, F. W., Ledbetter, and Tobey.)
- Tobias, Edward, et al. (See Butterbaugh, Ralph B., assignor.)
- Tobias, Maurice J., Hudson, Wis. Display cabinet. 1,647,435; Nov. 1.
- Tobin, James F. (See Fitch, J. S., and Tobin.)
- Tobin, John M., Somerville, assignor to William M. Bailey Company, Boston, Mass. Making floors. 1,646,667; Oct. 25.
- Tobin, Joseph V., Wissahickon, Pa. Sled brake. 1,628,693; May 17.
- Tobita, Toshio, assignor to Konishi Kotakudo Company, Inc., New York, N. Y. Watch-crystal tray. 1,625,754; Apr. 19.
- Tobler, Richard, assignor to Society of Chemical Industry of Basle, Basle, Switzerland. Manufacture of 2:3-aminonaphthoic acid. 1,629,894; May 24.
- Tobold, Ewald F. (See Bronson, A. E., and Tobold.)
- Tobold, Ewald F., Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cincinnati, Ohio. Dust can. 1,628,694; May 17.
- Tobold, Ewald F., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Sheet-metal article. 1,645,832; Oct. 18.
- Tobolla, Victor. (See Elchhorn, Charles, assignor.)
- Tobolla, Victor, Chicago, Ill. Belt-hook lacing. 1,653,791; Dec. 27.
- Tockwin, Gregory J., Boston, Mass. Signal switch. 1,634,347; July 5.
- Todd, Albert E., Seattle, Wash. Folding ironing board. 1,622,403; Mar. 29.
- Todd, Albert E., Seattle, Wash. Folding ironing board. 1,622,404; Mar. 29.
- Todd Company, The. (See Lindemuth, William E., assignor.)
- Todd Company, The. (See Smith, Burgess W.)
- Todd Company, The. (See Tiefert, Charles G., assignor.)
- Todd Dry Dock, Engineering & Repair Corporation. (See Haynes, George P., assignor.)
- Todd, Guerin. (See Powell, E. B., and Todd.)
- Todd, James A., Attalla, Ala., assignor to Compress Buckle Company, Fort Worth, Tex. Bale-tie buckle. 1,617,827; Feb. 15.
- Todd, John S., Hawley, Pa. Loom. 1,629,840; May 24.

- Todd, John S., Hawley, Pa. Let-off means for looms. 1,632,205; June 14.
- Todd, Paul H., Kalamazoo, Mich., assignor to Renard, Inc., Kalamazoo, Mich. Treating waxed and printed papers. 1,628,931; May 17.
- Todd, Ralph R. (See Lannon, J. D., and Todd.)
- Todd Shipyards Corporation. (See Meston, J. R., and Erickson, assignors.)
- Todd, Ulysses C., assignor to Pfaunder Company, Rochester, N. Y. Treating milk products. 1,618,789; Feb. 22.
- Todd, Victor H., Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company. Thermometer. 1,638,894; Aug. 16.
- Todd, William C., Victoria, British Columbia, Canada. Lawn sprinkler. 1,659,859; Aug. 16.
- Todd, William C., and J. W. Pomeroy, Victoria, British Columbia, Canada. Traveling lawn sprinkler. 1,616,769; Feb. 8.
- Todd, William C., and J. W. Pomeroy, Victoria, British Columbia, Canada. Traveling lawn sprinkler. 1,620,553; Mar. 8.
- Todd, William C., and J. W. Pomeroy, Victoria, British Columbia, Canada. Traveling sprinkler. 1,632,353; June 14.
- Todt, Edward G., Chicago, Ill. Railway-tank-car bottom outlet. 1,644,861; Oct. 11.
- Todt, Ernest, Unterhausen, Germany. Four-cylinder drawhead. 1,624,815; Apr. 12.
- Toepfert, Henry J., assignor to White and Wyckoff Manufacturing Company, Holyoke, Mass. Envelope-liner machine and method. 1,646,798; Oct. 25.
- Toepfert, Henry J., assignor to White and Wyckoff Manufacturing Company, Holyoke, Mass. Method and apparatus for hot stamping with full automatic presses. 1,650,666; Nov. 29.
- Toewe, Fritz, Berlin, Germany, assignor to General Electric Company. Multiple receiving device. 1,617,970; Feb. 15.
- Toffeen, Olof A., Chicago, Ill. Oxygenator and smoke eliminator. 1,617,356; Feb. 15.
- Toffeen, Olof A., Chicago, Ill. Burner. 1,621,092; Mar. 15.
- Toffeen, Olof A., Chicago, Ill. Fire-box inner casing. 1,636,761; July 26.
- Toffeen, Olof A., Chicago, Ill. Oil burner. 1,637,064; July 26.
- Toffeen, Olof A., Chicago, Ill. Fire arch. 1,639,117; Aug. 16.
- Togami, Nobufumi, Saga, Japan. Electromagnetic switch. 1,629,509; Apr. 19.
- Togami, Nobufumi, Saga-Ken, Japan. Distribution system for selective connections thereto of feeders. 1,634,601; July 5.
- Toblin, Theodor. (See D'Olier, W. L., and Toblin.)
- Toledo Automatic Brush Machine Company, The. (See Jobst, Conrad, assignor.)
- Toledo Automotive Products Company, The. (See Clas, Angelo R., assignor.)
- Toledo Machine and Tool Company. (See Byerlein, Arthur A., assignor.)
- Toledo Machine and Tool Company, The. (See Dorman, N. W., and Hatch, assignors.)
- Toledo Pipe Threading Machine Company, The. (See Vosper, William W., assignor.)
- Toledo Pressed Steel Company, The. (See Close, Lyman W., assignor.)
- Toledo Rex Spray Company, The. (See Hedenburg, O. F., and Pratt, assignors.)
- Toledo Scale Company. (See Bergen, Harry S., assignor.)
- Toledo Scale Company. (See Crane, Samuel G., assignor.)
- Toledo Scale Company. (See Hapgood, Clarence H., assignor.)
- Toledo Scale Company. (See Hem, Halvor O., assignor.)
- Toledo Scale Company. (See Marshall, Charles O., assignor.)
- Toledo Scale Company. (See Reeves, Orwell C., assignor.)
- Toledo Scale Company. (See Strubler, Charles G. and J. L., assignors.)
- Toledo Scale Company. (See Thomas, Edward G., assignor.)
- Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
- Toler, William E., Pawnee, Okla. Stove. 1,619,166; Mar. 1.
- Tolhurst Machine Company. (See Bryson, Tandy A., assignor.)
- Tolhurst Machine Works. (See Bryson, T. A., and Williams, assignors.)
- Tolhurst Machine Works. (See Gage, John S., assignor.)
- Tolhurst, William T. (See Weddell, A. and Tolhurst.)
- Tolin, Albert E., Kokomo, Ind., assignor to The National Screw and Manufacturing Company, Cleveland, Ohio. Electric switch. 1,651,486; Dec. 6.
- Tolino, Sylvia. (See Bocchini, Ernest, assignor.)
- Tolson, James R., Camden, Ark. Automatic signal device. 1,630,144; May 24.
- Tolmach, Samuel, New York, N. Y. Vehicle signal. 1,623,219; Apr. 5.
- Tolman, Charles P., Kew Gardens, N. Y. Method of and apparatus for treating hydrocarbons. 1,643,036; Sept. 20.
- Tolman, Edgar R., Jr., assignor to United Conveyor Corporation, Chicago, Ill. Conveying apparatus. 1,632,204; June 14.
- Tolman, Roy D., Worcester, Mass. Registering and indexing ballot box. 1,618,691; Feb. 22.
- Tolson, Robert L., deceased; J. W. Farley, administrator, Memphis, Tenn., assignor to J. W. Farley, trustee, Memphis, Tenn. Four-wheel-drive transmission for tractors. 1,636,236; July 12.
- Tom, Willem, Katwijk aan Zee, Netherlands. Composition for impregnating fibrous materials. 1,634,002; Jan. 28.
- Tomasulo, Cesare, New York, N. Y. Vaginal balloon. 1,640,014; Aug. 23.
- Tombs, William H., Seward, N. J. Lamp shade. Des. 74,082; Dec. 13.
- Tomchlin, Louis, Brooklyn, N. Y. Finger ring. Des. 73,839; Nov. 15.
- Tomikiya, Shunjiro, Tokyo, Japan. Producing paints for fishing nets. 1,617,426; Feb. 15.
- Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 71,815; Jan. 4.
- Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 71,893; Jan. 11.
- Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 71,864; Jan. 11.
- Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 73,988; Nov. 29.
- Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 74,083; Dec. 13.
- Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 74,084; Dec. 13.
- Tomkinson, Charles C. (See Ogden, R. E., and Tomkinson.)
- Tomkinson, Charles C. (See Ogden, R. E., Tomkinson, and Van Tassell.)
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Expansion shield. 1,636,842; July 26.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Pipe hanger. 1,642,131; Sept. 18.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,646,431; Oct. 25.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Door mechanism. 1,646,432; Oct. 25.
- Tomkinson, Charles C., Plainfield, N. J., assignor, by mesne assignments, to J. E. Ogden, Mountainville, N. Y. Expansion shield. 1,651,004; Nov. 29.
- Tomlin, John R., assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. 1,650,562; Nov. 22.
- Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Car and air coupling mechanism. 1,636,167; July 19.
- Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Spring draft gear. 1,645,361; Oct. 11.
- Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Draft gear. 1,646,408; Oct. 11.
- Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Car-truck stabilizer. 1,646,433; Oct. 25.
- Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
- Tomlinson, James E., Indianapolis, Ind. Spotlight. 1,614,904; Jan. 18.
- Tomlinson, Kenneth C., Berkeley, Calif., assignor to American Meter Company, Inc., New York, N. Y. Index-glass inclosure. 1,637,093; July 26.
- Tommel, Paul, jr., Neodesha, Kans. Valve grinder. 1,616,398; Feb. 1.
- Tompkins, Emerson H. (See King, G. A., Warner, and Tompkins.)
- Tompkins, John D., Valatie, N. Y. Method and apparatus for treating fibrous materials. 1,626,766; May 8.
- Tompkins, Lewis R., Atlantic City, N. J., assignor of one-half to G. H. Shea, Quarryville, Pa. Closure member. 1,628,011; May 10.
- Tompkins, William R., Rankin, Ill. Engine balance. 1,654,515; Dec. 27.
- Tompkins, Willis M., Los Banos, Calif. Internal-combustion engine. 1,618,692; Feb. 22.
- Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Nonslip floor construction. 1,629,185; May 17.
- Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Grinding wheel and holder therefor. 1,641,791; Sept. 6.
- Tone, Robert C. Co. (See Bloomfield, Morris, assignor.)
- Toney, George W., Waltham, Mass., assignor, by mesne assignments, to Old Colony Trust Company, trustee. Timepiece with hand-driving extension. 1,626,170; Apr. 26.
- Tonguette, Corey E., and R. A. McBean, assignor of one-fourth to I. P. Pomeroy, Seattle, Wash. Folding ironing board. 1,618,857; Jan. 11.
- Toniolo, Carlo, Milan, Italy. Manufacture of nitric acid. 1,623,606; Apr. 5.

- Tonka Brothers Co. (See Tonks, Russell A., assignor.)
 Tonks, Russell A., South Orange, assignor to Tonks Brothers Co., Newark, N. J. Baby's tooth cutter. Des. 72,292; Mar. 22.
 Tonne, Joseph A., Cincinnati Ohio. Automobile apparatus. 1,628,374; May 10.
 Tooker, Harry S., Joplin, assignor to W. D. James, Kansas City, Mo. Pump. 1,619,320; Mar. 1.
 Tooker, John N., and J. F. Harley, assignors to Arkell & Smiths, Canajoharie, N. Y. Multi-ply bag. 1,633,296; June 21.
 Toolan, John J. (See Gollnick, P. A., and Toolan.)
 Toombs, James M., Jr., Webster Grove, Mo. Roller bearing car wheel. 1,626,765; May 3.
 Toomey, Howard C., Philadelphia, Pa. Spreading or sowing machine for root planting. 1,636,536; July 19.
 Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,623,139; Apr. 5.
 Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Subscriber's equipment for program transmission. 1,628,695; May 17.
 Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Program-selecting circuits. 1,628,696; May 14.
 Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Program transmission over wires. 1,628,697; May 17.
 Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Program-selecting circuits. 1,632,012; July 14.
 Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,644,761; Oct. 11.
 Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing system for telephone cord circuits. 1,648,079; Nov. 8.
 Toomey, John J., Chicago, Ill. Stove or range. 1,621,141; Mar. 15.
 Toon, John, Freehold, N. J. Pile-cutting mechanism for looms. 1,614,504; Jan. 18.
 Topham, Laurence E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,616,710; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. 1,616,711; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,616,712; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,616,713; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Edge-trimming machine. 1,616,715; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,616,716; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Edge-setting machine. 1,616,717; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-supporting-jack mechanism. 1,616,718; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,616,720; Feb. 8.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., Sewing machine. 1,625,231; Apr. 19.
 Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Bobbin-winding machine. 1,625,232; Apr. 19.
 Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,646,434; Oct. 25.
 Topham, Laurence E., Swampscott, and A. R. Morrill, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,616,714; Feb. 8.
 Topham, Laurence E., Swampscott, and A. R. Morrill, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,616,719; Feb. 8.
 Topinka, Joseph F., Cleveland, and O. J. Welchart, East Cleveland, Ohio. Cheese cutter. 1,623,238; Apr. 5.
 Topnitz, Samson L., New York, N. Y. Mop holder. 1,644,799; Oct. 11.
 Topper, Pius A., assignor to Dill and Collins Co., Philadelphia, Pa. Controlling means for electrical apparatus. 1,652,220; Dec. 13.
 Topping, Charles P., assignor to Buffalo Bolt Company, North Tonawanda, N. Y. Metal-working machine and method. 1,615,492; Jan. 25.
 Topping, Frank J., Clifton Forge, Va. Headlight shield. 1,621,181; Mar. 15.
 Topping, William P. (See Smith, Christian N., assignor.)
 Torbert, William R., Kansas City, Mo. Awning. 1,620,045; Mar. 8.
 Torbert, William R., Kansas City, Mo. Awning structure. 1,620,500; Mar. 8.
 Torchia, Alberto, Brooklyn, N. Y. Exchangeable sole for shoes. 1,640,301; Aug. 23.
 Torchia, Alberto, assignor of one-fourth to J. Bruno, Brooklyn, N. Y. Automatic letter-distributing system. 1,654,354; Dec. 27.
 Torchio, Philip, Bronxville, assignor to T. E. Murray, Brooklyn, N. Y. Electric distribution system. 1,652,261; Dec. 13.
 Torchwelt Equipment Co. (See Morrison, George A., assignor.)
 Torian, Thomas H. (See Phillips, G. F., and Torian.)
 Torii, Muraji, Kamakuragori, Japan. Alumino solder. 1,646,441; Aug. 23.
 Torin, Thomas, Corona, N. Y. Shoe. 1,629,325; May 17.
 Torkelson, Theodore, Mabel, Minn. Draft attachment for vehicles. Re16,756; Oct. 4.
 Torme, William D., assignor to A. E. Hirsch, Chicago, Ill. Detachable cuff. 1,645,833; Oct. 18.
 Torsjog, Gustaf E., Columbia, Mo. Screw cap for containers. 1,644,697; Oct. 11.
 Toronto Type Foundry Company Limited. (See Lawson, Albert R., assignor.)
 Torpin, Richard, Superior, Mont. Machine or device for labeling X-ray dental films. 1,632,154; June 14.
 Torrance, Daniel M., Garwin, Iowa. Egg supporting and turning device. 1,643,102; Sept. 20.
 Torrance, Henry, New York, N. Y., assignor to The Carbondale Machine Co., Carbondale, Pa. Refrigerating apparatus. 1,649,330; Nov. 15.
 Torres, Pedro N., Realitos, Tex. Cultivating implement. 1,644,315; Oct. 4.
 Torriani, Angelo, Pavia, Italy. Thermoelectric heater. 1,651,644; Dec. 6.
 Torrington Company, The. (See Katzenmoyer, Harry E., assignor.)
 Torrington Company, The. (See Kennedy, Edward C., assignor.)
 Torsion Balance Company, The. (See Munzner, Max, assignor.)
 Torulf, Helge G., Stockholm, Sweden. Sintering fine ores or pulverous ores. 1,618,116; Feb. 15.
 Tostado, Trinidad, New York, N. Y. Automatic railway switch. 1,618,300; Feb. 22.
 Toth, Gabriel, and E. A. Brandt, Far Rockaway, N. Y. Hinge. 1,618,736; Feb. 22.
 Toth, John J., Detroit, Ill. Shield. 1,649,996; Nov. 22.
 Tottreanu, André, Paris, France. Car for roundabouts. 1,614,051; Jan. 11.
 Totty, Robert A., assignor to Totty Trunk & Bag Co., Petersburg, Va. Trunk. 1,651,645; Dec. 6.
 Totty Trunk & Bag Co. (See Totty, Robert A., assignor.)
 Touchstone, Burt W., Eldorado, Ark. Fence post. 1,646,000; Oct. 18.
 Toulmin, Harry A., Jr., Dayton, assignor to The Vulcan Last Company, Portsmouth, Ohio. Last. 1,631,709; June 7.
 Toupet-Taylor Engineering Company. (See Taylor, Robert L., assignor.)
 Tournisupply Company. (See Gilmore, Lou S., assignor.)
 Tournier, Julius C., Schenectady, N. Y., assignor to General Electric Company. Fuse plug. 1,633,832; June 28.
 Tovallin, Angel, Monterey, Mexico. Thermoglu vessel. 1,623,763; Apr. 5.
 Tower, Charles H., Cleveland, Ohio, assignor, by mesne assignments, to Splittorf-Bethlehem Electrical Company, Newark, N. J. Magneto. 1,642,704; Sept. 20.
 Tower, Herschel E., assignor to The Baldwin Company, Cincinnati, Ohio. Motor hanger for mechanical musical instruments. 1,617,279; Feb. 8.
 Tower, Herschel E., assignor to The Baldwin Company, Cincinnati, Ohio. Expression mechanism for mechanical musical instruments. 1,646,001; Oct. 18.
 Tower Manufacturing Co. (See Ulmann, Edgar A., assignor.)
 Tower Manufacturing Corporation. (See Fischer, Hermann, assignor.)
 Towers, Arthur A., Cleveland, Ohio. Disappearing window for vehicles. 1,636,394; July 19.
 Towers, Balton, Lake, Wis. Dead-center device. 1,636,395; July 19.
 Towers & Sullivan Manufacturing Co. (See Dean, Henry A., assignor.)
 Towle, Elmer E. (See Huntington, H. H., and Towle.)
 Towle Manufacturing Company. (See Nock, Harold E., assignor.)
 Towle, Owen C., assignor to E. M. Brown, Los Angeles, Calif. Automobile storage battery. 1,622,550; Mar. 29.
 Towles, Eugene L. (See Towles, William J., E. L., and G. M.)
 Towles, George M. (See Towles, William J., E. L., and G. M.)
 Towles, William J., E. L., and G. M. Los Angeles, Calif. Water heater. 1,628,241; May 10.
 Towler, Heber F., Santa Ana, Calif. Disk harrow. 1,627,355; May 3.
 Towler, Heber F., Santa Ana, Calif. Disk cultivator. 1,627,356; May 3.
 Townley, Julian W., assignor of two-thirds to L. E. Weber, Kansas City, Mo. Electric circuit-controlling apparatus. 1,627,357; May 3.
 Townley, Wheeler E. (See Dougherty, J. W., and Townley.)
 Towns, Pete, Ansley, Nebr. Quick-adjusting fender or shield-lifter attachment for cultivators. 1,625,292; Apr. 19.

- Townsend, Arthur J. (See Naugle, H. M., and Townsend.)
- Townsend Envelope Machine Company. (See Townsend, Joseph M., assignor.)
- Townsend, George H., Greenwch Conn. Motor-heating-distributing instrument. Des. 73,392; Aug. 30.
- Townsend, George R., Schenectady, N. Y. assignor to General Electric Company. Motor controller. 1,633,833; June 28.
- Townsend, Harry E., Brooklyn, N. Y. Sealing machine. 1,635,287; July 12.
- Townsend, James K. (See Eggers, W. M., and Mahr, assignors.)
- Townsend, James S., Sacaton, Ariz., and W. B. Camp, Shafter, Calif., dedicated, by mesne assignments, to the citizens of the United States. Attachment for cotton planters. 1,635,865; July 12.
- Townsend, John R., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Beacon-light casing. Des. 72,916; June 21.
- Townsend, John R., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Lamp support. Des. 73,451; Sept. 13.
- Townsend, John R., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Lamp support. Des. 73,950; Nov. 22.
- Townsend, John R., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Locomotive headlight. 1,628,862; May 17.
- Townsend, John R., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Shade holder. 1,628,863; May 17.
- Townsend, John R., South Bend, Ind., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Engine. 1,628,864; May 17.
- Townsend, Joseph M., Worcester, Mass., assignor to Townsend Envelope Machine Company. Envelope-making machine. 1,638,895; Aug. 16.
- Townsend, Otto H., assignor to Walker & Co., Detroit, Mich. Mold for forgings. 1,627,754; May 10.
- Townsend, William S., assignor to Guarantee Liquid Measure Company, Rochester, Pa. Liquid-dispensing-pump casing. Des. 73,881; Nov. 15.
- Townson Body Co. (See Ferguson, Ivan P., assignor.)
- Toy Thinkers, Inc. (See Pjuten, Charles, assignor.)
- Toy Thinkers, Inc. (See Sausser, Joseph A., assignor.)
- Toyoda, Kichiro, Nagoya, Japan. Shuttle-changing apparatus for automatic looms. 1,633,962; June 28.
- Tracey, Clyde E., Newark, N. J. Hat. 1,616,475; Feb. 8.
- Tractor Grip Wheel Company, The. (See Wine, William E., assignor.)
- Tracy, David D., Jackson, Mich. Sectional conduit. 1,639,887; Aug. 23.
- Tracy, George L., St. Louis, Mo. Automatic entrance protector. 1,632,683; July 14.
- Tracy, Harmon N., Los Angeles, Calif. Placer-deposit washer and washing. 1,621,694; Mar. 22.
- Tracy, Harmon N., Los Angeles, Calif. Process and apparatus for metallizing ores. 1,628,012; May 10.
- Tracy, Horace D. (See Drake, Bert E., assignor.)
- Tracy, James J., Shaker Heights Village, and A. E. Palmer, East Cleveland, Ohio, said Palmer assignor to said Tracy, Dredge mechanism for tractors and the like. 1,648,429; Nov. 8.
- Tracy, Joseph, Rutherford, N. J. Fluid dynamometer. 1,642,095; Sept. 13.
- Tracy, Michael J., St. Louis, Mo. Communication device. 1,635,660; July 12.
- Tracy, Michael J., assignor to Pauly Jail Building Company, St. Louis, Mo. Combined niche seat and lavatory. Des. 72,195; Mar. 8.
- Tracy, Michael J., assignor to Pauly Jail Building Company, St. Louis, Mo. Inclosure for shower baths. 1,622,963; Mar. 29.
- Tracy, Michael J., assignors to Pauly Jail Building Company, St. Louis, Mo. Jail-door-operating mechanism. 1,648,248; Nov. 8.
- Tracy, Robert B., Chicago, Ill. Tooth-paste dispenser. 1,642,797; Sept. 20.
- Traffic Control, Inc. (See Schulz, P. H., and Jessen, assignors.)
- Traban, Amédée P., Waterville, Me. Printing machine. 1,653,522; Dec. 20.
- Trail-It Company. (See Greer, Edward R., assignor.)
- Trail, Robert, and R. Strachan, assignors to The Fairfield Shipping & Engineering Company, Limited, Glasgow, Scotland. Absorption of lubricating oil from the oil vapor in crank cases of Diesel engines. 1,628,932; May 17.
- Trailmobile Company, The. (See Jones, Rufus B., assignor.)
- Trailmobile Company, The. (See Shipley, C. W., and Jones, assignors.)
- Trailograf Company, The. (See Citron, William J., assignor.)
- Trainer, Edward J., Cohoes, assignor to Asbestos Spinning and Weaving Corporation, New York, N. Y. Apparatus for weaving asbestos cloth. 1,620,850; May 24.
- Trainer, Edward J., Brooklyn, assignor to Asbestos Spinning and Weaving Corporation, New York, N. Y. Fabric for gaskets. 1,640,466; Oct. 25.
- Trammell, Earl M., assignor to El Paso Sash & Door Company, El Paso, Tex. Telephone cabinet. Des. 73,718; Oct. 23.
- Trapp, Karl, Chicago, Ill. Fluid-heating faucet. 1,637,205; July 26.
- Tranaas, Emil L., assignor to Koehring Company, Milwaukee, Wis. Charge-synchronizing means for concrete mixers. 1,652,151; Dec. 6.
- Trapp, Conrad, Omaha, Neb., and C. T. Brewer, Council Bluffs, Iowa. Ruler. 1,614,812; Jan. 18.
- Tranides, Elias, New York, N. Y. Detachable beel. 1,631,710; June 7.
- Traphagen, Harry R., assignor to Emerson-Brantingham Company, Rockford, Ill. Drill and check control for planters. 1,616,938; Feb. 8.
- Traphagen, Harry R., assignor to Emerson Brantingham Manufacturing Company, Rockford, Ill. Adjusting mechanism for plows. 1,626,368; Apr. 26.
- Traphagen, Harry R., assignor to Emerson-Brantingham Corporation, Rockford, Ill. Pole truck. 1,649,757; Nov. 15.
- Trappell, William, Weston, W. Va. Power hammer. 1,647,554; Nov. 1.
- Trapp, Hans, Oranienburg-Berlin, Germany. Manufacture of pure zirconium sulphate. 1,648,569; Nov. 8.
- Trapp, Horace A., Shelby, Mont. Jerk-line connection. 1,622,070; Mar. 22.
- Trasenster, Gustave, assignor to Société Anonyme d'Ougree-Marhaye, Ougree-lez-Liege, Belgium. Boiler furnace. 1,651,646; Dec. 6.
- Tratsch, Walter A., Chicago, Ill. Coin chute. 1,641,304; July 12.
- Traub, Alexander S., Yonkers, N. Y. Exhibit mount for stamps, etc. 1,627,624; May 10.
- Traub, Charles J., Cincinnati, Ohio. Truss. 1,639,910; Aug. 23.
- Traub, Emil, Newark, N. J. Time-controlled device. 1,648,748; Nov. 8.
- Traudt, William F., Buffalo, N. Y. Apparatus for cementing soles to shoe uppers. 1,627,353; May 3.
- Trauger, Guy A., Livermore, Iowa. Binder hitch. 1,632,013; June 14.
- Traut, Frederick A., Buffalo, N. Y. Trap for conductor pipes. 1,641,938; Sept. 6.
- Traut, Heinrich, Munich, Germany. Electric arc lamp for photographing. 1,640,913; Aug. 30.
- Trautner, Nicholas W., St. Paul, Minn. Grease retainer. 1,624,852; Apr. 12.
- Trautner, Nicholas W., St. Paul, Minn. Grease cup. 1,632,934; June 21.
- Trautner, William L., Milwaukee, Wis. Grease retainer. 1,633,378; Aug. 9.
- Trautner, Willy. (See Berliner, R., Stein, and Trautner.)
- Travaglini, Frank, Philadelphia, Pa. Stringed musical instrument. 1,634,730; July 5.
- Travaglini, Frank, Philadelphia, Pa. Paintbrush holder or handle. 1,654,392; Dec. 27.
- Travaglini, Pietro, Copper Cliff, Ontario, Canada. Record cabinet. 1,650,164; Nov. 22.
- Travell, Warren. (See Powelson, W. V. N., and Travell.)
- Traver, George W., Chicago, Ill. Ice-cream-cone server. Des. 72,919; June 21.
- Traver, Harry G., Beaver Falls, Pa. Car for aeroplane swings. Des. 73,014; July 5.
- Traver, Harry G., Beaver Falls, Pa. Amusement apparatus. 1,616,476; Feb. 8.
- Traver, Harry G., Beaver Falls, Pa. Amusement device. 1,651,437; Dec. 6.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Synchronizing device. Re16,540; Feb. 8.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,635,061; July 5.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,637,032; July 26.
- Travers, Charles J., assignor of one-third to G. T. Strite and one-third to H. W. Bolens, Port Washington, Wis. Power-driven implement. 1,650,667; Nov. 29.
- Travers, Charles J., assignor to Gilson Manufacturing Company, Port Washington, Wis. Tractor. 1,650,668; Nov. 29.
- Travers, Henry A., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer-tap-changing device. 1,630,363; May 31.
- Travers, Henry A., Forest Hills Borough, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting system. 1,637,360; Aug. 2.
- Travis, Berna A., Sacramento, Calif. Extinguisher for cigarettes and the like. 1,623,140; Apr. 5.
- Travis, Bertram C., Los Angeles, Calif. Pipe-perforating machine. 1,635,590; July 12.
- Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Folding couch. 1,649,627; Nov. 15.
- Travis, John M., St. Louis, Mo. Beverage-dispensing apparatus. 1,619,278; Mar. 1.
- Travis, Leonard, Sidney, Iowa. Chain coupling and tightener. 1,634,698; July 5.
- Travis, S., Union Mills, Wash. Oar lock. 1,627,128; May 8.
- Travis, Simeon E., jr., Hattiesburg, Miss. Truck body. 1,614,412; Jan. 11.
- Travis, Simeon E., jr., Hattiesburg, Miss. Truck-body mount. 1,630,145; May 24.
- Travis, Simeon E., jr., Hattiesburg, Miss. Side-rail truck body. 1,652,069; Dec. 6.

- Travnicek, Frank, also known as Frank Griness, East St. Louis, Ill. Vacuum propeller. 1,638,071; Aug. 9.
- Travnicek, Frank, also known as F. Griness, East St. Louis, Ill. Reaction vacuum propeller. 1,643,862; Sept. 27.
- Trudi, Walther, Vienna, Austria. Preparing stable colloidal solutions of silver. 1,633,466; June 21.
- Trayes, Webster F., Oklahoma City, Okla., assignor to The Guiberson Corporation, Dallas, Tex. Pipe gripping and supporting device. 1,642,832; Sept. 20.
- Traylor Engineering & Manufacturing Company. (See Bernhardt, Richard, assignor.)
- Traylor, Samuel W., Allentown, Pa., and C. H. Ruggles, West Palm Beach, Fla. Retaining-wall construction. 1,637,065; July 26.
- Trayway Mfg. Co. (See Morehouse, F. B., and Haase, assignors.)
- Trobojevich, Nikola, Detroit, Mich. Friction differential gear. 1,612,954; Jan. 4.
- Trobojevich, Nikola, Highland Park, Mich. Cross-word puzzle. 1,629,601; May 24.
- Trobojevich, Nikola, Detroit, Mich. Generating gears. 1,633,051; June 21.
- Trobojevich, Nikola, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y. Machine for generating gears. 1,628,864; Apr. 17.
- Trobojevich, Nikola, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y. Spiral bevel gearing. 1,647,157; Nov. 1.
- Trobojevich, Nikola, Highland Park, Mich., assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,647,158; Nov. 1.
- Treadwell, Albert P., and J. Flournoy, Columbus, Ga. Check valve. 1,632,636; June 14.
- Treadwell Engineering Company. (See Mikaelson, Erik W., assignor.)
- Treadwell, M. H., Company. (See Astrom, Carl P., assignor.)
- Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Radiator tank. 1,631,711; June 7.
- Trees, Bruce M. A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Supporting device. 1,615,149; Jan. 18.
- Treck, Gustave, Detroit, Mich. Cooling device. 1,640,162; Aug. 23.
- Tredway, Alfred P., Shoals, Ind. Gear shift for motor vehicles. 1,646,464; Oct. 11.
- Tredwell, Charles A., assignor to Winchester Repeating Arms Co., New Haven, Conn. Telescopic fishing rod. 1,625,510; Apr. 19.
- Treéfoils, Léon, Brussels, Belgium. Self-scraping hearth for gas generators and other furnaces. 1,645,671; Oct. 18.
- Trees, Joseph C. (See McCurdy, R. P., and Hochstetter, assignors.)
- Trefler, Frederick A. (See Peterson, J. A., and Trefler.)
- Trefz, Friedrich. (See Trefz, Gustav and F. Y.)
- Trefz, Friedrich, Grossaspach, near Backnang, Germany. Automatic starting and stopping arrangement for turbines. 1,652,070; Dec. 6.
- Trefz, Gustav and F., Grossaspach, Germany. Free-jet turbine. 1,650,475; Nov. 22.
- Treger, Herbert, Melrose Park, Ill., assignor to The Richardson Company, Leckland, Ohio. Loading battery boxes. 1,631,658; June 7.
- Treganowan, Thomas, Pittsburgh, Pa. Built-in chimney incinerator. 1,645,262; Oct. 11.
- Tregillus, Harold G., Park Ridge, Ill. Forged grating and manufacturing same. 1,650,055; Nov. 22.
- Tregillus, Harold G., Barrington, Ill. Trussed structure. 1,654,151; Dec. 27.
- Tregillus, Harold G., Park Ridge, Ill. Trussed structure. 1,654,152; Dec. 27.
- Treichler, Howard L., Newfane, N. Y. Coin-controlled apparatus. 1,649,425; Nov. 15.
- Tremain, James G., Port Huron, assignor of one-half to J. Tremain, Detroit, Mich. 1,630,550; May 31.
- Tremain, James G. (See Tremain, James G., assignor.)
- Tremaine, Glenville S., Westfield, N. Y. Combination clock and calendar. 1,623,076; Apr. 5.
- Tremblay, Albert F., Monterrey, Mexico. Bottle-forming machine. 1,648,792; Nov. 8.
- Tremper, Charles W., assignor, by mesne assignments, to The Tremper-Shields Company, New Haven, Conn. Suction sheet-pick-up mechanism. 1,625,573; Apr. 19.
- Tremper-Shields Company, The. (See Tremper, Charles W., assignor.)
- Trenchard, Henry, Jr. (See Swab, Jay G., assignor.)
- Trench, August J., Milford, Conn. Wire-covering machine. 1,616,068; Feb. 1.
- Trenner, Simeon, assignor to the Firm of C. A. Hausser & Son, Philadelphia, Pa. Hemacytometer. 1,630,146; May 24.
- Trenor, Albert D., Gloucester, assignor to J. H. Hammond, Jr., Gloucester, Mass. Synchronizing mechanism. 1,636,020; July 19.
- Trenor, Albert D., New York, N. Y., assignor to John Hays Hammond, Jr. System of control by impulses of predetermined different durations. 1,620,987; Mar. 15.
- Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Variable-speed repeating mechanism. 1,651,852; Dec. 8.
- Trenor, Henry M. (See Baldwin, H. M., and Trenor.)
- Trent, Harold E., Lansdowne, assignor to J. Struthers Dunn, Philadelphia, Pa. Relay switch. 1,646,888; Oct. 25.
- Trent Process Corporation. (See Trent, Walter E., assignor.)
- Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Distilling oil in presence of comminuted carbonaceous fuel. 1,641,305; Sept. 6.
- Trent, Walter E., Washington, D. C., assignor to Trent Process Corporation, New York, N. Y. Converting or cracking hydrocarbon oils. 1,619,896; Mar. 8.
- Trent, Walter E., Washington, D. C., assignor to Trent Process Corporation, New York, N. Y. Preventing mine explosions. 1,642,912; Sept. 20.
- Treo Company. (See Metz, Samuel T., assignor.)
- Treschow, Michael, Copenhagen, Denmark. Boiler for heating systems or similar purposes. 1,651,049; Nov. 29.
- Tresidder, Tolmie J., Upper Norwood, England. Instrument for measuring angles. 1,650,553; Nov. 22.
- Tresise, Raleigh E. (See Scott, W. M., and Tresise.)
- Tressler, Donald K., Pittsburgh, Pa., assignor to Larowe Construction Company, Detroit, Mich. Manufacture of betaine hydrochloride, etc. 1,634,221; June 28.
- Tressler, Donald K., Pittsburgh, Pa., assignor to Larowe Construction Company, Detroit, Mich. Preparing betaine hydrochloride. 1,634,222; June 28.
- Trester, Charles C., Lawrenceburg, Ind. Crank. 1,640,163; Aug. 23.
- Trester, Herault A., assignor to Metal Forms Corporation, Milwaukee, Wis. Road form. 1,640,739; Aug. 30.
- Trevani, Celso, Hopedale, Mass. Stakeholder. 1,654,762; July 5.
- Trevino, Abel C., San Antonio, Tex. Gas producer. 1,624,694; Apr. 12.
- Trevney, Joseph. (See Bounce, J., and Halick, assignors.)
- Treyer, John B., Jr., New York, N. Y. Voltage regulator. 1,624,443; Mar. 15.
- Trevor Manufacturing Company. (See Berean, D. A., and Trevor, assignors.)
- Trevor Manufacturing Company. (See Trevor, W. W., and Abbott, assignors.)
- Trevor Manufacturing Company. (See Trevor, W. W., and Berean, assignors.)
- Trevor, William W. (See Berean, D. A., and Trevor.)
- Trevor, William W., and H. L. Abbott, assignors to Trevor Manufacturing Company, Lockport, N. Y. Machine for cutting tongues and grooves in barrel staves and the like. 1,649,373; Nov. 15.
- Trevor, William W., Lockport, and D. A. Berean, Barker, assignors to Trevor Manufacturing Company, Lockport, N. Y. Machine for operating on barrels and the like. 1,648,372; Nov. 8.
- Treichl, Emanuel, Shadyside, Ohio. Envelope holder. 1,649,935; Nov. 22.
- Triana, André E. L. and R. J. A., and J. Ortiz-Escofet, Paris, France. Device for projecting stationary or moving pictures in broad daylight. 1,624,816; Apr. 12.
- Triana, Rodrigue J. A. (See Triana, André E. L. and R. J. A., and Ortiz-Escofet.)
- Trlay, Edward J., Jr., Jacksonville, Fla., and P. L. Farmer, Richmond, Me. Apparatus for loading and unloading freight. 1,632,253; June 14.
- Trlaus Company, The. (See Lundberg, Godfrey, assignor.)
- Trickey, John P., Evanston, assignor to The Quaker Oats Company, Chicago, Ill. Coloring material. 1,627,939; May 10.
- Trico Products Corporation. (See Folberth, Fred G., assignor.)
- Trico Products Corporation. (See Folberth, Frederick G., and W. M., assignors.)
- Trico Products Corporation. (See Malouf, Beshara I., assignor.)
- Trico Products Corporation. (See Pierce, Earl F., assignor.)
- Trico Products Corporation. (See Polk, Thomas B., assignor.)
- Tri-Ergon, A.-G. (See Vogt, H., Engl and Massalle, assignors.)
- Tri-Ergon Limited. (See Massolle, J., Engl, and Vogt, assignors.)
- Tri-Ergon Limited. (See Massolle, J., Vogt, and Engl, assignors.)
- Tri-Ergon Limited. (See Vogt, H., Engl, and Massolle, assignors.)
- Trieschmann, J. W. (See Bird, Elmer B., assignor.)
- Trimble, Charles P., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Bed spring and the like. 1,631,076; May 31.
- Trimble, Charles P., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Pneumatic clamping tool. 1,653,827; Dec. 27.
- Trimble, E. M., Mfg. Company. (See Baxter, William C., assignor.)
- Trimble, Edward M. (See Baxter, William C., assignor.)
- Trimble, Edwin S., Atchison, Kans. Collapsible chicken coop. 1,620,143; Mar. 8.
- Trimble, Frank H., Lankershim, Calif. Lighting-fixture plate. Des. 72,042; Feb. 15.
- Trimble, Frank H., Lankershim, Calif. Lighting-fixture wall plate. Des. 72,196; Mar. 8.
- Trimble, Henry G., Kansas City, Mo. Fire box. 1,629,012; May 17.

- Trimmer, John W., Cleveland, Ohio. Treating reflectors for headlights, etc. 1,623,711; Apr. 5.
- Trimming, George A. R., Lucknow, British India. Transition coupling for railway or like vehicles. 1,647,486; Nov. 4.
- Trimont Manufacturing Company. (See Kenerson, Joseph E., assignor.)
- Trinity Wheel Corporation. (See Baker, Frederick W., assignor.)
- Trinius, Alphons, South Pasadena, assignor to Western Blind & Screen Co., Los Angeles, Calif. Venetian-blind tilting-rail fixture. 1,630,239; Aug. 16.
- Trinks, William W., assignor to Pulclean Manufacturing Corporation, Bridgeport, Conn. Laundering machine. 1,620,144; Mar. 8.
- Trinks, William W., assignor to Pulclean Manufacturing Corporation, Bridgeport, Conn. Laundering machine. 1,623,077; Apr. 5.
- Trinks, Willibald, Pittsburgh, assignor to Homestead Valve Manufacturing Company, Homestead, Pa. Rotary valve. 1,645,651; Oct. 13.
- Triolo, Louis, Brooklyn, N. Y. Box-making machine and the making of boxes. 1,627,874; May 10.
- Tripp, Leslie R., Topeka, Kans. Fluid brake. 1,616,770; Feb. 8.
- Tripp, Valentine W., Blue Hill, Nebr. Gauge. 1,632,637; June 14.
- Triska, Joseph, Omaha, Nebr. Radiator. 1,628,288; May 10.
- Trist, Arthur R., London, England. Control device operated by change of liquid level. 1,614,857; Jan. 18.
- Trist, Edward, Pittsburgh, Pa. Brake-band-lining-securing means. 1,636,578; Mar. 28.
- Trist, Ronald & Company. (See Butler, Arthur, assignor.)
- Tritchler, William F., Fargo, N. Dak. Display bracket. 1,613,917; Jan. 11.
- Tritscheller, Karl. (See Parker, Harry J., assignor.)
- Tritten, Gottlieb, Deansboro, N. Y. Necktie frame. 1,617,777; Feb. 15.
- Triumph Cycle Company Limited. (See Parnell, Frank G., assignor.)
- Triunfo, Alfredo. (See Cossia, S., and Triunfo.)
- Triver, Elmer D., et al. (See Krum, John H., assignor.)
- Troast, William F., assignor to I. P. Reese, Lancaster, Pa. Sliding shackle lock. 1,627,259; May 8.
- Troendly, Harry F., Chicago, Ill. Torque-cushioning means. 1,636,262; July 19.
- Troegner, Arthur M., Takoma Park, Md. assignor to Wired Radio, Inc., New York, N. Y. Electrical insulator. 1,651,738; Dec. 6.
- Troel, Arthur E., Oakland, Calif. System of concrete construction. 1,619,321; Mar. 1.
- Troel, Arthur E., Berkeley, Calif. Grouting. 1,628,933; May 17.
- Troel, Arthur E., Berkeley, Calif. Baking oven. 1,633,236; June 21.
- Troel, Arthur E., Berkeley, assignor to Montague Range and Furnace Co., San Francisco, Calif. Rotary roasting range. 1,630,644; May 31.
- Trojan Powder Company. (See Bredt, Otto P. C., assignor.)
- Trojan Powder Company. (See Nellis, Edwin L., assignor.)
- Trojan Powder Company. (See Snelling, Walter O., assignor.)
- Trojan Powder Company. (See Snelling, W. O., and Rupp, assignors.)
- Troland, Leonard T., Malden, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Cinematographic-film stretching. 1,613,300; Jan. 4.
- Troland, Leonard T., Malden, and J. M. Andrews, Wollaston, assignors to Technicolor Motion Picture Corporation, Boston, Mass. Removal of superficial liquid from cinematographic films. 1,616,642; Feb. 8.
- Trol, Frederick J., Towson, assignor to The Loadometer Company, Baltimore County, Md. Load indicator for motor vehicles. 1,621,093; Mar. 15.
- Trollinger, George M., Shelburn, Ore. Thermostatic lamp regulator. 1,634,003; June 28.
- Tromhauser, Jesse H., Toronto, Ontario, Canada. Locating, placing, and leveling berth seats for concrete cribs. 1,635,730; July 12.
- Trombley, Arthur A., Plainville, Conn. Tire spreader. 1,631,076; Nov. 29.
- Trompeter, Herman F., and J. P. Brown, Topeka, Kans. Apparatus for telephone receivers. 1,620,703; Mar. 15.
- Tronolone, Dominick. (See Kelley, W. V. D., and Tronolone.)
- Tronstad, Ole, Eau Claire, Wis. Float for bath soaps. 1,617,466; Feb. 15.
- Troothoff, Michael, and J. Gromeeke, San Francisco, Calif. Disinfecting apparatus. 1,646,774; Oct. 25.
- Troop, Leopold. (See Mortensen, J. and Tropp.)
- Troski, Peter, Arlita, W. Va. Bird house. 1,634,763; July 5.
- Trosper, Charles L. (See Laxton, L., and Trosper.)
- Trott, Harvey B. (See Broden, E. H., and Felerabend, and Trott.)
- Trott, Roland S., Denver, Colo. Steering drive wheel. 1,613,065; Jan. 4.
- Trotter, Henry R., Morton, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-regulator system. 1,645,263; Oct. 11.
- Trotter, Henry R., Swarthmore, and H. F. Schmidt, Lansdowne, Pa., assignors to Westinghouse Electric and Manufacturing Company. Turbine-blade fastening. 1,638,648; Aug. 9.
- Trotter, Lester B., Augusta, Kans. Pneumatic tire. 1,641,792; Sept. 6.
- Trotter, Walter F., Cincinnati, Ohio, assignor to Detroit Stoker Company, Detroit, Mich. Underfeed stoker. 1,640,164; Aug. 23.
- Troter, Emile N., North Adams, Mass. Gas-stove valve locking device. 1,652,916; Dec. 13.
- Troup, Charles, Watseka, Ill. Rail joint. 1,639,620; Aug. 16.
- Trout, Albert K. (See Avery, U. Sherman, and Trout.)
- Trout, Charles W., Overland, assignor to N. S. T. Automobile Sales, Mfg. Co., St. Louis, Mo. Polish. 1,639,316; Aug. 16.
- Trout, Ferree J., Pomeroy, Pa. Jar holder. 1,652,221; Dec. 13.
- Trout, Harry E., et al. (See Witmyer, Harry M., as signor.)
- Trout, Oliver C., Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company. Galvanized pipe and making same. 1,618,611; Feb. 22.
- Trout, Philip H., Roanoke, Va. Welded composite corrugated sheet. 1,625,061; Apr. 19.
- Trout, Sheridan W., Jeannette, Pa. Toy target. 1,652,843; Dec. 13.
- Troy, Walter C., Lufkin, Tex. Make-up post. 1,644,862; Oct. 11.
- Troy, Walter M., assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Motor vehicle. 1,629,133; May 17.
- Troy, Walter M., and C. B. Des Jardins, assignors to Budd Wheel Company, Philadelphia, Pa. Metal vehicle wheel. 1,627,717; May 10.
- Troy, Walter M., Philadelphia, Pa., and C. B. Des Jardins, Washington, D. C., assignors to Budd Wheel Company, Philadelphia, Pa. Metal vehicle wheel. 1,646,889; Oct. 25.
- Troy, William A. (See Hall, Ralph R., assignor.)
- Troy, William A., Los Angeles, Calif. Blow-out preventer. 1,621,021; Mar. 15.
- Troy, William A., Los Angeles, Calif. Circulating head. 1,625,172; Apr. 19.
- Troy, William A., Long Beach, Calif. Packing device. 1,634,891; July 5.
- Troy, William A., Los Angeles, Calif. Oil-well derrick and shortening same. 1,644,499; Oct. 4.
- Troy, William A., Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company. Flexible casing for oil wells. 1,644,553; Oct. 4.
- Troutmans, Howard E., Chicago, Ill. Ventilator. 1,624,291; Apr. 12.
- Trowbridge, Roy T. (See Schellens, C. A., and Trowbridge.)
- Trowbridge, Roy S., Butler, N. J. Unloading device for rubber refiners. 1,629,240; May 17.
- Troxell, Harvey B., assignor to Harris & Troxell, Seattle, Wash. Loud-speaker horn. Des. 73,951; Nov. 22.
- Troll, Rew, Los Angeles, Calif. Wheeled toy. 1,622,852; Mar. 29.
- Troy Laundry Machinery Company. (See Balzer, Fritz, assignor.)
- Troy Laundry Machinery Co. (See Schenck, Le Roy C., assignor.)
- Troy Metal Products Company, The. (See Akers, Milton K., assignor.)
- Troy Sunshade Company, The. (See Dillingham, Frederick A., assignor.)
- Troyer, Nelson, and M. L. Dodge, Seattle, Wash. Can-end-lining machine. 1,639,118; Aug. 16.
- Trozzo, Rafael, Buenos Aires, Argentina. Building unit and method. 1,643,103; Sept. 20.
- Truett, William T., assignor to United States Register Company, Battle Creek, Mich. Register-front fastener. 1,643,863; Sept. 27.
- Trube, Carl E., Maplewood, N. J. Condenser-control mechanism. 1,614,505; Jan. 18.
- Truck, Joseph A. V. (See Felt, D. E., and Truck.)
- Truch, Julius J., Brewster, Ohio. Method and machine for thrashing grain, etc. 1,643,827; Sept. 27.
- Truehauf Trailer Company. (See Reid, Frederick M., assignor.)
- Truemper, John C., Indianapolis, Ind. Portable building. 1,622,746; Mar. 29.
- Tuesdel, Arthur E., Pittsfield, Mass., assignor of one-half to Doherty Research Company, New York, N. Y. Limekiln and burning lime. 1,627,215; May 3.
- Trullinger, Herbert A., Clackamas County, Ore. Coaster wagon. 1,620,926; Mar. 15.
- Trullinger, Herbert A., and W. H. Reynolds, Clackamas County, Ore. Nest. 1,641,610; Sept. 6.
- Trulove, John C., Shoals, N. C. Tobacco harvester. 1,629,422; May 17.
- Truman, Fred, Pawtucket, R. I., assignor to North American Lace Company, Philadelphia, Pa. Lace center motif. Des. 73,213; Aug. 2.
- Truman, George C. (See Borbeck, R. E., and Truman.)
- Truman, Joseph, Hanover, N. H. Dry powdered cleaning composition. 1,640,740; Aug. 30.
- Trumble, John T., Detroit, Mich. Clutch. 1,631,235; June 7.

- Trumble, Milton J., Alhambra, Calif. Apparatus for recovering the volatile products from carbonaceous material. 1,651,647; Dec. 6.
- Trumble, Milton J., Los Angeles, Calif. Removable-cover construction. 1,653,137; Dec. 20.
- Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Hanny, Charles E., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Wheeler, Frank T., assignor.)
- Trumbull, Frank S., Providence, R. I. Spoon or similar article. Des. 71,816; Jan. 4.
- Trumbull, Frank S., Providence, R. I. Spoon or similar article. Des. 72,877; June 14.
- Trumbull-Vanderpool Electric Manufacturing Company. (See Mason, Ralph K., assignor.)
- Trump, Charles C., Syracuse, N. Y., assignor to Humphrey Gas Pump Company. Valve construction. 1,618,145; Jan. 4.
- Trumpler, William E., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Damping device. 1,637,361; Aug. 2.
- Trumpler, William E., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,649,143; Nov. 15.
- Trumpler, William E., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,652,505; Dec. 13.
- Trumpler, William E., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible coupling. 1,654,312; Dec. 27.
- Trumpler, William E., Wilkensburg, and C. R. Soderberg, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company. Flexible coupling. 1,635,565; July 12.
- Trumpour, Frederick J., Forest Glen, Md. Blue-printing machine. 1,646,331; Oct. 18.
- Trunk, Clyde J., Eaton, Ohio. Mechanical shifting means for speed-transmission mechanism. 1,653,072; Dec. 20.
- Truch, Joseph, Portage, Pa. Switch stand. 1,646,775; Oct. 25.
- Truschel, W. H., et al. (See Murphy, Daniel R., assignor.)
- Truscon Steel Company. (See Coryell, William C., assignor.)
- Truscon Steel Company. (See Coryell, W. C., and Noble, assignors.)
- Truscon Steel Company. (See Daykin, Edward W., assignor.)
- Truscon Steel Company. (See Groh, M. S., and Halls, assignors.)
- Truscon Steel Company. (See Halls, Joseph A., assignor.)
- Truslow, Wallace B., et al. (See Gardner, William R., assignor.)
- Trussell, Clarence D. (See Trussell, Emory A., assignor.)
- Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Loose-leaf binder. 1,634,125; June 28.
- Trussell, Emory A., Richmond Hill, assignor of one-third to C. D. Trussell, Poughkeepsie, N. Y. Refill book. 1,615,493; Jan. 25.
- Trussell, Homer A., Chicago, Ill. Internal-combustion engine. 1,643,396; Sept. 27.
- Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
- Trustees of Assumption College, The. (See Terraz, Symphonian, assignor.)
- Trustees of Electro Thermostatic Control Company, The. (See Sauvage, Herbert J., assignor.)
- Truttwin, Hans, Vienna, Austria. Metal-iodide-alkali-iodide compounds suitable for use in therapeutics and manufacturing them. 1,627,359; May 3.
- Truer, Ben, Chicago, Ill., assignor to Enterprise Boiler & Tank Works. Damper regulator for furnaces. 1,636,537; July 19.
- Tryon, Henry C. (See Napier, M. S., Wilkinson, and Tryon.)
- Tschappat, Sheridan P., assignor of one-half to H. Callahan, Tulsa, Okla. Rotatable tubing hanger. 1,650,102; Nov. 22.
- Tschappat, William H., Washington, D. C. Expandible sprocket wheel. 1,614,266; Jan. 11.
- Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Mop. 1,650,056; Nov. 22.
- Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Mop holder. 1,651,853; Dec. 6.
- Tschopp, Jacob T., Schenectady, N. Y., assignor to General Electric Company. Narrow light aperture and making the same. 1,613,117; Feb. 15.
- Tschudi, Traugott, New York, N. Y. Rotary engine. 1,641,911; Sept. 6.
- Tsujino, Yonezo, New York, N. Y. Amusement apparatus. 1,652,071; Dec. 6.
- Tuba, John, Whiting, Ind. Safety life-saving fender for cars. 1,639,154; Aug. 18.
- Tubal Boiler Co. (See Ellis, Lewis M., assignor.)
- Tubbs, Jesse L., Tacoma, Wash. Floor layer. 1,618,896; Feb. 22.
- Tube Joy Patch Company. (See Patton, Luther, assignor.)
- Tube Artificial Silk Company of America. (See Naef, Ernest E., assignor.)
- Tubular Woven Fabric Company. (See Bryant, Henry E., assignor.)
- Tuck, Alexander, Detroit, Mich. Wall rack or similar article. Des. 74,038; Dec. 6.
- Tuck, Thomas, Hemingford, Nebr. Potato elevator and weed carrier. 1,629,851; May 24.
- Tucker, C. J., Lees Summit, and L. J. Chapman, Kansas City, Mo. Apparatus for drying hay or other products. 1,642,469; Sept. 13.
- Tucker, Henry, Lakewood, N. J. Guard and stop for ironing machines. 1,622,214; Mar. 22.
- Tucker, Henry R., Balboa, assignor of one-half to J. G. Claybourn, Pedro Miguel, Canal Zone. Gold-collecting cup. 1,653,444; Dec. 20.
- Tucker, J. H., et al. (See Epperson, Charles B., assignor.)
- Tucker, James H., Petersburg, Va. Car truck. 1,635,910; July 12.
- Tucker, Maurice L. (See Williams, C. H., and Tucker.)
- Tucker, Pinkney R., Guilford County, N. C., assignor of two-fifths to A. E. Reitzel, Washington, D. C. Manure distributor. 1,642,798; Sept. 20.
- Tucker, Ralph H., Los Angeles, Calif. Air-lift pump. 1,614,765; Jan. 18.
- Tucker, Rexford S. (See Edwards, W. H., and Tucker.)
- Tucker, Stiles H., Wollaston, and S. B. Field, Holbrook, Mass. Clamping device. 1,636,880; July 26.
- Tucker, William R., Dawsonville, Ga. Molding faced concrete units. 1,630,590; May 31.
- Tuckey, Edson N., Minneapolis, Minn. Air motor. 1,626,313; Apr. 26.
- Tuckey, Edson N., Minneapolis, Minn. Air motor. 1,626,314; Apr. 26.
- Tuefield, Charles, East Molesey, England. Internal-combustion engine. 1,632,684; June 14.
- Tudor, James H., Cincinnati, Ohio. Illuminating device for vehicles. 1,630,986; May 31.
- Tuekmantel, Hugo, assignor to The T. & L. Co., Inc., Newark, N. J. Bag-frame hinge. 1,636,971; July 26.
- Tueklian, Gordon, West New York, N. J. Nursing-bottle holder. 1,624,695; Apr. 12.
- Tufts, John L., Westboro, Mass. Separation of liquid mixtures and device suitable therefor. 1,623,508; Apr. 5.
- Tufts, Lesley R., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. 1,629,444; May 17.
- Tufts, Lesley R., Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper deflector. 1,635,197; July 12.
- Tuholske, Joseph, St. Louis County, assignor of twenty per cent to C. M. Farrar, ten per cent to L. W. Martin, seven and one-half per cent to E. D. Campbell, and twelve and one-half to J. J. O'Fallon, St. Louis, Mo. Door latch. 1,618,897; Feb. 22.
- Tulte, Frank J., and G. F. Dodge, New York, N. Y., assignors to Robins Conveying Belt Company, Passaic, N. J. Grizzly. 1,621,695; Mar. 22.
- Tuleikis, Leon, and J. Collins, Philadelphia, Pa. Window construction. 1,647,845; Nov. 1.
- Tuleikis, Leon, and J. Collins, Philadelphia, Pa. Window construction. 1,647,846; Nov. 1.
- Tullis, Ross L., New Haven, Conn. Bird cage. Des. 73,677; Oct. 18.
- Tull, Roger, assignor to Western Lithograph Company, Los Angeles, Calif. Transfer and making the same. 1,618,612; Feb. 22.
- Tull, Roger, assignor to Western Lithograph Company, Los Angeles, Calif. Making cloth stencils. 1,622,747; Mar. 29.
- Tullis, David R., Clydebank, Scotland. Purifying or refining metals and alloys. 1,636,881; July 26.
- Tullis, Harley A. (See Mee, W. J., and Tullis.)
- Tullis, John K., New York, N. Y. Tanning. 1,621,612; Mar. 22.
- Tullis, John K., assignor, by mesne assignments, to Geltan Company, New York, N. Y. Leather manufacture. 1,640,914; Aug. 30.
- Tulloch, Stuart B., Washington, D. C. Sorting case. 1,626,126; Apr. 26.
- Tully, George L., assignor to American Optical Company, Southbridge, Mass. Binocular-magnifying-lens holder. 1,635,062; July 5.
- Tully, George L., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,635,867; July 12.
- Tully, George L., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,651,488; Dec. 6.
- Tully, Marks J., Long Island City, N. Y. Double wrench. 1,629,895; May 24.
- Tully Valve Company. (See Shaffer, J. C., and Mankin, assignors.)
- Tunison, Burnell R. (See Leslie, E. H., and Tunison.)
- Tunison, Murray C., Los Angeles, Calif. Automobile roadster body. Des. 73,214; Aug. 2.
- Tunison, Murray C., assignor to the Firm of Nunn & Tunison, Oakland, Calif. Garage. 1,614,905; Jan. 13.
- Tunstall, Harry M., Corpus Christi, Tex. Tonge. 1,645,509; Aug. 11.
- Tuomi, Uno E., Dallas, Tex. Sash-operating mechanism. 1,619,167; Mar. 1.
- Tuorto, Louis L., Pequanac, N. J. Mouth-spraying device. 1,646,942; Oct. 25.

- Tupper, Frank H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molding strain insulators. 1,621,042; Mar. 15.
- Tupper, Frank H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded metal and maling same. 1,637,362; Aug. 2.
- Turbayne, William A., Niagara Falls, N. Y., assignor, by mesne assignments, to The Safety Car Heating and Lighting Company, New York, N. Y. System having combined automatic switch and lamp regulator. 1,624,999; Apr. 19.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Double-circuit starting and generating system. 1,628,079; May 10.
- Turbine Patents Corporation. (See Klinek, Gustav A., assignor.)
- Turck, Albert G., Milwaukee, Wis., assignor to American Signal Corporation, Washington, D. C. Electrical voting apparatus. 1,650,247; Nov. 22.
- Turck, Eugen, Barmen-Langerfeld, Germany. Machine-braided lace insertion and making the same. 1,637,716; Aug. 2.
- Turcott, David, assignor to P. B. Yates Machine Company, Beloit, Wis. Turning machine. 1,650,669; Nov. 29.
- Turcotte, Adelard, St. Just of Bretonnieres, Quebec, Canada. Saw tool. 1,616,340; Feb. 1.
- Tures, William, assignor to The Oro-Tone Co., Chicago, Ill. Sound-box coupler. 1,618,080; Nov. 8.
- Tut, Steve, New York, N. Y. Skate sharpener. 1,622,476; Mar. 29.
- Turk, Anton, Johnstown, Pa. Safety blasting cap box. 1,629,423; May 17.
- "Turmac" Turkish Macedonia Tobacco Co. (See Kabus, Fernand, assignor.)
- Turaugh, Ora W., Cambridge, Ohio. Wheel chock. 1,623,895; Apr. 5.
- Turnbull, Andrew, Santa Ana, Calif. Sanitary garbage can. 1,622,853; Mar. 29.
- Turnbull, Percy S. (See Weichelt, F. C., and Turnbull.)
- Turnell, Ernest H., Chicago, Ill. Milk bottle and cream separator for use therewith. 1,645,622; Oct. 18.
- Turner, Aaron. (See Ham, Clayton S., assignor.)
- Turner, Albert, and A. P. Burns, assignors to The Heald Machine Company, Worcester, Mass. Sprindile mounting. 1,619,995; Mar. 8.
- Turner, Albert W., Hamburg, Germany. Device for closing the air bladders of sport balls of any kind. 1,620,245; Mar. 8.
- Turner, Arch P., San Antonio, Tex. Form for making hollow bricks, tiles, and the like. 1,642,980; Sept. 20.
- Turner, Archibald J., assignor to Wilson-Western Sporting Goods Company, Chicago, Ill. Inflatable ball. 1,621,043; Mar. 15.
- Turner, Archibald J., assignor to Wilson-Western Sporting Goods Co., Chicago, Ill. Baseball glove. 1,624,696; Apr. 12.
- Turner, Channing, Geneva, assignor to United States Wind Engine & Pump Company, Batavia, Ill. Wind mill. 1,620,145; Mar. 8.
- Turner, Charles E., and G. R. Milton, Covington, Okla. Oil-well utility gin pole. 1,632,935; June 21.
- Turner, Charles H., Statesville, N. C. Fractional set-works. 1,649,758; Nov. 15.
- Turner, Charles W., New York, N. Y. Destructive disintegration of hydrocarbons. 1,647,028; Oct. 25.
- Turner, Chauncey E., Seattle, Wash. Wrench. 1,646,668; Oct. 25.
- Turner, Claude A. P., Minneapolis, Minn., assignor to W. M. Turner. Truss for bridges and the like. 1,632,014; June 14.
- Turner, Daniel L., New York, N. Y., and J. P. Hallihan, Detroit, Mich. Highway construction. 1,628,934; May 17.
- Turner, Daniel L., and J. P. Hallihan, Detroit, Mich. Superhighway. 1,628,935; May 17.
- Turner, David E., London, England. Tip-up and strike chair. 1,631,440; June 7.
- Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Pointing device for measuring and computing machines. 1,615,184; Jan. 18.
- Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Ribbon measuring, cost computing, and winding machine. 1,624,173; Apr. 19.
- Turner, Edgar A., Chicago, Ill. Heater for automobile water-cooling systems. 1,637,596; Aug. 2.
- Turner, Edwin A., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. 1,647,159; Nov. 1.
- Turner, Elijah N., U. S. Army, Fort Wint, P. I. Rope-turned wheel. 1,629,814; May 24.
- Turner, Fannie L., Charlotte, N. C. Magnetic sweeper. 1,630,987; May 31.
- Turner, Frances M., assignor of one-half to J. E. Carda-rolle, Minneapolis, Minn. Drying rack for bathtubs. 1,628,936; May 17.
- Turner, Frank A., New York, N. Y. Resilient wheel. 1,632,809; June 21.
- Turner, Frederick A., Okmulgee, Okla. Temper screw. 1,614,813; Jan. 18.
- Turner, Frederick J., and J. E. E. Starck, Elstree, assignors of one-fourth to J. R. Craig, London, and one-fourth to P. J. Packman, Highbury, London, England. Record and the manufacture thereof for talking machines. 1,614,413; Jan. 11.
- Turner, George, Parramatta, and J. E. Bishop, Mosman, near Sydney, New South Wales, Australia. Construction of wheels for road vehicles. 1,624,771; Apr. 12.
- Turner, George A., Stockton, Calif. Inductance-coil frame. 1,624,447; Apr. 12.
- Turner, George M., New Lexington, Ohio. Hydraulic leveling and moving device. 1,615,055; Jan. 18.
- Turner, George E., New Lexington, Ohio. Self-lubricating sheave. 1,654,276; Dec. 27.
- Turner, George T., Philadelphia, Pa. Toy parachute. 1,618,613; Feb. 22.
- Turner, Giles M., Milwaukee, Wis. Truck. 1,635,198; July 12.
- Turner Glass Company. (See Edwards, Wilson D., assignor.)
- Turner, Harry A., Ferriday, La. Cross-row cotton chopper. 1,642,277; Sept. 13.
- Turner, Harry G., Chicago, Ill. Engraving machine. 1,625,062; Apr. 19.
- Turner, John J., Batavia, N. Y., assignor to Universal Gypsum & Lime Co., Chicago, Ill. Apparatus for shaping the edges of wall board or the like. 1,654,024; Dec. 27.
- Turner, John T., Exmore, Va. Protector. 1,637,974; Aug. 2.
- Turner, John Y., Ocean Park, Calif. Shock-absorbing seat support. 1,629,939; May 24.
- Turner, Joseph N., Brooklyn, N. Y., assignor to Eberhard Faber Pencil Co., display package. 1,614,635; Jan. 18.
- Turner, Laurence B., Cambridge, England, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electric relay. 1,642,861; Sept. 20.
- Turner, Nelson C. (See Vores, C. L., and Turner.)
- Turner, Orval M., and H. W. Cannon, Long Beach, Calif. Sucker pump drive. 1,648,204; Nov. 8.
- Turner, Ralph R., jr. (See Turner, Ralph R. and R. R., jr.)
- Turner, Ralph R., and R. R., jr., Charlotte, N. C. Electric fan. 1,650,165; Nov. 22.
- Turner, Richard G. (See Cederlund, A., and Turner.)
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Uniformly-tensioned loom let-off. 1,652,589; Dec. 13.
- Turner, Robert, et al. (See Lindsey, George C., assignor.)
- Turner, Russell J., Butler, Pa., assignor to Guiberson Corporation, Dallas, Tex. Swab. 1,613,066; Jan. 4.
- Turner, Samuel E., assignor to Panhandle Refining Company, Wichita Falls, Tex. Metal transom cushion-block container. 1,632,623; June 14.
- Turner Tanning Machinery Company, The. (See Blaney, William F., assignor.)
- Turner Tanning Machinery Company, The. (See Brophy, J. J., and Broughton, assignors.)
- Turner Tanning Machinery Company, The. (See Brophy, J. J., and McLaughlin, assignors.)
- Turner Tanning Machinery Company, The. (See Broughton, Winn E., assignor.)
- Turner Tanning Machinery Company, The. (See Brown, Oscar H., assignor.)
- Turner Tanning Machinery Company, The. (See Callahan, John J., assignor.)
- Turner Tanning Machinery Company, The. (See McLaughlin, George E., assignor.)
- Turner Tanning Machinery Company, The. (See Suttis, A. E., and Edgar, assignors.)
- Turner, Thomas W., Newport News, Va. Coffee urn. 1,637,286; July 26.
- Turner, Walter M., and J. W. Brown, Atlantic City, N. J. Nut lock. 1,613,493; Jan. 4.
- Turner, William. (See Thibedeau, J. F., Deguire, Turner, and McDermid.)
- Turner, William E., assignor to Pass & Seymour, Inc., Solvay, N. Y. Porcelain-shade holder. 1,613,007; Jan. 4.
- Turner, William F., Newark, Del. Combination furniture. 1,618,737; Feb. 22.
- Turner, William M. (See Turner, Charles A. P., assignor.)
- Turner, William M., Detroit, Mich., assignor to The Payne and Williams Company, Cleveland, Ohio. Door-pocket strap. 1,616,009; Feb. 1.
- Turney, Barbara E. (See Sadler, Frederick W., assignor.)
- Turney, Harry L., Portland, Ore. Logging engine. 1,614,329; Jan. 11.
- Turnquist, J. N., Glen Ellyn, Ill. Oil regulator. 1,621,444; Mar. 15.
- Turpin, George M., Murray City, Utah. Egg-turning device. 1,638,072; Aug. 9.
- Turrell, James E., Noreen, and W. G. Thomas, West Pittston, Pa. Dust cap for tire valves. 1,640,863; Aug. 30.
- Turtle, David, and M. Kittenick, New York, N. Y. Metal cutter. 1,625,341; Apr. 19.
- Turudich, Max, Steubenville, Ohio. Sounding toy. 1,649,759; Nov. 15.
- Turver, William H., assignor, by mesne assignments of one-fourth to T. H. McComsey, Los Angeles, Calif., one-fourth to J. J. Champion, Salt Lake City, Utah, one-fourth to J. H. Whitson, Los Angeles, and one-fourth to M. G. Ripley, Long Beach, Calif. Electrically-heated blanket. 1,615,294; Jan. 25.
- Tuska, C. D., Company, The. (See Miner, Robert S., assignor.)

- Tuska, C. D., Company, The. (See Tuska, Clarence D., assignor.)
- Tuska, Clarence D., assignor to The C. D. Tuska Company, Hartford, Conn. Variometer. 1,630,873; May 31.
- Tuska, Clarence D., assignor to The C. D. Tuska Company, Hartford, Conn. Mold for variometers. 1,630,874; May 31.
- Tuska, Clarence D., assignor to The C. D. Tuska Company, Hartford, Conn. Binding post. 1,646,890; Oct. 25.
- Tussing, Leland A., Toledo, Ohio. Spring suspension means. 1,616,559; Feb. 8.
- Tusup, Matt, Campbell, Calif. Body support. 1,640,586; Aug. 30.
- Tuthill, Henry G., Los Angeles, Calif. Signal. 1,627,625; May 10.
- Tuthill, J. B. (See Wilsey, Irven H., assignor.)
- Tuttle, Albert E., Boston, Mass. Mixing trough. 1,614,436; Jan. 11.
- Tuttle, Albert E., assignor to Blue Diamond Materials Co., Boston, Mass. Apparatus for making plaster and mortar. 1,613,682; Jan. 11.
- Tuttle, Arthur J., et al. (See Myers, Joseph W., assignor.)
- Tuttle, Henry A., Upton, Mass. Brake mechanism. 1,616,241; Feb. 1.
- Tuttle, Henry A., Upton, Mass. Brake mechanism. 1,646,124; Oct. 18.
- Tuttle, Henry A., Upton, Mass. Clutch mechanism. 1,646,125; Oct. 18.
- Tuttle, Henry A., Upton, Mass. Reversing gearing. 1,646,126; Oct. 18.
- Tuttle, Henry A., Upton, Mass. Reversing gearing. 1,649,127; Oct. 18.
- Tuttle, Howard R., Blissfield, Mich. Stone catcher for beet slicers. 1,642,705; Sept. 20.
- Tuttle, James L. (See Long, T. J., and Tuttle.)
- Tuttle, John C., J. P. Smith, and M. L. Weiner, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Tire construction. 1,616,089; Feb. 1.
- Tuttle, Robert L., Schenectady, N. Y., assignor to General Electric Company. Brush holder. 1,615,662; Jan. 25.
- Tuttle, Roy X., assignor to Sanitarium and Hospital Equipment Company, Battle Creek, Mich. Therapeutic lamp. 1,643,430; Sept. 27.
- Tuttle, Roy X., Battle Creek, Mich. Therapeutic lamp. 1,654,315; Dec. 27.
- Tuttle, Roy X., Battle Creek, Mich. Therapeutic lamp. 1,654,314; Dec. 27.
- Tuttle, Wallace W., and E. Hirvonen, Detroit, Mich., assignors to The Steel Wheel Corporation. Brake mechanism. 1,647,975; Nov. 1.
- Tyton, Harry V. (See Johanson, Adolph T., assignor.)
- Tvedt, Thomas T., Brooklyn, N. Y. Plane. 1,623,644; Apr. 5.
- Twedt, Carl I., and M. Hegg, Leonard, N. Dak. Grain-car door. 1,630,680; May 31.
- Twedt, Mandius B., Portland, Oreg. Revolving tray for dining tables. 1,628,013; May 10.
- Tweedale, Ernest, and J. H. Nelson, Rawtenstall, England. Shoe and slipper lasting machine. 1,622,929; Mar. 29.
- Tweeddale, John, Torrance, Calif. Liner for oil wells. 1,620,412; Mar. 8.
- Tweedie, Charles, Jefferson City, Mo. Footwear. 1,632,570; June 14.
- XXth Century Heating and Ventilating Company. (See Diehm, Ernest P., assignor.)
- Twigg, Phyllis M., Ventnor, England. Hat stand. Des. 1,642,568; Sept. 13.
- Twight, Edmund H., Fresno, Calif. Food product. 1,624,153; Apr. 12.
- Twight, Martin. (See Huck, L. C., and Twight.)
- Twin City Scenic Company. (See Brown, William K., assignor.)
- Twin Dry Cell Battery Company, The. (See Deibel, C. P., and Waitt, assignors.)
- Twin High Transmission Company. (See Bethune, J., and Van Roo, assignors.)
- Twitcheell, James E., Detroit, Mich. Cleaning device. 1,646,176; Oct. 18.
- Twombly, Willard I., New York, N. Y., assignor, by mesne assignments, to The Wicolator Company, Newark, N. J. Control for regulating temperatures. 1,616,519; Feb. 8.
- Twombly, Willard I., New York, N. Y., assignor, by mesne assignments, to The Wicolator Company, Newark, N. J. Thermostatic control. 1,628,566; Apr. 5.
- Two Season Process, Incorporated. (See Graflin, Lewis, assignor.)
- Two Vest Sign Company. (See Vest, Thomas F., assignor.)
- 2-Way Window-Shade Company. (See Conner, Benjamin G., assignor.)
- Twyman, B. Wickliffe, Columbus, Ohio. Lifting jack. 1,614,579; Jan. 18.
- Twyman, B. Wickliffe, Marysville, Mich. Automobile jack. 1,618,206; Feb. 1.
- Twyman, B. Wickliffe, Marysville, Mich., and S. Paul, Lima, Ohio. Automobile body-ventilating system. 1,626,893; May 8.
- Twyman, B. Wickliffe, Columbus, Ohio, and R. B. Burton, Indianapolis, Ind. Automatic brake for vehicles. 1,631,902; June 7.
- Tyberg, Oluf, Point Loma, Calif. Typewriter accessory. 1,647,674; Nov. 1.
- Tyberg, Oluf, Point Loma, Calif. Typewriter. 1,652,463; Dec. 13.
- Tyberg, Oluf, Point Loma, Calif. Typewriter keyboard. 1,652,464; Dec. 13.
- Tyden, Emil, Hastings, Mich. Dry-pipe-valve accelerating device. Re16,678; July 12.
- Tyden, Emil, Evanston, Ill. Dry-pipe-valve accelerating device. 1,615,056; Jan. 18.
- Tyden, Emil, Evanston, Ill. Car seal. 1,615,057; Jan. 18.
- Tyden, Emil, Evanston, Ill. Tank gauge. 1,616,934; Feb. 8.
- Tyden, Emil, Evanston, Ill. Valve-seat cutter. 1,632,354; June 14.
- Tyden, Emil, Evanston, Ill. Valve device. 1,635,295; July 12.
- Tyden, Emil, Evanston, Ill. Dry-pipe valve. 1,636,263; July 19.
- Tygart Valley Glass Company. (See Noble, Olbert C., assignor.)
- Tygart Valley Glass Co. (See Reese, Arthur S., assignor.)
- Tykocinski-Tykociner, Joseph, Urbana, Ill. Transmitting, recording, and reproducing sound. 1,640,557; Aug. 30.
- Tyler, Alva W., assignor to Universal Gypsum & Lime Co., Chicago, Ill. Clamping means for wall board or the like. 1,629,555; May 24.
- Tyler, Herbert B., Valparaiso, Ind. Automobile heater. 1,633,717; June 28.
- Tyler, Lewis L., Tacoma, Wash. Logging system. 1,642,568; Sept. 13.
- Tyler, Ralph S., Cleveland Heights, assignor to The Chandler & Price Company, Cleveland, Ohio. Ink fountain for printing presses. 1,618,255; Jan. 4.
- Tyler, Russell P., San Francisco, Calif. Automobile headlight. 1,635,517; July 12.
- Tyler, Thaddeus F., Haverhill, Mass. Adjustable handle for machine dies. 1,630,988; May 31.
- Tyler, W. S., Company, The. (See Disbro, Roger W., assignor.)
- Tynan, Henry J., Ridgewood, N. J. Bobbing-braking mechanism. 1,636,158; July 19.
- Tyra, F. L. (See Tyra, Rudolph K., assignor.)
- Tyra, Joseph, Minneapolis, Minn. Metal Spanish tile. 1,638,755; Aug. 9.
- Tyra, Joseph, Minneapolis, Minn. Metal German tile. 1,648,081; Nov. 8.
- Tyra, Rudolph K., assignor to F. L. Tyra, Minneapolis, Minn. Shingle. 1,634,126; June 28.
- Tyrman, Ernst, Chicago, Ill., assignor to Tyrman Electric Corporation. Condenser mounting and adjusting mechanism. 1,632,691; Dec. 13.
- Tyrman Electric Corporation. (See Tyrman, Ernst, assignor.)
- Tyson, Andrew H., Washington, D. C. Method of and mechanism for perforating plastic material. 1,628,342; May 10.
- Tyson, Calvin W., Prairie Depot, Ohio. Shocker attachment. 1,634,966; July 5.
- Tyson, Frank, Canton, Ohio. Freezing mechanism. 1,645,782; Oct. 18.
- Tyson, William M., Lanett, Ala., assignor of one-fourth to R. J. Jennings, West Point, Ga. Filling-end clearer. 1,628,565; May 10.
- Tyson, William M., Lanett, Ala., assignor of one-fourth to R. J. Jennings, West Point, Ga. Filling end clearer. 1,643,727; Sept. 27.
- Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling-mill screw-down. 1,629,602; May 24.
- U. G. I. Contracting Company, The. (See Brady, Edward J., assignor.)
- U. L. Contracting Company, The. (See Fulweiler, W. H., and Jordan, assignors.)
- U. S. F. Powder Company. (See du Pont, Francis and E., assignors.)
- Ubbelohde, Leo, Karlsruhe, Germany. Treating fibers for spinning purposes. 1,629,241; May 17.
- Udale, Stanley M. (See Anderson, R. M., and Udale.)
- Udale, Stanley M. (See Taylor, C. H., and Udale.)
- Udale, Stanley M., Detroit, Mich. Supercharger for internal-combustion engines. 1,633,143; June 21.
- Udale, Stanley M., assignor to G. M. Holley, Detroit, Mich. Carburetor. 1,618,244; Feb. 22.
- Udale, Stanley M., assignor to E. Holley, Detroit, Mich. Pipe-molding machine. 1,618,245; Feb. 22.
- Ude, Franz E., and G. D. Webster, Springfield, Mass. Liquid-level indicator. 1,613,548; Jan. 4.
- Udstad, Sivert, Aurora, Ill., and W. T. Owens, Lyncan, Colo. Broomcorn-harvesting machine. 1,648,749; Nov. 8.
- Uebelmesser, Charles, New York, N. Y. Liquid-level indicator. 1,613,418; Jan. 4.
- Uebelmesser, Charles, New York, N. Y. Tire-carrying means for automobiles, etc. 1,616,155; Feb. 1.
- Uebelmesser, Charles, New York, N. Y. Steam boiler. 1,653,828; Dec. 27.
- Ufert, Walter B., Lynbrook, N. Y. Automatic shaft lock for automobiles. 1,631,843; June 7.
- Uford, Edith H., Salina, Kans. Doll. Des. 72,782; May 31.
- Uhl, George R. (See Brown, H., and Uhl.)
- Uhl, Robert L., Chino, Calif. Safety gas device or cock. 1,633,504; June 21.

- Uhlemann, Theodore F., assignor to Nicholas Power Company, Inc., New York, N. Y. Framing mechanism for motion picture machines. 1,619,551; Mar. 1.
- Uhlík, John L., Los Angeles, Calif. Universal fruit-tree-prop line support. 1,634,004; June 28.
- Uhlinger, Roy H., Mount Lebanon Township, Allegheny County, assignor to Thermoatomic Carbon Company, Pittsburgh, Pa. Rubber composition. 1,638,421; Aug. 9.
- Uhlmann, Otto E., Grand Rapids, Mich. Signal light for automobiles. Des. 72,185; Mar. 8.
- Uhrig, William H., St. Louis, Mo. Preparing feathers for bedding and the like. 1,620,303; Mar. 8.
- Uhthoff, Eduard, Berlin-Charlottenburg, Germany. Typeline setting and casting machine. 1,613,972; Jan. 11.
- Uhthoff, Eduard, Berlin-Charlottenburg, Germany. Typeline setting and casting machine. 1,618,898; Feb. 22.
- Uhllein, Erwin C. (See Callaghan, Thomas F., assignor.)
- Ulrich, H. P., & Co. (See Ulrich, Harold E., and W. E., Riethelmer, assignors.)
- Ulrich, Harold E., Larchmont, W. E. Ulrich, New York, and R. Riethelmer, Richmond Hill, assignors to H. P. Ulrich & Co., New York, N. Y. Necktie-display card. 1,644,963; Oct. 11.
- Ulrich, Lynne H., Racine, and R. J. Goodrich, South Milwaukee, Wis. The New York Company Milwaukee, Wis. Making N-dihydro-1-2-2'-1'-anthraquinoneazine. 1,634,473; July 5.
- Ulrich, Walter E. (See Ulrich, Harold E. and W. E., and Riethelmer.)
- Uline Ice-Scoring Machine Company, The. (See Happel, Albert W., assignor.)
- Uline Ice-Scoring Machine Company, The. (See Jobst, Conrad, assignor.)
- Uline, Michiel J., Toledo, Ohio. Device for lifting ice cans. 1,639,788; Aug. 23.
- Ullgen, Johan D., Stocksund, assignor to Aktiebolaget Karistads Mekanska Verkstad, Karistad, Sweden. Pulp grinder. 1,626,015; Apr. 26.
- Ullin, Carl G., Centralia, Wash. Dry Kiln. 1,637,166; July 26.
- Ullman Manufacturing Company, The. (See Straus, Joseph K., assignor.)
- Ullom, Lewis O., Ellwood City, Pa. Removing wall paper from walls. 1,646,177; Oct. 18.
- Ulrich, Emil H. W., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,626,650; May 3.
- Ulrich, Emil H. W., New York, assignor to Klnesthetic Process Co., Inc., Long Island City, N. Y. Painting. 1,654,277; Dec. 27.
- Ulrich, Georg, Magdeburg, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Magnetic separator. 1,617,971; Feb. 15.
- Ulrich, Peter M., Waverly, Iowa. Device for holding registration cards on automobiles. 1,626,107; Apr. 26.
- Ulmann, Edgar A., Los Angeles, Calif., assignor, by mesne assignments, to Tower Manufacturing Co., Inc., New York, N. Y. Controlling apparatus. 1,625,000; Apr. 19.
- Ulrey, Clayton T., East Orange, N. J., assignor to Westinghouse Lamp Company. Destruction of the electrical conductivity of films. 1,616,010; Feb. 1.
- Ulrey, Clayton T., East Orange, N. J., assignor to Westinghouse Lamp Company. Seal for X-ray tubes. 1,653,380; Dec. 20.
- Ulrich, Charles B., Jamestown, N. Y. Filing safe. 1,651,784; Dec. 6.
- Ulrich, Charles B., Jamestown, N. Y. Hunting boat. 1,651,785; Dec. 6.
- Ulrich, Horace W., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,647,258; Nov. 1.
- Ulrich, Horace W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Regulating means and circuit. 1,647,385; Nov. 1.
- Ulrich, Julius M., Greenwich, Conn., assignor to Palmer Bros. Engines, Inc., Coscob, Conn. Transmission mechanism. 1,635,063; July 5.
- Ulrich, Toney D., Sharpville, Ind., assignor of one-half to L. M. Gerber, Argenta, Ill. Humidifier. 1,646,329; Oct. 18.
- Ulrich, Gerardus J., Dusseldorf, Grafenberg, Germany. Apparatus for cleaning, collecting, or separating gases. 1,637,597; Aug. 2.
- Umansky, Leonid A., Schenectady, N. Y., assignor to General Electric Company. Power-transmitting system. 1,622,551; Mar. 29.
- Umbdenstock, Walter, assignor to F. Greer, Chicago, Ill. Nut-castelling machine. 1,646,840; Oct. 25.
- Umetsu, Tadayoshi, Saitaku-Gun, Japan. Gyroscopic device. 1,613,301; Jan. 4.
- Umuawa, Umuwa, Tokyo, Japan, assignor to General Electric Company. Electric measuring apparatus. 1,652,917; Dec. 13.
- Umsted, Bruce T., and E. N. Harris; said Harris assignor of forty-five one-hundredths of the entire right to John H. Johnson and Sons, Jackson, Tenn. Current rectifying and controlling system. 1,637,015; July 26.
- Una Welding and Bonding Company. (See Austin, John B., assignor.)
- Una Welding and Bonding Company. (See Copland, James P., assignor.)
- Uncas Manufacturing Company. (See Rowan, Albert J., assignor.)
- Underwood Computing Machine Company. (See Thleme, Otto, assignor.)
- Underwood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Decorative covering for cameras and producing same. 1,613,365; Jan. 4.
- Underood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-camera construction. 1,620,304; Mar. 8.
- Underwood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing mechanism for cameras. 1,651,743; Dec. 6.
- Underwood, George B., Peabody, assignor to American Glue Company, Boston, Mass. Obtaining glue and gelatin. 1,629,556; May 24.
- Underwood, Harris F. (See Wright, J. W., and Underwood.)
- Underwood, Harold R. (See Newhall, H. B., and Underwood.)
- Underwood, Jesse J., assignor of one-half to J. B. Antonette, Tacoma, Wash. Electric water heater. 1,627,875; May 10.
- Underwood, Norman. (See Hopkins, M. S., and Underwood.)
- Underwood Typewriter Company. (See Barker, Benjamin F., assignor.)
- Underwood Typewriter Company. (See Baskerville, Edward A., assignor.)
- Underwood Typewriter Company. (See Bates, James H., assignor.)
- Underwood Typewriter Company. (See Becker, Fred, assignor.)
- Underwood Typewriter Company. (See Bryant, William O., assignor.)
- Underwood Typewriter Company. (See Campbell, George O., assignor.)
- Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
- Underwood Typewriter Company. (See Crews, Clarence M., assignor.)
- Underwood Typewriter Company. (See Cripe, Harry E., assignor.)
- Underwood Typewriter Company, The. (See Daniel, Royal G., assignor.)
- Underwood Typewriter Company. (See Davis, John W., assignor.)
- Underwood Typewriter Company. (See Dobson, William O., assignor.)
- Underwood Typewriter Company. (See Engelslepen, John W., assignor.)
- Underwood Typewriter Company. (See Fuerth, Sydney W., assignor.)
- Underwood Typewriter Company. (See Hanus, Raymond, assignor.)
- Underwood Typewriter Company. (See Helmond, William F., assignor.)
- Underwood Typewriter Company. (See Hisee, Charles M., assignor.)
- Underwood Typewriter Company. (See Knee, Walter J., assignor.)
- Underwood Typewriter Company. (See Kupetz, Adolph G., assignor.)
- Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
- Underwood Typewriter Company. (See Lane, William E., assignor.)
- Underwood Typewriter Company. (See Latta, Emmitt G., assignor.)
- Underwood Typewriter Company. (See Lindburg, Joseph, assignor.)
- Underwood Typewriter Company. (See Murphy, Gerald H., assignor.)
- Underwood Typewriter Company. (See Nearh, Jacob E., assignor.)
- Underwood Typewriter Company. (See Norin, Carl E., assignor.)
- Underwood Typewriter Company. (See Oswald, Alfred E., assignor.)
- Underwood Typewriter Company. (See Pitman, Henry L., assignor.)
- Underwood Typewriter Company. (See Rothermund, Varner F., assignor.)
- Underwood Typewriter Company. (See Rowley, Edward G., assignor.)
- Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
- Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
- Underwood Typewriter Company. (See Ursbruck, Frank C., assignor.)
- Underwood Typewriter Company. (See Vickers, Harry H., assignor.)
- Underwood Typewriter Company. (See Waldheim, John, assignor.)
- Underwood, Walter O., assignor of one-third to Ralph E. Duffy and one-third to Robert D. Payne, Greenfield, Mo. Automobile body. 1,644,405; Oct. 4.
- Underwood, Weeden B., assignor to Wilmot Castle Company, Rochester, N. Y. Bedpan cleaner and sterilizer. 1,653,242; Dec. 20.
- Underwood, Western, Los Angeles, Calif. Street lighting post. Des. 71,856; Jan. 11.
- Underwood, Western, Los Angeles, Calif. Lighting post. Des. 73,348; Aug. 23.

- Underwood, Western, Los Angeles, Calif. Capital for lighting posts. Des. 73,719; Oct. 25.
- Underwood, Western, Los Angeles, Calif. Lighting post. Des. 73,952; Nov. 22.
- Underwood, Western, Santa Monica, Calif., assignor to Westinghouse Electric & Manufacturing Company. Lighting standard. Des. 71,855; Jan. 11.
- Unger, Ernest, New York, N. Y. Chandelier. 1,636,723; July 26.
- Unger, Ernest G., New York, N. Y. Hair-waving apparatus. 1,653,792; Dec. 27.
- Unger, Ernest G., New York, N. Y. Automatic locking clamp. 1,653,793; Dec. 27.
- Unger, Louis, Elvira, Ohio. Metal safety seal for envelopes and the like. 1,651,564; Dec. 6.
- Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Induction furnace. 1,626,437; Apr. 26.
- Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Induction furnace. 1,626,485; Apr. 26.
- Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Apparatus for refining metals. 1,628,375; May 10.
- Unger, Nils A., Vinterviken, Aspudden, Sweden. Process and device for the development, fixing, washing, etc., of photographic or cinematographic films or the like. 1,621,291; Mar. 15.
- Ungerer, Fritz, Pforzheim, Germany. Index plate. 1,648,034; Nov. 8.
- Ungerer, Karl F., Pforzheim, Germany. Rolling machine. 1,624,448; Apr. 12.
- Ungerer, Karl F., Pforzheim, Germany. Shaft coupling. 1,625,511; Apr. 19.
- Ungerman, Carl, Detroit, Mich. Sash-regulating device. 1,630,230; May 24.
- Ungerman, Carl, Detroit, Mich. Sash regulator. 1,640,864; Aug. 30.
- Unglaub, Spencer S. (See Ingram, Walter M., assignor.)
- Unico-Motor Products Corporation. (See Edelmann, Louis A., assignor.)
- Unico Motor Products Corporation. (See Walter, Frank H., assignor.)
- Union Asbestos & Rubber Company. (See Hill, Chester L., assignor.)
- Union Bag & Paper Corporation. (See Avery, True M., assignor.)
- Union Bag & Paper Corporation. (See Kischel, E. L., and Seitzinger, assignors.)
- Union Bank of Chicago, trustee. (See Cowles, Irving, assignor.)
- Union Bed and Spring Company. (See Ford, Ben K., assignor.)
- Union Bed and Spring Company. (See Motschman, Henry H., assignor.)
- Union Bed & Spring Company. (See Powers, George G., assignor.)
- Union Carbide & Carbon Research Laboratories, Inc. (See St. John, Abel, assignor.)
- Union Draft Gear Company. (See Canfield, Lewis T., assignor.)
- Union Draft Gear Company. (See Cardwell, James R., assignor.)
- Union Draft Gear Company. (See Cotton, Walter H., assignor.)
- Union Dry Battery Corporation of America. (See Apostoloff, Serge, assignor.)
- Union Electric Manufacturing Company. (See Campbell, Harry E., assignor.)
- Union Electric Manufacturing Company. (See Campbell, H. E., and Meikelburg, assignors.)
- Union Gear Co. (See Canfield, Lewis T., assignor.)
- Union Iron Works. (See Smith, Mark E., assignor.)
- Union Machinery Company. (See Johnson, Harvey F., assignor.)
- Union Metal Manufacturing Company, The. (See Ebel, G. F., and Zink, assignors.)
- Union Metal Manufacturing Company, The. (See Frahm, Carl A., assignor.)
- Union Metal Manufacturing Company, The. (See Rastetter, Harry O., assignor.)
- Union Metal Products Company. (See Bonsall, Charles D., assignor.)
- Union Metal Products Company. (See Cooke, George T., assignor.)
- Union Metal Products Company. (See Coutant, George E., assignor.)
- Union Metal Products Company. (See Dodds, Ethan I., assignor.)
- Union Metal Products Company. (See Gilpin, Garth G., assignor.)
- Union Metal Products Company. (See Murphy, Walter P., assignor.)
- Union Metal Products Company. (See Sisson, Vinton E., assignor.)
- Union Metal Products Company. (See Small, Arthur, assignor.)
- Union Metal Products Company. (See Swann, James S., assignor.)
- Union Metal Products Company. (See Thalheimer, Nicholas C., assignor.)
- Union Metal Products Company. (See Williams, William, assignor.)
- Union Metal Products Company. (See Wolff, Frank W., assignor.)
- Union Railway Equipment Company. (See Hall, William B., assignor.)
- Union Railway Equipment Company. (See O'Connor, Arthur F., assignor.)
- Union Simplex Train Control Co. (See Miller, Monroe E., assignor.)
- Union Special Machine Company. (See Ericsson, Arvid, assignor.)
- Union Special Machine Company. (See Foster, William B., assignor.)
- Union Special Machine Company. (See Le Roy, Walter E., assignor.)
- Union Special Machine Company. (See Long, William B., assignor.)
- Union Special Machine Company. (See Moffatt, James R., assignor.)
- Union Special Machine Company. (See Rubel, C. F., and Kucera, assignors.)
- Union Special Machine Company. (See Soper, Roy M., assignor.)
- Union Special Machine Company. (See Stauss, Walter J., assignor.)
- Union Special Machine Company. (See Tate, Samuel G., assignor.)
- Union Special Machine Company. (See Thero, Charley, assignor.)
- Union Special Maschinenfabrik, G. m. b. H. (See Maier, Karl, assignor.)
- Union Spring & Manufacturing Company. (See Gibson Charles, assignor.)
- Union Steel Products Company. (See Bitney, Dewey, assignor.)
- Union Steel Products Company. (See Hatch, Charles T., assignor.)
- Union Steel Products Company. (See Mitchell, Robert B., assignor.)
- Union Sulphur Company. (See Marx, Carl, assignor.)
- Union Sulphur Company. (See Wilkinson, Henry H., assignor.)
- Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
- Union Switch & Signal Company, The. (See Beall, Charles R., assignor.)
- Union Switch & Signal Company, The. (See Beall, C. R., and Gilson, assignors.)
- Union Switch & Signal Company, The. (See Bossart, Paul N., assignor.)
- Union Switch & Signal Company. (See Brown, D. F., and Raymer, assignors.)
- Union Switch & Signal Company, The. (See Coleman, John P., assignor.)
- Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)
- Union Switch & Signal Company. (See Edmonds, Courtenay H. W., assignor.)
- Union Switch & Signal Company, The. (See Field, Oscar S., assignor.)
- Union Switch & Signal Company, The. (See Fisher, A. W., and Wells, assignors.)
- Union Switch & Signal Company, The. (See Fisher, Arthur W., assignor.)
- Union Switch & Signal Company, The. (See Geiger, Paul H., assignor.)
- Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
- Union Switch & Signal Company, The. (See Grondahl, Lars S., assignor.)
- Union Switch & Signal Company, The. (See Grondahl, L. O., and Ryder, assignors.)
- Union Switch & Signal Company, The. (See Hobson, John S., assignor.)
- Union Switch & Signal Company, The. (See Holte, Harold O., assignor.)
- Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)
- Union Switch & Signal Company, The. (See Johnston, Allen T., assignor.)
- Union Switch & Signal Company, The. (See Lee, F. W., and Grondahl, assignors.)
- Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
- Union Switch & Signal Company, The. (See Little, Edwin G., assignor.)
- Union Switch & Signal Company, The. (See Loomis, Arnold S., assignor.)
- Union Switch & Signal Company, The. (See Lucas, Samuel M., assignor.)
- Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
- Union Switch & Signal Company, The. (See Nettleton, Lewis L., assignor.)
- Union Switch & Signal Company, The. (See Nettleton, L. L., and Grondahl, assignors.)
- Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)
- Union Switch & Signal Company, The. (See O'Hagan, Bernard E., assignor.)
- Union Switch & Signal Company, The. (See Penrod, Melvin A., assignor.)
- Union Switch & Signal Company, The. (See Peter, Leslie H., assignor.)
- Union Switch & Signal Company, The. (See Proud, Harry M., assignor.)
- Union Switch & Signal Company, The. (See Snavely, C. S., and Fisher, assignors.)

- Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)
 Union Switch & Signal Company, The. (See Spray, Lester E., assignor.)
 Union Switch & Signal Company, The. (See Thompson, H. A. and Failor, assignors.)
 Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
 Union Switch & Signal Company, The. (See Vencill, Albert L., assignor.)
 Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
 Union Switch & Signal Company, The. (See Wyant, Percy, assignor.)
 Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
 Union Switch & Signal Company, The. (See Zierdt, Conrad H., assignor.)
 Union Tank and Pipe Company. (See Furey, Fred M., assignor.)
 Union Tank Car Company. (See Smiley, Arthur B., assignor.)
 Union Tank Car Company. (See Smith, Abram E., assignor.)
 Union Tank Car Company. (See Smith, Ray M., assignor.)
 Union Tank & Pipe Co. (See Sweeney, Morgan L., assignor.)
 Union Taxi Owners Association. (See Gerson, Meyer I., assignor.)
 Union Tool Company. (See Goesser, Edward W., assignor.)
 Union Tool Company. (See Timbs, Edward, assignor.)
 Union Tool Company. (See Timbs, E., and Zerbe, assignors.)
 Union Tool Company. (See Timbs, E., Zerbe, and von Schlegel, assignors.)
 Union Trust Company, The. (See Melanowski, Leo, assignor.)
 Union Trust Company, executor. (See Panpa, Joseph.)
 Union Trust Company, operating trustee, The. (See Melanowski, Leo, assignor.)
 Union Trust Company, The, operating trustee. (See Melanowski, Leo, assignor.)
 Union Trust Co. of Pittsburgh, et al., executors. (See Laughlin, Alexander, Jr.)
 Union Trust Company, et al., trustees, The. (See Sommer, William H., assignor.)
 Union Spark Plug Cleaner Co. (See Floyd, Roy C., assignor.)
 United Ammonia Company. (See Dolan, J. R., and Shea, assignors.)
 United Autographic Register Co. (See Barker, W. R., and Jensen, assignors.)
 United Autographic Register Company. (See Barker, W. R., and Jensen, assignors.)
 United Autographic Register Company. (See James, Charles H., assignor.)
 United Autographic Register Company. (See Jensen, Louis, assignor.)
 United Cigarette Machine Co. Inc. (See Koerner, Ewald, assignor.)
 United Color Pictures, Inc. (See Shaw, J., and Berwick, assignors.)
 United Conveyor Corporation. (See Ayling, Henry S., assignor.)
 United Conveyor Corporation. (See Tolman, Edgar B., Jr., assignor.)
 United Electric Co. (See Dowdell, Noble G., assignor.)
 United Electric Company, The. (See Serva, Adam A., assignor.)
 United Electric Railways Company. (See Wright, William D., assignor.)
 United Engineering and Foundry Company. (See Pennington, Harley D., assignor.)
 United Engineering and Foundry Company. (See Austin, Ned M., assignor.)
 United Engineering & Foundry Company. (See Johnson, Lane, assignor.)
 United Engineering and Foundry Company. (See Klein, Clarence J., assignor.)
 United Engineering & Foundry Company. (See Smitsmans, John A., assignor.)
 United Engineering & Foundry Company. (See Walters, Harry B., assignor.)
 United Filters Corporation. (See Genter, A. L., and McCutcheon, assignors.)
 United Fly Salt Company. (See Nelson, Charles O., assignor.)
 United Iron Works. (See Brown, Walter E., assignor.)
 United Iron Works, Inc. (See Brown, Walter E., assignor.)
 United Iron Works, Inc. (See Taaffe, George R., assignor.)
 United Kingdom Optical Company, Limited. (See Watson, F. B., and Culver, assignors.)
 United Metal Box Co. Inc. (See Hammer, Samuel, assignor.)
 United Metal Hose Company. (See Levitt, Samuel, assignor.)
 United Products Company. (See Glaze, H. L., and Humphrey, assignors.)
 United Products Corporation of America. (See Biddle, Arthur, assignor.)
 United Rim Company, The. (See Johnston, Clarence S., assignor.)
 United Royalties Corporation. (See Humphrey, Ernest N., assignor.)
 United Shoe Machinery Corporation. (See Angers, Charles S., assignor.)
 United Shoe Machinery Corporation. (See Ashton, Ernest, assignor.)
 United Shoe Machinery Corporation. (See Ballard, Milton H., assignor.)
 United Shoe Machinery Corporation. (See Ballard, Harrie A., assignor.)
 United Shoe Machinery Corporation. (See Barclay, W. R., and Keall, assignors.)
 United Shoe Machinery Corporation. (See Barclay, W. R., and Minett, assignors.)
 United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
 United Shoe Machinery Corporation. (See Bliss, Charles A., assignor.)
 United Shoe Machinery Corporation. (See Bowle, Derwin, W., assignor.)
 United Shoe Machinery Corporation. (See Braden, Albert R., assignor.)
 United Shoe Machinery Corporation. (See Bresnahan, Maurice V., assignor.)
 United Shoe Machinery Corporation. (See Brogan, Michael F., assignor.)
 United Shoe Machinery Corporation. (See Bunker, D. W., and Cummings, assignors.)
 United Shoe Machinery Corporation. (See Cooper, Basil P., assignor.)
 United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
 United Shoe Machinery Corporation. (See Cross, Garrett P. S., assignor.)
 United Shoe Machinery Corporation. (See Davis, Roswell, assignor.)
 United Shoe Machinery Corporation. (See Elliott, Harry D., assignor.)
 United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)
 United Shoe Machinery Corporation. (See Estey, Arthur C., assignor.)
 United Shoe Machinery Corporation. (See Flickinger, William F., assignor.)
 United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)
 United Shoe Machinery Corporation. (See Frye, Robert F., assignor.)
 United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
 United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
 United Shoe Machinery Corporation. (See Goddu, George, assignor.)
 United Shoe Machinery Corporation. (See Goddu, G., and Mackenzie, assignors.)
 United Shoe Machinery Corporation. (See Gorsuch, George J., assignor.)
 United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)
 United Shoe Machinery Corporation. (See Gouldbourn, J., and Minett, assignors.)
 United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
 United Shoe Machinery Corporation. (See Hadaway, John D., assignor.)
 United Shoe Machinery Corporation. (See Hamilton, Harry D., assignor.)
 United Shoe Machinery Corporation. (See Haworth, John T., assignor.)
 United Shoe Machinery Corporation. (See Heys, J. J., and Braden, assignors.)
 United Shoe Machinery Corporation. (See Hood, Charles E., assignor.)
 United Shoe Machinery Corporation. (See Hooper, Lester B., assignor.)
 United Shoe Machinery Corporation. (See Hopkins, Nathan F., assignor.)
 United Shoe Machinery Corporation. (See Horgan, Patrick J., assignor.)
 United Shoe Machinery Corporation. (See Horne, Albert J., assignor.)
 United Shoe Machinery Corporation. (See Jackson, James B., assignor.)
 United Shoe Machinery Corporation. (See Jorgensen, Bernhard, assignor.)
 United Shoe Machinery Corporation. (See Jullian, Gideon, assignor.)
 United Shoe Machinery Corporation. (See Keall, Frank B., assignor.)
 United Shoe Machinery Corporation. (See Kelley, H. W., and Wolfe, assignors.)
 United Shoe Machinery Corporation. (See Kelly, John A., assignor.)
 United Shoe Machinery Corporation. (See La Chapelle, Fred N., assignor.)
 United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
 United Shoe Machinery Corporation. (See Long, Austin M., assignor.)
 United Shoe Machinery Corporation. (See Lovell, Stanley P., assignor.)

- United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
- United Shoe Machinery Corporation. (See MacArthur, David, assignor.)
- United Shoe Machinery Corporation. (See Macdonald, Lester S., assignor.)
- United Shoe Machinery Corporation. (See Mackenzie, F. L., and Goddu, assignors.)
- United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)
- United Shoe Machinery Corporation. (See Mahler, J. J., and Webb, assignors.)
- United Shoe Machinery Corporation. (See Marshall, David O., assignor.)
- United Shoe Machinery Corporation. (See Matthews, Algernon W., assignor.)
- United Shoe Machinery Corporation. (See Merrick, Frank W., assignor.)
- United Shoe Machinery Corporation. (See Molyneux, George E., assignor.)
- United Shoe Machinery Corporation. (See Morley, Denys W., assignor.)
- United Shoe Machinery Corporation. (See Monfals, Napoleon A., assignor.)
- United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
- United Shoe Machinery Corporation. (See Morrill, Charles D., assignor.)
- United Shoe Machinery Corporation. (See Norden, Carl S., assignor.)
- United Shoe Machinery Corporation. (See Nutt, William H., assignor.)
- United Shoe Machinery Corporation. (See Pearson, Chester L., assignor.)
- United Shoe Machinery Corporation. (See Phelan, Merton D., assignor.)
- United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)
- United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
- United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)
- United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)
- United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
- United Shoe Machinery Corporation. (See Reed, James H., assignor.)
- United Shoe Machinery Corporation. (See Reid, R. G., Bates, and Ricks, assignors.)
- United Shoe Machinery Corporation. (See Richardson, John H., assignor.)
- United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
- United Shoe Machinery Corporation. (See Ricks, F., and Burgoyne, assignors.)
- United Shoe Machinery Corporation. (See Rising, Harry A., assignor.)
- United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
- United Shoe Machinery Corporation. (See Robinson, George B., assignor.)
- United Shoe Machinery Corporation. (See Sabin, Ernest E., assignor.)
- United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
- United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
- United Shoe Machinery Corporation. (See Smith, Archibald C., assignor.)
- United Shoe Machinery Corporation. (See Standish, John F., assignor.)
- United Shoe Machinery Corporation. (See Thibaudeau, Charles E., assignor.)
- United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
- United Shoe Machinery Corporation. (See Topham, L. E., and Morrill, assignors.)
- United Shoe Machinery Corporation. (See Warren, George E., assignor.)
- United Shoe Machinery Corporation. (See Webster, Charles C., assignor.)
- United Shoe Machinery Corporation. (See Winkley, Erasmus E., assignor.)
- United Shoe Machinery Corporation. (See Winkley, E. E., and Davenport, assignors.)
- United Shoe Machinery Corporation. (See Woodcock, R. B., and Hope, assignors.)
- United States Air Compressor Company, The. (See Bacher, Rollin L., assignor.)
- United States Asbestos Co. (See Hettinger, Jennie S., assignor.)
- United States Asbestos Company. (See Obetz, G. U., and Walter, assignors.)
- United States Asbestos Company. (See Rohrer, John D., assignor.)
- United States Automatic Fire Alarm Company, The. (See Johnson, John M., assignor.)
- U. S. Bedding Company. (See Brown, Jefferson F., assignor.)
- U. S. Bedding Company. (See Heyman, Samuel, assignor.)
- U. S. Bobbin & Shuttle Co. (See Allen, Robert N., assignor.)
- U. S. Bobbin & Shuttle Company. (See Buffington, Edwin C., assignor.)
- U. S. Bobbin & Shuttle Co. (See Davol, Harry A., assignor.)
- U. S. Bobbin & Shuttle Co. (See Stetson, Frank H., assignor.)
- U. S. Bottlers Machine Company. (See Risser, Arthur I., assignor.)
- United States Cast Iron Pipe & Foundry Company. (See Loscy, Arthur, assignor.)
- United States Chain & Forging Company. (See Bremer, Frederick G., assignor.)
- United States Chain & Forging Company. (See McGowan, William R., assignor.)
- United States Electric Manufacturing Company. (See Johnson, Carl E., assignor.)
- United States Engineering Company. (See Law, Edward F., assignor.)
- United States Finishing Company, The. (See Mowry, Harold B., assignor.)
- United States Finishing Company, The. (See Witte, William, assignor.)
- United States Fire Protection Company. (See Newton, George F., assignor.)
- United States Gauge Company. (See Ingham, Robert A., assignor.)
- United States Gauge Company. (See Manuel, C. J., and Lentz, assignors.)
- United States Gauge Company. (See McClelland, Bert, assignor.)
- United States Glass Company. (See Loomis, Virgil V., assignor.)
- United States Glass Company. (See Northwood, Charles O., assignor.)
- United States Glass Company. (See Stewart, Fred W., assignor.)
- United States Gypsum Company. (See Armstrong, Morgan K., assignor.)
- United States Gypsum Company. (See Birdsey, Charles R., assignor.)
- United States Gypsum Company. (See Brookby, Harry E., assignor.)
- United States Gypsum Company. (See Brookby, H. E., and King, assignors.)
- United States Gypsum Company. (See Speer, Alexander, assignor.)
- United States Gypsum Company. (See Utzman, Clarence W., assignor.)
- United States Hat Machinery Corporation. (See Genest, Homer A., assignor.)
- United States Hoffman Machinery Corporation. (See Dierker, Hyman, assignor.)
- United States Hoffman Machinery Corporation. (See Goldhof, Peter E., assignor.)
- United States Hoffman Machinery Corporation. (See Page, Herbert E., assignor.)
- United States Hoffman Machinery Corporation. (See Stocker, E. D., and Ledbetter, assignors.)
- United States Import House Emanuel Van Dam. (See Grosser, Hans, assignor.)
- U. S. Industrial Alcohol Co. (See Arentz, Fred B., assignor.)
- U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
- U. S. Industrial Alcohol Co. (See Carter, Ray M., assignor.)
- U. S. Industrial Alcohol Co. (See Clapp, Elwood I., assignor.)
- U. S. Industrial Alcohol Co. (See Cochrane, William F., assignor.)
- U. S. Industrial Alcohol Co. (See Hammond, John A. S., assignor.)
- U. S. Industrial Alcohol Co. (See Mitchell, Harry G., assignor.)
- U. S. Industrial Alcohol Co. (See Schreiber, Walter T., assignor.)
- U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)
- U. S. Light & Heat Corporation. (See Kyle, George L., assignor.)
- U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
- United States Machine Gun Company. (See Green, S. G., and Hatcher, assignors.)
- United States Machinery Manufacturing Company. (See Woodward, Charles L., assignor.)
- U. S. Manufacturing Corporation. (See Le Pere, John G., assignor.)
- United States Metals Refining Company. (See Marks, August, assignor.)
- United States of America. (See Jordan, L., and Quick, assignors.)
- United States Paper Mills, Inc. (See Rosenthal, D. A., and Winter, assignors.)
- United States Playing Card Company, The. (See Four- nler, Oscar, assignor.)
- United States Pump Corporation. (See Schwenzer, G. A., and Stackhouse, assignors.)
- United States Pump Corporation. (See Splain, W. E., and Stackhouse, assignors.)
- United States Register Company. (See Truax, William T., assignor.)
- U. S. Ring Traveler Company. (See Gilligan, George H., assignor.)

- United States Sand Paper Company. (See Canada, Chauncey M., assignor.)
- United States Sand Paper Company. (See Joseph, Henry, assignor.)
- United States Sanitary Manufacturing Company. (See Henricks, Henry E., assignor.)
- United States Screw & Stamping Co. (See Royal, Ellery E., assignor.)
- U. S. Shutter Lens Company. (See Radford, Herbert A., assignor.)
- U. S. Slicing Machine Company. (See Nyhus, Sverre, assignor.)
- U. S. Slicing Machine Company. (See Stukart, Hendrik, assignor.)
- U. S. Slicing Machine Company. (See Van Berkel, assignor.)
- United States Smelting, Refining & Mining Company. (See Hamilton, E. H., and Kirk, assignors.)
- United States Smelting, Refining & Mining Company. (See Kirscheim, Gustaf N., assignor.)
- United States Smelting, Refining & Mining Company. (See Mulock, Fred S., assignor.)
- United States Smelting, Refining & Mining Company. (See Wichman, F. M., and Hartlapp, assignors.)
- U. S. Specialty Company. (See Clauson, William, assignor.)
- United States Specialty Corporation. (See Lundquist, Hans, assignor.)
- United States Stoneware Company. (See Chamberlain, John J., assignor.)
- United States Tent & Awning Company. (See Leftert, Charles B., assignor.)
- U. S. Tool Company. (See Cahusac, Clarence N., assignor.)
- U. S. Tool Co. (See Dester, William F., assignor.)
- U. S. Tool Co. (See Hopkins, Arthur C., assignor.)
- U. S. Tool Company. (See Koch, Frederick, assignor.)
- U. S. Tool Company. (See Powers, Charles P., assignor.)
- U. S. Tool Co. (See Ross, Ernest, assignor.)
- U. S. Tool Company. (See Wilson, W. J., and Carlton, assignors.)
- U. S. Tool Company. (See Woods, Walter T., assignor.)
- United States Train Signal Company. (See Stafford, Earl C., assignor.)
- United States Wind Engine & Pump Company. (See Turner, Channing, assignor.)
- United Steel Block Corporation. (See Dickinson, Walter H., assignor.)
- United Steel and Wire Company. (See Jarvis, Charles H., assignor.)
- United Tool and Manufacturing Co., et al. (See Gries, Lester M., assignor.)
- United Wire and Supply Company. (See Hughes, Thomas F., assignor.)
- Unitrol Condenser Corporation. (See Kent, Frank J., assignor.)
- Universal Battery Company. (See Mowry, Robert D., assignor.)
- Universal Broadcaster Mfg. Co. (See Bailey, James G., assignor.)
- Universal Button Fastening & Button Company. (See Clark, John M., assignor.)
- Universal Candy and Chocolate Machinery Company. (See Chase, Earle M., assignor.)
- Universal Candy and Chocolate Machinery Company. (See Segrin, O. E., and Clemens, assignors.)
- Universal Cooler Corporation. (See Thompson, Harry E., assignor.)
- Universal Crane Company, The. (See Deucher, Eugene G., assignor.)
- Universal Draft Gear Attachment Co. (See Bartsch, Herbert E., assignor.)
- Universal Draft Gear Attachment Co. (See Mitchell, William A., assignor.)
- Universal Draft Gear Attachment Co. (See Willson, Jack, assignor.)
- Universal Draft Gear Attachment Co. (See Wrigley, Henry L., assignor.)
- Universal Draft Gear Attachment Company, The. (See Camp, Percy B., assignor.)
- Universal Electric Stage Lighting Company. (See Linnebach, Adolph.)
- Universal Electric Welding Company. (See Lachman, Laurence S., assignor.)
- Universal Electric Welding Company. (See Lachman, Laurence S., and L., assignors.)
- Universal Draft Gear Attachment Co. (See Camp, P. B., and Wilson, assignors.)
- Universal Draft Gear Attachment Company. (See Camp, Percy B., assignor.)
- Universal Gypsum & Lime Co. (See Turner, John J., assignor.)
- Universal Gypsum & Lime Co. (See Tyler, Alva W., assignor.)
- Universal Harvester Company, The, et al. (See Ingham, Howard T., assignor.)
- Universal Indicator Corporation. (See Isenberg, H. O. C., and Pienary, assignors.)
- Universal Industrial Corporation. (See Feige, Adolf E., assignor.)
- Universal Jacks & Hoist Corporation. (See Hahn, Otto W., assignor.)
- Universal Jewelry Case Co. (See Flier, Leo, assignor.)
- Universal Lamp Company. (See Sherman, Jacob S., assignor.)
- Universal Leather Goods Co. (See Fingerma, Ira, assignor.)
- Universal Milking Machine Co. (See Beaty, Bruce F., assignor.)
- Universal Milking Machine Company. (See Bork, Otto J., assignor.)
- Universal Milking Machine Company, The. (See Schmitt, John A., assignor.)
- Universal Milking Machine Co., The. (See Shurts, Englebert, assignor.)
- Universal Oil Products Company. (See Dubbs, Carbon F., assignor.)
- Universal Oil Products Company. (See Egloff, Gustav, assignor.)
- Universal Oil Products Company. (See Egloff, G., and Alther, assignors.)
- Universal Oil Products Company. (See Egloff, G., and Beamer, assignors.)
- Universal Oil Products Company. (See Egloff, G., and Howard, assignors.)
- Universal Oil Products Company. (See Egloff, G., and Pollock, assignors.)
- Universal Oil Products Company. (See Halle, Hiram J., assignor.)
- Universal Oil Products Company. (See Howard, William R., assignor.)
- Universal Oil Products Company. (See Huff, Lyman C., assignor.)
- Universal Oil Products Company. (See Kirschbraun, L., and Pollock, assignors.)
- Universal Oil Products Company. (See Morrell, Jacques C., assignor.)
- Universal Oil Products Company. (See Morrell, J. C., and Comay, assignors.)
- Universal Oil Products Company. (See Morrell, J. C., and Egloff, assignors.)
- Universal Oil Products Company. (See Pollock, Robert T., assignor.)
- Universal Oil Products Company. (See Seguy, Jean D., assignor.)
- Universal Optical Corporation. (See Beatty, Earley, J. R., assignor.)
- Universal Optical Corporation. (See Nelson, John N., assignor.)
- Universal Optical Corporation. (See Searles, Wayne S., assignor.)
- Universal Postal Frankers Limited. (See Kinnard, Edward H., assignor.)
- Universal Rubber Paviers (Manchester 1923) Limited. (See Galsman, L., and Brown, assignors.)
- Universal Shock Eliminator, Inc. (See Shaw, Samuel H., assignor.)
- Universal Specialty Company. (See Mumaw, J. H., Schnieders, and Haas, assignors.)
- Universal Steel Company. (See German, Howard M., assignor.)
- Universal Tiller Corporation, The. (See Shields, Frank S., assignor.)
- Universal Tobacco Machine Company. (See Schussler, Walter H., assignor.)
- Universal Vener Products Company. (See Pointer, Henry V., assignor.)
- Universal Winding Company. (See Anderson, Johan A., assignor.)
- Universal Winding Company. (See Beckman, Gustaf S., assignor.)
- Universal Winding Company. (See Blair, Harry R., assignor.)
- Universal Winding Company. (See Lee, Harry P., assignor.)
- Universal Winding Company. (See Parks, E. F., Brink, and Taylor, assignors.)
- Universal Winding Company. (See Sands, Thomas J., assignor.)
- "Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co. (See Grapner, Paul L., assignor.)
- "Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co. (See Hohn, Max P. E., assignor.)
- "Universelle" Cigaretten-Maschinen-Fabrik J. C. Müller & Co. (See Muller Carl W., assignor.)
- "Universelle" Cigarettenmaschinenfabrik J. C. Müller & Co. (See Röber, Constantin F., assignor.)
- University of Tennessee. (See MacDonald, Margaret B., assignor.)
- Unke, Herman A., Cleveland, Ohio. Pipe-thread protector. 1,621,647; Mar. 22.
- Unke, Herman A., Cleveland, Ohio. Pipe-thread protector. 1,648,973; Nov. 15.
- Unkle, Charles W., Baltimore, Ohio. Apparatus for paper manufacture. 1,644,620; Oct. 4.
- Unné, Ernst, Harrogate, England. Massaging apparatus. 1,636,159; July 19.
- Unrath, Gotthilf, Pforzheim, Germany. Apparatus for washing refuse containing precious metal. 1,627,129; May 3.
- Unruh, Daniel F., assignor of one-half to E. Unruh, Goessel, Kans. Thrashing machine. 1,621,446; Mar. 15.
- Unruh, Ed. (See Unruh, Daniel F., assignor.)
- Untiedt, Frederick H., Washington, D. C. Preparing glycol. 1,641,710; Sept. 6.

- Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-back mechanism for loom let-offs. 1,616,477; Feb. 8.
- Unwin, Kenneth J., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Combined latch and weft detector for loom transferers. 1,621,044; Mar. 15.
- Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Balanced let-off for looms. 1,627,813; May 10.
- Unwin, Kenneth J., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multiple-needle detector for looms. 1,633,650; June 28.
- Unwin, Kenneth J., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weight-controlled detector for looms. 1,633,651; June 28.
- Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Laterally-movable detector in loom transferer. 1,639,869; Aug. 23.
- Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for regularly moving transferer arms. 1,651,107; Nov. 29.
- Unwin, Kenneth J., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Finger separating and leveling device for loom dobbies. 1,653,193; Dec. 20.
- Unwin, Kenneth J., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for looms. 1,654,104; Dec. 27.
- Unwin, Kenneth J., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Mounting for loom spindles. 1,654,226; Dec. 27.
- Unwin, Kenneth J., and W. H. Wakefield, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Tube frame for Axminster looms. 1,639,868; Aug. 23.
- Unwin, Kenneth J., Shrewsbury, and W. H. Wakefield, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Device to check needle motion of Axminster looms. 1,643,431; Sept. 27.
- Opdegraff, Alpha D., Valley Center, Kans. Frost-exterminating means for windshields. 1,628,814; May 17.
- Opdegrave, Clarence A., Lehighburg, and W. B. Shollenberger, Schuylkill Haven, assignors of twenty per cent to W. Boyer, Pottsville, Pa. Attachment for windshields. 1,647,943; Nov. 1.
- Opdegrove, Alice J., and W. B. Marsh, Brooklyn, N. Y. Bed rest. 1,619,685; Mar. 1.
- Upham, Donald, et al. (See Dixon, Abner F., assignor.)
- Upham, Franklin S., Des Moines, Iowa. Top. 1,629,326; May 17.
- Upham, Preston, Brookline, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Leaf-spring-lubricating device. 1,635,696; July 12.
- Upham, Preston, Brookline, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Oil cup. 1,644,210; Oct. 4.
- Uphoff, Leo P., and F. A. Sims, San Jose, Calif. Valve. 1,650,855; Nov. 29.
- Uphoff, Leslie S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,617,467; Feb. 15.
- Urjohn Company, The. (See Little, William F., assignor.)
- Urjohn, Hubert S., Los Angeles, Calif. Filling and shipping receptacle. 1,634,699; July 5.
- Uppercut, Inglis M. (See Williams, Thomas F., assignor.)
- Upprest Products Corporation. (See Snyder, Herbert T., assignor.)
- Upright, Charles H., Edmonton, Alberta, Canada. Gas burner. 1,624,292; Apr. 12.
- Upton, Maxwell, and Ernest J. Upton, N. J. Apparatus for making concrete piles. 1,640,101; Aug. 23.
- Upton, Ralph H., Brooklyn, N. Y. Dirigible. 1,648,630; Nov. 8.
- Urbach, Gustave A., Pittsburgh, Pa. Spraying machine. 1,654,059; Dec. 27.
- Urbahms, Allen G., assignor to McGill Manufacturing Company, Valparaiso, Ind. 1,644,459; May 15.
- Urban, Bruno, sr., Ludwigshafen-on-the-Rhine, Germany. House construction of tubes or tubular members. 1,622,071; Mar. 22.
- Urban, Franz, Berlin-Steglitz, assignor to the Firm of Optische Anstalt, P. Goetz Aktiengesellschaft, Friedmann, near Berlin, Germany. Spherically, chromatically, and astigmatically corrected three-lens cemented objective. 1,641,402; Sept. 6.
- Urban, George, Jr., Cheektowaga, N. Y. Carton. 1,620,789; Mar. 15.
- Urban, Ladislavs, Roselle Park, N. J. Phone pillar. 1,648,832; Nov. 8.
- Urch, Raymond G., Allegan, Mich. Universal joint. 1,627,940; May 10.
- Ure, Colin M., Bishoptonbriggs, Glasgow, Scotland. Manufacture, centrifugally, of pipes, columns, and the like. 1,622,012; Mar. 22.
- Urie, David A., Chicago, Ill. Machine for attaching color chips to cards. 1,644,044; Oct. 4.
- Urner, Frank A., et al. (See Mason, Frank B., assignor.)
- Uravsky, Natan, New York, N. Y. Portable theftproof box. 1,643,189; Sept. 20.
- Urquhart, Ubert. (See La Jole, H. J., and Urquhart.)
- Urquhart, Ubert, assignor to The Auto Pneumatic Action Company, New York, N. Y. Tension-controlling mechanism for musical instruments. 1,653,935; Dec. 27.
- Urquhart, William R., Los Angeles, Calif. C. W. Post, Chicago, Ill. D. B. Humphrey, Cuyaboga Falls, and C. C. Van Arsdale, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Treating rubber articles. 1,631,948; June 7.
- Uruba, Frank C., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,618,317; Feb. 22.
- Ursubeck, Frank C., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter word register. 1,646,799; Oct. 25.
- Urschel, Bertis H., Bowling Green, Ohio. Broaching machine. 1,627,755; May 10.
- Urschel, Bertis H., Bowling Green, Ohio. Connector sleeve for telescoping shafts. 1,644,800; Oct. 11.
- Urschel, William E., Valparaiso, Ind. Building form. 1,636,396; July 19.
- Urschel, William E., Valparaiso, Ind., assignor to Eskimo Pie Corporation, Louisville, Ky. Automatic ice-cream cutting and coating machine. 1,645,935; Oct. 18.
- Urso, Frank, New York, N. Y. Combined crib and baby walking device. 1,642,184; Sept. 13.
- Urwin, Norman W., Annfield Plain, England. Protector for boots and shoes. 1,620,413; Mar. 8.
- Usener, Hans, Kiel, Germany. Armature for distant control indicators for continuous and alternating current. 1,630,503; May 31.
- Usher, John J., assignor to St. Helens Iron & Marine Works, St. Helens, Oreg. Cable clamp. 1,653,747; Dec. 27.
- Usigli, Bruno, assignor to the Firm Instrumenti di Misura C. G. S. Società Anonima, Milan, Italy. Electrical measuring instrument of the type employing a control motor. 1,630,989; May 31.
- Usnik, John, Los Angeles, Calif. Photo-printing cabinet. 1,620,927; Mar. 15.
- Usnecht, John, New York, N. Y. Display device. 1,619,095; Mar. 1.
- Utensils Company. (See Brown, Thomas N., assignor.)
- Utility Manufacturing Co. (See Hutchens, Edward, assignor.)
- Utenthal, Folmer S., Buffalo, assignor to K. Utenthal, New York, and T. Nielsen, Buffalo, N. Y. Soldering iron. 1,614,090; Jan. 11.
- Utenthal, Karen, et al. (See Utenthal, Folmer S., assignor.)
- Utter, Eben B., assignor to Root Spring Scraper Company, Kalamazoo, Mich. Spring and manufacturing the same. 1,621,095; Mar. 15.
- Utterbaugh, Walter H., Washington, D. C. Locomotive driving box. 1,620,584; Mar. 8.
- Utz, William A., sr., Fort Worth, Tex., assignor, by mesne assignments, to Perfection Package Sealer Company. Gunned-tape-serving machine. Re16,774; Oct. 18.
- Utz, William A., sr., Fort Worth, Tex., assignor, by mesne assignments, to Perfection Package Sealer Company. Gunned-tape-serving machine. 1,633,144; June 21.
- Utz, John G., Detroit, Mich. Motor-vehicle construction. 1,641,242; Sept. 6.
- Utz, John G., Detroit, Mich., assignor to The Warford Corporation, New York, N. Y. Housing support for motor vehicles. 1,613,683; Jan. 11.
- Utz, Louis F., assignor to The Freiberg-Simral Company, Birmingham, Ohio. Sterilizing and washing machine. 1,624,026; Apr. 12.
- Utzler, Elmer W., Corliss Station, Pa. Nut lock. 1,644,554; Oct. 4.
- Utzman, Clarence W., assignor to United States Gypsum Company, Chicago, Ill. Bound-edge plaster wall board. 1,631,108; May 31.
- Utzman, Clarence W., Buffalo, N. Y., assignor, by mesne assignments, to United States Gypsum Company. Fabricated board. 1,638,280; Aug. 9.
- Uzmann, George J., Bloomfield, N. J. Textile comb and making the same. 1,654,105; Dec. 27.
- Uvalde Rock Asphalt Company. (See Frazier, John W., assignor.)
- Uytjens, Hendricus F. H., Spaubeek, Netherlands. Change-speed gear for rotation in two directions and with direct coupling, neutral position, and brake. 1,642,346; Sept. 13.
- V. Asten, Eduard, Eupen, Belgium. Asbestos drier felt. 1,638,721; Aug. 9.
- V. Briesen, Fritz, trustee. (See Terwilliger, Charles O., assignor.)
- V. L. Oil Processes Limited. (See Lucas, O. D., and Lomax, assignors.)
- Vacuum Oil Company. (See Atwood, E. H., Wanner, Kiehle, and Wright, assignors.)
- Vacuum Oil Company. (See Martin, Charles E., assignor.)
- Vacuum Oil Company. (See Snow, Edward J., assignor.)
- Vacuum Pulp Products Corporation. (See Louisset, Felix, assignor.)
- Vacuum Refrigerating Company. (See Batterman, John J., assignor.)

- Vadersen, Herbert, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Variable coupler. 1,616,643; Feb. 8.
- Vadersen, Herbert, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Adjustable coil. 1,647,259; Nov. 1.
- Vaile-Kimes Company, The. (See Masters, John H., assignor.)
- Vaisey, Harold C., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 73,720; Oct. 25.
- Vaisey, Harold C., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 73,721; Oct. 25.
- Vaisey, Harold C., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 73,722; Oct. 25.
- Vaitulis, Charles, Detroit, Mich. Toothbrush holder. 1,633,834; June 28.
- Valberg, Gustaf E., Stockholm, Sweden. Nut-locking washer. 1,612,955; Jan. 4.
- Valcourt, Louis E., Pawtucket, assignor to Louis Stern Company, Providence, R. I. Bracelet hook. 1,625,063; Apr. 19.
- Valdes, Salustio, Westminster, London, England. Jet-propulsion apparatus for the driving of vehicles, ships, boats, flying machines, and the like. 1,629,767; Feb. 24.
- Valentine, Charles W., assignor to The Bagley and Sewall Company, Watertown, N. Y. Paper-making machine. 1,619,168; Mar. 1.
- Valentine, Charles W., assignor to The Bagley and Sewall Company, Watertown, N. Y. Apron board for paper-making machine. 1,635,772; July 12.
- Valentine, Irving R., Erie, Pa., assignor to General Electric Company. Electric furnace. 1,628,876; May 10.
- Valentine, Irving R., Erie, Pa., assignor to General Electric Company. Treating iron. 1,648,750; Nov. 8.
- Valentine, L. L. (See Richards, Pierce F., assignor.)
- Valentine, Richard D., Tulsa, Okla. Safety try cock. 1,636,397; July 19.
- Valentine, Robert D., assignor, by mesne assignments, to National Pole & Treating Company, Minneapolis, Minn. Pole-puncturing machine. 1,621,963; Mar. 22.
- Valenti, Aldo, Milan, Italy. Air-core tire. 1,646,800; Oct. 25.
- Valeri, Olindo, Settignano, Florence, Italy. Substructure for railways and the like. 1,616,011; Feb. 1.
- Valerius, Johann, Breslau, Germany. Push-button switch. 1,629,896; May 24.
- Valerius, Johann, L. and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Ice-cream-cutting machine. 1,647,884; Nov. 1.
- Valero, Joaquin S., Barcelona, Spain. Safety device for smokers. 1,647,322; Nov. 1.
- Valer, Earnest C. H., Mexico City, Mex. Extracting the pure cellulose from the bagasse of sugar cane. 1,630,147; May 24.
- Valiquette, Joseph H., Springfield, Mass. Electric heater for fluids. 1,635,591; July 12.
- Valiquette, William L., and C. Seybold, assignors to The Seybold Machine Company, Dayton, Ohio. Paper cutter. 1,612,956; Jan. 4.
- Valjean, Ben, assignor to Valjean Carburetor Company, San Diego, Calif. Combustion. 1,639,202; Aug. 16.
- Valjean Carburetor Company. (See Valjean, Ben, assignor.)
- Vallat, André, Paris, France, assignor to M. S. Lesser, Los Angeles, Calif. Booth game. 1,640,259; Aug. 23.
- Vallat, André, Paris, France, assignor to M. S. Lesser, Los Angeles, Calif. Cabin for light-producing devices. 1,652,590; Dec. 13.
- Vallen, Earl, Akron, Ohio. Curtain-supporting device. 1,615,856; Feb. 1.
- Vallens, Eugene, New York, N. Y. Breaker and stopper extractor. 1,615,150; Jan. 18.
- Vallentin, Alfred, Chicago, Ill. Silo. 1,617,555; Feb. 15.
- Valley Electric Company. (See Bullivant, Francis J., as assignor.)
- Valley Iron Works. (See Smitham, James A., assignor.)
- Valley Mould & Iron Corporation. (See Perry, John E., assignor.)
- Valley Mould and Iron Corporation. (See Ramage, William H., assignor.)
- Vallier, Eliza G., assignor to Western States Envelope Co., Milwaukee, Wis. Attachment for envelope blanker printing machines. 1,613,918; Jan. 11.
- Vallier, Orvis W., assignor to J. B. Wise Incorporated, Watertown, N. Y. Shut-off for sink faucets. 1,612,844; Jan. 4.
- Vallier, Orvis W., assignor to J. B. Wise Incorporated, Watertown, N. Y. Mixing and distributing mechanism. 1,615,730; Jan. 25.
- Vallier, Orvis W., assignor to J. B. Wise Incorporated, Watertown, N. Y. Flow regulator for faucets. 1,625,921; Apr. 26.
- Valliere, John L., Skowhegan, Me. Freight hook. 1,640,102; Aug. 23.
- Vallin, Hans W., Dallas, Tex. Support or holder for soldering irons. 1,610,721; Feb. 8.
- Valpey, Arthur L., Hion, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,616,520; Feb. 8.
- Valsvig, Martin J., assignor of one-half to J. Lee, Spokane, Wash. Closure fastener. 1,639,870; Aug. 23.
- Valve Bag Company of America, The. (See Hartman, Louis H., assignor.)
- Vana, Rudolph, Brownsville, Tex. Musical instrument. 1,653,241; Dec. 20.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,613,068; Jan. 4.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Discharge-pipe apparatus. 1,616,561; Feb. 15.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,633,911; June 28.
- Van Allen, William, Brooklyn, N. Y. Street-lighting system. 1,640,045; Oct. 18.
- Van Allen, Charles, assignor of one-half to B. Ward, Williston, N. Dak. Auto signal. 1,649,936; Nov. 22.
- Van Allen, George L. (See Colby, E. A., Maculen, and Van Allen.)
- Van Allen, John W., et al., executors. (See Cummer, Harry.)
- Van Alstine, Albert R., Clearwater, Fla. Four-wheeled scraper. 1,629,242; May 17.
- Van Alstyne, H. Malcolm, and W. Bell, Rensselaer, N. Y. Yarn-dyeing machine. 1,651,167; Nov. 29.
- Van Amberg, Otto H., Schenectady, N. Y., assignor to General Electric Company. Lighting fixture. 1,641,433; Jan. 11.
- Van Amburg, Otto H., Bridgeport, Conn., assignor to General Electric Company. Fuse plug. 1,623,819; Apr. 5.
- Van Arkel, Anton E., and J. H. De Boer, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Process for dissolving a mixture of hafnium and zirconium phosphates and for separating hafnium and zirconium. 1,618,494; Feb. 22.
- Van Arkel, Anton E., and J. H. De Boer, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Dissolving a mixture of hafnium and zirconium phosphates and for separating hafnium and zirconium. 1,636,493; July 19.
- Van Arsdale, Clarence C. (See Urquhart, W. R., Post Humphrey, and Van Arsdale.)
- Van Arsdale, William, Auburn, N. Y. Combined plow and aridator. 1,643,567; Sept. 27.
- Van Auald, James H., and J. T. Blackburn, Vinita, Okla. Governor. 1,633,505; June 21.
- Van Bergen, John S., Ravinia, Ill., Casement sash fastener. 1,653,523; Dec. 20.
- Van Berkel, Wilhelmus A., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,630,099; May 24.
- Van Berschoot, Stewart V., Chicago, Ill. Window ventilator. 1,622,854; Mar. 29.
- Van Blarcom, Francis. (See Stevenson, Thomas K., assignor.)
- Van Bonnel, Pierre, Antwerp, Belgium. Shock-absorbing socket for electric filament lamps. 1,626,108; Apr. 26.
- Van Brunt, John, Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Ash gate. 1,636,398; July 19.
- Van Brunt Manufacturing Company. (See Van Brunt, Willard A., assignor.)
- Van Brunt Manufacturing Company, The. (See Van Brunt, Willard A., assignor.)
- Van Brunt, Willard A., Los Angeles, Calif., assignor to Van Brunt Manufacturing Company, Horicon, Wis. Seed-dispensing mechanism. 1,639,317; Aug. 16.
- Van Brunt, Willard A., Los Angeles, Calif., assignor to The Van Brunt Manufacturing Company, Horicon, Wis. Machine for sowing fertilizers. 1,650,808; Nov. 29.
- Van Buren, Elmer M., Bronxville, N. Y. Traffic light. 1,646,653; July 19.
- Van Camp, Edward. (See Pfeifer, F. M., and Van Camp.)
- Vance, Arthur C., Brooklyn, N. Y. Fishing reel. 1,619,448; Mar. 1.
- Vance, Arthur J., assignor to The Coe Manufacturing Company, Painesville, Ohio. Drier for sheet material. 1,636,150; June 14.
- Vance Engineering Company. (See Buckman, H. W., and Prentice, assignors.)
- Vance, George E., Springfield, Ohio. Ring-wheel grinder and making same. 1,642,096; Sept. 13.
- Vance, Hazen C., Boise City, Idaho. Hay pilier. 1,647,064; Aug. 15.
- Vance, Howard C., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Safety device for rivet joining machines. 1,643,795; Sept. 27.
- Vance, Morton L. (See Heyer, T. A., and Vance.)
- Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Fender rack. 1,620,841; Mar. 15.
- Van Cleave, Charles N. (See Gayle, Norman W., assignor.)
- Van Cleave, Edwin E. (See Benz, C. A., and Van Cleave.)
- Van Coeverden, Marshall H. (See Mann, John J. and W. J., and Van Coeverden.)
- Van Daam, Gerrit, Buffalo, N. Y. Automobile wheel. 1,623,645; Apr. 5.
- Van Daam, Gerrit, Buffalo, N. Y. Supplying heated air to combustion chambers. 1,639,014; Aug. 16.
- Van Degrift, Thomas C. (See Lee, C. L., and Van Degrift.)

- Vandenbergh, Charles, assignor of 15 per cent to R. L. Kelly, New York, N. Y. Latch for electric water heaters. 1,646,226; Oct. 18.
- Van den Heuvel, Abraham Van L., Zwolle, Netherlands. Weighing screw jack for determining the wheel pressure of vehicles. 1,621,911; Mar. 22.
- Van Derbeck, Stephen G., Hackensack, N. J., and J. Bortolin, assignors of one-third to W. R. Blackwell, deceased, Brooklyn, N. Y.; F. Lampe, executor. Aerial illuminating device. 1,633,540; June 21.
- Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. Space discharge system. 1,613,626; Jan. 11.
- Vanderbilt, R. T., Co. (See Murrill, Paul I., assignor.)
- Vanderbilt, R. T., Company. (See Somerville, Albert A., assignor.)
- Van der Does de Bije, Anne J. M. A. R., The Hague, Netherlands. Furnace. 1,625,954; Apr. 26.
- Van Deren, James B., Hennessey, Okla. Automatic weighing device. 1,618,684; Jan. 11.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,293; Mar. 22.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,294; Mar. 22.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,295; Mar. 22.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,296; Mar. 22.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,297; Mar. 22.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,298; Mar. 22.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,299; Mar. 22.
- Vandergaw, Edward B., Brooklyn, and J. Heinrich, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 72,300; Mar. 22.
- Vandergriff, Frank C., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Rotary pipe joint. 1,638,224; Aug. 9.
- Van Derhoef, Henry E., assignor to Eastman Kodak Company, Rochester, N. Y. Process and apparatus for uniting strips of material. 1,641,403; Sept. 6.
- Van Derhoef, Henry E., assignor to Eastman Kodak Company, Rochester, N. Y. Handling strips of sheet material. 1,651,744; Dec. 6.
- Van der Kamp, Martin C., San Jose, Calif. Finishing metal walls. 1,637,793; Aug. 2.
- Vanderlamm, Albert, Lerchmont, N. Y. Perpetuating human remains and article made thereby. 1,640,680; Aug. 30.
- Van der Lande, Johannes A. L., Devanter, Netherlands, assignor, by mesne assignments, to Novadel Process Corporation, Buffalo, N. Y. Stable peroxidized composition and making same. 1,631,903; June 7.
- Vanderlip, Louis C., Elkhart, Ind. Flush-tank mechanism. 1,616,560; Feb. 8.
- Vanderlip, Louis C., Elkhart, Ind. Hood latch. 1,620,414; Mar. 8.
- Vanderlip, Louis C., Elkhart, Ind. Automobile hood clamp. 1,644,492; Oct. 11.
- Vanderlipp, Nathan F., Birmfield, N. J., assignor to Wright Aeronautical Corporation. Fastener. 1,642,278; Sept. 13.
- Van der Pyl, Edward, assignor to Norton Company, Worcester, Mass. Safety-tread unit. 1,619,773; Mar. 1.
- Vanderstien, Ewald, Duiken, Germany. Furnace with blast heat. 1,649,201; Nov. 15.
- Vanderveer, David B., assignor of one-half to C. W. Link, Los Angeles, Calif. Adjustable wind and storm shield for vehicles. Re16,557; Feb. 22.
- Vanderveld, Anthony, Grand Rapids, Mich. Yard indicator for measuring machines. 1,617,881; Feb. 15.
- Vanderveld, Anthony, Grand Rapids, Mich. Shutter for computing machines. 1,638,514; Aug. 9.
- Vandervoort, Francis M. (See Crooks, C. L., and Vandervoort.)
- Vandervoort, Francis M., assignor to The Positive Lock Company, Pueblo, Colo. Latch and keeper means. 1,634,634; July 5.
- Vandervoort, Francis M., assignor to The Positive Lock Company, Pueblo, Colo. Latch. 1,634,636; July 5.
- Vandervoort, Francis M., assignor to The Positive Lock Company, Pueblo, Colo. Latch. 1,634,637; July 5.
- Vanderwehe Limited. (See Czorkowski, John, assignor.)
- Van der Werf, Auke H., assignor to N. V. Maatschappij, Ago, Ter Apel, Netherlands. Treating wood. 1,644,801; Oct. 11.
- Vanderwerp, Henry. (See Minogue, Roland E., assignor.)
- Van der Woude, Derk, Groningen, Netherlands. Central heating installation. 1,640,629; Aug. 30.
- Van Derwyk, John D., assignor to T. A. Wells, Los Angeles, Calif. Vehicle brake. 1,621,912; Mar. 22.
- Van Deussen, Henry M., Westfield, Mass. Mop. 1,624,641; Apr. 12.
- Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Condenser. 1,619,223; Mar. 1.
- Van Deventer, Harry R., assignor to Radio Patents Corporation, New York, N. Y. Telephone attachment for phonographs and the like. 1,619,384; Mar. 1.
- Van Deventer, Horace, Knoxville, Tenn. Fuel-feeding system for internal-combustion engines. 1,645,836; Oct. 18.
- Van der Water, John W., Hastings-on-the-Hudson, and B. R. Blair, Jackson Heights, assignors to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,632,048; June 14.
- Van Diest, Edmond C., and F. Gilpin, Colorado Springs, Colo. System of lightning protection. 1,617,691; Feb. 15.
- Van Diest, William, Minneapolis, Minn. Display plique and making. 1,620,046; Mar. 8.
- Van Diggelen, Johannes C. M., assignor to Naamloze Vennootschap: Octrooi Maatschappij "Vede", Amsterdam, Netherlands. Manufacture of a textile material from vegetable raw material. 1,633,133; Dec. 20.
- Van Dijk, Louis H. G., The Hague, Netherlands. Hair waving or curling device. 1,638,896; Aug. 16.
- Van Doorn Company, The. (See Van Doorn, F. E., and Feld, assignors.)
- Van Doorn, Frank E., and E. W. Feld, assignors to The Van Doorn Company, Quincy, Ill. Elevator car. 1,616,095; Feb. 1.
- Van Doorn, Frank E., and E. W. Feld, assignors to The Van Doorn Company, Quincy, Ill. Elevator car. 1,616,098; Feb. 1.
- Van Dorn Electric Tool Company, The. (See Connell, Edwin L., assignor.)
- Van Dorn Electric Tool Company, The. (See Schneider, Franklin, assignor.)
- Van Dorn, Herbert E., Chicago, Ill. Switch and valve control in air and electric coupling systems for cars. 1,621,292; Mar. 15.
- Van Dorn, Herbert E., Chicago, Ill. Draft gear. 1,650,670; Nov. 29.
- Van Dorn Iron Works Company, The. (See Barker, Percy E., assignor.)
- Van Dorn Iron Works Company, The. (See Pennington, Gordon R., assignor.)
- Van Dorn, William E., Chicago, Ill. Metal wall for railroad cars and the like. 1,621,293; Mar. 15.
- Van Duzer, Joseph, Firthcliffe, N. Y. Clothes-hanging apparatus. 1,641,106; Aug. 30.
- Van Dyck, Arthur F., Rye, N. Y., assignor to Radio Corporation of America. Electrical system and signaling method. 1,632,155; Dec. 6.
- Van Dyck, John, Middelburg, Netherlands. Open-end wrench of the adjustable-jaw type. 1,643,633; Sept. 27.
- Vanek, John S., Oklahoma City, Okla. Short-barreled pen and pencil holder for second finger. 1,652,072; Dec. 6.
- Van Emon, Burton C., San Francisco, assignor to J. M. Koford, trustee, Oakland, Calif. Elevator. 1,615,318; Jan. 25.
- Van Emon, Burton C., San Francisco, assignor to J. M. Koford, trustee, Oakland, Calif. Elevator. 1,620,305; Mar. 8.
- Van Ess Laboratories, Inc. (See Goodall, Fred E., assignor.)
- Van Essen, Pieter D., The Hague, Netherlands, and C. H. Froelich, Bethlehem, Pa. Breech mechanism. 1,628,651; May 3.
- Van Etten, William V., Everett, Wash. Dirigible headlight. 1,639,119; Aug. 16.
- Van Eweyk, William F., assignor to Milwaukee Brass Manufacturing Company, Milwaukee, Wis. Faucet. Des. 72,505; Apr. 19.
- Van Gale, Alfred, Newark, N. J. Combination divider. 1,630,773; May 31.
- Van Gale, Louis, Astoria, N. Y. Automobile signal device. 1,623,450; Apr. 5.
- Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Solenoid-operated fuel-feeding device. 1,653,885; Dec. 27.
- Van Hamersveld, John J. N. (See Burrell, E. P., and Van Hamersveld.)
- Van Hamersveld, John J. N., Cleveland Heights, assignor, by mesne assignments, to The Rotor Air Tool Company, Cleveland, Ohio. Gearing-reduction fuel-pressure motor. 1,653,750; Dec. 27.
- Van Hamersveld, John J. N., and H. L. Cook, Cleveland Heights, assignors, by mesne assignments, to The Rotor Air Tool Company, Cleveland, Ohio. Rotary-motor tool. 1,653,748; Dec. 27.
- Van Hecke, Charles E., Stevens Point, Wis. Manhole frame, cover, and hydrant-holding assemblage. 1,641,512; Sept. 6.
- Van Heusen, John M., New York, N. Y. Fastener. 1,638,073; Aug. 9.
- Van Heusen, John M., Boston, Mass. Shoulder strap. 1,636,916; Nov. 29.
- Van Heusen Products, Inc. (See Bacon, R. F., and Kidwell, assignors.)

- Van Haffen, William A., Brooklyn, N. Y., assignor to Irving Iron Works Company. Continuous grating structure. 1,629,134; May 17.
- Van Hoofstadt, Edward. (See Greenbaum, L. and Van Hoofstadt.)
- Vanhoren, Jules J. (See Appelian, H. G., and Van Horen.)
- Van Horne, John S., Franklin, Ohio. Exhausting electrical bulbs. 1,644,002; Oct. 4.
- Van Houten, Erskine B., South Nyack, N. Y. Beverage mixer. Des. 72,119; Mar. 1.
- Van Houten, Frances R., Detroit, Mich. Tie straightener. 1,627,999; Aug. 2.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Dough molder. 1,631,992; June 14.
- Van Hove, Desire H., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. 1,632,936; June 21.
- Van Huffel, Isadore J., Warren, Ohio. Electric pipe-welding method and apparatus. 1,648,921; Nov. 15.
- Van Husen, Norman. (See Jandus, H. S., and Van Husen.)
- Vanier, James S. (See Merica, P. D. and Vanick.)
- Vanier, Francis N., Indianapolis, Ind. Convertible vehicle body. 1,648,205; Nov. 8.
- Van Koolbergen, John J., Ridgely Park, N. J. Vehicle check. 1,653,420; Dec. 20.
- Van Leir, Henry W., Philadelphia, Pa. Insulating flexible shaft coupling. 1,639,340; Aug. 1.
- Van Leunen, Edgar, Long Beach, Calif. Can-top remover. 1,628,080; May 10.
- Van Leunen, Harry D. (See Shippey, R. H., and Van Leunen.)
- Van Meter, James W., San Antonio, Tex., assignor to B. A. Singer, Washington, D. C. Composition of matter and producing the same. 1,654,025; Dec. 27.
- Vann, David D., St. Thomas, Ontario, Canada. Pivot joint. 1,647,821; Nov. 1.
- Van Ness, Henry E., Elmira, N. Y. Yarn cleaner. 1,625,692; Apr. 19.
- Van Ness, Henry E., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Stop-motion device for spinning frames. 1,636,945; July 26.
- Van Ness, William E. (See Brady, H. T., Benway, and Van Ness.)
- Van Niekerken, Jan M. (See Riley, L. G., Meyer, Johnston, and Van Niekerken.)
- Van Norman, Frederick L. and G. W. Fleming, assignors to Van Norman Machine Tool Company, Springfield, Mass. Grinding machine. 1,646,801; Oct. 25.
- Van Norman Machine Tool Company. (See Van Norman, F. D., and Fleming, assignors.)
- Van Nortwick, John, Batavia, Ill., assignor to Appleton Manufacturing Company. Corn-harvesting machine. 1,651,422; Dec. 6.
- Van Nostrand, Arleigh N., Flushing, assignor to Telatograph Corporation, New York, N. Y. Telatograph system. 1,623,220; Apr. 5.
- Van Nostrand, Arleigh N., Flushing, N. Y., assignor to Telatograph Corporation, Richmond, Va. Telatograph apparatus. 1,625,342; Apr. 19.
- Van Nostrand, Arleigh N., Flushing, N. Y., assignor to Telatograph Corporation, New York, N. Y. Paper-winding mechanism. 1,625,343; Apr. 19.
- Van Nostrand, Arleigh N., Flushing, assignor to Telatograph Corporation, New York, N. Y. Field-magnet mechanism for telatograph receivers. 1,640,384; Aug. 30.
- Van Nuys, Claude C., Cranford, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Apparatus for separating the constituents of gaseous mixtures. 1,619,169; Mar. 1.
- Van Nuys, Harry V., Chicago, Ill. Exhibitor. 1,638,464; Aug. 9.
- Van Orman, Wart T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Leak-proof-tank cover. 1,620,415; Mar. 8.
- Van Orstrand, Charles E., Washington, D. C. Apparatus for measuring depths of wells. 1,639,973; Aug. 23.
- Van Patton, John E., assignor to Reznor Manufacturing Company, Mercer, Pa. Belt shifter and safety guard for cone pulleys. 1,650,403; Nov. 22.
- Van Pelt, Jesse L., Pullman, Wash. Vacuum feed system. 1,621,817; Mar. 22.
- Van Raaite, Diederik L. H., Vlissingen, Netherlands. Valve for making connection between underground main piping and underground branch piping. 1,631,564; June 7.
- Van Ranst, Cornelius W., Detroit, Mich. Balancing pistons. 1,628,445; May 17.
- Van Ranst, Cornelius W., Detroit, Mich. Lubricating means for motor-car pistons. 1,636,021; July 19.
- Van Ranst, Cornelius W., Detroit, Mich. Timing gear for internal-combustion engines. 1,649,426; Nov. 15.
- Van Rennes, Cornelius, assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,621,914; Mar. 22.
- Van Rensselaer, Jere J., Council Bluffs, Iowa. Electric hand lantern. 1,620,842; Mar. 15.
- Van Rijswijk, Willem, Ennebaden, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Compressor apparatus. 1,652,747; Dec. 13.
- Van Riper, Lewis O., Seattle, Wash. Automatic tire gauge. 1,622,688; Mar. 29.
- Van Roo, Elizabeth F., executrix. (See Bethune, J., and Van Roo.)
- Van Roo, Jacob G. (See Bethune, J., and Van Roo.)
- Van Sant, Robert H., Chicago, Ill., assignor, by means assignments, to Gold Dust Corporation, New York, N. Y. Applicator cap. 1,621,567; Mar. 22.
- Van Sant, Robert H., Chicago, Ill., assignor, by means assignments, to Gold Dust Corporation, New York, N. Y. Glass-cleaning applicator. 1,625,174; Apr. 19.
- Van Saun, Peter E., Los Angeles, Calif. Automatic disconnecting device for rock crushers. 1,645,672; Oct. 18.
- Van Schack, Robert H., Jr., Evanston, Ill. Ester of butyl alcohol. 1,613,366; Jan. 4.
- Van Schack, Robert H., Jr., Evanston, Ill. Esters of normal-amyl alcohol. 1,646,128; Oct. 18.
- Van Scoyoc, Guy, Salt Lake City, Utah, and H. L. Wehrbein, Indianapolis, Ind. Calcium-sugar preparation and treatment. 1,649,269; Nov. 15.
- Van Scoyoc, Guy, Salt Lake City, Utah, H. L. Wehrbein and H. A. Shonle; said Shonle assignor to Ell Lilly and Company, Indianapolis, Ind. Calcium-sugar preparation. 1,649,270; Nov. 15.
- Van Sickle, Della L., Cranford, and W. H. Cavin, Elizabeth, N. J. Barrette. 1,624,449; Apr. 12.
- Van Sickle, Frank B. (See Brown, C. A., and Van Sickle.)
- Van Sickle, Paul A. (See Verity, W. J., and Van Sickle.)
- Van Sieden, Henry W., Hollis, assignor to Burns Dental Casting Machine Company, New York, N. Y. Dental casting machine. 1,616,601; Feb. 8.
- Van Sise, Andrew J. (See Ward, R., and Van Sise.)
- Van Tassel, Arthur R. (See Ogden, R. E., Tomkinson, and Van Tassel.)
- Van Tassel, Charles, Los Angeles, Calif. Shoe attachment. 1,640,302; Aug. 22.
- Van Tassel, John R., assignor, by means assignments, to The Standard Optical Company Geneva, N. Y. Lens-frame measuring and expanding device. 1,615,601; Jan. 25.
- Van Tassel, William, Redwood, N. Y. Horseshoe. 1,632,748; Mar. 29.
- Vantine, A. A., and C. C. (See Poses, Jack I., assignor.)
- Van Toft, Ernest, Chicago, Ill. Fan and fan blower. 1,614,091; Jan. 11.
- Van Toft, Ernest, Chicago, Ill. Air-cooled engine. 1,632,207; June 14.
- Van Valkenberg, Eber H., McKeesport, Pa., assignor of one-half to O. Silverstein, Spokane, Wash. Engine mounting for aeroplanes. 1,641,711; Sept. 6.
- Van Valkenberg, Eber H., McKeesport, Pa., assignor of one-half to O. Silverstein, Spokane, Wash. Rear alighting gear. 1,649,040; Nov. 15.
- Van Valkenburg, Earl C., Hylkoke, Mass. Collapsible-tube closure. 1,621,294; Mar. 15.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Sectional cabinet for electrical apparatus. 1,620,047; Mar. 8.
- Van Valkenburg, Wallace L. (See Halket, W., and Van Valkenburg.)
- Van Valkenburgh, Richard M. (See Redies, E. F., and Van Valkenburgh.)
- Van Valkenburgh, Richard M., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf holder. 1,632,459; June 14.
- Van Valkenburgh, Richard M., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder. 1,641,711; Sept. 6.
- Van Valkenburgh, Richard M., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder. 1,646,669; Oct. 25.
- Van Veen, Anton, assignor to The Fuller Brush Company, Hartford, Conn. Winding machine. 1,638,074; Aug. 9.
- Van Veen, Anton, New Britain, assignor to The Fuller Brush Company, Hartford, Conn. Wire-bending machine. 1,650,242; Nov. 22.
- Van Veen, Anton, Hartford, and G. F. Matteson, Rocky Hill, assignors to The Fuller Brush Company, Hartford, Conn. Heat-branding machine. 1,630,282; May 31.
- Van Voorhis, Cletus C., East Orange, N. J., assignor to Westinghouse Lamp Company. Electrical device. 1,645,506; Jan. 18.
- Van Voorhis, Cletus C., Princeton, N. J., assignor to Westinghouse Lamp Company. Introducing volatile matter into lamps and the like. 1,623,323; Apr. 5.
- Van Voorhis, Cletus C., Princeton, N. J., assignor to Westinghouse Lamp Company. Gaseous-discharge lamp. 1,647,691; Nov. 1.
- Van Voorhis, Cletus C., Wilkinsburg, Pa., assignor to Westinghouse Lamp Company. Ground electrode. 1,651,423; Dec. 6.
- Van Vulpen, John. (See Parks, P. B., and Van Vulpen.)
- Van Wagoner, Donald S., Brooklyn, N. Y., assignor, by means assignments, of one-half to B. F. Watkins, Philadelphia, Pa. Grate structure. 1,617,186; Feb. 8.
- Van Way, Fred, Covina, Calif. Automatic railway-crossing signal. 1,648,288; Nov. 8.
- Van Weyenberg, Emilie. (See Glover, W. H., and Van Weyenberg.)
- Van Wile, Elmer E., Long Beach, Calif. Building construction. 1,637,430; Aug. 2.
- Van Wormer, John R., Toledo, Ohio. Diagonal-bottom-section knockdown box. 1,652,844; Dec. 13.
- Van Yahres, George, Westbury, N. Y. Filling tree cavities and the filling itself. 1,624,820; Apr. 12.

- Van Zandt, Hubert, Hinsdale, and B. Eymann, Winnetka, Ill. Washing device. 1,636,022; July 19.
- Vapor Car Heating Company. (See Clegg, William H., assignor.)
- Vapor Car Heating Company. (See Frumveller, Joseph, assignor.)
- Vapor Car Heating Company. (See Gillick, Lawrence H., assignor.)
- Vapor Car Heating Company. (See Gold, E. H., and Russell, assignors.)
- Vapor Car Heating Company. (See Parks, Paul B., assignor.)
- Vapor Car Heating Company, Inc. (See Parks, P. B., and Van Vulpert, assignors.)
- Vapor Car Heating Company. (See Russell, Edward A., assignor.)
- Vapor Car Heating Company. (See Russell, E. A., and Parks, assignors.)
- Vaporator Mfg. Co. (See Meikle, John, assignor.)
- Varaud, André, Geneva, Switzerland. Clockwork for mechanical fuses for artillery projectiles. Re16,703; Aug. 16.
- Varaud, André, Geneva, Switzerland. Apparatus for timing clockwork-operated mechanical fuses for artillery projectiles. 1,615,602; Jan. 25.
- Varaud, André, Geneva, Switzerland. Mechanical fuse for artillery projectiles. 1,641,939; Sept. 6.
- Varaud, André, Geneva, assignor to Tavannes Watch Co. S. A. Tavannes, Bern, Switzerland. Mechanical fuse for artillery projectiles. 1,642,520; Sept. 13.
- Varaud, André, La Capite sur Vesennas, near Geneva, assignor to Tavannes Watch Co. S. A. Tavannes, Canton of Berne, Switzerland. Clockwork-operated mechanical fuse for shells and the like projectiles. 1,640,165; Aug. 23.
- Varble, Albert B., assignor to A. L. Zent, Dayton, Ohio. Vending machine. 1,653,679; Dec. 27.
- Varder, Holzer, New York, N. Y. Car bumper. 1,651,424; Dec. 6.
- Varga, Alexander, Dungen, Ohio. Musical dancing toy. 1,615,663; Jan. 25.
- Varga, Alexander, Dungen, Ohio. Nonskidding device for automobiles. 1,617,720; Feb. 15.
- Vargo, Mike, Yukon, Pa. Cue-tip-securng means. 1,614,414; Jan. 11.
- Vargo, Mike, Yukon, Pa. Gasoline strainer. 1,654,438; Dec. 27.
- Variable Speed Gear Limited, The, et al. (See Ingoldby, Maurice K., assignor.)
- Varian, Howard M., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,644,211; Oct. 4.
- Variety Fire Door Company. (See Gervais, Wainwright B., assignor.)
- Variety Machinery Company. (See Greenfield, Hugh G., assignor.)
- Varley Duplex Magnet Company. (See Scott, Archibald D., assignor.)
- Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
- Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Magneto. 1,630,045; May 31.
- Varley, Thomas W., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Switch construction. 1,618,495; Feb. 22.
- Varnado, Samuel W., Baton Rouge, La. Spreader. 1,639,203; Aug. 16.
- Varnes, Samuel K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovering glycerin from fermented molasses mash. 1,626,986; May 3.
- Varney, Theodore, Sewickley, assignor to Aluminum Company of America, Pittsburgh, Pa. Method of and apparatus for protecting aerial cables. 1,639,820; Aug. 23.
- Varni, Stephen, Brooklyn, N. Y. Setting for jewelry. Des. 74,127; Dec. 20.
- Vartabedian, Kalus N., Chicago, Ill. Dispensing device. 1,618,118; Feb. 15.
- Vaslamp Manufacturing Corporation. (See Cary, Melbert B., assignor.)
- Vatcher, William H., Los Angeles, Calif. Toothbrush. 1,632,102; June 14.
- Vaucrain, Samuel M., Rosemont, Pa. Driving wheel for locomotives etc. 1,637,287; July 26.
- Vaucrain, Samuel M., Rosemont, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Triple expansion Mallet locomotive. 1,629,369; May 17.
- Vaucrain, Samuel M., Rosemont, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Triple expansion Mallet locomotive. 1,629,370; May 17.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Mold. 1,645,725; Oct. 18.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Mold. 1,645,726; Oct. 18.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Mold. 1,645,727; Oct. 18.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Mold. 1,645,728; Oct. 18.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Mold. 1,645,729; Oct. 18.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Casting. 1,645,730; Oct. 18.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Mold. 1,645,731; Oct. 18.
- Vaughan, Conrad, assignor to The Permoloid Company, Cleveland, Ohio. Mold. 1,645,732; Oct. 18.
- Vaughan, James B., Lacy Springs, and J. Terrell, Taylorsville, Ala. Attachment for cultivators. 1,627,298; May 3.
- Vaughan, John, assignor of three-eighths to A. Nor, Milwaukee, Wis., and one-eighth to W. F. Simonsen. Safety razor. Trade shaper. 1,630,551; May 31.
- Vaughan, John L., Shawsville, Va., and C. E. Justice, Logan, W. Va. Guard. 1,647,065; Oct. 25.
- Vaughan, Louis K., Woodland, Calif. Peach pitter. 1,640,564; Oct. 25.
- Vaughan, Raymond E., Piqua, and W. S. D. Leland, Dayton, Ohio. Transmitter. 1,634,967; July 5.
- Vaughan, Robert J., assignor to Children's Clinical Laboratory, Hamilton, Ohio. Closure for containers. 1,637,667; Aug. 2.
- Vaughan, Ross., assignor to The Ex-El Company, Pittsburgh, Pa. Coin-controlled vending machine. 1,619,006; Mar. 1.
- Vaughan, Thomas M., Salem, Ohio. Shears. 1,639,677; Aug. 23.
- Vaughan, Victor G., East Pittsburgh, Pa., and C. C. Harpster, Mansfield, Ohio, assignors to Westinghouse Electric and Manufacturing Company. Electric percolator. 1,647,323; Nov. 1.
- Vaughan, Victor G., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic material. 1,652,546; Dec. 13.
- Vaughan, William, Salem, Ohio. Window-operating device. 1,638,897; Aug. 16.
- Vaughan, William. (See Kriegsheim, H., and Vaughan.)
- Vaughn, Albert E., Los Angeles, Calif. Making signs. 1,646,565; Oct. 25.
- Vaughn, Fred B., Maywood, and I. Thomas, Whittier, Calif. Well-production apparatus. 1,626,057; Apr. 26.
- Vaughn, George A., assignor to The Parsons Company, Newton, Iowa. Longitudinally-extensible boom for excavating machines. 1,630,231; May 24.
- Vaughn, Guy W. (See Starkin, Arthur O., assignor.)
- Vaughn, James K., et al. (See Billrey, George L., assignor.)
- Vaughn, John H., assignor of one-half to C. L. Martin, Winston-Salem, N. C. Trimmings conveyor for sewing machines. 1,613,419; Jan. 4.
- Vaughn, Joshua E., Los Angeles, Calif. Pivoted-closure operating means and circuit closer. 1,639,581; Aug. 16.
- Vautier, Jules, Noisy-le-Grand, France. Device for protecting liquid containers from bursting. 1,648,467; Nov. 8.
- Vawter, Charles E., Philadelphia, Pa., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Indicating ohmmeter. 1,633,912; June 28.
- Vecao, James F., Oakland, Calif. Continuous-tone piano action. 1,639,241; Aug. 16.
- Veale, George W., Cleveland Heights, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Bumper. 1,651,005; Nov. 29.
- Veale, George W., Cleveland Heights, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Bumper. 1,651,006; Nov. 29.
- Veatch, Alvin E., Kelso, Wash. Dental casting device. 1,654,026; Dec. 27.
- Vee Products Company. (See Slauson, Stephen A., assignor.)
- Vecchio, Luigi, assignor to Electrical Inventions & Development Company, Schenectady, N. Y. Fuse plug. 1,616,771; Feb. 8.
- Veco Mfg. Company, The. (See Volk, Joseph A., jr., assignor.)
- Veeder, Wilhelm, Essen-on-the-Ruhr, Germany. Burner for gaseous and powdery solid fuel. 1,647,675; Nov. 4.
- Vedetta, Anthony, Chicago, Ill. Clasp for barbers' hair cloths. 1,617,089; Feb. 8.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting machine. 1,617,730; Feb. 15.
- Veeder, Curtis H., Hartford, Conn. Shutter-operating device. 1,645,673; Oct. 18.
- Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
- Vegega, Silverio, Buenos Aires, Argentina. Attachment for motor cars. 1,653,973; Dec. 27.
- Vegky, Albert H., Forest Hills, Mass. Combination display stand and carrying tray for articles of silver and the like. 1,635,911; July 12.
- Veigel, Louis A., Jr., Newark, N. J. Chain link. 1,620,045; Mar. 8.
- Vellion, Raymond A. (See Roubaud, E. C. C., and Vellion.)
- Velt, Fred. (See Mayer, P., and Velt.)
- Veitch, Alexander, McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transforming coil-spacing device. 1,624,896; Apr. 12.
- Velder, Ernest A., Cedar Rapids, Iowa. Bed davenport. 1,625,437; Apr. 19.
- Velepcek, Rudolph J., assignor to Haines Manufacturing Corporation, Rochester, N. Y. Screw driver. 1,641,307; Sept. 6.
- Vellissaropoulos, John, executor. (See Zalocostas, Demetrios G.)
- Vell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Duplex telegraph system. 1,637,171; July 26.

- Vello, Nicola, Akron, Ohio. Combination tool. 1,625,064; Apr. 19.
- Velten, Augustus C., Traverse City, Mich. Curling iron. 1,639,015; Aug. 16.
- Velten, Hugo, Halberstadt, Germany. Method and apparatus for separating matter of different specific gravities. 1,646,506; Oct. 25.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Batching apparatus. 1,624,122; Apr. 12.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Batching apparatus. 1,624,376; Apr. 12.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Bin. 1,632,103; June 14.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Batching apparatus. 1,650,249; Nov. 22.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Road rail. 1,651,787; Dec. 6.
- Vencil, Albert L., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,620,704; Mar. 15.
- Veud Ads Corp. (See Chandler, Daniel L., assignor.)
- Vendrell, Jacinto, Barcelona, Spain. Loom. 1,626,569; Apr. 26.
- Vengas, Jose P., Laredo, Tex. Key lock. 1,626,987; Mar. 3.
- Venn-Severin Machine Co. (See Severin, Frank W., assignor.)
- Vennum, George C., Westfield, N. J. Water-tube boiler. 1,618,141; Feb. 15.
- Vennum, George C., Westfield, N. J., assignor to Edge Moor Iron Company, Edge Moor, Del. Water heater. 1,652,188; Dec. 13.
- Vennum, George C., Wilmington, assignor to Edge Moor Iron Company, Edge Moor, Del. Soot-blowing system. 1,652,845; Dec. 13.
- Venor, Herbert C. (See Stevens, Frank W., assignor.)
- Venon, Jules H., New York, N. Y. Goblet or similar article. Des. 72,247; Mar. 15.
- Venon, Jules H., New York, N. Y. Goblet or similar article. Des. 72,506; Apr. 19.
- Venon, Jules H., New York, N. Y. Goblet or similar article. Des. 72,507; Apr. 19.
- Venon, Jules H., New York, N. Y. Goblet or similar article. Des. 72,918; June 21.
- Ventolino, Giovanni, Brooklyn, N. Y. Construction of reinforced-concrete floors, etc. 1,617,929; Feb. 15.
- Ventresca, Ercole, Houston, Tex. Well-casing cutter. 1,632,015; June 14.
- Venturini, Guillermo, Santiago, Chile. Electric lamp. 1,626,315; Apr. 26.
- Venus Brassiere Co. (See Lipman, Adolph, assignor.)
- Venus Lighting Fixture Corporation. (See Rabinowitz, Isidore, assignor.)
- Venzie, Frederick M., Philadelphia, Pa. Building construction. 1,612,895; Jan. 4.
- Venzie, Frederick M., Philadelphia, Pa. Mold for cementitious conduits. 1,624,191; Apr. 12.
- Venzie, Frederick M., Philadelphia, Pa. Plaster block and partition construction formed thereof. 1,632,323; June 14.
- Venzke, Herbert F., Boyertown, Pa. Radio tuning device. 1,637,923; Aug. 2.
- Vérán, Eugène, Paris, France, assignor to Golo Slipper Co., New York, N. Y. Feather-trimmed shoe. Des. 73,808; Nov. 8.
- Vérán, Eugène, Paris, France, assignor to Golo Slipper Co., New York, N. Y. Feather-trimmed shoe. Des. 73,809; Nov. 8.
- Verba, James, assignor to Lennox Furnace Company, Marshalltown, Iowa. Furnace damper device. 1,630,591; May 31.
- Verdery, Horace H., Philadelphia, Pa. Flowerpot trellis. 1,623,646; Apr. 5.
- Verdugt, Peter, St. Lawrence, S. Dak. Wagon end gate. 1,654,439; Dec. 27.
- Verein für chemische Industrie Aktiengesellschaft. (See Moor, Otto, assignor.)
- Vereingete Aluminium-Werke A. G. (See Fuss, Vincenz, assignor.)
- Vereingete Celluloidwarenfabriken Gesellschaft mit beschränkter Haftung. (See Durlacher, Hermann, assignor.)
- Vereingete Stahlwerke Aktiengesellschaft. (See Schenck, Rudolf, assignor.)
- Veress, Kalman, New York, N. Y. Filter-plate-removing tool for pipes. 1,651,790; Dec. 6.
- Vergara, Gaspar B., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Automatic type lifting and lowering device for portable typewriters. 1,650,750; Nov. 29.
- Vergara, Juan, Buenos Aires, Argentina. Flushing apparatus. 1,645,264; Oct. 11.
- Verhey, Hubert C., et al. (See Bowes, Thomas D., assignor.)
- Verity, William J., and P. A. Van Sickle, Brantford, Ontario, assignors to Massey-Harris Company, Limited, Toronto, Canada. Power lift for plows. 1,642,521; Sept. 13.
- Veritys Limited. (See Lister, J. F., and Smallwood, assignors.)
- Vermont Spool & Bobbin Company. (See Wilson, William H., assignor.)
- Vermot, Henry E., Sag Harbor, assignor to Joseph Fahys & Company, New York, N. Y. Watchcase. 1,644,802; Oct. 1.
- Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Method of and apparatus for secret electrical transmission of pictures. 1,613,686; Jan. 11.
- Vernam, Gilbert S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Printing-telegraph-exchange system. 1,619,897; Mar. 8.
- Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Radioprinting telegraph system. 1,622,297; Mar. 29.
- Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Printing-telegraph system. 1,648,927; Nov. 15.
- Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Printing-telegraph-exchange system. 1,648,974; Nov. 15.
- Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Printing-telegraph-exchange system. 1,648,975; Nov. 15.
- Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Stereopticon-control device. 1,650,671; Nov. 29.
- Vernam, Gilbert S., River Edge, N. J., and D. B. Perry, Yonkers, N. Y., assignors to American Telephone and Telegraph Company. Printing-telegraph system. 1,642,048; Sept. 13.
- Vernay, Jean B., Villeurbanne, France. Drying drum. 1,628,481; May 10.
- Vernet, Sergius, Brooklyn, N. Y. Making radiator shutters. 1,621,696; Mar. 22.
- Varnet, Sergius, Brooklyn, N. Y. Reversing mechanism. 1,622,512; Apr. 19.
- Vernet, Waldemar. (See Iserman, S., Vernet, and Moses.)
- Vernon, Fred G., Merrill, Iowa. Kromayer light attachment. 1,616,722; Feb. 8.
- Vernon, John, Kenora, Ontario, Canada. Golf club. 1,647,487; Nov. 1.
- Vernon James Company. (See Doughty, William E., assignor.)
- Verona Tool Works, The. (See Hart, William F., assignor.)
- Verry, Irving H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion. 1,652,591; Dec. 13.
- Versare Corporation. (See Schwartz, Oscar D., assignor.)
- Versare Corporation. (See Warhus, Oliver F., assignor.)
- Vershbinsky, David, Brooklyn, N. Y. Educational appliance. 1,624,450; Apr. 12.
- Vershofen, Wilhelm, Bamberg, Germany. Production of ceramic products. 1,628,522; May 10.
- Versoy, Irving R., assignor to The Berger Brothers Company, New Haven, Conn. Corset. 1,636,023; July 19.
- Versoy, Irving R., assignor to The Berger Brothers Company, New Haven, Conn. Corset. 1,636,399; July 19.
- Versteeg, Anton, Houston, Tex. Rotary drill. 1,639,242; Apr. 16.
- Vervoort, Lambert H., Coudersport, Pa. Bearing. 1,622,618; Mar. 29.
- Vesely, Karel, and K. Lustig, Prague, Czechoslovakia. Automatic regulation of arc lamps. 1,614,415; Jan. 11.
- Vest, Thomas F., assignor of one-half to Two Vest Sien Company, Birmingham, Ala. Signal. 1,625,693; Apr. 19.
- Vesta Battery Corporation. (See Angell, Chester M., assignor.)
- Vesta Battery Corporation. (See Morrison, William, assignor.)
- Vestal, Albert H. (See Malone, Adolph W., assignor.)
- Vestel, Alfred, Sons, Inc. (See Kantack, Walter W., assignor.)
- Vetter, George W., Commerce, Mo. Shocking attachment for grain binders. 1,637,668; Aug. 2.
- Vetter, Ignatius J., New York, N. Y., assignor to Bigelow Hartford Carpet Company. Carpet. Des. 72,198; Mar. 8.
- Vetter, Ignatius J., New York, N. Y. Phonograph. 1,623,451; Apr. 6.
- Vetter, Otto, Stuttgart, Germany. Device for lubricating pneumatic tools. 1,650,856; Nov. 29.
- Vetterlein, Henry M., assignor of one-half to H. P. Burke, Philadelphia, Pa. Shutter or door. 1,636,200; July 19.
- Vezzani, Umberto, Genoa, Italy. Cartridge for fire extinguishers. 1,623,259; Apr. 5.
- Vial, Frederick K., La Grange, and G. S. Frans, Oak Park, assignors to Griffin Wheel Company, Chicago, Ill. Process of and apparatus for operating cupolas. 1,627,536; May 3.
- Viale, Spirito M. (See Smith, F. R., and Viale.)
- Viall, George, assignor to Chain Belt Company, Milwaukee, Wis. Clutch and brake control mechanism. 1,639,543; Aug. 16.
- Vibber, Wheeler H., New London, Conn. Conduit-bushing wrench. 1,633,297; June 21.
- Vilberg, Errol, and W. C. Parker, Montreal, Quebec, Canada. Bolster. 1,615,857; Feb. 1.
- Vicars, Edward L. (See Vicars, Thomas and E. L.)

- Vicars, Edward L., Earlestown, England. Biscuit-making and the like machine. 1,631,441; June 7.
- Vicars, Thomas and E. L., Earlestown, England. Biscuit-making and the like embossing and cutting machine. 1,627,679; May 10.
- Vick, Albert F. W., Cynwyd, Pa. Composition for filling cavities in trees. 1,652,222; Dec. 13.
- Vickerman, Harry N., Narberth, Pa. Filler cap for storage tanks. 1,651,168; Nov. 29.
- Vickers, George H. (See Goodnow, W. F., and Vickers.)
- Vickers, Harry H., Corona, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,628,081; May 10.
- Vickers, Harry H., Corona, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,646,075; Oct. 18.
- Vickers Limited. (See Boden, Oliver, assignor.)
- Vickers Limited. (See Childs, James, assignor.)
- Vickers Limited. (See Clausen, Hugh, assignor.)
- Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
- Vickers Limited. (See Pearson, E. C., and Childs, assignors.)
- Vickers Limited. (See Pratt, Hartley B., assignor.)
- Vickers Limited. (See Scarff, Frederick W., assignor.)
- Vickers Limited, et al. (See Ingoldby, Maurice K., assignor.)
- Vickers-Pettets Limited. (See Petter, E. W., and Hut-ton, assignors.)
- Victory, Frank E., Davenport, Iowa, assignor, by mesne assignments, to Gold Dust Corporation, New York, N. Y. Liquid-cleaner container. 1,615,603; Jan. 25.
- Victor, Alexander P., Davenport, Iowa. Intermittent film feed. 1,625,065; Apr. 19.
- Victor Casket Hardware Co. (See Pahlow, Gustav C., assignor.)
- Victor Chemical Works. (See Boynton, Arthur J., assignor.)
- Victor Chemical Works. (See Brassert, H. A., Waggaman, and Easterwood, assignors.)
- Victor Chemical Works. (See Waggaman, W. H., and Easterwood, assignors.)
- Victor Engineering Co. (See Wotruba, Charles.)
- Victor Manufacturing & Gasket Co. (See Oven, Frank J., assignor.)
- Victor Shoe Machinery Company. (See Hansen, Sinius M., assignor.)
- Victor Talking Machine Company. (See Buckle, Horace L. T., assignor.)
- Victor Talking Machine Company. (See La Rue, William D., assignor.)
- Victor Talking Machine Company. (See O'Malley, Thomas, assignor.)
- Victor Talking Machine Company. (See Squibb, Lloyd X., assignor.)
- Victor Talking Machine Company. (See Stevenson, William B., assignor.)
- Victor Talking Machine Company. (See Wismer, S. H., and Thaidigman, assignors.)
- Victor X-Ray Corporation. (See Wantz, Julius B., assignor.)
- Victorsohn, Morris, Brooklyn, assignor to Victorson Manufacturing Corporation, New York, N. Y. Closure check and adjuster. 1,635,566; July 12.
- Victorson Manufacturing Corporation. (See Victorsohn, Morris, assignor.)
- Victory Sparkler & Specialty Co. (See Kohn, Kobay, assignor.)
- Victory, William J. (See Brown, R. S., and Victory.)
- Vida, Frank, Staten Island, N. Y. Bed-spring attachment. 1,630,813; May 31.
- Vidina, Joseph, Chicago, Ill. Window. 1,629,186; May 17.
- Vidinghoff, Charles A., assignor of one-half to A. R. Patterson, Rochester, N. Y. Work clamp. 1,637,134; July 26.
- Vidor, Armin, Budapest, Hungary. Machine for forming rounded corners upon rectangular material. 1,646,986; Oct. 25.
- Vieau, Harold F., Liverpool, Roy C. Higby, Big Moose, and E. J. O'Neill, Syracuse, N. Y. Rinsing and drying apparatus Re16,827; Dec. 20.
- Viebrock, Carl H., Douglas, Wash. Jar wrench. 1,647,892; Nov. 1.
- Viel, Louis L., Billancourt, France. Carburetor. 1,643,864; Sept. 27.
- Vierkötter, Paul, Munich, Germany. Flash-light lamp. 1,625,108; Apr. 19.
- Vierling, Frank J., and W. E. Cook, Minneapolis, assignors to Louis F. Dow Company, St. Paul, Minn. Calendar. 1,617,731; Feb. 15.
- Vierling, Margaretha A. (See Iseman, Minnie, assignor.)
- Vierengel, M. Machine Co. Inc. (See Vierengel, Matthew, assignor.)
- Vierengel, Matthew, assignor to M. Vierengel Machine Co., Inc., Brooklyn, N. Y. Envelope machine. 1,649,760; Nov. 15.
- Viersen, Paul A. (See Newsham, A. S., Viersen, and Misch.)
- Viersen, Tiete, Ter Apel, Netherlands. Making decorative material from peat. 1,625,066; Apr. 19.
- Viet, Paul, Billancourt, France. Automatic starting device for internal-combustion engines. 1,639,582; Aug. 16.
- Viets, Floyd H., Alhambra, assignor to International Precipitation Company, Los Angeles, Calif. Fluid-pressure regulator. 1,622,689; Mar. 29.
- Vievehg, John H., Indianapolis, Ind. Plant stand. 1,639,318; Aug. 16.
- Viezzi, Luigi, North Bergen, assignor of one-half to J. Stiltz, West New York, N. J. Spike holder and driver. 1,652,881; Dec. 13.
- Viggiano, Peter, Shinnston, W. Va. Vase. 1,617,280; May 8.
- Vignon, Henri, Paris, France. Dry cell. 1,654,227; Dec. 27.
- Vigreux, Charles, Balesmes, assignor to Etablissements Poulenc Frères, Paris, France. Apparatus for industrial culture of ferments, yeasts, microbes, and the like. 1,623,898; Apr. 19.
- Viking Products Corporation. (See Weidner, Victor, assignor.)
- Viking Pump Company. (See Petersen, Peter C., assignor.)
- Vila, Alfonso, Guanabacoa, Cuba. Clamp for scaffolds. 1,636,930; July 26.
- Vila, Aquilino R., assignor to Compania Cubana Economizadora De Combustible S. A., Habana, Cuba. Heat-exchange apparatus. 1,630,148; May 24.
- Vila, Frank G. (See Gates, Elisha A., assignor.)
- Vilas, Katherine G., administratrix. (See Vilas, Percival M.)
- Vilas, Percival M., deceased, Minneapolis, Minn.; K. G. Vilas, administratrix. Mattress and sleeping bag. 1,648,373; Nov. 8.
- Vile, Merwin S., assignor to The Fafnir Bearing Company, New Britain, Conn. Hanger box. 1,645,503; Oct. 11.
- Villain, Paul, London, England. Making perfumed or medicated transparent soaps. 1,626,708; May 3.
- Villanueva, Gervasio B., Tondo, Manila, P. I. Combined cigarette holder and lighter. 1,626,767; May 3.
- Villar, José A., Vigo, Spain. Tin for anchovies, salt meat, and preserved fish. 1,617,692; Feb. 10.
- Villaret, Gustave E., Leonia, N. J. Lighting fixture or article of similar nature. Des. 73,723; Oct. 25.
- Villaret, Gustave E., Leonia, N. J., assignor to Halcolite Company, Inc. Lighting-fixture ring. Des. 71,888; Jan. 18.
- Villaret, Gustave E., Leonia, N. J., assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 72,120; Mar. 1.
- Villaret, Gustave E., Leonia, N. J., assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 72,121; Mar. 1.
- Villaret, Gustave E., Leonia, N. J., assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 72,197; Mar. 8.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Backplate for bracket lighting fixtures or similar articles. Des. 72,539; Apr. 26.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Arm for lighting fixtures or similar articles. Des. 72,535; Apr. 26.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Escutcheon plate for lighting fixtures or similar articles. Des. 72,540; Apr. 26.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Chandelier. Des. 72,643; May 10.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Chandelier. Des. 72,644; May 10.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Adapter for lighting fixtures or similar articles. Des. 72,645; May 10.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Picture body for lighting fixture or similar article. Des. 72,646; May 10.
- Villaret, Gustave E., Leonia, N. J., assignor to H. Hifman, New York, N. Y. Canopy ring for lighting fixtures or similar articles. Des. 72,647; May 10.
- Villaret, Gustave E., Leonia, N. J., assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Lighting fixture bracket or article of similar nature. Des. 72,741; May 24.
- Villaret, Gustave E., Leonia, N. J., assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Chandelier or article of similar nature. Des. 72,742; May 24.
- Villaret, Gustave E., Leonia, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bracket back for lighting fixtures. Des. 72,919; June 21.
- Villaret, Gustave E., Leonia, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bracket back for lighting fixtures. Des. 73,019; July 5.
- Villaret, Gustave E., Leonia, N. J., assignor to Owen Walsh Mfg. Co., Inc., New York, N. Y. Base for a chandelier. Des. 73,016; July 5.
- Villaret, Gustave E., Leonia, N. J., assignor to Owen Walsh Mfg. Co., Inc., New York, N. Y. Panel for a lighting fixture. Des. 73,112; July 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bracket back for lighting fixtures. Des. 73,151; July 26.
- Villaret, Gustave E., Leonia, N. J., assignor to Owen Walsh Mfg. Co., Inc., New York, N. Y. Bracket back for a wall lighting fixture. Des. 73,152; July 26.
- Villaret, Gustave E., Leonia, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Canopy for lighting fixtures. Des. 73,453; Sept. 13.

- Villaret, Gustave E., Leonia, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bobèche for lighting fixtures. Des. 73,454; Sept. 13.
- Villaret, Gustave E., Leonia, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Adapter for lighting fixtures. Des. 73,589; Oct. 4.
- Villaret, Paul G. (See Hast, Charles R., assignor.)
- Villars, Paul A. (See McDonnell, S. P., and Villars.)
- Villaseñor, Eduardo, assignor of one-half to Rudecindo Peniche, Merida, Yucatan, Mexico. Candy mold. 1,647,944; Nov. 1.
- Vinas, Manuel A., New York, N. Y. Handless clock. 1,626,988; May 3.
- Vincent, Edward H., Detroit, Mich. Steering-wheel switch. 1,646,074; Oct. 18.
- Vincent, Ernest P., New York, N. Y. Side-reading illuminated sign. 1,627,528; May 3.
- Vincent, Harry S., Ridgewood, N. J., assignor to Franklin Railway Supply Company. Driving box. 1,651,788; Dec. 6.
- Vincent, Harry S., Ridgewood, N. J., assignor to Franklin Railway Supply Company. Driving box. 1,651,789; Dec. 6.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Airplane. 1,632,562; June 21.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,647,846; Nov. 1.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,652,333; Dec. 13.
- Vincent, Sidney C., et al. (See Klefer, Kenneth H., assignor.)
- Vincke, Enrique, assignor to Manufacturas De Corcho, S. A., Barcelona, Spain. Manufacturing cork disks and product of the same. 1,617,693; Feb. 15.
- Vincke, Enrique, assignor to Manufacturas De Corcho, S. A., Barcelona, Spain. Composite cork disk. 1,628,082; May 10.
- Vincono, Gustavo, Turin, Italy. Breech-closing mechanism for automatic firearms. 1,648,833; Nov. 8.
- Vineberg, Joseph H., Montreal, Quebec, Canada. Strap fastening. 1,617,550; Feb. 15.
- Vinegrad, Cassril, Kingston-upon-Hull, England. Table for attachment to seats, desks, and other articles. 1,649,761; Nov. 15.
- Vineyard, Arthur A., Wood River, Ill. Concentrating sludge acids. 1,636,724; July 26.
- Vingheroets, Louis, Grand Rapids, Mich. Tool. 1,625,344; Apr. 19.
- Vingheroets, Louis, Grand Rapids, Mich. Piston. 1,649,003; Nov. 15.
- Vinogradov, Eugene, New York, N. Y. Window-lighting system. 1,632,254; June 14.
- Vinson, William A., Baltimore, Md. Spinning top. 1,629,135; May 17.
- Vinton, Lindley, et al. (See Dieterich, Ludwig M., assignor.)
- Vinz, Edward W., Minneapolis, Minn. Storm window. 1,631,777; June 7.
- Vionnet, Madeleine, Paris, France. Bottle or similar container. Des. 72,687; Mar. 17.
- Virk, Paul. (See Spengler, O., Virck, and Weidenhagen.)
- Viscose Company, The. (See McKenzie, Donald A., assignor.)
- Viscose Company, The. (See Niederhauser, F. C., and Sudenderland, assignors.)
- Viscount, Joseph L., assignor to Snyder & Black, Incorporated, New York, N. Y. Display device. 1,638,177; Aug. 9.
- Visi, Stephen. (See Mogyóros, S., and Visi.)
- Visible Gasoline Filter Company. (See Fell, William, assignor.)
- Visible Pump Company. (See Kershaw, Henry, assignor.)
- Visible Tire Gauge Co. (See Johnson, Frederick G., assignor.)
- Visking Corporation. (See Freund, Erwin O., assignor.)
- Visking Corporation. (See Henderson, William F., assignor.)
- Visometer Corporation, The. (See Pulverman, Philip E., assignor.)
- Vissat, Anthony L., Jeannette Borough, Pa. Railway frog. 1,634,638; July 5.
- Vissinger, Harry, Kenilworth, Ill. Self-locking device. 1,638,738; Aug. 9.
- Vissinger, Harry, Kenilworth, assignor to The Okadee Company, Chicago, Ill. Locomotive front end support. 1,627,756; May 10.
- Visualatone Company of America. (See Burton, Isaac F., assignor.)
- Vitamin Food Co. (See Prince, Robert K., assignor.)
- Vitapack Corporation. (See Rector, Thomas M., assignor.)
- Vitolo, Carmine, Hollis, N. Y. Display device. 1,618,359; Feb. 22.
- Vitolo, Richard, et al. (See Mitkewich, Wladimir W., assignor.)
- Vitrolite Company, The. (See Beebe, Daniel S., assignor.)
- Vitrolite Company, The. (See Carpenter, A. H., and Huntley, assignors.)
- Vittengl, Frank C. and J. A., Cedar Rapids, Iowa. Article of furniture. 1,642,632; Sept. 13.
- Vittengl, John A. (See Vittengl, Frank C. and J. A.)
- Vivax Processes, Inc. (See White, Clarence B., assignor.)
- Vivaudon, Victor, New York, N. Y. Cosmetic container. 1,623,509; Apr. 5.
- Vivirito, Lawrence, Chicago, Ill. Lamp base. Des. 71,889; Jan. 18.
- Vivirito, Lawrence, Chicago, Ill. Spindle for lighting fixtures. Des. 71,890; Jan. 18.
- Vivirito, Lawrence, Chicago, Ill. Lamp base. Des. 71,891; Jan. 18.
- Vivirito, Lawrence, Chicago, Ill. Spindle for lighting fixtures. Des. 71,892; Jan. 18.
- Vivirito, Lawrence, Chicago, Ill. Lamp base. Des. 71,893; Jan. 18.
- Vivisak, Gustave A., New York, N. Y. Automobile bumper. 1,646,776; Oct. 25.
- Vleck, James J., Ravenna, Nebr. Baby-carriage rocking and rolling mechanism. 1,617,037; Feb. 8.
- Vliet, Elmer B., Chicago, and E. H. Voliwiler, Highland Park, assignors to Abbott Laboratories, North Chicago, Ill. 3-amino-4-omega-hydroxyalkylaminophenyl arsonic acids and their salts. 1,652,748; Dec. 13.
- Vobach, Willy. (See Janzen, Franz, assignor.)
- Vocophone Company, The. (See McKesson, Elmer I., assignor.)
- Vodacek, John, assignor, by mesne assignments, to Clinch Manufacturing Corporation, Chicago, Ill. Curtain fastener. 1,629,603; May 24.
- Vodoz, Frederick W., Wilmette, assignor to Goodman Manufacturing Company, Chicago, Ill. Cutter chain. 1,626,616; Apr. 26.
- Vodner, Frederick W., Wilmette, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,632,810; June 21.
- Voegell, Frederick B., Easton, Pa. Treating textiles. 1,626,438; Apr. 26.
- Voegell, Frederick B., Easton, Pa. Apparatus for treating textile. 1,626,439; Apr. 26.
- Voegell, Frederick B., Easton, Pa. Length record and automatic machine for making same. 1,630,039; May 24.
- Voelkel, George W., Nashville, assignor of one-half to Stevens, Tamara, Ill. Hay-stacking device. 1,629,604; May 24.
- Voellmecke, Carl H., Cincinnati, Ohio. Pipe hanger. 1,619,591; Mar. 1.
- Vogel, Arthur S. (See Crandall, F. E., and Vogel.)
- Vogel, Charles H. (See Stearns, C. E., and Vogel.)
- Vogel, Clarence F., Rock Island, Ill. Doll. 1,640,260; Aug. 23.
- Vogel, Frank H. (See Kuhn, L. V., and Vogel.)
- Vogel, Ernst, Stockerau, near Vienna, Austria. Differential piston pump. 1,621,142; Mar. 15.
- Vogel, Frederick C., assignor to the Firm Vogel & Halke, Jan. 25.
- Vogel, Frederick C., assignor to the Firm Vogel & Halke, Jan. 25.
- Vogel, Hans E. R., Blankensee, near Hamburg, Germany. Bringing about physical and chemical changes in dielectric carbon compounds by means of ionized gases. 1,621,143; Mar. 15.
- Vogel, Johannes, Michael, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Treatment of cement raw materials in rotary kilns. 1,627,585; May 10.
- Vogel, Joseph P., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Weigh pan. 1,622,984; Mar. 29.
- Vogel, Max, Frankfurt-on-the-Main, Germany. Notebook. 1,639,521; Aug. 23.
- Vogel, Morton J., and J. B. Grincho, New York, N. Y. Speed-controlled circuit closer. 1,649,762; Nov. 15.
- Vogel, Reinhold, South Wilton, Conn. Concrete-reinforcing-rod chair. 1,620,501; Mar. 8.
- Vogelbusch, Wilhelm, Vienna, Austria. Concentrator for fluids. 1,637,431; Aug. 2.
- Vogelzanz, E. L., et al. (See Criner, Harry J., assignor.)
- Vogl, Otto, Chicago, Ill. Indicating the lengths of variable articles. 1,613,858; Jan. 11.
- Vogler, James B., Charlotte, N. C. Rotatable display stand. 1,627,330; May 3.
- Vogler, John, Douglaston, assignor to Alfred H. Smith Co., New York, N. Y. Powder box. 1,616,834; Feb. 8.
- Vogler, John J., Douglaston, assignor to Alfred H. Smith Co., New York, N. Y. Display stand. 1,618,027; Feb. 15.
- Voght, Franz, Augsburg, Germany. Replacing broken or molten holding wires inside of incandescent electric lamps. 1,637,016; July 26.
- Vogt, Benedict F., Louisville, Ky. Refrigerator. 1,614,507; Jan. 18.
- Vogt, Benedict F., Louisville, Ky. Refrigerator. 1,628,633; May 10.
- Vogt, Brothers Mfg. Co. (See Petersen, Olaf W., assignor.)
- Vogt Bros. & Squier Company. (See Vogt, Clarence, assignor.)
- Vogt, Charles W. (See Marshall, G. F., and Vogt.)
- Vogt, Clarence, Wenonah, N. J., assignor to Vogt Bros. & Squier Company, Philadelphia, Pa. Latch. 1,619,789; Mar. 1.
- Vogt, Frank A., E. Fleisch, and H. Goldsmith, assignors to The P. Goldsmith Sons Company, Cincinnati, Ohio. Valve. 1,630,040; May 24.

- Vogt, Frank P., and E. C. Dorn, Chicago, Ill. Automobile lock. 1,625,109; Apr. 19.
- Vogt, Hans. (See Massolle, J., Engl. and Vogt.)
- Vogt, Hans. (See Massolle, J., Vogt, and Engl.)
- Vogt, Hans, Berlin-Schöneberg, and J. Engl. and J. Massolle, Grunewald, Germany, assignors to Tri-Ergon Limited, Zurich, Switzerland. Controlling amplitude of high-frequency oscillations. 1,628,377; May 10.
- Vogt, Hans, Berlin-Wilmersdorf, J. Engl. and J. Massolle, Berlin-Grunewald, Germany, assignors to Tri-Ergon, A.-G., Zurich, Switzerland. Light-modulating device. 1,650,168; Nov. 22.
- Vogt, Henry, Machine Co. (See Thurstensen, Soren, assignor.)
- Vogt, Theodore B. H., Passaic, N. J., assignor to General Electric Company. Locking attachment for incandescent lamps. 1,621,341; Mar. 15.
- Vogtlandische-Maschinenfabrik (vorm. J. C. & H. Diehrlich, A.-G. (See Wohlrabe, Otto, assignor.)
- Vogtlandische Maschinenfabrik (vormals J. C. & H. Diehrlich) Aktiengesellschaft. (See Bretschneider, Max, assignor.)
- Vogue Brassiere Mfg. Co. (See Frieland, Harry, assignor.)
- Voices Incorporated. (See Aronson, Louis V., assignor.)
- Voices Incorporated. (See De Cesare, Matteo, assignor.)
- Voices Incorporated. (See Evans, Fred, assignor.)
- Voices Incorporated. (See Grubman, Anton L., assignor.)
- Voices Incorporated. (See Grubman, Leo J., assignor.)
- Voices Incorporated. (See Hutnikow, Theodore, assignor.)
- Voices Incorporated. (See Konoff, Alexander, assignor.)
- Voices Incorporated. (See Lloyd, Burt E., assignor.)
- Voices Incorporated. (See Nemcovsky, Lewis A., assignor.)
- Voices Incorporated. (See Spalletta, Salvatore, assignor.)
- Voigt, George F., Oakland, Calif. Furring plate. 1,618,132; Feb. 15.
- Voigt, George F., Oakland, Calif. Wire fastener. 1,618,133; Feb. 15.
- Voigt, George F., Oakland, Calif., assignor to Economy Products Corporation. Wall construction. 1,624,192; Apr. 12.
- Voigt, George F., Oakland, Calif., assignor to Economy Products Corporation. Lath spacer. 1,624,193; Apr. 12.
- Voigt, George F., Oakland, Calif., assignor to Economy Products Corporation. Wall construction. 1,640,303; Aug. 23.
- Voigt, George F., Oakland, Calif., assignor to Economy Products Corporation. Plasterer's nails. 1,645,674; Oct. 18.
- Voigt, George F., Oakland, Calif., assignor to Economy Products Corporation. Furring staple. 1,648,666; Nov. 8.
- Voigt, Alexander E., Topeka, Kans. Marker-light plug. 1,651,489; Dec. 6.
- Voigt, Emil K. A. (See Konicke, Hildegard, M. G., assignor.)
- Voigt, Frank, Milwaukee, Wis. Micrometer. 1,625,175; Apr. 19.
- Voigt, Frederick A., Chicago, Ill. Observation apparatus for vehicles. 1,644,902; Oct. 11.
- Voit, William J., Los Angeles, Calif. Valve construction for inflatable articles. 1,644,096; Oct. 4.
- Vokac, Johann, assignor to Eisengieserei Carl Luber & Sohn, Vienna, Austria. Magazine and slow-burning stove. 1,648,517; Nov. 8.
- Vokal, Paul F. (See Schramm, C., and Vokal.)
- Volare, Fred, Scotch Plains, N. J., assignor to The Aeolian Company. Pneumatic motor. 1,613,146; Jan. 4.
- Volckening, Charles K. (See Volckening, Henry G., assignor.)
- Volckening, Charles K., Brooklyn, N. Y. Dust catcher for radiators. 1,614,580; Jan. 15.
- Volckening, Henry G., assignor to C. K. Volckening, Brooklyn, N. Y. Patter. 1,649,089; Nov. 15.
- Volcker, Milton G., Huntington, Ind. Gasoline-dispensing tank. 1,642,634; Sept. 13.
- Vold, Lars H., and K. R. Hammerstrom, Butler, Pa. Spacing mechanism for punching machines. 1,633,718; June 28.
- Volech, Frantisek, Vrchlabi, Czechoslovakia. Warp-tensioning device for looms. 1,618,246; Feb. 22.
- Volk, Hattie F., New York, N. Y. Brassiere. 1,637,840; Aug. 2.
- Volk, Joseph A., Jr., Norwalk, Conn., assignor to The Veco Mfg. Company. Electrical fixture. 1,648,704; Nov. 8.
- Volk, Sidney, Benton Harbor, Mich. Skylight. 1,638,668; Aug. 9.
- Volert, Charles, Jr., New Brunswick, N. J. Abdominal support and protector. 1,642,279; Sept. 13.
- Volkman, Frederick C., et al. (See Kiefer, Kenneth H., assignor.)
- Volkmar, Bernhard, New York, N. Y. Timer for internal-combustion engines. 1,625,001; Apr. 19.
- Volk, John D., Rochester, N. Y. Arch-supporting shoe. 1,644,762; Oct. 11.
- Vollbrecht, Frederick A., Detroit, Mich. Electric toaster. 1,626,894; May 3.
- Vollmann, Carl W., Montreal, Quebec, Canada. Rotary compressor. 1,626,768; May 3.
- Vollmann, Carl W., Montreal, Quebec, Canada. Valve for gas compressors. 1,627,680; May 10.
- Vollmann, Carl W., Montreal, Quebec, Canada. Gas compressor. 1,632,155; June 14.
- Vollmann, Carl W., Montreal, Quebec, Canada. Compressor. 1,632,385; June 14.
- Vollmer, Frederick, Cranford, N. J. Wire-drawing die. 1,624,027; Apr. 12.
- Vollmer, William A. (See Busch, C. H., and Vollmer.)
- Vollrath, Edwin, Easton, Pa. Belt clamp. 1,643,037; Sept. 20.
- Volsky, Anna K., et al. (See Paupa, Joseph, assignor.)
- Volwiler, Ernest H. (See Vliet, E. B., and Volwiler.)
- Volwiler, Ernest H., assignor to Abbott Laboratories, Chicago, Ill. N-butyl ethyl barbituric substance. 1,621,094; Mar. 15.
- Volwiler, Ernest H., Highland Park, assignor to Abbott Laboratories, North Chicago, Ill. Barbituric-acid derivative. 1,636,201; July 19.
- Volz, George A., Cincinnati, Ohio. Reversible heel. 1,636,494; July 19.
- Volz, Joseph, Elliott, N. Dak. Grain cleaner. 1,617,187; Feb. 6.
- Von Arco, Georg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Speed governor. 1,645,556; Oct. 18.
- Von Arco, Graf G., assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches Ufer 12/13, Berlin, Germany. Receiving arrangement for wireless telegraphy. 1,649,499; Nov. 15.
- Von Arx, Rudolf, Munich, Germany. Production of pictures by the transfer process. 1,643,529; Sept. 27.
- Von Auw, Alwin, assignor to Boorum & Pease Company, Brooklyn, N. Y. Visible card index. 1,649,763; Nov. 15.
- Von Boecklin, August E. L., and L. M. Larson, assignors to Washington Manufacturing Co., Tacoma, Wash. Molder or sticker device. 1,636,400; July 19.
- Von Bohuszewicz, Oskar, and W. Wilk, Dusseldorf, Germany. Device for measuring the forces arising during turning on lathes and the like. 1,637,676; Aug. 2.
- Von Bronk, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for generating electric oscillations. 1,645,557; Oct. 18.
- Von Bronk, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Two-way circuit arrangement for wireless telephony. 1,650,250; Nov. 22.
- Von Canoh, James B., West End, N. C. Fruit sizer. 1,643,190; Sept. 20.
- Von Dabrowski, Lothar, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Refrigerator car. 1,631,297; June 7.
- Von der Heide, Max, Kiel, Germany. Valve-control device. 1,645,416; Oct. 11.
- Von der Heide, Richard, Berlin, Germany. Breathing apparatus. 1,645,312; Oct. 11.
- Von der Horst, Frederick, Oak Park, Ill. Apparatus for and method of handling rolls. 1,641,998; Sept. 13.
- Von der Marwitz, Hugo, Crefeld, Germany. Device for filing letters and the like. 1,613,842; Feb. 22.
- Von Doemming, Hugo, Hildesheim, Germany. Change-speed gear for automobiles and the like. 1,635,296; July 12.
- Von Elm, William, Brooklyn, N. Y. Combined baking pan, cooking utensil, and mold. 1,627,757; May 10.
- Vonfelt, Paul, Hermosa Beach, Calif. Automobile signal device. 1,644,774; May 24.
- Von Frommer, Rudolf, Budapest, Hungary. Sporting gun. 1,618,247; Feb. 22.
- Von Frommer, Rudolf, Budapest, Hungary. Cartridge magazine. 1,645,031; Oct. 11.
- Von Glinsky, Casimir, Schenectady, N. Y. Automobile signal. 1,641,910; Sept. 6.
- Von Glahn, Charles H., Brooklyn, N. Y. Box-making machine. 1,642,913; Sept. 20.
- Von Gruber, Otto, Jena, assignor to the Firm of Carl Zeiss, Jena, Germany. Device for process work and the like. 1,651,648; Dec. 6.
- Von Halle, Maria, Palisades Park, N. J., assignor to The Standard Corset Company, New York, N. Y. Corset. Re16,626; May 17.
- Von Haxthausen, Irmgard, Munich, Germany. Radiator ornament. Des. 73,455; Sept. 13.
- Von Haxthausen, Irmgard, Munich, Germany. Radiator ornament. Des. 73,456; Sept. 13.
- Von Henke, Edmund J., assignor to American Electric Fusion Corporation, Chicago, Ill. Electrical welding apparatus. 1,626,769; May 3.
- Von Herz, Edmund, Berlin-Charlottenburg, Germany. Manufacturing detonating compositions for explosive and percussion caps. 1,625,968; Apr. 26.
- Von Hevesy, Georg. (See Coster, D., and Von Hevesy.)
- Von Hochstetter, Heinrich, assignor to the Firm Holzverkohlungsindustrie Aktiengesellschaft, Konstanz, Germany. Making anhydrous salts of fatty acids. 1,645,265; Oct. 11.
- Von Hochstetter, Heinrich, assignor to the Firm Holzverkohlungsindustrie Aktiengesellschaft, Konstanz, Germany. Making anhydrous salts of fatty acids. 1,648,516; Nov. 8.
- Von Hoff, Carl, Essen, Germany. Oxygen-respiratory apparatus. 1,635,101; July 5.
- Von Hüttscher, Gustav, Hindenburg, assignor to F. W. Kiehl, Gießen, Germany. Electromagnetic light bathing apparatus. 1,615,295; Jan. 25.

- Von Kármán, Theodor, Aachen, Germany, and K. Fromm, Allentown, Pa. Turbo machine. 1,622,930; Mar. 29.
- Von Király, Paul, and J. Lovász, Budapest, Hungary. Automatic ammeter. 1,637,400; Aug. 2.
- Von Lepe, Egbert, Berlin-Charlottenburg, Germany. Current converter. 1,613,494; Jan. 4.
- Von Lepe, Egbert, Berlin-Charlottenburg, Germany. Current converter for ignition systems. 1,614,906; Jan. 18.
- Von Littrow, Hans, Chemnitz, and F. H. Zehl, Bielefeld-on-the-Rhine, Germany. Windshield wiper. 1,614,164; Jan. 11.
- Von Mach, Maximilian E., Jr., Detroit, Mich. Concrete-block composition. 1,623,985; Apr. 12.
- Von Mihály, Dénes, Budapest, Hungary. Phototelegraphic apparatus. 1,625,967; Apr. 26.
- Von Nessen, Walter, New York, N. Y., assignor to Efcollite Corporation. Wall bracket. Des. 73,673; Oct. 18.
- Von Nessen, Walter, New York, N. Y., assignor to Efcollite Corporation. Lighting fixture. Des. 73,882; Nov. 15.
- Von Nessen, Walter, New York, N. Y., assignor to Efcollite Corporation. Wall bracket or analogous article. Des. 74,128; Dec. 20.
- Von Pein, Edward J., assignor, by mesne assignments to The National Cash Register Company, Dayton, Ohio. Cash register. 1,624,123; Apr. 12.
- Von Pein, Edward J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Printer. 1,624,124; Apr. 12.
- Von Pein, Edward J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,630,814; May 31.
- Von Pein, Edward J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,645,209; Oct. 11.
- Von Platen, Baltzar C. (See Munters, C. G., and von Platen.)
- Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation. Refrigerator. 1,613,627; Jan. 11.
- Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigerator. 1,613,628; Jan. 11.
- Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation. Refrigeration. 1,613,629; Jan. 11.
- Von Platen, Baltzar C., Ystad, and C. G. Munters, Dalarna, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation. Absorption refrigerating apparatus. 1,620,843; Mar. 19.
- Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,629,733; May 24.
- Von Platen, Baltzar C., Ystad, and C. G. Munters, Dalarna, Sweden, assignors by mesne assignments to Electrolux Servel Corporation. Refrigerating apparatus of the absorption type. 1,636,115; July 19.
- Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation. Refrigerator. 1,631,007; Nov. 29.
- Von Reis, Lambert, Herzogenrath, Germany. Method and device for manufacturing plate glass. 1,621,144; Mar. 15.
- Von Retze, Ewald, assignor to Holzverkohlungs-Industrie, A. G., Konstanz Baden, Germany. Production of concentrated acetic acid. 1,647,676; Nov. 1.
- Von Sazenhofen, Ludwig F., Nuremberg, assignor to the Firm Karl Rohrseitz, Metallwarenfabrik, Zirndorf bei Nuremberg, Bavaria, Germany. Tool talking machine. 1,649,271; Nov. 15.
- Von Schlegel, Frederick. (See Timbs, E., Zerbe, and von Schlegel.)
- Von Schubert, Erich, Berlin, Germany, assignor to Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin, Friedenau, Germany. Device for taking photographs. 1,642,770; Jan. 14.
- Von Soden-Fraunhofen, Graf A., assignor, by mesne assignments, to the Firm: Zahnradfabrik Aktiengesellschaft, Friedrichshafen, Germany. Change-speed gear. 1,639,174; Aug. 16.
- Von Sprecken, Harry. (See Nash, R. E., and Von Sprecken.)
- Vontobel, Robert, Kilchberg, near Zurich, Switzerland. Procedure and contrivance for firmly attaching a metal case with a nipple adjusted in the same. 1,652,073; Dec. 6.
- Von Uffel, Herman, Philadelphia, Pa. Luminous phosphorescent and waterproof composition. 1,632,766; June 14.
- Von Vegesack, Arved E. G. T., Munkfors Bruk, Sweden. Manufacturing edge tools and special composition of steel for same. 1,644,097; Oct. 4.
- Von Weinberg, Arthur, Frankfurt-on-the-Main, and W. Schmidt, Eschheim, near Frankfurt-on-the-Main, Germany, assignors to G. Farbenindustrie Aktiengesellschaft. Production of new N-alkylcarbazolophosphonic acids. 1,648,207; Nov. 8.
- Von Zastrow, Curtis G., Chatham, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Signaling system. 1,647,767; Nov. 1.
- Von Zundel, J. A., and C. E. Whitman, Medford, Oreg. Toy parachute. 1,649,374; Nov. 15.
- Voohees, Gardner T., Boston, Mas. Cylinder-jacketing process and apparatus. 1,653,749; Dec. 27.
- Voorhees, Lee J., Binghamton, N. Y., assignor to National Carbon Company, Inc. Illuminating device. 1,613,069; Jan. 4.
- Voorsanger, Rebecca, San Francisco, Calif. Combination dress and apron. 1,647,385; Nov. 1.
- Voos, Frederick A., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum cleaner attachment. 1,638,564; Aug. 9.
- Vopel, Johannes, Berlin, Neukölln, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Carrier-frequency telegraph system. 1,634,060; June 28.
- Vopel, Johannes, Berlin-Mariendorf, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Multiplex alternating current telegraphy. 1,645,558; Oct. 18.
- Vordermark, Fredrick R., and G. Vordermark, Indianapolis, Ind. Fan. 1,638,379; Aug. 9.
- Vordermark, George. (See Vordermark, Fredrick R., and G.)
- Voreaux, Paul, assignor to Etablissements Sanget Bavois Reunis, Paris, France. Valveless pump. 1,645,834; Oct. 18.
- Voreaux, Paul, Paris, assignor to Société Anonyme Etablissements Sanga et Bavois Reunis, Paris, France. Hand-actuated air compressor. 1,651,913; Dec. 6.
- Vorel, Frank, assignor of one-half to E. Moravec, Cleveland, Ohio, and one-half to E. Moravec, New York, N. Y., assignor to E. Moravec, New York, N. Y. Valve. 1,647,592; Nov. 1.
- Vorress, Clyde L., and N. C. Turner, Charleston, W. Va., assignors to Gasoline Recovery Corporation. Vapor recovery. 1,616,242; Feb. 1.
- Vorhis, Robert R., et al. (See Egler, Nicklas F., assignors.)
- Vortex Mfg. Co. (See Anderson, J. W., and Rice, assignors.)
- Vortex Mfg. Co., The. (See Barberi, Cesare, assignor.)
- Vortex Mfg. Co., The. (See Curtin, David F., assignor.)
- Vortex Mfg. Co. (See Mangold, William B., assignor.)
- Vosbikian, Peter S. (See McCarthy, John W., assignor.)
- Vosbikian, Peter S. (See Vosbikian, Thomas S., and F. S.)
- Vosbikian, Thomas S., and P. S., Philadelphia, Pa. Automobile bumper. Des. 73,724; Oct. 25.
- Vosburgh, Edward, Passaic, N. J. Sorting machine. 1,625,438; Apr. 19.
- Vosburgh, John R., Johnston, N. Y. Traction device for vehicle tires. 1,619,170; Mar. 1.
- Vose, Edwin W., Beverly, Mass. Snowshoe and manufacturing same. 1,630,041; May 24.
- Vose, Edwin W., Beverly, Mass. Signal apparatus for automobiles. 1,636,024; July 19.
- Voss, Zeelman E., Boston, Mass. Making confections. 1,621,568; Mar. 22.
- Vosper, William W., assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio. Ratchet-threading tool. 1,628,757; May 17.
- Vosper, William W., assignor to The Toledo Pipe Threading Machine Co., Toledo, Ohio. Cutting-tool mounting and controller. 1,635,447; July 12.
- Voss, Arthur. (See Kränzlein, G., and Voss.)
- Voss, John H. (See Steinmeyer, H. A., and Voss.)
- Vosyka, Edward F. (See Grange, J. D., and Vosyka.)
- Vought, George F., Oakland, Calif., assignor to Economy Products Corporation. Corner bracket. 1,642,392; Sept. 13.
- Voyatzis, Steve, Detroit, Mich. Bumper. 1,618,394; Feb. 22.
- Voyer, E. O., et al. (See Anger, Joseph T., assignor.)
- Vreugdenhil, Adrianus, Amsterdam, Netherlands. Launching ships' boats. 1,613,367; Jan. 4.
- Vroman, Erwin C. (See Campbell, C. A., and Vroman.)
- Vroman, Erwin C., Watertown, N. Y., assignor to The New York Air Brake Company. Speed-responsive device. 1,638,718; Aug. 9.
- Vroom, Edward. (See Glezen, L. L., Shackleton, and Vroom.)
- Vroom, Edward, Ossining, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,639,967; Feb. 15.
- Vroom, Edward, Ossining, assignor to Western Electric Company, Incorporated, New York, N. Y. System for energizing and testing repeaters. 1,616,156; Feb. 1.
- Vroom, Edward, Ossining, assignor to Western Electric Company, Incorporated, New York, N. Y. Energizing electron tubes. 1,618,028; Feb. 15.
- Vroom, Edward, Ossining, assignor to Western Electric Company, Incorporated, New York, N. Y. Loop antenna. 1,642,522; Sept. 13.
- Vuilleumier, Albert, assignor to The New Departure Manufacturing Company, Bristol, Conn. Grinding machine. 1,624,642; Apr. 2.
- Vulcan Iron Works. (See Damon, George B., assignor.)
- Vulcan Iron Works. (See Moore, Roscoe, assignor.)
- Vulcan Last Company, The. (See Clausen, George, assignor.)
- Vulcan Last Company, The. (See Pollard, Carl I., assignor.)
- Vulcan Last Company, The. (See Quetzel, W. L., and Rhind, assignors.)
- Vulcan Last Company, The. (See Toulmin, Harry A., Jr., assignor.)
- Vulcan Radiator Company, The. (See Bergrström, Yngve E., assignor.)
- Vultä, Hermann T., New Rochelle, N. Y. Antiskid chain. 1,619,592; Mar. 1.

- W. & T. Avery, Limited. (See Benton, William A., assignor.)
- W. & T. Avery, Limited. (See Linley, Charles M., assignor.)
- Waagbo, Herman, Northport, Mich. Cream-testing device. 1,612,996; Jan. 4.
- Waal, George R., assignor to Crystal Fixture Co., Chicago, Ill. Leg for display stands or similar articles. Des. 71,857; Jan. 1.
- Wachs, E. H. Co. The. (See Wachs, Theodore, assignor.)
- Wachs, Theodore, assignor to The E. H. Wachs Co., Chicago, Ill. Leakage-controlling construction. 1,613,266; Jan. 4.
- Wachtel, Wilhelm, Berlin-Charlottenburg, Germany. Apparatus for transforming gelatinic colloids into globules or pearls. 1,614,636; Jan. 18.
- Wachtel, Wilhelm, assignor to the Firm Aktiengesellschaft für Chemische Produkte vormals H. Scheidemandel, Berlin, Germany. Obtaining solidified granules or pearls from liquids. 1,638,669; Aug. 9.
- Wachter, Johann H., New York, N. Y. Pattern for producing lacework. 1,630,681; May 21.
- Wachusett Shirt Company. (See Jones, G. W., and Roberson, assignors.)
- Wacker, George W., assignor to Pal Radio Company, North Bergen, N. J. Radio receiving apparatus. 1,631,993; Jan. 14.
- Wacker, William E. (See Goertz, F., and Wacker.)
- Wackerman, Charles S., Bridgeport, Conn. Narrow woven trimming. Des. 73,810; Nov. 8.
- Wackerman, Charles S., Bridgeport, Conn. Narrow woven trimming. Des. 73,811; Nov. 8.
- Wacknow, George L., Mellette, S. Dak. Wrench. 1,648,599; Nov. 8.
- Wackman, Louis B., St. Louis, Mo. Closure seat for metallic containers. 1,617,302; Feb. 8.
- Waddell, Benson F., New York, N. Y. Diaphragm for a radio loud speaker. Des. 73,833; Nov. 15.
- Waddell, Dean T., executor. (See Waddell, John M.)
- Waddell, Edward B., jr., Valley Junction, Iowa. Automatic grease feeder. 1,613,859; Jan. 11.
- Waddell & Hardesty. (See Hardesty, S., and Williams, assignors.)
- Waddell, Homer J., assignor to The Gas Appliance Manufacturing Co., Baltimore, Ohio. Diaphragm structure. 1,646,376; Oct. 18.
- Waddell, John, assignor to D. P. Battery Company Limited, Bakewell, England. Storage-battery cell and the like. Des. 16,548; Feb. 8.
- Waddell, John M., deceased; D. T. Waddell, executor, Greenfield, Ohio. Lever-actuating mechanism. 1,644,763; Oct. 11.
- Waddingham, Arthur G., Jackson Heights, assignor to Color Cinema Productions, Inc., New York, N. Y. Photographic transparency and coloring same. 1,633,652; June 23.
- Wade, Benjamin O. (See White, William, assignor.)
- Wade, Harold R., and L. M. Harley, assignors to Jas. H. Matthews & Company, Pittsburgh, Pa. Printing die. 1,637,094; July 26.
- Wade, Henry N., assignor to The Cutler Hammer Mfg. Co., Milwaukee, Wis. Electromagnetic switch. 1,646,943; Oct. 26.
- Wade, Verner M., and C. E. Zuppan, assignors to Fairmont Box Company, Fairmont, W. Va. Clutch mechanism. 1,643,356; Sept. 27.
- Wade, Verner M., and C. E. Zuppan, assignors to Fairmont Box Company, Fairmont, W. Va. Partition-assembling machine. 1,643,357; Sept. 27.
- Wade, Verner M., A. C. Zimmerman, and S. D. Heron, Dayton, Ohio. Liquid coating composition. 1,627,069; May 3.
- Wade, William P. (See Thomas, G. E., jr., Wade, and Ruwee.)
- Wadell, Albert H., Newark, N. J. Machine for boring the bearings of connecting rods. 1,634,389; July 5.
- Wadleigh, Theodore, Sorsors, Iowa. Concavate grinder burr. 1,651,425; Dec. 6.
- Wadley, Albert W., Yonkers, N. Y. Treeremover. 1,643,141; Sept. 20.
- Wadsworth, Arthur W., Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky. Dustproof guard. 1,627,471; May 3.
- Wadsworth Core Machine & Equipment Company, The. (See Hughes, Hugh T., assignor.)
- Wadsworth Electric and Manufacturing Company, The. (See Wadsworth, George B., assignor.)
- Wadsworth, Frank L. O., Pittsburgh, Pa. Spring suspension for vehicles. 1,622,622; Mar. 29.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Vehicle shock absorber. 1,622,553; Mar. 29.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Spring suspension system for motor vehicles. 1,622,891; Mar. 29.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Elastic suspension system for vehicles. 1,622,892; Mar. 29.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Spring suspension for vehicles. 1,623,986; Apr. 12.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Elastic-support system for vehicles. 1,624,643; Apr. 12.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Rotary drilling tool. 1,635,592; July 12.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Lubrication of rotary mechanism. 1,635,593; July 12.
- Wadsworth, George B., Covington, Ky. Electrical switch. 1,636,882; July 26.
- Wadsworth, George B., assignor to The Wadsworth Electric and Manufacturing Company, Covington, Ky. Electric switch. 1,614,052; Jan. 11.
- Wadsworth, George H. (See Welton, P. B., and Wadsworth.)
- Wadsworth, James M., Fort Worth, Tex. Carbon-revolving mechanism for stills. 1,624,083; Apr. 12.
- Wadsworth Mounting Co. Inc. (See Wadsworth, Wesley L., assignor.)
- Wadsworth Watch Case Company, The. (See Beebe, M. C., and Murray, assignors.)
- Wadsworth Watch Case Company. (See Bonhajo, David, assignor.)
- Wadsworth Watch Case Company, The. (See Conant, Arthur P., assignor.)
- Wadsworth Watch Case Company, The. (See Otten, Lawrence F., assignor.)
- Wadsworth Watch Case Company, The. (See Wadsworth, Arthur W., assignor.)
- Wadsworth, Wesley L., Brooklyn, assignor to Wadsworth Mounting Co. Inc., New York, N. Y. Folding screen. 1,635,199; July 12.
- Wadsworth, Wilbur H., Watertown, N. Y. Snowplow. 1,645,837; Oct. 18.
- Wadsworth, William W., Tremont, Utah. Can polishing and scouring machine. 1,638,606; Aug. 9.
- Waeclit, Walter E., et al. (See Weinaug, E., and Macfarlane, assignors.)
- Waele, Healey F., Hillsdale, N. J. Sheet-metal-layout tool. 1,636,025; July 19.
- Wagel, Srinivas R., New York, N. Y., assignor to The Leigh Coal and Navigation Company. Briquetting coal. 1,618,029; Feb. 15.
- Wagel, Srinivas R., New York, N. Y., assignor to The Leigh Coal and Navigation Company. Briquetting bituminous coal. 1,623,764; Apr. 5.
- Wagenchach, Anton, Elberfeld, Germany. Gripping device for bending machines. 1,644,555; Oct. 4.
- Wagener, William J. (See Cleary, W. F. and Wagener.)
- Wagenhorst, James H., Jackson, Mich. Vehicle wheel. 1,628,626; May 10.
- Wagenhorst, James H., Jackson, Mich. Vehicle wheel. 1,630,875; May 31.
- Wagenhorst, James H., Jackson, Mich. Cabinet for arc lamps. 1,641,308; Sept. 6.
- Wagenhorst, James H., Jackson, Mich. Automobile rim and fastening means. 1,646,777; Oct. 25.
- Wagenhorst, James H., Jackson, Mich. Device for operating transit rims. 1,651,077; Nov. 29.
- Wagenseller, Charles N., assignor to A. Mueller, trustee, Decatur, Ill. Faucet. 1,625,404; Apr. 19.
- Wagg, A. Hanley, Jr., Wapello, Iowa. Soldering iron. 1,630,090; May 31.
- Waggaman, William H. (See Brassert, H. A., Waggaman, and Easterwood.)
- Waggaman, William H., and H. W. Easterwood, Chicago Heights, assignors to Victor Chemical Works, Chicago, Ill. Production of phosphoric acid. 1,630,263; May 8.
- Waggner, Albert E., Glenview, assignor to Geo. W. Diener Mfg. Co., Chicago, Ill. Fire extinguisher. 1,623,510; Apr. 6.
- Waggoner, Lloyd B., San Diego, Calif. Hose coupling. 1,647,324; Nov. 1.
- Waggoner, Peter, Connaught, British Columbia, Canada. Smoke-extracting device for tunnels. 1,631,442; June 7.
- Wagner, Abraham L., assignor to A. L. Wagner Mfg. Co. Inc., New York, N. Y. Perfume atomizer or article of similar nature. Des. 73,113; July 19.
- Wagner, Abraham L., assignor to A. L. Wagner Mfg. Co. Inc., New York, N. Y. Perfume atomizer or article of similar nature. Des. 73,114; July 19.
- Wagner, Abraham L., assignor to A. L. Wagner Mfg. Co. Inc., New York, N. Y. Perfume atomizer or article of similar nature. Des. 73,115; July 19.
- Wagner, Abraham L., assignor to A. L. Wagner Mfg. Co. Inc., New York, N. Y. Perfume atomizer or article of similar nature. Des. 73,116; July 19.
- Wagner, Albert G., assignor to The Wemb Company, Cincinnati, Ohio. Gear-shifting mechanism. 1,643,728; Sept. 27.
- Wagner, Albert G., assignor to The Wemb Company, Cincinnati, Ohio. Gear-shifting mechanism. 1,643,729; Sept. 27.
- Wagner, Albert H., Bonner, Mont. Ripper head. 1,651,305; Nov. 29.
- Wagner, A. L., Mfg. Co. Inc. (See Schattman, Harry, assignor.)
- Wagner, A. L., Mfg. Co. Inc. (See Wagner, Abraham L., assignor.)
- Wagner, Alfred, Philadelphia, Pa., assignor to Gotham Silk Hosiery Company, Inc., New York, N. Y. Course-controlling attachment for knitting machines. 1,626,017; Apr. 26.
- Wagner, Alice M., et al. (See Wood, Joseph E., assignor.)
- Wagner, Aurea D., Atlantic City, N. J. Signal. 1,635,912; July 12.
- Wagner, Carleton S., Danville, Pa. Supporting structure. 1,621,649; Mar. 22.
- Wagner, Harold H., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Guide for cutting elevators. 1,646,129; Oct. 18.

- Wagner, Clarence, et al. (See Dougherty, Charles T., assignor.)
- Wagner, Claude E., and B. G. Hofer, Los Angeles, Calif. Marcelling iron. 1,625,440; Apr. 19.
- Wagner, Clinton D., Cedar Rapids, Iowa. Sheet-metal shear guide. 1,653,936; Dec. 27.
- Wagner, E. A., Mfg. Company. (See Tietjen, Diedrich W., assignor.)
- Wagner, Edward A., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,635,064; July 5.
- Wagner, Edward A., Pittsfield, Mass., assignor to General Electric Company. Electrical-apparatus core. 1,648,705; Nov. 8.
- Wagner, Edward F., assignor to The Studebaker Corporation, South Bend, Ind. Wood shaper. 1,615,983; Feb. 1.
- Wagner Electric Corporation. (See Weichsel, Hans, assignor.)
- Wagner, Emanuel, Tokod, Hungary. Stove and furnace. 1,648,976; Nov. 15.
- Wagner, Ervin C., Indianapolis, Ind. Basketball game. 1,619,279; Mar. 1.
- Wagner, Felipe J., née Cabezola, et al., executrices. (See Cabezola, Eusebio F.)
- Wagner, Frank, Los Angeles, Calif., assignor to Pittsburgh Valve and Fittings Company, Barborton, Ohio. Lighting fixture. Des. 74,129; Dec. 20.
- Wagner, Frank N., (See Eitman, K., and Wagner.)
- Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Liquid and gas contact apparatus. 1,637,975; Aug. 2.
- Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Liquid and gas contact apparatus. 1,638,670; Aug. 9.
- Wagner, Frederick P., Jr., assignor to H. Schultz & Company, Chicago, Ill. Receptacle. 1,651,169; Nov. 29.
- Wagner, Fritz, Berlin-Lichterfelde, Germany. Water-purifying system for locomotives. Rel.6,736; Nov. 22.
- Wagner, George N., Los Angeles, Calif. Circuit-closing device. 1,645,362; Oct. 11.
- Wagner, Georges E., St.-Etienne, France. Rotary percussion implement. 1,632,255; June 14.
- Wagner, Georges E., St.-Etienne, France. Balanced rotary percussion implement. 1,632,937; June 21.
- Wagner, Hermann, Höchst-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of azo dyestuffs, derived from 2-hydroxynaphthalene-3-carboxylic-acid-aryl-amides. 1,622,690; Mar. 29.
- Wagner, Hermann, Soden-on-the-Taunus, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Azo dye and producing same. 1,635,594; July 12.
- Wagner, Hermann, Soden-on-the-Taunus, and A. Funke, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Greenish-yellow azo dyestuff and making same. 1,644,003; Oct. 4.
- Wagner, Hermann, W. Laubeln, K. Beck, Höchst-on-the-Main, and K. Thiess, Sindlingen, near Höchst-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuffs and making same. 1,613,919; Jan. 11.
- Wagner, Hugh M., Dunlap, Tenn. Self-serving gasoline pump. 1,662,213; Dec. 13.
- Wagner, Joseph F., South Bend, Ind. Land-roller frame. 1,621,295; Mar. 15.
- Wagner, Joseph F., South Bend, Ind. Land roller and pulverizer. 1,624,084; Apr. 12.
- Wagner, Joshua, Brooklyn, N. Y. Carton. 1,620,174; Mar. 8.
- Wagner, Lawrence, Sedalia, Mo. Fish trap. 1,647,027; Oct. 25.
- Wagner, Louis, Berlin, Germany, assignor to Whiting-Patterson Co., Inc. Figured tissue paper. Des. 72,043; Feb. 15.
- Wagner, Louis, Berlin, Germany, assignor to Whiting-Patterson Co., Inc. Figured tissue paper. Des. 72,044; Feb. 15.
- Wagner, Louis, Berlin, Germany, assignor to Whiting-Patterson Co., Inc. Figured tissue paper. Des. 72,045; Feb. 15.
- Wagner, Louis, Berlin, Germany, assignor to Whiting-Patterson Co., Inc. Figured tissue paper. Des. 72,046; Feb. 15.
- Wagner, Louis, Berlin, Germany, assignor to Whiting-Patterson Co., Inc. Figured tissue paper. Des. 72,047; Feb. 15.
- Wagner Manufacturing Company. (See Lang, Philip, assignor.)
- Wagner, Marcel, Mulhouse, France. Roofing fastening. 1,638,671; Aug. 9.
- Wagner, Matthias A., Toledo, Ohio. Nursing-bottle container. 1,625,002; Apr. 19.
- Wagner, Norman, Hamilton, Ontario, Canada. Structural-steel joist. 1,634,127; June 28.
- Wagner, Ray M., et al. (See Dougherty, Charles T., assignor.)
- Wagner, Richard, Flint, Mich. Automobile hood latch. 1,631,508; June 7.
- Wagner, Rudolf, Hamburg, Germany. Counterpropeller for air propeller-driven craft. 1,646,507; Oct. 25.
- Wagner, Stephan, New York, N. Y. Electric cigarette lighter. 1,653,751; Dec. 27.
- Wagner, Theodore B., Brooklyn, N. Y., and C. A. Glabau, Hasbrouck Heights, N. J. Producing leavened dough products. 1,649,144; Nov. 15.
- Waglere, August L., Los Angeles, Calif. Sash-balancing device. 1,626,018; Apr. 26.
- Wagoner, John E., Trout Creek, Mont., assignor of one-third to E. H. Maloney and one-third to W. C. Lane, Spokane, Wash. Snow remover. 1,618,835; Feb. 8.
- Wagoner, Todd L., Salina, Kans. Rug-renovating machine. 1,624,293; Apr. 12.
- Wahl, Charles F., Wilmington, Del. Screw driver. 1,616,070; Feb. 1.
- Wahl Clipper Corporation. (See Wahl, Leo J., assignor.)
- Wahl Company, The. (See Back, R., and Cooper, assignors.)
- Wahl Company, The. (See Funk, Charles J., assignor.)
- Wahl Company, The. (See Johnson, J. B., assignor.)
- Wahl Company, The. (See Poole, Arthur F., assignor.)
- Wahl Company, The. (See Tefft, Ivan D., assignor.)
- Wahl Company, The. (See Wahl, John C., assignor.)
- Wahl, John, Rosedale, and O. Melzer, Hollis, assignors to A. Schrader's Son, Inc., Brooklyn, N. Y. Gauge. 1,633,145; June 21.
- Wahl, John, Rosedale, and O. Melzer, Hollis, assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Combined wrench and infating mechanism. 1,652,846; Dec. 13.
- Wahl, John, and O. Melzer, assignors to A. Schrader's Sons, Inc., Brooklyn, N. Y. Wrench mechanism. 1,648,430; Nov. 8.
- Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 1,613,510; Jan. 11.
- Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Pen and nib and producing same. 1,613,812; Jan. 11.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Fountain pen. 1,624,194; Apr. 12.
- Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 1,637,363; Aug. 2.
- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. 1,648,667; Nov. 8.
- Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 1,650,751; Nov. 29.
- Wahl, Leo J., assignor to Wahl Clipper Corporation, Sterling, Ill. Motor. 1,615,604; Jan. 25.
- Wahl, Leo J., assignor to Wahl Clipper Corporation, Sterling, Ill. Vibrator mechanism. 1,622,298; Mar. 29.
- Wahl, Leo J., assignor to Wahl Clipper Corporation, Sterling, Ill. Vibrator. 1,623,957; Apr. 12.
- Wahl, Leo J., Sterling, assignor to Wahl Clipper Corporation, Sterling, Ill. Self-regulating device for electromagnetic clippers. 1,626,058; Apr. 26.
- Wahlberg, John, New York, N. Y. Phonograph. 1,628,269; May 10.
- Wahlberg, Nils E., assignor to Nash Motors Company, Kenosha, Wis. Brake mechanism for steering wheels. 1,634,474; July 5.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator connector. 1,645,266; Oct. 11.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Link-type insulator. 1,652,506; Dec. 13.
- Wahlstrom, Charles G., Dallas, Tex. Triple-acting, force, suction, and vacuum pump. 1,613,147; Jan. 4.
- Wahrt, William, Brooklyn, N. Y. Massage apparatus. 1,650,149; May 24.
- Waldanz, Erwin, Chicago, Ill. Combined toilet article. 1,650,167; Nov. 22.
- Wainwright, Joseph E., Brooklyn, N. Y. Spring compressor and replacer. 1,614,218; Jan. 11.
- Wainwright, Nolan W., Toledo, Ohio. Safety signal device. 1,649,997; Nov. 22.
- Wainwright, William W., Tacoma, Wash. Electric water heater. 1,620,745; Mar. 15.
- Wais, Albert C. (See Wais, Charles C., assignor.)
- Wais, Charles C., Cincinnati, assignor of one-half to A. C. Wais, Wyoming, Ohio. Vehicle wheel. 1,646,508; Oct. 25.
- Wais, Charles C., Cincinnati, assignor of one-half to A. C. Wais, Wyoming, Ohio. Safety window seat. 1,646,509; Oct. 25.
- Wais, Charles C., Cincinnati, assignor of one-half to A. C. Wais, Wyoming, Ohio. Pneumatic tire for vehicle wheels. 1,647,205; Nov. 15.
- Waisman, Abraham, St. Louis, Mo. Garment retainer. 1,626,218; Apr. 26.
- Walt, Bertrand H., New Rochelle, N. Y. Pavement and process of constructing pavements. 1,628,482; May 10.
- Walt, Bertrand H., New Rochelle, N. Y. Pavement and constructing pavements. 1,650,554; Nov. 22.
- Walt, John C., administrator. (See Lowenstein, Fritz.)
- Walt, Justin F., New York, N. Y., assignor to National Aniline & Chemical Co., Inc. Producing sodamide. 1,646,372; Oct. 18.
- Walton, John, Wilkesburg, Pa., assignor of one-half to F. Lasavich, La Porte, Ind. Window lock. 1,620,705; Mar. 15.
- Waite Carpet Company. (See Waite, Philip C., assignor.)
- Waite, Frank H., Long Island City, N. Y. Muffler and sanding device. 1,646,130; Oct. 18.

- Waite, Frank H., and G. W. Davey, Long Island City, N. Y. Air-cooled furnace structure. 1,646,603; Oct. 25.
- Waite, Frank H., and G. W. Davey, Long Island City, N. Y. Furnace wall. 1,646,944; Oct. 25.
- Waite, Frank H., and G. W. Davey, Long Island City, N. Y. Furnace. 1,647,160; Nov. 1.
- Waite, Frank H., and G. W. Davey, Long Island City, N. Y. Furnace construction. 1,647,161; Nov. 1.
- Waite, Frank H., and G. W. Davey, Long Island City, N. Y. Furnace construction. 1,647,488; Nov. 1.
- Waite, Harry F. (See Garretson, Harry D., assignor.)
- Waite, Philip C., assignor to Walcott Carpet Company, Oshkosh, Wis. Strand for rugs. 1,651,649; Dec. 6.
- Waltkus, Vincent, Baltimore, Md. Yarn cleaner. 1,628,523; May 10.
- Waltt, George L., Buffalo, N. Y. Chaplet for molding. 1,616,772; Feb. 8.
- Watt, Walter G. (See Deibel, C. P., and Watt.)
- Wakefield, C. C., and Company, Limited. (See Appleby, James A., assignor.)
- Wakefield, F. W., Brass Company, The. (See Wakefield, F. W., Basil, and Schroeder, assignors.)
- Wakefield, Frank E., assignor to Illinois Watch Case Company, Elgin, Ill. Receptacle for ashes and the like. 1,615,968; Feb. 1.
- Wakefield, Frank E., assignor to Illinois Watch Case Company, Elgin, Ill. Watch. 1,645,633; Oct. 18.
- Wakefield, Frederick W., G. L. Basil, and C. A. Schroeder, assignors to The F. W. Wakefield Brass Company, Vermillion, Ohio. Lighting fixture. 1,620,806; Mar. 8.
- Wakefield, Walter H. (See Blanchard, H. L., and Wakefield.)
- Wakefield, Walter H. (See Hoffman, L. F., and Wakefield.)
- Wakefield, Walter H. (See Holmes, E. R., and Wakefield.)
- Wakefield, Walter H. (See Unwin, K. J., and Wakefield.)
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Reversing motion for loom let-offs. 1,620,175; Mar. 8.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Dobby finger for looms. 1,620,176; Mar. 8.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multiple-weave motion for loom dobbies. 1,621,045; Mar. 15.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Balancing let-off for looms. 1,628,815; May 17.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling stop motion for looms. 1,633,653; Mar. 28.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Chain control for Axminster looms. 1,633,654; June 28.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Box-motion-controlled electromagnetic weft detector. 1,639,822; Aug. 23.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Yarn-impinging lay-actuated weft detector controlled by box motion. 1,639,823; Aug. 23.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector controlled by pattern mechanism. 1,639,824; Aug. 23.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for box looms. 1,643,432; Sept. 27.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. 1,647,718; Nov. 1.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic weft detector controlled by box motion. 1,647,719; Nov. 1.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrical weft detector controlled by box motion. 1,647,720; Nov. 1.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Yarn-impinging detector controlled by active shuttle. 1,651,108; Nov. 29.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrical weft detector controlled by box motion. 1,651,109; Nov. 29.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Detector for bobbins with rings controlled by box motion. 1,651,565; Dec. 6.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Uniformly-tensioned reversing motion for loom let-offs. 1,651,566; Dec. 6.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lock for harness jacks of Knowles looms. 1,652,582; Dec. 13.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Withdrawing means for side-slip weft detectors. 1,652,593; Dec. 13.
- Wakeman, Frank M., Lisbon Falls, Me. Baking pies. 1,626,316; Apr. 26.
- Walschek, Samuel J., New York, N. Y. Clothesline connection. 1,620,928; Mar. 15.
- Walsh, Bernard E., Worcester, Mass. Cigar and cigarette holder. 1,628,937; May 17.
- Walch, Ceylon C., Syracuse, N. Y. Attachment for lanterns. 1,650,809; Nov. 29.
- Walch, Jacob S., Oakland, Calif. Lifting device. 1,628,084; May 10.
- Walch, Jacob S., Oakland, Calif. Ditch-digging machine. 1,639,871; Aug. 23.
- Walcher, Frederick, Chicago, Ill. Swimming board or life preserver. 1,653,974; Dec. 27.
- Walck, Paul, Frankfort-on-the-Oder, Germany. Organ. 1,622,931; Mar. 29.
- Walcker, Paul, Frankfort-on-the-Oder, Germany. Electrical controlling means for organs. 1,650,555; Nov. 22.
- Walcott, Frank B. (See McFarland, John H., assignor.)
- Wald Manufacturing Company. (See Pawsat, Ewald F., assignor.)
- Walde, Rudolf. (See Bauer, G., Walde, and Kluge.)
- Walden-Wooster Incorporated. (See Shedd, Charles A., assignor.)
- Walden-Wooster, Incorporated. (See Bellows, Warren S., assignor.)
- Walden-Wooster, Inc. (See Carlberg, August E., assignor.)
- Walden-Wooster, Inc. (See Critchley, James V., assignor.)
- Walden-Wooster, Incorporated. (See Enberg, Stone R., assignor.)
- Walden, John, assignor to C. De Martin, Union City, N. J. Embroidered lace. Des. 74,157; Dec. 27.
- Walheim, J., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,651,050; Nov. 29.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Work-web feeder for typewriting machines. 1,615,894; Feb. 1.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Work magazine for typewriting machines. 1,616,071; Feb. 1.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,617,468; Feb. 15.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,617,695; Feb. 15.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,617,930; Feb. 15.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,619,045; Mar. 1.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,620,988; Mar. 15.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,621,613; Mar. 22.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,624,697; Apr. 12.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,626,989; May 3.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,626,990; May 3.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,631,565; June 7.
- Walheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,633,194; Dec. 20.
- Waldman, Clemens. (See Zeller, O., and Waldman.)
- Waldo, George W., Brooklyn, N. Y. Internal-combustion engines. 1,629,327; May 17.
- Waldorf Astoria Service Corporation. (See Carney, Joseph F., assignor.)
- Waldref, Grant. (See Riach, Henry J., assignor.)
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, Liverpool, England. Grinding and polishing glass and apparatus therefor. 1,621,296; Mar. 15.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, Liverpool, England. Polishing glass and apparatus therefor. 1,621,297; Mar. 15.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, Liverpool, England. Method and apparatus for producing a continuous strip of glass. 1,622,817; Mar. 29.
- Waldron, John, Corporation. (See Francke, William J., assignor.)
- Wales Adding Machine Company. (See Gleim, Ferdinand, assignor.)
- Wales, Charles. (See Fay, J. W., and Wales.)
- Wales, Nathaniel B., New York, N. Y. Refrigeration. 1,613,687; Jan. 11.
- Wales, Reginald C., Chicago, Ill. Compass. 1,616,935; Feb. 8.
- Wales, Thomas E., San Francisco, Calif. Manufacturing and sales in wire form. 1,649,623; Nov. 15.
- Walinsky, Ossip J., Sea Gate, N. Y., assignor to White Luggage Co. Inc., New York, N. Y. Suitcase. Des. 72,392; Apr. 5.
- Walinsky, Ossip J., Sea Gate, assignor to White Luggage Co. Inc., New York, N. Y. Hand bag. Des. 72,403; Apr. 12.
- Walinsky, Ossip J., Sea Gate, assignor to White Luggage Co. Inc., New York, N. Y. Luggage carrier. 1,624,897; Apr. 12.

- Walinsky, Ossip J., Sea Gate, assignor to White Luggage Co. Inc., New York, N. Y. Article of luggage. 1,625,439; Apr. 19.
- Walinsky, Ossip J., Sea Gate, assignor to White Luggage Co. Inc., New York, N. Y. Hatbox. 1,636,675; July 19.
- Walinsky, Ossip J., Sea Gate, assignor to White Luggage Co. Inc., New York, N. Y. Luggage. 1,643,397; Sept. 27.
- Walinsky, Ossip J., Sea Gate, N. Y., assignor to White Luggage Co. Inc., New York, N. Y. Luggage. 1,650,672; Nov. 29.
- Walinsky, Ossip J., Sea Gate, assignor to White Luggage Co. Inc., New York, N. Y. Suitcase. Des. 73,812; Nov. 8.
- Walsh, Markus, Endicott, N. Y. Refrigerator. 1,620,177; Mar. 8.
- Walkee Toy & Novelty Co. (See Dahlstrom, John J., as signor.)
- Walker, Albert B. (See Court, F. T., and Walker.)
- Walker, Arthur C., Roanoke, Va. Hand stamp. 1,645,267; Oct. 11.
- Walker, Arthur W., Conway, Mo., assignor of one-fourth to C. N. Finn, Conway, Ark. Safety envelope. 1,637,884; Aug. 2.
- Walker, Berry B., Mineral Wells, Tex. Combined cane and gun. 1,613,593; Jan. 4.
- Walker, Carl C., Germany. Raising fillet for raising machines. 1,622,893; Mar. 29.
- Walker, Charles H., East Liverpool, Ohio. Dish or similar article. Des. 71,991; Feb. 8.
- Walker, Charles H., East Liverpool, Ohio. Cup or similar article. Des. 72,248; Mar. 15.
- Walker, Charles I., Los Angeles, Calif. Indicator. 1,648,287; Nov. 8.
- Walker, Charles J., Gary, Ind. High chair. 1,617,882; Feb. 15.
- Walker, Clinton L., Piedmont, Calif. Piston. 1,652,385; Dec. 13.
- Walker & Co. (See Townsend, Otto H., assignor.)
- Walker, Cynthia S. C., executrix. (See Walker, Samuel L.)
- Walker, David D. (See Aikens, Thomas N., assignor.)
- Walker, David L., Vancouver, British Columbia, Canada. Wall construction for refrigerators. 1,650,168; Nov. 22.
- Walker, David L., et al. (See Modlin, Frank E., assignor.)
- Walker, Earl, Daykin, Nebr. Automatic water-distribution control. 1,628,698; May 17.
- Walker, Edmund, Willows, Calif. Combination screw driver and starter. 1,643,438; Sept. 27.
- Walker, Edmund H., New York, N. Y. Draft gear. 1,621,964; Mar. 22.
- Walker, Edward C., St. Louis, Mo., assignor to National Lead Company, New York, N. Y. Barrel. 1,652,962; Dec. 13.
- Walker, Edwin O., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Selector switch. 1,640,885; Aug. 30.
- Walker, Elizabeth M., Minneapolis, Minn., now, by marriage, E. M. Rogers, Builder board. 1,648,706; Nov. 8.
- Walker, Ernest A. (See Bath, J., and Walker.)
- Walker, Eugene F., assignor to Pioneer Slaughtering Device Company, Kansas City, Mo. Bleeding appliance. 1,644,698; Oct. 4.
- Walker, Florence B., Marcellus, N. Y. Toy or doll house construction. 1,629,424; May 17.
- Walker, Frank E. (See Spencer, A. B., and Walker.)
- Walker, George, Newton, Mass. Ship's instrument. 1,638,970; Aug. 16.
- Walker, George, Newton Center, Mass. Distance indicator for ships, etc. 1,638,971; Aug. 16.
- Walker, George, Newton Center, Mass. Ship's instrument. 1,638,972; Aug. 16.
- Walker, George, Newton Center, Mass. Distance-measuring apparatus for ships, etc. 1,638,973; Aug. 16.
- Walker, George A., Waukesha, Wis. Ventilating shade. 1,615,296; Jan. 25.
- Walker, George D., Morgan City, La., assignor to The Texas Company, New York, N. Y. Bundle-tying machine. 1,632,324; June 14.
- Walker, George H., assignor to Heenan and Froude Limited, Worcester, England. Absorption brake dynamometer. 1,627,586; May 10.
- Walker, George L., assignor to Air Reduction Company, Incorporated, New York, N. Y. Cutting tip or the like. 1,624,377; Apr. 12.
- Walker, George L., assignor to Air Reduction Company, Incorporated, New York, N. Y. Torch mixer. 1,651,854; Dec. 6.
- Walker, George S. (See Cook, C. C., and Walker.)
- Walker, George T., Milwaukee, Wis. Apparatus for crystallizing liquids. 1,615,151; Jan. 18.
- Walker, George T., Minneapolis, Minn. Crystallizing liquids. 1,644,161; Oct. 4.
- Walker, George W. (See Dhume, Ross and R., assignors.)
- Walker, Gus, Huntington, W. Va. Frake. 1,641,912; Sept. 6.
- Walker, Harold N. (See Mattern, P. J., and Walker.)
- Walker, Harold W. (See Gehani, B., and Walker.)
- Walker, Harold W., Edgewood, Md. Manufacture of arsenate insecticides. 1,629,557; May 24.
- Walker, Harry, assignor to National Manufacturing Company of America, Oil City, La. Coin-controlled apparatus. 1,652,919; Dec. 13.
- Walker, Harry, assignor to National Manufacturing Company of America, Oil City, La. Valve for automatic musical instruments. 1,652,963; Dec. 13.
- Walker, Harry R., St. Louis, Mo. Oil burner. 1,645,559; Oct. 18.
- Walker, Harvey A., assignor of one-half to D. A. Summers, Brinkman, Okla. Portable electric light. 1,657,964; Dec. 13.
- Walker, Henry B., assignor to The Fairfield Engineering Company, Marion, Ohio. Truck. 1,635,018; July 5.
- Walker, Henry K., London, England. Hollow pole. 1,638,516; Aug. 9.
- Walker, Henry L., Ardmore, Pa. Electrical wiring system. 1,626,570; Apr. 26.
- Walker, Hiram L., assignor to Chandler Cleveland Motors Corporation, Cleveland, Ohio. Flexible driving coupling. 1,636,725; July 26.
- Walker, Homer P., Beaumont, Tex. Butt-cutting machine. 1,626,770; May 3.
- Walker, Howard G., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for coating cores. 1,615,423; Jan. 25.
- Walker, Howard G., Berwyn, and A. T. March, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Coating cores. 1,615,416; Jan. 25.
- Walker, Howard G., Berwyn, and A. T. March, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Machine for coating cores. 1,615,417; Jan. 25.
- Walker, Howard G., Berwyn, and A. T. March, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for coating cores. 1,615,419; Jan. 25.
- Walker, Howard G., Berwyn, and A. T. March, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method and means for coating cores. 1,615,421; Jan. 25.
- Walker, Howard G., Berwyn, and A. T. March, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for coating cores. 1,615,422; Jan. 25.
- Walker, Howard G., Berwyn, and A. T. March, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for coating cores. 1,615,424; Jan. 25.
- Walker, Howard G., Berwyn, and A. T. March, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Coated core. 1,615,425; Jan. 25.
- Walker, Howard G., La Grange, and A. T. March, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for coating cores. 1,615,418; Jan. 25.
- Walker, Howard G., La Grange, and A. T. March, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Machine for coating cores. 1,615,420; Jan. 25.
- Walker, Howard G., La Grange, and A. T. March, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working pulpos material. 1,615,426; Jan. 25.
- Walker, James, assignor of one-fourth to F. O. Donnell, Elizabeth, N. J. Tube expander. 1,638,422; Aug. 9.
- Walker, James W., Memphis, Tenn. Cultivator. 1,632,638; June 14.
- Walker, Jerome E., Spartanburg, S. C. Segmental fly-wheel gear. 1,645,268; Oct. 11.
- Walker, John, et al. (See Lewis, Claude L., assignor.)
- Walker, John C. (See Born, S., Bonnette, and Walker.)
- Walker, Joseph D., Whitesburg, Tenn. Fountain brush. 1,615,104; Jan. 18.
- Walker, Joseph D., Whitesburg, Tenn. Plant protector. 1,616,290; Feb. 1.
- Walker, Littleton W., Arlington, Va. Combined wheel scraper and brace for wheelbarrows. 1,648,374; Nov. 8.
- Walker Manufacturing Company. (See Dearsley, Irwin E., assignor.)
- Walker Manufacturing Company. (See McCaughey, Glen F., assignor.)
- Walker, Margaret W., Wyncote, Pa. Baby spoon. 1,625,003; Apr. 19.
- Walker, Maurice, New York, N. Y. Spindle carriage and clutch. 1,620,844; Mar. 15.
- Walker, Maurice, Brookline, Mass. Bottle. Des. 72,973; June 28.
- Walker, Milton H., Newark, N. J. Toilet kit. 1,641,650; Sept. 6.
- Walker, Murphy E., Austin, Tex. Meat grinder. 1,623,141; Apr. 5.
- Walker & Pratt Manufacturing Company. (See Patterson, Ralph J., assignor.)
- Walter, Richard, Dusseldorf, Germany. Desulphurizing molten metal and briquettes used therefor. 1,651,492; Dec. 6.
- Walker, Richard A., Skidmore, Mo. Oil filter. 1,630,504; Mar. 31.
- Walker, Robert J. (See Appellan, H. G., and Vanhoren, assignors.)
- Walker, Robert J. (See Bernon, Maurice L., assignor.)
- Walker, Robert J., Glasgow, Scotland. Golf club. 1,652,694; Dec. 13.

- Walker, Robert N., Winston-Salem, N. C. File 1,615,427; Jan. 25.
- Walker, Robert N., Winston-Salem, N. C. File 1,648,082; Nov. 8.
- Walker, Samuel L., deceased, Charleston W. Va.; C. S. C. Walker, executrix. Thermometer attachment 1,651,490; Dec. 6.
- Walker, Walter W., Fort Ringgold, Tex. Washing machine. 1,647,893; Nov. 1.
- Walker, Warren R., Bloomfield, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Switching arrangement for electric heater circuits. 1,630,232; May 24.
- Walker, Warren R., Bloomfield, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric switch. 1,638,132; Aug. 9.
- Walker, Warren R., Bloomfield, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Rotating cylindrical glass mercury switch. 1,638,133; Aug. 9.
- Walker, Warren R., New Dorp, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Liquid-flow time switch. 1,638,130; Aug. 9.
- Walker, Warren R., Great Kills, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric switch. 1,638,131; Aug. 9.
- Walker, William D., Sacramento, Calif. Casing for dice-throwing machine. Des. 73,826; Oct. 11.
- Walker, William H., Blue Island, assignor to Mackie-Lovejoy Manufacturing Co., Chicago, Ill. Curling iron. 1,645,465; Oct. 11.
- Walker, William J. (See Brauns, W., and Walker.)
- Walker, William M., assignor of one-half to J. Erickson, Seattle, Wash. Plastic-concrete-delivery vehicle. 1,641,913; Sept. 6.
- Walkup, George M., Minneapolis, Minn. Window structure. 1,623,078; Apr. 5.
- Wall, Harold, Salt Lake City, Utah. Aerator for flotation ore separators. 1,642,051; Sept. 13.
- Wall, James E., et al. (See Fenner, George E., assignor.)
- Wall, Samuel A., and E. A. Boyd, Greenville, S. C. Automobile signal. 1,622,361; Mar. 29.
- Wall, Thomas, assignor to Gregory Furniture Mfg. Co., Tacoma, Wash. Apparatus for operating extension tables. 1,639,825; Aug. 23.
- Wall, William G. (See Crawford, C. S., and Wall.)
- Wall, William G., assignor to Rectifier Manufacturing Company, Indianapolis, Ind. Oil rectifier. 1,628,085; May 10.
- Wallace, Albert, Los Angeles, Calif. Clothes-drying rack 1,616,097; Feb. 1.
- Wallace, Alexander, New Rochelle, N. Y. Adjustable mirror support. 1,622,554; Mar. 29.
- Wallace, Bert A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,617,911; Feb. 15.
- Wallace, Charles F., Westfield, N. J., assignor to The Bassick Manufacturing Company, Chicago, Ill. Grease container. Ref. 6,787; Nov. 22.
- Wallace, Charles F., Westfield, assignor to Wallace & Tierman Products, Belleville, N. J. Stand for posters. 1,631,608; June 7.
- Wallace, Claude W. (See Barron, Randolph M., assignor.)
- Wallace, David A., assignor, by mesne assignments, of two-thirds to Gem Doughnut Machine Company, Waterloo, Iowa. Hamburger press. 1,648,834; Nov. 8.
- Wallace, David R., Joplin, Mo. Telephone receiver. 1,643,104; Dec. 26.
- Wallace, Frank W., assignor of one-half to W. G. Oehmig, Chattanooga, Tenn. Vibratory mixer. 1,632,718; June 14.
- Wallace, George L., San Diego, Calif. Water-heater vent-pipe ceiling device. 1,619,885; Mar. 1.
- Wallace, George W., San Francisco, Calif. Making activated carbon. 1,639,356; Aug. 16.
- Wallace, George W., San Francisco, Calif. Carbonizing apparatus. 1,639,390; Aug. 16.
- Wallace, George W., San Francisco, Calif. Distilling and gasifying solid carbonaceous fuel. 1,639,391; Aug. 16.
- Wallace, George W., San Francisco, Calif. Carbonizing fuel. 1,639,417; Aug. 16.
- Wallace, George W., San Francisco, and H. K. Ihrig, Berkeley, Calif., said Ihrig assignor to said Wallace. Control system. 1,624,294; Apr. 12.
- Wallace, George W., San Francisco, and H. K. Ihrig, Berkeley, Calif., said Ihrig assignor to said Wallace. Process of and apparatus for distilling oil. 1,650,169; Nov. 22.
- Wallace, Halbert C., Kansas City, Mo. Extension feeder. 1,638,075; Aug. 9.
- Wallace, Herbert A., Pittsburgh, Pa. Railway-traffic-governing apparatus. 1,650,575; Nov. 22.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,624,125; Apr. 12.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,624,520. Apr. 12.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,624,486; Apr. 26.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,626,895; May 3.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,628,290; May 10.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,629,187; May 17.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,636,026; July 19.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,638,178; Aug. 9.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,639,544; Aug. 16.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,642,052; Sept. 13.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for transmitting code impulse combinations. 1,645,122; Oct. 11.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,649,629; Nov. 15.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,653,680; Dec. 27.
- Wallace, Hugh. (See Fitzsimmons, J. T., and Wallace.)
- Wallace, Hugh, (See Hunt, J. H., and Wallace.)
- Wallace, Hugh, assignor to General Motors Research Corporation, Dayton, Ohio. Liquid pump. 1,637,669; Aug. 2.
- Wallace, Hugh, assignor to General Motors Research Corporation, Dayton, Ohio. Pump. 1,640,741; Aug. 30.
- Wallace, Hugh, and J. H. Hunt, assignors to General Motors Research Corporation, Dayton, Ohio. Pump. 1,640,742; Aug. 30.
- Wallace, James, Afton, Mo. Vehicle rim. 1,621,614; Mar. 22.
- Wallace, Marcel, assignor to Electro-Laboratories, Inc., New York, N. Y. Radio receiving apparatus. 1,627,758; May 10.
- Wallace, R., & Sons Mfg. Co. (See Ball, Percy B., assignor.)
- Wallace, R., & Sons Mfg. Co. (See Warren, William S., assignor.)
- Wallace, Raymond H., Livermore, Iowa. Supporting life in living organisms in sealed containers and device therefor. 1,621,818; Mar. 22.
- Wallace, Robert G., Ben Avon, assignor to National Fire Proofing Company, Pittsburgh, Pa. Wall construction. 1,631,659; June 7.
- Wallace, Robert L., Los Angeles, Calif. Means to prevent reverse rotation of a rotary member. 1,641,890; Sept. 6.
- Wallace, Robert L., Los Angeles, Calif. Means to prevent reverse rotation of rotary members. 1,641,463; Sept. 6.
- Wallace, Robert L., Los Angeles, Calif. Means to prevent reverse rotation of rotary members. 1,641,464; Sept. 6.
- Wallace, Robert S., Fitchburg, Mass. Grip for golf clubs. 1,617,972; Feb. 15.
- Wallace & Tierman Products. (See Wallace, Charles F., assignor.)
- Wallace, William H., Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Spring Corporation, Detroit, Mich. Vehicle spring. 1,630,364; May 31.
- Wallace, William H., Cleveland, Ohio. Pliers. 1,652,223; Dec. 13.
- Wallace, William S., et al., trustees. (See Davis, Kenneth, assignor.)
- Wallace, William S., et al., trustees. (See Peale, Richard, assignor.)
- Wallace, William T., Webster Groves, Mo. Toy. 1,641,209; Sept. 6.
- Wallace, William W., Chicago, Ill., assignor to New York Brick Handling Corporation, New York, N. Y. Inverter. 1,644,407; Oct. 4.
- Wallace, William W., Chicago, Ill., assignor to New York Brick Handling Corporation, New York, N. Y. Apparatus for loading brick into box cars. 1,645,863; Oct. 11.
- Wallace, William W., Chicago, Ill., assignor to New York Brick Handling Corporation, New York, N. Y. Lifting fork. 1,651,791; Dec. 6.
- Wallbilich, Anthony F., Newark, N. J., assignor to Distance-Speed Recording Company. Drive for speed-responsive instruments. 1,634,565; July 5.
- Walle, Ludvig S., Scotia, N. Y., assignor to General Electric Company. Centrifugal mechanism for electric switches and other apparatus. 1,654,518; Dec. 27.
- Wallenbeck, William G., Chicago, Ill. Razor. 1,643,757; Sept. 27.
- Wallenbeck, Axel E. H., Vasterlosa, Sweden. Thrashing machine. 1,624,126; Apr. 12.
- Waller, Alfred E., Bronxville, N. Y., assignor to Ward Leonard Electric Company. Rheostat. 1,631,168; June 7.

- Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Control for steam turbines. 1,625,004; Apr. 19.
- Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Governing means for turbines. 1,630,725; May 31.
- Walsh, Edwin A., Chicago, Ill. Color-printing compensator. 1,643,324; Sept. 27.
- Wallerich, George W., Chicago, Ill. Heat-therapy method and mean. 1,620,929; Mar. 15.
- Wallerich, George W., Chicago, Ill. Electrical therapeutic device. 1,635,878; June 28.
- Wallerstein Company, (See Wallerstein, Leo, assignor.)
- Wallerstein, Leo, assignor to Wallerstein Company, Inc., New York, N. Y. Degumming silk. 1,644,764; Oct. 11.
- Wallgren, Carl G., et al. (See Gerau, George B., assignor.)
- Wallin, Gustaf A., Brooklyn, N. Y., assignor to A. Kimball Company, New York, N. Y. Marking ticket. 1,635,868; July 12.
- Wallin, Luther, et al. (See Allensworth, J. N., Keltner, and Collins, assignors.)
- Wallin, Philip, assignor to The Timken Roller Bearing Company, Canton, Ohio. Taper-gauging machine. 1,627,350; May 3.
- Walling, Frederick J., Cape May, N. J. Agricultural implement. 1,616,341; Feb. 1.
- Walling, Henry E., Electra, Tex. Gauge cock. 1,618,119; Feb. 15.
- Walsh, Barnes N., assignor to Airship Guarantee Company, Limited, Westminster, London, England. Lighter-than-air aircraft. 1,630,726; May 31.
- Wallis, Barnes N., and C. D. Burney, Westminster, assignors to Airship Guarantee Company, Limited, London, England. Lighter-than-air aircraft. 1,637,432; Aug. 2.
- Wallis, George L., Bromley, England. Motor cycle. 1,631,443; June 7.
- Wallis, Henry E., and C. T. Kingston, Detroit, Mich. Boiler. 1,619,171; Mar. 1.
- Wallman, Hulda, New York, N. Y. Headdress. 1,638,756; Aug. 9.
- Wallock, Frank A., Seattle, Wash. Combined hot-air screen and deflector. 1,640,630; Aug. 30.
- Wallos, Joseph, Washington, D. C. Making caramelized flour. 1,650,608; Nov. 22.
- Walls, Bert T. (See Peterson, G. W., and Walls.)
- Walstrom, Ludwig, Lima, Peru. 1,625,381; Apr. 19.
- Walp, Charles F., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Punch press. 1,649,427; Nov. 15.
- Walraven, Albert T. (See Thompson, Albert F., assignor.)
- Walsh, Austin, New York, N. Y. Telescopic hatband. 1,619,007; Mar. 1.
- Walsh, Bessie M., Bellingham, Wash. Ear protector. 1,651,650; Dec. 6.
- Walsh, Clarence F., Dickens, Iowa. Farrowing house for sows. 1,644,212; Oct. 4.
- Walsh, Cornelius S., Los Angeles, Calif. Device for finishing concrete surfaces. 1,623,142; Apr. 5.
- Walsh, Delmar A., Kansas City, Mo. Resilient wheel. 1,642,133; Sept. 13.
- Walsh, Harrie H., assignor to Kay Sign Company, Chicago, Ill. Advertising-projecting device. 1,619,096; Mar. 1.
- Walsh, James J., Kansas City, Mo. Adjustable waist pattern. 1,628,348; May 10.
- Walsh, James M., deceased, Milwaukee, Wis., K. F. Walsh, administratrix. Horse collar. 1,615,858; Feb. 1.
- Walsh, James M., assignor to J. M. Walsh Co., Milwaukee, Wis. Snap hook. 1,615,605; Jan. 25.
- Walsh, James M., assignor to James M. Walsh Co., Milwaukee, Wis. Crown ring. 1,619,224; Mar. 1.
- Walsh, James M., assignor to James M. Walsh Co., Milwaukee, Wis. Breast-strap slide. 1,619,225; Mar. 1.
- Walsh, James M., assignor to James M. Walsh Co., Milwaukee, Wis. Throat-strap connector. 1,639,066; Aug. 16.
- Walsh, James M., assignor to James M. Walsh Co., Milwaukee, Wis. Martingale strap and connector. 1,639,067; Aug. 16.
- Walsh, James M., assignor to James M. Walsh Co., Milwaukee, Wis. 1,651,170; Nov. 20.
- Walsh, James M., Co. (See Walsh, James M., assignor.)
- Walsh, James O., New York, N. Y. Bulkhead. 1,616,012; Feb. 1.
- Walsh, John J., Yonkers, N. Y. Combined hand mirror and table mirror. 1,638,672; Aug. 9.
- Walsh, John J., assignor to Royal Electrotape Company, Philadelphia, Pa. Making electrotapes. 1,649,876; Nov. 22.
- Walsh, John J., Maple Shade, N. J., assignor to Royal Electrotape Company, Philadelphia, Pa. Royaltape plate. 1,650,404; Nov. 22.
- Walsh, Kittie Belle F., administratrix. (See Walsh, James M.)
- Walsh, Owen, M'fg. Co. (See Villaret, Gustave E., assignor.)
- Walsh, Patrick H., Newton, assignor to Caro Cloth Corporation, Boston, Mass. Method and apparatus for making composite fabric. 1,629,507; Mar. 8.
- Walsh, Patrick J., Morris, Ill. Radiator attachment. 1,628,344; May 10.
- Walsh, Robert C., St. Louis, Mo. Merchandise cabinet. 1,631,844; June 7.
- Walsh & Weldon Boiler Co. (See Jackson, Percy, assignor.)
- Walseo, Sigurd L., Lyndhurst, and J. P. Hill, North Plainfield, N. J., assignors to Remington Typewriter Company, Illion, N. Y. Typewriting machine. 1,650,673; Nov. 29.
- Walsh, Adolph N., Tacoma, Wash. Subgrade template. 1,630,991; May 31.
- Walstead, Gustav A., assignor to B. Jones, Chicago, Ill. Device for applying paste to labels. 1,615,778; Jan. 25.
- Walston, Joseph A., assignor of forty per cent to A. N. Green and G. L. Avriett, Cameron, Tex. Highway obstruction. 1,649,877; Nov. 22.
- Walstrom, Axel M. (See Williams, G. W., and Walstrom.)
- Waltemade, Clarence J., New York, N. Y. Gas heater. 1,648,035; Nov. 8.
- Walten, Ruth B., et al. (See Gallagher, George D., assignor.)
- Walter, Arthur, Schweinfurt-on-the-Main, and W. Kutruf, Sellingenstadt, near Würzburg, assignor to Maschinenfabrik Walter & Kuffer, Schweinfurt-on-the-Main, Germany. Harrow. 1,624,521; Apr. 12.
- Walter, Arthur L., Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill. Drop pit. 1,632,256; June 14.
- Walter, Benjamin V., Omaha, Nebr. Air-hose housing. 1,642,132; Sept. 13.
- Walter, Edwin C., Kinlock, Mo., assignor to National Lead Company, New York, N. Y. Pressure regulator. 1,653,445; Dec. 20.
- Walter, Frank, Los Angeles, Calif. Telephone and cap therefor. 1,631,350; June 7.
- Walter, Frank H., assignor to Unico Motor Products Corporation, St. Louis, Mo. Piston ring. 1,636,027; July 19.
- Walter, Fred C., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Bumper bracket. 1,643,758; Sept. 27.
- Walter, Harrison B., assignor, by mesne assignments, to Container Corporation of America, Chicago, Ill. Box. 1,645,014; Feb. 1.
- Walter, Harrison B., assignor, by mesne assignments, to Container Corporation of America, Chicago, Ill. Box. 1,621,225; Mar. 15.
- Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Hand-operated creasing device. 1,633,055; June 23.
- Walter, Harrison B., assignor, by mesne assignments, to Container Corporation of America, Chicago, Ill. Box. 1,646,670; Oct. 25.
- Walter, Lowell E., Des Moines, Iowa. Scooter vehicle. 1,617,357; Feb. 15.
- Walter, Maurice, New York, N. Y. Differential gearing. 1,620,246; Mar. 8.
- Walter, Maurice, New York, N. Y. Dumping mechanism for semitrailers. 1,652,262; Dec. 13.
- Walter, Naomi E., St. Paul, Minn. Soft collar. 1,649,202; Nov. 15.
- Walter, Robert C., assignor to Dodge Brothers, Inc., Detroit, Mich. Door-opening mechanism. 1,641,210; Sept. 6.
- Walter, Robison F. (See Obetz, G. U., and Walter.)
- Walters, Albert F., Syracuse, N. Y. Lock hinge for doors and other movable elements. 1,616,871; July 12.
- Walters, George H., Bristol, assignor of one-half to George Mann and Company Limited, London, England. Printing apparatus. 1,639,789; Aug. 23.
- Walters, Harry E., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Chilled-iron roll. 1,627,626; May 10.
- Walters, Herbert H., Syracuse, N. Y. Educational device. 1,618,360; Feb. 22.
- Walters, Joseph C., Waterbury, Conn. Envelope. 1,626,578; Apr. 26.
- Walters, Oliver H., assignor of one-half to H. M. Shockley, Tacoma, Wash. Hose coupling. 1,637,095; July 26.
- Walters, Omer T., Tabler, Okla. Stalk cutter. 1,652,847; Dec. 13.
- Walters, Percy, Yonkers, N. Y. Cooling means for internal-combustion engines. 1,618,614; Feb. 22.
- Walters, Philip N., New York, N. Y., assignor to Gaco Corporation, East Greenwich, R. I. Bathing boat. 1,625,579; Apr. 19.
- Walther, Clarence H., assignor of two-fifths to R. A. Walthall, Montgomery, W. Va. Transportation of rolling stock. 1,626,709; May 3.
- Walther, Frank, Detroit, Mich. Centering calipers. 1,630,505; May 31.
- Walther, Frederick, Omaha, Nebr. Crate. 1,620,585; Mar. 8.
- Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Producing of cast-metal wheels. 1,631,712; June 7.
- Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Producing of cast-metal wheels. 1,641,107; Aug. 30.
- Walther, Mathias J., Lakewood, Ohio. Heater for gas and oil stoves. 1,648,434; Sept. 27.
- Walther, Wilhelm, (See Schafer, M., Hähne, and Walther.)
- Walton, Charles and O. H., Needham Heights, Mass.; said Charles Walton assignor to said O. H. Walton. Feed-controlling mechanism for circular-knitting machines. 1,648,083; Nov. 8.

- Walton, Frank W., East Orange, N. J., assignor to Westinghouse Lamp Company. Base for theftproof lamps. 1,647,593; Nov. 1.
- Walton, Joseph S., Los Angeles, Calif. Combination hair curler and waver. 1,639,557; Aug. 16.
- Walton, Oliver H., (See Walton, Charles and O. H.)
- Walton, Oliver H., Needham, Mass. Circular-knitting machine. 1,652,547; Dec. 13.
- Walton, Ralph, Warsaw, Ind. Fencepost. 1,617,883; Feb. 15.
- Walton, Robert T., Philadelphia, Pa. Rotatable flag support. 1,631,566; June 7.
- Walton, Robert T., Philadelphia, Pa. Flag support and actuating device therefor. 1,631,567; June 7.
- Walton, Robert T., Philadelphia, Pa. Flag or pennant spreader. 1,646,467; Oct. 25.
- Walton, Samuel F., Rose Valley, Pa. Carbonized briquette and its manufacture. 1,618,248; Feb. 22.
- Walton, Samuel F., Rose Valley, Pa. Fuel briquette and its manufacture. 1,618,249; Feb. 22.
- Walton, Stokely D., Imperial, Calif. Gang disk plow. 1,655,019; July 5.
- Walton, Thomas A., Scranton, Pa. Swimming-instructing machine. 1,620,146; Mar. 8.
- Walton, William B., Halifax, England. Drawing or drafting mechanism for drawing or drafting cotton and other fibrous material. 1,645,733; Oct. 18.
- Waltz, Clarence W., Cleveland, Ohio. Shock absorber. 1,642,049; Sept. 13.
- Waltz, Herbert E., Stockton, Calif. Wire-pulling head. 1,649,937; Nov. 22.
- Walworth, Edwin, Lincoln, Nebr. Road grader. 1,633,426; June 21.
- Walz, Ludwig, Cincinnati, Ohio, assignor to The Palm Brothers Decalcomania Company, Norwood, Ohio. Plate or similar article. Des. 72,933; Apr. 5.
- Walzer, Albert M., (See Thom, W. W., Lagaard, and Walzer.)
- Wanamaker, John, New York. (See Drevensedt, Amy, assignor.)
- Wanamaker, John, Philadelphia. (See Kratz, Howard L., assignor.)
- Wanamaker, John M., Trenton, Mo. Cutter-bar connecting rod. 1,622,299; Mar. 29.
- Wanamaker, Seth, Ramsey, N. J. Insulating and indicating covering for containers. 1,633,298; June 21.
- Wandel, Kurt, assignor, by mesne assignments, to Arkell Safety Bag Company, New York, N. Y. Air-suction crinkling apparatus. 1,630,319; May 31.
- Wandel, Kurt, assignor, by mesne assignments, to Arkell Safety Bag Company, New York, N. Y. Paper-creping apparatus. 1,630,320; May 31.
- Wanderer-Werke, vorm. Winkhofer & Jaenicke Akt.-Ges. (See Buschmann, Theodor E., assignor.)
- Wandersleb, Ernst, assignor to the Firm Carl Zeiss, Jena, Germany. Finder for photographic apparatus. 1,616,723; Feb. 8.
- Wandscheer, Gerrit, Sioux Center, Iowa. Beet harvester. 1,636,883; July 26.
- Wanek, Albert G., Wabpeton, N. Dak. Washing machine. 1,639,872; Aug. 23.
- Wanerman, Hyman, New York, N. Y. Liquid refreshment dispenser. Des. 72,301; Mar. 22.
- Wanerman, Hyman, New York, N. Y. Liquid-refreshment holder. Des. 72,582; May 3.
- Wanger, Arthur O., Indianapolis, Ind. Axle-alignment gauge. 1,653,848; Dec. 13.
- Wanko, John B., Sioux City, Iowa, Wave-bath machine. 1,621,819; Mar. 22.
- Wannamaker, William W., Jr., Orangeburg, S. C. Pile-head protector. 1,637,627; Aug. 2.
- Wannamaker, William W., Jr., Ellmore, S. C. Tapeline arrest. 1,649,644; Nov. 15.
- Wanner, Edwin P., New York, N. Y. Chair back. Des. 74,085; Dec. 13.
- Wanner, Walter E., (See Atwood, E. H., Wanner, Kiehle, and Wright.)
- Wantz, Julius B., assignor to Victor X-Ray Corporation, Chicago, Ill. X-ray apparatus. 1,628,014; May 10.
- Wantz, Julius B., Oak Park, assignor to Victor X-Ray Corporation, Chicago, Ill. Stereoscope. 1,649,878; Nov. 22.
- Wantz, Julius B., Oak Park, assignor to Victor X-Ray Corporation, Chicago, Ill. Stereoscope. 1,649,879; Nov. 22.
- Wappat, Fred W., Pittsburgh, Pa. Portable saw. 1,623,290; Apr. 5.
- Wappat Gear Works. (See Hunter, Samuel, assignor.)
- Wappler Electric Co. (See Mutschler, Arthur, assignor.)
- Wappler Electric Company Inc. (See Wappler, Frederick H., assignor.)
- Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
- Wappler Electric Company. (See Wappler, F. H., and Fayer, assignors.)
- Wappler Electric Company. (See Wappler, F. H., and Koenitz, assignors.)
- Wanpeler, Frederick H., Flushing, assignor to Wappler Electric Company Inc., Long Island City, N. Y. Clamping electrode. 1,652,804; Dec. 13.
- Wappler, Frederick H., and C. F. Fayer, Flushing, N. Y., assignors to Wappler Electric Company, Inc. X-ray apparatus. 1,628,699; May 17.
- Wappler, Frederick H., Elmhurst, and A. C. Koenitz, New York, N. Y. assignors to Wappler Electric Company, Inc. Attachment for X-ray tables. 1,623,587; Apr. 5.
- Wappler, Reinhold H., Yonkers, N. Y. Surgical instrument. 1,627,941; May 10.
- Wappler, Reinhold H., Yonkers, N. Y., assignor to American Cystoscope Makers, Inc. Battery casing. 1,634,475; July 5.
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. Clamping electrode. 1,640,061; Aug. 25.
- Wappler, Reinhold H., Yonkers, assignor to Wappler Electric Company, Inc., Long Island City, N. Y. Electrode clamp. 1,644,803; Oct. 11.
- Warbis, Joseph S., Rhinard, Iowa. Automobile direction sign. 1,654,060; Dec. 27.
- Warburton, Harry, and G. A. Sherwood, Bridgeport, Conn. Traffic indicator. 1,622,932; Mar. 29.
- Ward, Alger L., (See Essex, H., and Ward.)
- Ward, Andrew W., assignor of one-half to T. C. McKinley, one-eighth to A. G. Thompson, one-eighth to C. T. Brookshire, and one-eighth to J. M. Javins, Charleston, W. Va. Roller bearing. 1,653,073; Dec. 20.
- Ward Baking Company. (See Gregor, Nathan M., assignor.)
- Ward Baking Company. (See Hoffman, Charles, assignor.)
- Ward, Byron. (See Van Allen, Charles, assignor.)
- Ward, Charles A., Mount Vernon, N. Y. Delivery truck. 1,649,630; Nov. 15.
- Ward, Charles A., Silver Creek, N. Y. Dining-car body. Des. 73,246; Aug. 9.
- Ward, Charles E., Charleston, W. Va. Portable repair chamber. 1,619,642; Mar. 1.
- Ward, Delos E., (See Johnson, Andrew A., assignor.)
- Ward, Edna S., Fort Worth, Tex. Bathing shoe. Ref. 1,656; Mar. 1.
- Ward, Edward B., (See Ridley, Grahame B., assignor.)
- Ward, Frederic L., Detroit, Mich. Hydraulic conveyor. 1,618,305; Feb. 22.
- Ward, Frederic L., Detroit, Mich. Hydraulic conveyor. 1,644,699; Oct. 11.
- Ward, Frederic L., Oxford, Mich. Hydraulic excavating apparatus. 1,653,027; Dec. 20.
- Ward, George S., (See Kohman, H. A., Irvin, and Stetler, assignors.)
- Ward, Henry L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming apparatus. 1,642,755; Sept. 20.
- Ward, James A., Milledale, Iowa. Wick humidifier for cigar cases. 1,639,912; Aug. 23.
- Ward, James H., Chicago, Ill. Drum. 1,619,046; Mar. 1.
- Ward, John, Wataga Falls, N. C. Fence. 1,633,619; June 28.
- Ward, John N., Jackson, Tenn. Stringed musical instrument. 1,638,423; Aug. 9.
- Ward, Joseph E., (See Fayle, Charles E., assignor.)
- Ward, Joshua. (See Bushman, E. L., Curtis, and Ward.)
- Ward, Kenneth B., (See Thorson, L. M., and Ward.)
- Ward Leonard Electric Company. (See Schwaigermann, William, assignor.)
- Ward Leonard Electric Company. (See Waller, Alfred E., assignor.)
- Ward, Leonora H., Weatherford, Okla. Blackboard-eraser cleaner. 1,619,899; Mar. 8.
- Ward-Lovv Pump Corporation. (See Johnson, Oscar W., assignor.)
- Ward, Marshall H., Brooklyn, N. Y., and E. L. Aurand, Teaneck, N. J., assignors to American Radiator Company, New York, N. Y. Cooling system for internal combustion engines. 1,640,681; Aug. 30.
- Ward, Marshall H., Brooklyn, N. Y., assignor, by mesne assignments, to Motor Improvements, Inc., Newark, N. J. Lubricating system. 1,650,917; Nov. 29.
- Ward, Samuel, Manufacturing Company. (See Austin George H., assignor.)
- Ward, Samuel, Manufacturing Company. (See Mc Cauley, Reginald A., assignor.)
- Ward, Sam M., and S. S. Sutton, New York, N. Y. Garment hanger. 1,638,972; July 26.
- Ward, William M., Marion, Ohio. Tank. 1,642,799; Sept. 20.
- Wardell, Henry R., Daytona, Fla., assignor to John-Manville Incorporated. Shingle fastening. 1,629,558; May 24.
- Wardell, Henry R., assignor, by mesne assignments, to John-Manville Corporation, New York, N. Y. Roof. 1,642,316; Sept. 13.
- Wardell, John W., Sugar, assignor of one-third to J. Stillman and one-third to G. W. Stillman, Salt Lake City, Utah. Electromagnet spool. 1,616,207; Feb. 1.
- Wardhaugh, Ralph, Brooklyn, N. Y. Direction indicator for automobiles. 1,629,425; May 17.
- Ward's Products Co. (See Dissette, John W., assignor.)
- Ware, Charles A., and A. Delchmiller, Pasadena, Md. Nonskid chain. 1,627,587; May 10.
- Ware, Charles L., assignor of one-half to F. E. Maxfield, Chicago, Ill. Spring. 1,638,510; Aug. 9.
- Ware, Edward M., Haddonfield, N. J. Bedclothes holder. Des. 74,039; Dec. 6.
- Ware, Louis, Miami, Ariz. Dispensing container for lubricating grease, etc. 1,625,968; Apr. 26.
- Ware, Paul, assignor to Ware Radio, Inc., New York, N. Y. Radiotelephony. 1,627,718; May 10.

- Ware, Paul, New York, N. Y., assignor to Ware Radio, Inc. Two-way radio communication system. 1,618,835; Nov. 8.
- Ware Radio, Inc. (See Ware, Paul, assignor.)
- Ware, Robert R., Chicago, Ill. Roller. 1,618,496; Feb. 22.
- Ward, Rodney E., Wadsworth, Ohio. Beam compass. 1,629,328; May 17.
- Ware, Theodore C. (See Melcher, Irving W., assignor.)
- Waream, Charles E., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Garment press. 1,637,588; Aug. 2.
- Warman, Charles E., Norwood, Ohio. Power attachment for pressing machines. 1,640,015; Aug. 23.
- Warford Corporation, The. (See Utz. John G., assignor.)
- Warford, James W. (See Norholt, E., and Warford.)
- Warga, Kalman, assignor to Pyrocool Corporation, New York, N. Y. Decorated glass objects and protecting the decorated surfaces. 1,646,468; Oct. 25.
- Warhurst, Thomas J. (See Anlauf, H., and Warhurst.)
- Warbus, Oliver F., Albany, N. Y., assignor to Versare Corporation. Steering mechanism for vehicles. 1,632,460; June 14.
- Waring, Edward J., Plainfield, assignor to Pyrene Manufacturing Company, Newark, N. J. Door latch. 1,654,197; Dec. 27.
- Waring, Guy H., Oronogo, assignor to W. G. Waring, Webb City, Mo. Operation of fume furnaces. 1,652,224; Dec. 13.
- Waring, Horace, Great Crosby, assignor to Associated Lead Manufacturers Limited, London, England. Apparatus for the manufacture of lead oxide. 1,649,428; Nov. 15.
- Waring, John L., Washington, D. C. Tonsil-removing apparatus. 1,615,494; Jan. 25.
- Waring, William C. (See Waring, Guy H., assignor.)
- Warnack, John, Fort Smith, Ark. Mail-box support. 1,681,904; June 7.
- Warman, William E., Pinner, England. Mechanical pipe cutter. 1,613,651; Dec. 6.
- Warnisham, Arthur, Leicester, England. Telescopic attachment for hand cameras. 1,651,493; Dec. 6.
- Warmoth, George W., Indianapolis, Ind. Compensating and drainage joint for pavements. 1,625,176; Apr. 19.
- Warnoth, George W., Indianapolis, and E. Wertenberger, Wabash, Ind.; said Wertenberger assignor to said Warmoth. Bridge flooring. 1,648,431; Nov. 8.
- Warner, Albion L., New York, N. Y., assignor to C. L. Russell, Rahway, N. J. Folding table. 1,644,455; Oct. 4.
- Warner, Albion L., New York, N. Y., assignor to C. L. Russell, Rahway, N. J. Folding table. 1,644,455; Oct. 4.
- Warren, Alfred T., New York, N. Y. Keyless lock. 1,654,440; Dec. 27.
- Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Electrical connection. 1,631,994; June 14.
- Warner, Arthur, Haverford, assignor to R. H. Beaumont Company, Philadelphia, Pa. Skip-boist and tram car equipment. 1,633,290; June 21.
- Warner, Benjamin S., assignor to Endicott Johnson Corporation, Endicott, N. Y. Work holder. 1,622,855; Mar. 29.
- Warren Brothers Company. (See Ash, H. W., and Slemmer, assignors.)
- Warner Brothers Company, The. (See Nickerson, Gertrude L., assignor.)
- Warner Bros. Inc. (See Warner, William E., assignor.)
- Warner, Chester E., Berwyn, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural plug. 1,631,995; June 14.
- Warner, Clarence. (See Bunzger, G. A., and Warner.)
- Warner, Clarence, assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,628,086; May 10.
- Warner, Edward, Union City, N. J. Plucking machine. 1,644,621; Oct. 4.
- Warner Elevator Manufacturing Company, The. (See Liebenberg, Arthur J., assignor.)
- Warner Elevator Manufacturing Company, The. (See McCormick, Harold V., assignor.)
- Warner, Frank A., Los Angeles, Calif. Shift-lock release for typewriters. 1,652,334; Dec. 13.
- Warner, Frank E. (See King, G. A., Warner, and Tompkins.)
- Warner Gear Company. (See Simpson, John M., assignor.)
- Warner, Glenn S., Palo Alto, Calif., assignor to A. G. Spalding Bros., New York, N. Y. Tackling dummy. 1,622,691; Mar. 29.
- Warner, Harold L. (See McLaughlin, John J., assignor.)
- Warner, James L., Tulsa, Okla. Spectrum for stringed instruments. 1,643,530; Sept. 27.
- Warner, Joseph, Nashville, Tenn. Manufacture of ferro-phosphorous. 1,646,268; Oct. 18.
- Warner, Joseph L., Mayer, Ariz. Extracting gold. 1,621,697; Mar. 22.
- Warner, Ivo A., St. Paul, Minn. Vehicle turning signal. 1,650,251; Nov. 22.
- Warner, Pauline R., et al. (See Smith, Swan, assignor.)
- Warner, Percy de F. (See Fenton, Paul E., and Warner.)
- Warner, Percy D., Kewanee, Ill. Brooder. 1,618,015; Feb. 22.
- Warner, Ralph M. (See Wright, F. E., and Warner.)
- Warner, Raymond M., assignor to The Miller Rubber Company, Akron, Ohio. Vulcanizing rubber. Re16,682; July 19.
- Warner, Rudolph J., assignor to Warner Jewelry Case Company, Buffalo, N. Y. Jewelry box. 1,618,561; Jan. 22.
- Warner, Russell A., Schenectady, N. Y., assignor to General Electric Company. Method and apparatus for measuring volt amperes in an alternating-current circuit. 1,614,219; Jan. 11.
- Warner, Russell A., Schenectady, N. Y., assignor to General Electric Company. Electric meter. 1,615,731; Jan. 25.
- Warner and Swasey Company, The. (See Burger, William J., assignor.)
- Warner and Swasey Company, The. (See Burrell, E. P., and Van Hamsveld, assignors.)
- Warner, Thomas A. (See Dickens, J. R., Harris, and Warner.)
- Warner, Walter W., Detroit, Mich. Automatic humidifier attachment for water pans. 1,645,566; Oct. 25.
- Warner, William E., Linden, assignor to Warner Bros. Inc., Newark, N. J. Bung for metal receptacles. 1,636,679; Oct. 18.
- Warner, William W., Middletown, Ohio. Skater's article. 1,634,061; June 28.
- Warnock, Cline W., Bucyrus, Ohio. Combined test bath, sample warmer, and hot-water reservoir. 1,636,116; July 19.
- Warr, Harold G., Park Ridge, assignor, by mesne assignments, to Maintenance Equipment Company, Chicago, Ill. Ballast-screening machine. 1,613,420; Jan. 4.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,613,421; Jan. 4.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,619,902; Mar. 8.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,624,028; Apr. 12.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,644,179; Oct. 4.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,647,325; Nov. 7.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,648,084; Nov. 8.
- Warren, Alvah H., Jr., St. Paul, Minn. Power take-off device. 1,623,765; Apr. 5.
- Warren, Arthur, Lewinston, Cross, and S. N. Solomon, Westminster, London, England. Treasury-note cabinet. 1,624,772; Apr. 12.
- Warren Brothers Company. (See Burdge, Jefferson S., assignor.)
- Warren, Clarence A., Independence, Mo. Weeder. 1,654,095; Oct. 4.
- Warren Clock Company. (See Warren, Henry E., assignor.)
- Warren, Clyde W. (See Russell, Zachary E., assignor.)
- Warren, Coleman B., Norfolk, Va. Shouldering attachment. 1,631,444; June 7.
- Warren, David, Lewiston, Me. Emulsifier. 1,626,487; Apr. 26.
- Warren, Egbert G., Milwaukee, Wis. Knitted cap. 1,629,188; May 17.
- Warren, Frederick A., Flandreau, S. Dak. Stationery and office-appliance assembler. 1,643,477; Sept. 27.
- Warren, F. Reed R., Badgett, Tenn. Hame book. 1,616,013; Feb. 1.
- Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for use in handling wetting. 1,620,790; Mar. 15.
- Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,649,272; Nov. 15.
- Warren, Glenn B., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,631,660; June 7.
- Warren, Glenn B., Schenectady, N. Y., assignor to General Electric Company. Locomotive. 1,631,661; June 7.
- Warren, Glenn B., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,651,855; Dec. 6.
- Warren, Henry E., assignor to Warren Telechron Company, Ashland, Mass. Clock movement. 1,616,664; Jan. 25.
- Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Mercury-tube switch. 1,631,713; June 7.
- Warren, Henry E., Ashland, Mass., assignor to General Electric Company. Manufacturing gear wheels. 1,640,432; Aug. 30.
- Warren, Henry E., Ashland, assignor to Warren Clock Company, Ashland, Mass. Speed regulator. 1,646,269; Oct. 18.
- Warren, James A., Denver, Colo. Pumping mechanism and system. 1,616,773; Feb. 8.
- Warren, James A., Denver, Colo. Pumping mechanism and system. 1,616,774; Feb. 8.
- Warren Jewelry Case Company. (See Warner, Rudolph J., assignor.)

- Warren, John J., Brownville, N. Y. Truing lathe for wood-pulp grinders. 1,642,053; Sept. 13.
- Warren, John S., Sun, Miss. Cane stripper. 1,628,087; May 10.
- Warren, Joseph A., Mount Vernon, assignor to Dubilier Condenser Corporation, New York, N. Y. Supporting means for electrical device. 1,641,513; Sept. 6.
- Warren Leather Goods Company. (See Elliott, Bamford, assignor.)
- Warren, Richard, Washington, D. C. Display rack. 1,619,900; Mar. 8.
- Warren, Robert M., East Orange, N. J., assignor to Dubilier Condenser Corporation. Radiofrequency transformer. 1,623,143; Apr. 5.
- Warren Telephon Company. (See Warren, Henry E., assignor.)
- Warren, Virgil P., Atlanta, Ga. Refrigerator wall. 1,621,386; Mar. 15.
- Warren, Virgil P., Atlanta, Ga. Refrigerator-ice-tank support. 1,621,387; Mar. 15.
- Warren, Virgil P., Atlanta, Ga. Refrigerator ice tank. 1,644,408; Oct. 4.
- Warren, William C., Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Cultivator tooth. 1,622,619; Mar. 29.
- Warren, William S., Meriden, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 72,048; Feb. 15.
- Warren, William S., Meriden, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 72,920; June 21.
- Warwick, Charles P., assignor to Penberthy Injector Company, Detroit, Mich. Oil burner. 1,648,923; Nov. 15.
- Warwick, Charles E., assignor to Penberthy Injector Company, Detroit, Mich. Ignition and control mechanism for oil burners. 1,648,924; Nov. 15.
- Warwick, Charles J., et al. (See Halpin, Michael K., assignor.)
- Warwick, James H., Beaver, Pa. Oil gauge. 1,649,375; Nov. 15.
- Warner, Robert, Braintree, Mass., assignor to Bethlehem Shipbuilding Corporation. Feed tank. 1,638,607; Aug. 9.
- Warning, Robert T., and G. W. Stultz, Brooklyn, N. Y. Radiator air valve. 1,619,386; Mar. 1.
- Warschau, Hans A. F. L. M., Hamburg, Germany. Engine or pump. 1,613,210; Jan. 4.
- Warsen, August W. (See Christensen, A., and Warsen.)
- Warsaw, Nathan, New York, N. Y. Indexing device. 1,644,162; Oct. 4.
- Warth, Albin H., assignor to The Crown Cork & Seal Company of Baltimore City, Baltimore, Md. Apparatus for gas treating articles. 1,641,712; Sept. 6.
- Warthen Train Control Corporation. (See Browne, Walter A., assignor.)
- Warwick, Eleanor O., and R. M., Eastlake, Fla. Dispensing device. 1,620,178; Mar. 8.
- Warwick, Rogers M. (See Pangborn, L. D., Warwick, and McKay.)
- Warwick, Rogers M. (See Warwick, Eleanor O., and R. M.)
- Wasberg, Axel, and W. W. Darrow, assignors to Camel Company, Chicago, Ill. Steel door. 1,627,216; May 3.
- Waschbusch, Michael, Park Ridge, Ill. Playhouse. 1,649,938; Nov. 22.
- Waschnack, Adolf, Neu Finkenkrug, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,639,445; Aug. 16.
- Waseige, Charles, Ruell, France. Speed-reducing gear. 1,619,552; Mar. 1.
- Waseige, Charles, Billancourt, France, assignor, by mesne assignments, to Bendix Corporation. Shoe brake. 1,638,380; Aug. 9.
- Washburn Company, The. (See Andrews, Arthur G., assignor.)
- Washburn Company, The. (See Andrews, Charles, jr., assignor.)
- Washburn, Edwin C., Englewood, N. J. Lever draft gear. 1,626,258; Apr. 26.
- Washburn, George P., Portland, Ore. Construction for the assembling of box-like structures, such for example as boxes, tables, and the like. 1,628,938; May 17.
- Washburn, James M., Chicago, Ill. Distance finder. 1,617,612; Feb. 15.
- Washburn, Richard C., Saugerties, N. Y. Ice-cream-can jacket. 1,639,418; Aug. 16.
- Washburne, William H., assignor to The Oliver Typewriter Company, Chicago, Ill. Making two-piece valves. 1,619,901; Mar. 8.
- Washington, Burnett T., Williamson, W. Va. Car-track side frame. 1,627,131; May 3.
- Washington, George, Brooklyn, N. Y. Collapsible camera. 1,631,298; June 7.
- Washington, George, Brooklyn, N. Y. Focusing device for cameras. 1,631,299; June 7.
- Washington, George, Brooklyn, N. Y. Shutter mechanism for cameras. 1,631,300; June 7.
- Washington, George, Brooklyn, N. Y. Photographic camera. 1,631,301; June 7.
- Washington, George, Mendham, N. Y. Film-winding spool for cameras. 1,631,302; June 7.
- Washington, George, Mendham, N. J. Finding and focusing device for cameras. 1,631,303; June 7.
- Washington, Irene M., Brooklyn, N. Y. Concrete plaque and making same. 1,641,404; Sept. 6.
- Washington Manufacturing Company. (See Knott, Harry H., assignor.)
- Washington Manufacturing Co. (See Von Boecklin, A. E. L., and Larson, assignors.)
- Washlake, Adolph P. (See Harvey, R., and Washlake.)
- Wasi, Albert P. (See Ludas, A., and Wasi.)
- Waskewicz, Wacław, Ludlow, Vt. Rail joint. 1,620,502; Mar. 8.
- Wasmuth-Goodrich Company. (See Hughes, Earl V., assignor.)
- Wass, Andrew G., Minneapolis, Minn. Sash operator. 1,651,494; Dec. 6.
- Wass, August, Mellerud, Sweden. Rail joint. 1,633,799; June 28.
- Wassel, Albert, assignor to G. J. Henry, San Francisco, Calif. Vehicle wind wing. 1,625,875; Apr. 26.
- Wassell, Helen E. (See Jackson, Lloyd E., and Wassell.)
- Wasskamp, Rudolph, assignor to The Firm: Neufeldt & Kuhnke, Betriebsgesellschaft m. b. H., Kiel, Germany. Indicator. 1,647,894; Nov. 1.
- Wasserman, Hyme, Brooklyn, N. Y. Producing fur-bearing sheets used in the manufacture of garments and garment trimmings. 1,637,885; Aug. 2.
- Wasserman, Rudolf, New York, N. Y. Marking device. 1,626,440; Apr. 26.
- Wassmuth, Alfred, G. m. b. H. & Co. (See Barthel, H., and Kurth, assignors.)
- Wasson, Robert B., Cranford, N. J. Horsepower-meter stand. 1,652,225; Dec. 13.
- Wattacher, Albert E., Cincinnati, Ohio. Cross-feed mechanism for machine tools. 1,630,042; May 24.
- Watchorn, Henry M., Sapulpa, Okla. Tunneling device. 1,650,108; Nov. 22.
- Waterbor, Elmer F., assignor to C. M. Simpson, Detroit, Mich. Cast wheel. 1,625,876; Apr. 26.
- Waterbury Buckle Co. (See Moore, R. A., and Murtha, assignors.)
- Waterbury Button Company. (See Kaynor, Warren F., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Burton, Jesse B., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
- Waterhouse David. (See Prince-Smith, W., and Waterhouse.)
- Waterhouse, Edgar, South Shields, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric switch gear. 1,643,634; Sept. 27.
- Waterloo Saddlery Company. (See Grings, Casper H., assignor.)
- Waterman, Elizabeth H., Binghamton, N. Y. Game apparatus. 1,630,646; May 31.
- Waterman, Elmer E., Remus, Mich. Safety attachment for tractors. 1,625,005; Apr. 19.
- Waterman, Harry H., Strasburg Junction, Va. Air-swept ball mill. 1,630,992; May 31.
- Waterman, L. B., Company. (See Ferris, William I., assignor.)
- Waterman-Waterbury Company, The. (See Cross, John H., assignor.)
- Waterous Fire Engine Works, Incorporated. (See Storey, Leonidas P., assignor.)
- Waters, Charles B., Montclair, N. J. Water-heater casing. Des. 74,086; Dec. 13.
- Waters, Charles B., Montclair, N. J. Welding transformer. 1,618,497; Feb. 22.
- Waters, George A., New Kirk, Okla. Ptn. 1,632,386; June 14.
- Waters, Harry F., St. Louis, Mo. Necktie. 1,618,134; Feb. 15.
- Waters, Harry F., St. Louis, Mo. Necktie. 1,623,700; May 17.
- Waters, Harry H. (See Alexander, R. L., Wishart, and Waters.)
- Waters, Harry H., assignor to Climax Engineering Company, Clinton, Iowa. Neutral brake. 1,619,449; Mar. 1.
- Waters, Henry E., and E. Ann Arbor, Mich. Vehicle signal. 1,635,651; July 12.
- Waters, John F., Chicago, Ill. Steam cooker. 1,653,243; Dec. 20.
- Waters, Millard F., assignor to Smith Separator Company, Tulsa, Okla. Spiral baffle. 1,649,556; Nov. 15.
- Waters, Thomas F., assignor to Baker Brothers Glass Company of Okmulgee, Okla. Takedown apparatus. 1,636,974; July 26.
- Waters, Victor J., assignor to one-third to H. S. Mercer, Shidler, Okla. Valved piston. 1,620,416; Mar. 8.
- Watertown Tableslide Co. (See Drew, Herbert H., assignor.)
- Watworth, Robert J., assignor of one-half to L. M. Studevant, Sidney, Ohio. Rotary feeder. 1,630,552; May 31.
- Watkins, Benjamin F. (See Van Wagenen, Donald S., assignor.)
- Watkins, Clayton S., Wichita Falls, Tex. Wheel and demountable rim. 1,612,957; Jan. 4.
- Watkins, Wm. E., and W. E. Milmay, N. J. Swing-operated fan. 1,623,607; Apr. 2.
- Watkins, John C., Vancouver, British, Columbia, Canada. Ice-cream cabinet. 1,630,682; May 31.

- Watkins, Joseph, Marysville, Pa. Confection mold. 1,627,421; May 3.
- Watkins, Lester R. (See Michaels, J. I., and Watkins.)
- Watkins Manufacturing Company, The. (See Michaels, J. I., and Watkins, assignors.)
- Watkins, Owen C., Festus, Mo. Weather strip. 1,624,295; Apr. 12.
- Watkins, Tom, Gateway, Colo. Rein support. 1,642,800; Sept. 20.
- Watkins, William E. (See Watkins, John and W. E.)
- Watling, John B., Chicago, Ill. Amusement apparatus. 1,618,616; Feb. 22.
- Watling, John B., Chicago, Ill. Coin-controlled apparatus. 1,624,881; Apr. 12.
- Watling, John B., Chicago, Ill. Vending machine. 1,626,896; May 3.
- Watling, John B., Chicago, Ill. Vending machine. 1,642,134; Sept. 13.
- Watling, Thomas W. B., Chicago, Ill. Weighing-scale casing. Des. 73,765; Nov. 1.
- Watling, Thomas W. B., Chicago, Ill. Weighing-scale casing. Des. 73,766; Nov. 1.
- Watling, Thomas W. B., Chicago, Ill. Weighing-scale casing. Des. 74,087; Dec. 13.
- Watrous, Lewis S., Scanton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del. Stopping leakage of steam. 1,640,062; Aug. 23.
- Watrous, Agnes B., executrix. (See Watrous, Edward L.)
- Watrous, Earl G., Chicago, Ill. Tank for water-closets, urinals, and the like. 1,644,622; Oct. 4.
- Watrous, Edward L., deceased, El Paso, Tex.; A. B. Watrous, executrix, Evanston, Ill. Metal coating wire and the like. 1,650,730; Nov. 29.
- Watrous, Paul M., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Helium tube. 1,613,630; Jan. 11.
- Watson, Archibald S., assignor to Detroit Hoist and Machine Company, Detroit, Mich. Hoist. 1,632,571; June 14.
- Watson, Arthur H., Chicago, Ill., assignor to R. C. Potter, Riverside, Ill. Awning for motor vehicles. 1,634,860; July 5.
- Watson, Charles H., et al. (See Baker, Thomas T., assignor.)
- Watson, Charles S. (See Hinchley, J. W., and Watson.)
- Watson, Charles W., St. Kilda, Victoria, Australia. Hollow structure of plastic material and producing the same centrifugally. 1,641,793; Sept. 6.
- Watson, Clyde E., Appleton, Wis. Display rack. Des. 72,537; Apr. 26.
- Watson Company, The. (See Brown, William T., assignor.)
- Watson, Edward F., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,629,559; May 24.
- Watson, Edward P., Floral Park, N. Y. Pneumatic bumper. 1,627,472; May 3.
- Watson, Elmer E., Hamilton, Ohio, assignor to Herring-Hall-Martin Safe Company, New York, N. Y. Combination-lock mechanism. 1,617,038; Feb. 8.
- Watson, Ernest, Wauwatosa, Wis. Form holder for concrete walls. 1,622,072; Mar. 22.
- Watson Experimental Laboratory Company, The. (See Locke, Edward B., assignor.)
- Watson Experimental Laboratory Company, The. (See Mittendorf, William R., assignor.)
- Watson, Frank B., and E. Culver, assignors to United Kingdom Optical Company, Limited, London, England. Lens. 1,632,208; June 14.
- Watson, George D., Lithgow, assignor to Corkscrew Steel Fences Ltd., Sydney, New South Wales, Australia. Fence standard. 1,648,085; Nov. 8.
- Watson, George E., Torrance, and H. E. Grau, Los Angeles, Calif. Oil-well apparatus. 1,632,650; Dec. 13.
- Watson, George O., Rugby, England, assignor to General Electric Company. Ship propulsion. 1,618,790; Feb. 22.
- Watson, Harold L., Lynn, Mass., assignor to General Electric Company. Process and apparatus for producing silica articles. 1,621,446; Mar. 15.
- Watson, Harold L., Lynn, Mass., assignor to General Electric Company. Producing high-grade vitreous silica. 1,645,080; Oct. 11.
- Watson, Harold L., and A. Heldrich, assignors, by mesne assignments, to American Incubators, Inc., New Brunswick, N. J. Fuel-feeding means for oil burners. 1,612,997; Jan. 4.
- Watson, Harry, Chelsea, Mass. Laminated panel. 1,649,555; Nov. 15.
- Watson, Herbert H. (See Jennings, V. H., and Watson.)
- Watson, James, Marinette, Wis. Automobile hood. 1,648,086; Nov. 8.
- Watson, James A., Silver Spring, Md. Oil-purifying apparatus for hydrocarbon engines. 1,630,876; May 31.
- Watson, James A., Silver Spring, Md. Oil-purifying apparatus for hydrocarbon engines. 1,651,495; Dec. 6.
- Watson, James B., Mattapan, assignor of one-third to J. C. Relche, Arlington, and one-third to C. E. Cates, Brighton, Mass. Guard for circular saws. 1,616,478; Feb. 8.
- Watson, James B., Mattapan, assignor of one-third to J. C. Relche, Arlington, and one-third to C. E. Cates, Brighton, Mass. Guard for buzz planers. 1,618,120; Feb. 15.
- Watson, John C., Attleboro, Mass., assignor of one-half to F. Gates, Providence, R. I. Cross-dyeing cellulose fabric. 1,629,769; May 24.
- Watson, John C., Attleboro, Mass., assignor of one-half to T. P. Gates, Providence, R. I. Cross-dyeing cellulose fabric. 1,629,770; May 24.
- Watson, John W., Wayne, Pa. Motion-controlling mechanism. 1,635,913; July 12.
- Watson, John W., Philadelphia, Pa., assignor, by mesne assignments, to John W. Watson Company. Recoil brake. 1,652,074; Dec. 6.
- Watson, John W., Company. (See Watson, John W., assignor.)
- Watson, John W. and R. A., Wayne, Pa. Spring boot. 1,634,163; June 28.
- Watson, Leonard E., St. Marys, W. Va. Wrench. 1,635,102; July 5.
- Watson, Leonard E., St. Marys, W. Va. Tool. 1,652,075; Dec. 6.
- Watson, Manly A., et al. (See McKenney, F. Y., and Cheney, assignors.)
- Watson & McDaniel Co. (See Jahn, Frederick L., assignor.)
- Watson, Otto P., Michigan City, Ind., assignor to Reliance Manufacturing Company, Chicago, Ill. Sewing machine. 1,644,700; Oct. 11.
- Watson, Philip H., assignor to Standard Pyroxoloid Corporation, Leominster, Mass. Water waver. 1,635,065; July 5.
- Watson, Richard A. (See Watson, John W. and R. A.)
- Watson, Russell E., et al., executors. (See Francke, William J.)
- Watson-Stillman Co., The. (See Klein, F., and Penso, assignors.)
- Watson-Stillman Co., The. (See Nitchie, Hubbard D., assignor.)
- Watson-Stillman Co., The. (See Wigtel, Carl, assignor.)
- Watson, Thomas S., Milwaukee, assignor to Kohler Company, Kohler, Wis. Automatic generating plant. 1,627,942; May 10.
- Watson, Walter C., et al. (See Johnson, Alvin L., assignor.)
- Watson, William B., Jacksonville, Fla. Railway-crossing gate. 1,629,605; May 24.
- Watson, William F., Athens, Ga. Garage. 1,630,553; May 31.
- Watt, Frank N., Richmond, Ind. Burial casket. 1,620,545; Mar. 15.
- Watt, John F., Aberdeen, Scotland. Barrel and the like hoop and joining the ends. 1,653,829; Dec. 27.
- Watt, R. L. (See Goodman, Albert J., assignor.)
- Watt, Ralph E. (See Williams, L. H., and Watt.)
- Watt, Washington, Jr., Memphis, Tenn. Case. 1,620,417; May 3.
- Watt, William E., Evanston, Ill. Air cooling and dehydrating device. 1,627,361; May 13.
- Watt, William R. H. (See De Armond, W. C., and Watt.)
- Wattawa, John M., Manitowoc, Wis. Bait box. 1,625,006; Apr. 19.
- Watt, Michael, New York, N. Y., assignor of one-fourth to M. Baskin and one-fourth to M. Rhoades, Washington, D. C. Apparatus for drying. 1,632,811; June 21.
- Watters, Daniel M., assignor to Killefer Manufacturing Company, Los Angeles, Calif. Road tool. 1,620,247; Mar. 8.
- Watters, Luther A., S. F. Lloyd, and E. L. Reller, St. Louis, Mo., assignors to Liberty Systems Corporation, Wilmington, Del. Accounting machine. 1,615,806; Jan. 25.
- Watters, Luther A., and S. F. Lloyd, St. Louis, Mo., assignors, by mesne assignments, to Remington Rand, Inc., Tonawanda, N. Y. Selecting apparatus. 1,641,713; Sept. 6.
- Wattie, William M., Worcester, Mass. Mat and making the same. 1,635,731; July 12.
- Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Dobby cylinder. 1,639,826; Aug. 23.
- Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Drive for loom pattern mechanism. 1,651,110; Nov. 29.
- Watts, Earl, Washington, Iowa. Signal device. 1,653,325; Dec. 20.
- Watts, Elmer A., assignor to The Miller Improved Gas Engine Company, Springfield, Ohio. Mixture valve for gas engines. 1,615,249; Jan. 25.
- Watts, Elmer A., assignor to The Miller Improved Gas Engine Company, Springfield, Ohio. Cylinder construction for gas engines. 1,619,908; Mar. 8.
- Watts, John S., Los Angeles, Calif. Reducing gear and transmission control. 1,633,052; June 21.
- Watts, Leo E., Amarillo, Tex. Ironing-board installment. 1,619,774; Mar. 1.
- Watts, Robert J., Benton Harbor, Mich. Doffer for ironing machines. 1,624,698; Apr. 12.
- Watts, Walter H., Los Angeles, Calif. Ice cream service cabinet. 1,616,836; Feb. 8.
- Waugh Equipment Company. (See Clark, Leverett M., assignor.)
- Waugh Equipment Company. (See Endsley, Louis E., assignor.)
- Waugh Equipment Co. (See Waugh, James M., assignor.)
- Waugh, James M., Chicago, Ill. Draft-gear unit. 1,628,758; May 17.

- Waugh, James M., assignor to Waugh Equipment Co., Chicago, Ill. Draft-gear unit. 1,625,177; Apr. 19.
- Waugh, Lester R., Mount Vernon, N. Y. Smoking utensil. 1,619,887; Mar. 1.
- Waugh, William R., assignor to Appleford Counter Check Book Company, Limited, Hamilton, Ontario, Canada. Bottle cap. 1,661,426; Dec. 6.
- Webb, Orrin, Sioux City, Iowa. Manifold heater. 1,627,759; May 10.
- Waukesha Motor Company. (See Edens, Henry N., assignor.)
- Waukesha Motor Company. (See Elsher, James B., assignor.)
- Waukesha Motor Company. (See Horning, Harry L., assignor.)
- Waukesha Motor Company. (See Horning, H. L., Fisher, and Pope, assignors.)
- Waukesha Motor Company. (See Le Van Horning, Harry, assignor.)
- Waverly Novelty Co. (See Avery, U. S., and Trout, assignors.)
- Waverly Oil Works Company. (See Willock, H. H., Caplan, and Babb, assignors.)
- Waxman, Samuel B., Baltimore, Md. Liping. 1,647,761; Nov. 1.
- Way, Alben W., Philadelphia, Pa. Automobile door hinge. 1,652,965; Dec. 13.
- Way, Alexander B., Lynn, Mass., assignor to L. A. Way, Pittsburgh, Pa. Treating hydrocarbons. 1,638,021; Aug. 9.
- Way, Alexander B., Lynn, Mass., assignor to L. A. Way, Pittsburgh, Pa. Material for the treatment of hydrocarbons. 1,638,022; Aug. 9.
- Way, Alva O., Schenectady, N. Y., assignor to General Electric Company. Coil former. 1,623,766; Apr. 5.
- Way, Lewis A. (See Way, Alexander B., assignor.)
- Wayman, Fred, Binghamton, N. Y. Device for controlling the operation of workmen's time clocks. 1,623,370; Apr. 5.
- Wayne Company. (See Baker, Linnaeus E., assignor.)
- Wayne Company. (See Gaston, Ralph M., assignor.)
- Wayne, Glenn H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lip-stick container. 1,640,886; Aug. 30.
- Wayne, Herbert N., Santa Monica, Calif. Resilient wheel. 1,639,827; Aug. 23.
- Wayne, Oscar T., Philadelphia, Pa., assignor to X-I Laboratories, Inc., New York, N. Y. Hand massage implement and medicine applicator. 1,626,127; Apr. 26.
- Wayne, William F., Edwardsville, Ill. Rail joint. 1,636,884; July 26.
- Weyringer, Henry A., Schenectady, N. Y., assignor to General Electric Company. Silica reactacle and process of manufacture. 1,624,699; Apr. 12.
- Weagant, Roy A., New York, N. Y., assignor to Radio Corporation of America. Antistatic aerial. 1,639,913; Aug. 23.
- Weagant, Roy A., New York, N. Y., assignor to Radio Corporation of America. Wireless-telegraph receiving apparatus. 1,645,660; Oct. 18.
- Weary, U. S., et al. (See Clark, Edward E., assignor.)
- Weatherhead, Albert J., jr., Cleveland, Ohio. Handle and making same. 1,617,557; Feb. 15.
- Weatherhead, Edward H. (See Müller, F. W., and Weatherhead.)
- Weatherproof Body Corporation. (See Ritter, Frederick D., assignor.)
- Weathers, Henry W., assignor of one-half to J. P. Doughty, jr., trustee, Augusta, Ga. Attachment for automobile indicators. 1,645,634; Oct. 18.
- Weaver, Albert E., assignor, by mesne assignments, to I. T. Swartz, trustee, Indianapolis, Ind. Carburetor. 1,618,030; Feb. 15.
- Weaver, Albert E., assignor, by mesne assignments, to I. T. Swartz, trustee, Indianapolis, Ind. Carburetor. 1,620,746; Mar. 15.
- Weaver, Albert E., assignor, by mesne assignments, to I. T. Swartz, trustee, Indianapolis, Ind. Carburetor. 1,639,621; Aug. 16.
- Weaver, Albert E., assignor, by mesne assignments, to I. T. Swartz, trustee, Indianapolis, Ind. Carburetor. 1,642,097; Sept. 13.
- Weaver, Albert E., assignor, by mesne assignments, to I. T. Swartz, trustee, Indianapolis, Ind. Carburetor. 1,648,087; Nov. 8.
- Weaver, Allan, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Transmission of pictures by electricity. 1,653,074; Dec. 20.
- Weaver, Clarence A. (See Catlin, Winfield, assignor.)
- Weaver, David P., Bridgeton, N. J., assignor to Hartford Empire Company, Hartford, Conn. Mold-charge-delivery funnel. 1,639,840; May 24.
- Weaver, Frank F., Dallas, Ore. Brood frame for bee-hives. 1,650,170; Nov. 22.
- Weaver, Frank L., and M. F. Campion, Norwich, Conn. Electrical connector. 1,629,189; May 17.
- Weaver, Gallard E. (See Buffington, H. C., and Weaver.)
- Weaver, Gallard E., assignor to Weaver Manufacturing Company, Springfield, Ill. Piston tool. 1,638,789; Aug. 9.
- Weaver, Gallard E., assignor to Weaver Manufacturing Company, Springfield, Ill. Truck jack. 1,638,790; Aug. 9.
- Weaver, Gallard E., assignor to Weaver Manufacturing Company, Springfield, Ill. Truck jack. 1,638,791; Aug. 9.
- Weaver, Gallard E., assignor to Weaver Manufacturing Company, Springfield, Ill. Forcing-press bolster-adjusting construction. 1,640,510; Oct. 25.
- Weaver, Gallard E., assignor to Weaver Manufacturing Company, Springfield, Ill. Tire changer. 1,650,674; Nov. 29.
- Weaver, Gallard E., and H. C. Buffington, assignors to Weaver Manufacturing Company, Springfield, Ill. Punching and riveting machine. 1,648,088; Nov. 8.
- Weaver, Gallard E., and A. R. Squyer, assignors to Weaver Manufacturing Company, Springfield, Ill. Trip mechanism for jacks. 1,648,036; Nov. 8.
- Weaver, Harry A., Indianapolis, Ind., assignor to Martin-Parry Corporation, York, Pa. Tire carrier. 1,634,278; July 5.
- Weaver, Herbert H., Chicago, and E. A. Bolen, assignors to Northwestern Corporation, Morris, Ill. Cutting and coating machine. 1,647,594; Nov. 1.
- Weaver, Ira A., Springfield, Ill., assignor, by mesne assignments, to Skinner Automotive Device Co., Inc., Sacramento, Calif. Oil and fuel saver. 1,640,865; Aug. 30.
- Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Jack. 1,650,810; Nov. 29.
- Weaver, Ira A., and J. Sternaman, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire changer. 1,646,511; Oct. 25.
- Weaver, James C., San Diego, and H. B. Ames, Indio, said Weaver assignor of one-fourth to R. C. Sparks and one-fourth to J. J. Draney, San Diego County, Calif. Gear-changing mechanism. 1,647,895; Nov. 1.
- Weaver, John L., Philadelphia, Pa. Portable woodworking machine. 1,643,325; Sept. 27.
- Weaver, Levi W., Elmore, Ind. Liquid strainer for orchard sprayers. 1,645,364; Oct. 11.
- Weaver, Lonnie C., Deming, N. Mex. Automatic control for windmills. 1,639,345.
- Weaver Manufacturing Company. (See Buffington, Harry C., assignor.)
- Weaver Manufacturing Company. (See Buffington, H. C., and Weaver, assignors.)
- Weaver Manufacturing Company, The. (See Heinke, Martin L., assignor.)
- Weaver Manufacturing Company. (See Weaver, Gallard E., assignor.)
- Weaver Manufacturing Company. (See Weaver, Gallard E., assignor.)
- Weaver Manufacturing Company. (See Weaver, G. E., and Squyer, assignors.)
- Weaver Manufacturing Company. (See Weaver, Ira A., assignor.)
- Weaver Manufacturing Company. (See Weaver, I. A., and Sternaman, assignors.)
- Weaver, Otto T., Dormont, Pa. Toy. 1,634,223; June 28.
- Weaver, Robert R., Chicago, Ill., assignor to General American Tank Car Corporation. Tank-equipped vehicle. 1,621,182; Mar. 15.
- Weaver, Ross, Forest City, Ark. Boll-weevil catcher. 1,624,773; Apr. 12.
- Weaver, Samuel E., Brooklyn, N. Y. Oil burner. 1,625,067; Apr. 19.
- Web Engineering Company, The. (See Baker, William E.)
- Webb, Alonzo C. (See Hamilton, Gertrude M.)
- Webb, Byron H., Washington, D. C., assignor to The Government and the People of the United States. Sterilizing cream. 1,646,671; Oct. 25.
- Webb, Edward C., assignor of one-half to G. H. Cowell, London, England. Cigarette case and like container. 1,623,512; Apr. 5.
- Webb, George, West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Dishwashing machine. 1,654,355; Dec. 27.
- Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Pavement-finishing machine. 1,628,088; May 10.
- Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Automatic discharge for concrete mixers. 1,628,378; May 10.
- Webb, George F., Hamilton, Ontario, Canada. Manufacturing tipless incandescent lamps. 1,653,752; Dec. 27.
- Webb, George L., Spencer, N. C. Adjustable journal wedge. 1,643,326; Sept. 27.
- Webb, Grover C., Dallas, Tex. Electromechanical door-operating device. 1,642,317; Sept. 15.
- Webb, Hartwell W., Leonia, N. J. Sound-recording device. 1,638,424; Aug. 9.
- Webb, Hartwell W., Leonia, N. J. Making sound records. 1,653,524; Dec. 20.
- Webb, Horace D. (See Mahler, J. J., and Webb.)
- Webb, Jean F., New York, N. Y. Submarine safety apparatus. 1,613,594; Jan. 4.
- Webb, Jean F., jr., New York, N. Y. Acknowledgment valve. 1,635,804; July 12.
- Webb, Jervis B., Detroit, Mich. Overhead loading mechanism. 1,639,768; Aug. 23.
- Webb, John C., Tonawanda, N. Y. Transmission or brake band. 1,622,477; Mar. 29.
- Webb, Martin L., Garden City, Kans. Wind turbine. 1,619,643; Mar. 1.

- Webb, Orta W., assignor to Stetson-Ross Machine Company, Seattle, Wash. Cutter-head journal assembly. 1,612,998; Jan. 4.
- Webb, Parcell T., Christchurch, New Zealand. Holder for fountain pens and the like. 1,620,930; Mar. 15.
- Webb, Robert D., Minden, La. Housing for high-density compressors. 1,637,976; Aug. 2.
- Webb, Robert R. (See Jones, J. M., and Webb.)
- Webb, Robert R., assignor to Charles K. Hadley Company, Los Angeles, Calif. Combined binder tray and cover. 1,649,500; Nov. 15.
- Webb, Samuel, Pittsburgh, Pa., assignor to National Tube Company. Milling machine. 1,646,891; Oct. 25.
- Webster, James H., Carrolltown, Pa. Attachment for arctic. 1,621,342; Mar. 15.
- Webster, James H., Carrolltown, Pa. Rear window. 1,622,933; Mar. 29.
- Webster, Lane D., et al. (See Young, John S., assignor.)
- Webster, William. (See Benjamin, B. R., and Webster.)
- Webster, William, La Grange, Ill., assignor to International Harvester Company. Knottor can offer for harvesters. 1,629,190; May 17.
- Webster, William J., Hill, E. L., and Webster.)
- Webbing and Edging Company. (See Jacobs, Joseph, assignor.)
- Weber, Abraham, New York, N. Y. Floor oiler. 1,626,991; May 3.
- Weber, Albert, Providence, R. I. Fastening member for vanity cases. 1,632,863; June 21.
- Weber, Albert, Providence, R. I. Vanity case. 1,632,864; June 21.
- Weber, Alfred, New York, N. Y. Lantern. Des. 73,393; Aug. 30.
- Weber, Alfred, New York, N. Y. Lantern. Des. 73,725; Oct. 25.
- Weber, Alfred, New York, N. Y. Incandescent-lamp bulb or similar article. Des. 74,040; Dec. 6.
- Weber, Ben E. (See Grubb, Frank, assignor.)
- Weber, Carl, Hilton, Nebr. Circuit closed for hold-up alarms. 1,630,455; May 31.
- Weber, Carl O., Dresden, Germany. Feeding device for grinding, milling, or boring machines and the like. 1,621,145; Mar. 15.
- Weber, Clarence J., assignor to National Brick Company, Chicago, Ill. Transport means for bricks and the like. 1,645,783; Oct. 18.
- Weber, Clifford A. M., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current motor. 1,624,378; Apr. 12.
- Weber, Edith L., Miami, Fla. Hand bag. Des. 73,419; Sept. 6.
- Weber Electric Company. (See Dunham, William G., assignor.)
- Weber Engine Company. (See Gold, Samuel B., assignor.)
- Weber, Frank R., Troy, assignor to Mohawk Brush Company, Albany, N. Y. Hairbrush. 1,628,291; May 10.
- Weber, Fred, assignor to Weber Showcase & Fixture Company, Los Angeles, Calif. Measuring device. 1,646,567; Oct. 25.
- Weber & Friedrich, Inc. (See Friedrich, Robert F., assignor.)
- Weber, Friedrich W., Hackensack, N. J. Mineral-tanned leather and making the same. 1,616,400; Feb. 1.
- Weber, Friedrich W., Hackensack, assignor to Maywood Chemical Works, Maywood, N. J. Treating animal tissues and products obtained therefrom. 1,621,965; Mar. 22.
- Weber, Friedrich W., Hackensack, N. J. Purification of oils. 1,636,946; July 26.
- Weber, Friedrich W., Hackensack, N. J. Treating animal tissues and products obtained therefrom. 1,642,054; Sept. 13.
- Weber, Gottlieb, Youngstown, Ohio. Automatic spike machine. 1,634,567; July 5.
- Weber, Gustavus E., Westcliff-on-Sea, England. Ticket-delivering apparatus. 1,650,556; Nov. 22.
- Weber, Harry M. (See Ellis, C., and Weber.)
- Weber, Henry C. J., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condensation product. 1,630,365; May 31.
- Weber, Henry C. P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Nonflammable varnish. 1,635,567; July 12.
- Weber, Henry E., Canton, Ohio. Hose coupling. 1,636,579; July 19.
- Weber, Herman G., Appleton, Wis., assignor of one-half to American Lakes Paper Company, Chicago, Ill. Coating machine. 1,616,724; Feb. 8.
- Weber, Isaac E., assignor of one-half to B. La Porte Limited and one-fourth to H. E. Alcock, Luton, England. Closure for bottles. 1,648,793; Nov. 8.
- Weber, John, assignor to The American-National Company, Toledo, Ohio. Juvenile wagon body. 1,620,931; Mar. 15.
- Weber, John N., Waukesha, Wis. Apparatus for giving mud baths. 1,636,401; July 19.
- Weber, Karl A., assignor to Weber Showcase & Fixture Company, Los Angeles, Calif. Molding-rubbing apparatus. 1,617,469; Feb. 15.
- Weber, Lilly E. (See Townley, Julian W., assignor.)
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Scale. 1,628,205; May 10.
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Weighing scale. 1,639,120; Aug. 16.
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Infant scale. 1,639,121; Aug. 16.
- Weber, Max, Chicago, Ill. Filler construction. 1,616,243; Feb. 1.
- Weber Showcase & Fixture Company. (See Weber, Fred, assignor.)
- Weber Showcase & Fixture Company. (See Weber, Karl A., assignor.)
- Weber, Tobias. (See Chase, Hamilton C., assignor.)
- Weber, Valentine, and E. G. Price, Newark, N. J. Thermodynamic control mechanism. 1,632,355; June 14.
- Weber, Walter S., assignor to Wm. H. Luden, Inc., Reading, Pa. Carton-closing mechanism. 1,641,794; Sept. 6.
- Weber, Walter S., and E. T. Snyder, Reading; said Walter S. Weber assignor to R. C. Rahm, Wymissing, Pa. Candy mixing and kneading machine. 1,639,319; Aug. 16.
- Webert, Louis P., Waterbury, Conn. Heater. 1,638,974; Aug. 16.
- Webster, Arvin C., Detroit, Mich. Connection for pistons and connecting rods. 1,632,049; June 14.
- Webster, Benjamin C., Southport, Conn., assignor, by mesne assignments, to Columbia Phonograph Company, Inc. Closure and its support. 1,628,855; May 17.
- Webster, Benjamin C., assignor, by mesne assignments, to Reynolds Spring Company, Jackson, Mich. Pull socket. 1,646,002; Oct. 18.
- Webster, Benjamin C., assignor, by mesne assignments, to Reynolds Spring Company, Jackson, Mich. Pull socket. 1,647,526; Nov. 1.
- Webster, Charles B., assignor to J. K. Lanning, Fall River, Mass. Machine for covering elastic filaments. 1,642,523; Sept. 13.
- Webster, Charles C., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lining-trimming machine. 1,629,560; May 24.
- Webster, Charles M. (See Martin, O. M., and Webster.)
- Webster, Earl P., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Conveyor chain. 1,621,859; Mar. 22.
- Webster, Earl P., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Biscuit-removal means. 1,627,331; Mar. 3.
- Webster, Earl P., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Sealing machine for cartons. 1,627,363; May 3.
- Webster, Earl P., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Biscuit-removal means. 1,627,364; May 3.
- Webster, Earl P., Niagara Falls, N. Y. Golf tee. 1,629,981; May 24.
- Webster Electric Company. (See Hawkins, William W., assignor.)
- Webster Electric Company. (See Kleckner, Arthur C., assignor.)
- Webster, George D. (See Ude, F. E., and Webster.)
- Webster, Hosen, Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Heat-transfer device. 1,641,999; Sept. 13.
- Webster, Leo N., Brentwood, Mo. Rotatable pipe joint. 1,648,383; Oct. 18.
- Webster, Lewis E., assignor to The Wyoming Shovel Works, Wyoming, Pa. Shovel handle. 1,652,076; Dec. 6.
- Webster, Lyman L., Franklinville, N. Y. Rail-tie support. 1,626,317; Apr. 26.
- Webster, Melvin L., Independence, Iowa. Reinforced compartmental receptacle. 1,614,701; Jan. 18.
- Webster, Milton W., assignor to A. M. Glenny, Toronto, Ontario, Canada. Nut lock. 1,649,047; Nov. 15.
- Webster, Paul E., assignor to Du Pont Cellophane Company, Inc., Buffalo, N. Y. Container decoration. 1,647,489; Nov. 1.
- Webster Tallmadge & Company. (See Tallmadge, Webster, assignor.)
- Webster, Warren & Company. (See Fitts, J. A., and assignor.)
- Wechsler, Samuel, Cleveland, Ohio. Attachment for sewing machines. 1,613,860; Jan. 11.
- Weekbaugh, Joseph V., assignor to American Cupcor Corporation, New York, N. Y. Manufacture of paper cups. 1,646,802; Oct. 25.
- Weekbaugh, Joseph V., assignor to American Cupcor Corporation, New York, N. Y. Drinking cup and making the same. 1,654,490; Dec. 27.
- Wecker, Ernst, Heilbronn, Germany. Separating volatile substances. 1,622,126; Mar. 22.
- Weierle, Ferdinand, assignor to Studiengesellschaft für Wirtschaft u. Industrie m. b. H., Munich, Germany. Electrical heating body for high temperatures especially for ceramic metallurgical processes and chemical processes. 1,637,167; July 26.
- Wedberg, Axel G. W., Floral Park, N. Y. Concrete construction. 1,628,897; May 3.
- Weddell, Albert, and W. T. Tolhurst, Tipton, England. 17th tub, wagon, and the like. 1,624,700; Apr. 12.
- Wedekind, Edwin H., deceased, San Francisco, Calif.; H. C. Haas, administrator. Subliming apparatus. 1,642,756; Sept. 20.
- Wedel, Harry E., New York, N. Y. Weather protector for motor-vehicle drivers. 1,654,393; Dec. 27.
- Wedze, Mary E., Hamilton, N. Y. Detachable strainer. 1,616,644; Feb. 8.

- Wedge, Utley, Ardmore, Pa., assignor to I. P. Thomas & Son Company, Camden, N. J. Producing phosphate fertilizer. 1,624,195; Apr. 12.
- Wedge, Utley, Paoli, Pa. Furnace. 1,653,681; Dec. 27.
- Wedgwood, Josiah, & Sons, Inc., of America. (See Goodwin, John B., assignor.)
- Wedgwood, Josiah, & Sons, Inc., of America. (See Jones, Edward O., assignor.)
- Wedlock, Frank V., Chicago, Ill., assignor to Featheredge Rubber Company, Inc. Continuous process of producing sponge rubber articles. 1,629,013; May 17.
- Weeber, Christian F., Albany, N. Y. Fuel system for internal combustion engines. 1,625,007; Apr. 19.
- Weech, Joseph, Galesburg, Ill. Signaling apparatus for automobiles. 1,620,048; Mar. 8.
- Weech, Joseph, Galesburg, Ill. Signaling device. 1,620,147; Mar. 8.
- Weed Control Company, The. (See Hughes, Hugh E., assignor.)
- Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Gen. Des. 71,858; Jan. 11.
- Weed, James M., Scotia, N. Y., assignor to General Electric Company. Induction furnace. 1,648,707; Nov. 8.
- Weed, James M., Scotia, N. Y., assignor to General Electric Company. Electric furnace. 1,650,675; Nov. 29.
- Weedon, Hugh H. (See Colley, George F., assignor.)
- Weeks, Allan L., Long Beach, Calif. Sporting device and life preserver. 1,647,677; Nov. 1.
- Weeks, Charles S., South Orange, N. J., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Package-banding machine. 1,650,811; Nov. 29.
- Weeks, Edmund G. (See Bottomley, W. T., and Weeks.)
- Weeks, Edward A., Elizabeth, N. J., assignor to Weeks, Sawyer & Co., New York, N. Y. Textile fabric. Des. 73,544; Sept. 27.
- Weeks, Elling O., Milwaukee, Wis. Radiator reflow device. 1,627,814; May 10.
- Weeks, Elling O., Milwaukee, Wis. Apparatus for retatomizing fuel. 1,650,405; Nov. 22.
- Weeks, Frank A., Mfg. Co. (See Kelly, Orson N., assignor.)
- Weeks, Herbert T., Tunbridge Wells, England. Clip or support for horticultural and other labels. 1,651,652; Dec. 6.
- Weeks, Paul, Detroit, Mich., assignor to the Secretary of War of the United States, trustee. Grouser. 1,629,768; May 24.
- Weeks, Paul T., Caldwell, N. J., assignor to Westinghouse Lamp Company. Electrical device for emitting light flashes and interrupting circuits. 1,647,595; Nov. 1.
- Weeks, Sawyer & Co. (See Weeks, Edward A., assignor.)
- Weeks, Virgil, Kansas City, Mo. Wardrobe trunk. 1,637,206; July 26.
- Weeks, Wallace M., et al. (See De Wallace, Harry, assignor.)
- Weeks, Wallace M., et al. (See Kavle, Oscar C., assignor.)
- Weeks, Wallace M., assignor of one-half to J. A. Pease, Skaneateles, N. Y. Bottle closure. 1,625,110; Apr. 19.
- Weeks, Wallace M., et al. (See Pease, Skaneateles, N. Y. Method and apparatus for applying bottle closures. 1,652,595; Dec. 13.
- Weeks, William W., assignor to Elevator Supplies Company, Inc., Brooklyn, N. Y. Door closing and check mechanism. 1,644,045; Oct. 4.
- Wego, Peter M., assignor to Metal Office Furniture Company, Grand Rapids, Mich. Leg construction for metal desks. 1,637,503; Aug. 2.
- Wegel, Raymond L., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission control. 1,613,422; Jan. 4.
- Wegel, Raymond L., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission control. 1,613,423; Jan. 4.
- Wegener, Francis A. (See Bliss, C. E., and Wegener.)
- Wegener, Louis F., St. Louis, Mo. Refrigerating machine. 1,652,966; Dec. 13.
- Wegh, Edward, Denver, Colo. Ironing board. 1,651,427; Dec. 6.
- Wegman, Ernest C., and W. A. Southwick, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for working strand material. 1,617,427; Feb. 15.
- Wegner, Arthur H., Jr., Washington, D. C. Transformer. 1,616,645; Feb. 8.
- Wegner, Hinrich F. W., Lubeck, Germany. Plowshare. 1,640,682; Aug. 30.
- Wegner, Julius, New York, N. Y. Mechanical movement. 1,624,085; Apr. 12.
- Wego, Peter C. (See Benke, G. W., and Wego.)
- Wehrhitz, Henry C., Jersey City, N. J. Cowl. 1,641,060; Aug. 30.
- Wehn, Charles E., assignor to Listo Pencil Corporation, Alameda, Calif. Pencil. 1,625,515; Apr. 19.
- Wehr, Arthur J., A. V. Elliot, and J. W. Sheeres, Fort Monmouth, N. J. Traffic indicator. 1,617,558; Feb. 15.
- Wehr, William G., East Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Grab. 1,630,456; May 31.
- Wehrlein, Henry L. (See Van Scoyoc, G., and Wehrlein, and Sionle.)
- Wehrle, Frank X., assignor to Seth Thomas Clock Co., Thomaston, Conn. Rack-and-snail strike clock. 1,614,165; Jan. 11.
- Weibel, Emil, Montreal, Quebec, Canada. Harness frame. Des. 72,726; July 16.
- Weibler, Caeton T., La Grange, assignor to All-American Radio Corporation, Chicago, Ill. Radio battery charger. 1,627,815; May 10.
- Weibull, Ernst H. W., assignor, by mesne assignments, to Nya Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller bearing. 1,622,985; Mar. 29.
- Weichert, Otto J. (See Topinka, J. F., and Weichert.)
- Weichert, Frederick C., and P. S. Turnbull, assignors of one-fourth to P. E. Weichert, Preston, and R. H. Woodcock, Dandenong, Victoria, Australia. Leather stiffener for the heels and toes of boots and shoes. 1,633,075; Dec. 20.
- Weichert, Pattle E., et al. (See Weichert, F. C., and Turnbull, assignors.)
- Welcher, Henry A. (See Hartman, C. C., and Welcher.)
- Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,614,092; Jan. 11.
- Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,614,093; Jan. 11.
- Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,643,327; Jan. 11.
- Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Synchronous motor. 1,643,398; Sept. 27.
- Weicker, Herman G., trustee. (See Wincel, Max, assignor.)
- Weiden, William W., Massillon, Ohio. Fuse-plug holder. Des. 72,580; July 19.
- Weide, Rudolf, assignor to the Firm Hermann Hurwitz and Co., Berlin, Germany. Transfer-printing apparatus. 1,635,297; July 12.
- Weidemann, George C., assignor of one-half to T. J. Smith, Cleveland, Ohio. Furnace. 1,626,576; Apr. 26.
- Weidenfeld, Samuel, New York, N. Y. Prize-game device. 1,625,922; Apr. 26.
- Weidenbagen, Rudolf. (See Spengler, O., Virck, and Weidenbagen.)
- Weidert, Franz, Berlin-Zehlendorf, assignor to Optische Anstalt G. P. Goerz Aktiengesellschaft, Berlin-Friedenau, Germany. Photographic two-lens objective. 1,643,865; Sept. 27.
- Weidlisch Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
- Weidmann, Hans, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Allied Process Corporation, New York, N. Y. Preparation of lithium carbonate. 1,623,513; Apr. 5.
- Weidner, Nathan, Brooklyn, N. Y. Beverage container. Des. 72,648; May 10.
- Weidner, Victor, Port Washington, assignor to Viking Products Corporation, New York, N. Y. Sign. 1,648,977; Nov. 15.
- Weigand, John L., et al. (See Poeppelmeier, Frank H., assignor.)
- Weigel, Daniel M., Trenton, N. J., assignor, by mesne assignments to The American Wire Cord Tire Company, Wilmington, Del. Pneumatic tire. 1,633,963; June 28.
- Weigel, Philip A., Riverton, N. J. Permutation lock. 1,616,725; Feb. 8.
- Weigle, Edmund, Bergenfield, N. J., assignor, by mesne assignments, to R. W. Bristol, doing business as Atlas Elevator Devices Co., New York, N. Y. Guide-rail lubricator. 1,643,083; Sept. 20.
- Weightograph Company, The. (See Hamblin, Fred B., assignor.)
- Weightograph Company, The. (See Schaper, Harry C., assignor.)
- Weightograph Company, The. (See Shively, Louis S., assignor.)
- Weil, Maximilian, New York, N. Y. Sound reproducer. 1,637,322; July 26.
- Weiland, Alfred, Neshanic, N. J., assignor to Pneumatic Appliances Corporation, New York, N. Y. Vehicle bumper. 1,636,706; Aug. 16.
- Weiland, Alfred, Neshanic, N. J., assignor to Pneumatic Appliances Corporation, New York, N. Y. Vehicle bumper. 1,637,364; Aug. 2.
- Weiland, Alfred, Neshanic, N. J., assignor to Pneumatic Appliances Corporation, New York, N. Y. Vehicle bumper. 1,644,046; Oct. 4.
- Weiland, Alfred, Neshanic, N. J., assignor to Sheldon Axle and Spring Company, Wilkes-Barre, Pa. Vehicle bumper. 1,645,561; Oct. 18.
- Weiland, Alfred, Neshanic, N. J., assignor to Pneumatic Appliances Corporation, New York, N. Y. Bumper construction. 1,645,562; Oct. 18.
- Weiland, Alfred, Neshanic, N. J., assignor to Pneumatic Appliances Corporation, New York, N. Y. Vehicle bumper. 1,651,008; Nov. 29.
- Weiland, Alfred, Neshanic, N. J., assignor to Pneumatic Appliances Corporation, New York, N. Y. Forming universal joints. 1,652,651; Dec. 13.
- Weiland, Henry J. (See Gubelmann, I., Weiland, and Stallman.)
- Weiland, William J., Indianapolis, Ind. Furnace radiator. 1,641,211; Sept. 6.

- Wellmann, Robert, Schaffhausen, Switzerland. Fastener to bind loose sheets of paper. 1,647,490; Nov. 1.
- Weiler, Charles, New York, N. Y. Saw. 1,650,476; Nov. 22.
- Weiler, Edward G. (See Burke, W. B., and Weiler.)
- Weiler, Nicholas, Canton, Ill. Bathing pump. 1,628,866; May 17.
- Weiler, Theodore H., et al. (See Broyles, John E., assignor.)
- Weiler, Wilhelm, Niedersachsenhausen, Berlin, Germany, assignor to General Electric Company. Single-phase induction-motor control system. 1,637,886; Aug. 2.
- Weiller, Henry, et al. (See Cooper, William D., assignor.)
- Weimer, Albert W., and J. Smith; said Weimer assignor to W. Parsons, Geneseo, Ill. Battery connection. 1,613,070; Jan. 4.
- Weimer, Albert W., and J. Smith; said Weimer assignor to W. O. Parsons, Geneseo, Ill. Battery terminal. 1,622,362; Mar. 29.
- Weimer, Hugo W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Shaft suspension. 1,641,715; Sept. 6.
- Weimer, Robert, Apple Creek, Ohio. Combined auto truck and sprayer. 1,623,221; Apr. 5.
- Weimer, Roy B., assignor to The Miller Rubber Company, Akron, Ohio. Inflatable toy. 1,622,356; June 14.
- Weinaug, Emil, and K. L. Macfarlane, assignors of one-half to J. Siven and one-half to W. E. Waechter, San Francisco, Calif. Universal electric testing instrument. 1,625,111; Apr. 19.
- Weinberg, Harold M., Brooklyn, N. Y. Container for toothbrushes. 1,651,496; Dec. 6.
- Weinberg, Issay, et al. (See Simons, Aaron, assignor.)
- Weinberg, Lowell C., Seattle, Wash. Fuel heater. 1,644,968; July 5.
- Weinberg, Morris, assignor to S. Weinberg, New York, N. Y. Top spinner. 1,642,280; Sept. 13.
- Weinberg, Nathan, et al. (See Simons, Aaron, assignor.)
- Weinberg, Selma. (See Weinberg, Morris, assignor.)
- Weinberger, Julius. (See Goldsmith, A. N., and Weinberger.)
- Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Method and apparatus for minimizing self-excited oscillations in vacuum-tube signaling devices. 1,618,319; Feb. 22.
- Weinberger, Viktor, M. Jakobovits, and I. Roth, New York, N. Y. Hot-chocolate and milk mixer and server. 1,654,356; Dec. 27.
- Weiner, Albert. (See Daur, Ernest I., assignor.)
- Weiner, Emil. (See Katims, H., and Weiner.)
- Weinert Knitting and Machine Company. (See Leister, Morris, assignor.)
- Weinfeld, Charles. (See Strauss, Joseph B., assignor.)
- Weinfeld, Charles, et al., executors. (See Herskovitz, Max.)
- Weingand, Richard. (See Czapek, E., and Weingand.)
- Weingartner, Anthony E., Bethlehem, assignor to American Engineering Company, Philadelphia, Pa. Rotary pump or motor. 1,622,986; Mar. 29.
- Weingartner, Anthony E., Bethlehem, assignor to American Engineering Company, Philadelphia, Pa. Separable coupling. 1,650,557; Nov. 22.
- Weingartner, George A., Fort Thomas, Ky. Cut-off mechanism for cigarette machines. 1,616,208; Feb. 1.
- Weinbart, Howard W., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum tube. 1,624,451; Apr. 12.
- Weinkle, Abraham M., Jacksonville, Fla. Mounting for inductance coils. 1,644,213; Oct. 4.
- Weinstein, Mores, Dallas, Tex. Combination cabinet, table, and desk. 1,652,465; Dec. 13.
- Weinstein, Otto, Boston, Mass., assignor to Standard Mopwear Company, Necktie. 1,622,749; Mar. 29.
- Weintraub, Eschiel, Neuilly-sur-Seine, France. Metallic vapor device. 1,627,070; May 3.
- Weintz, Jacob, Cleveland, Ohio. Rotary heating furnace. 1,639,243; Aug. 16.
- Weinzierl, Joseph T. (See Straub, F. J., and Weinzierl.)
- Weir, Horace M. (See Mann, M. D., Jr., and Weir.)
- Weir, James W., Fillmore, Calif., and W. J. Ryan, Jr., Seattle, Wash. Treating lubricating oil stocks. 1,650,782; Nov. 29.
- Weir, Roy W., assignor, by mesne assignments, to The Marvel Company, Hammond, Ind. Clutch. 1,653,938; Dec. 27.
- Weirich, Peter J., Adams, Wis. Locomotive fire door. 1,640,866; Aug. 30.
- Weir, Arthur R., assignor of one-half to Pacific Pump Works, Huntington Park, Calif. Deep-well column joint. 1,647,386; Nov. 1.
- Wels, Edmund. (See Serravallo, V., and Wels.)
- Wels, George G., Brooklyn, N. Y., assignor to Blaisdell Pencil Company, Philadelphia, Pa. Pencil sharpener. 1,628,039; May 10.
- Wels, John A., San Luis Obispo, Calif. Crutch. 1,635,914; July 12.
- Wels, John P., Nyack, assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Needle mechanism. 1,623,595; Sept. 27.
- Wels Manufacturing Company, The. (See Wuest, Albert G., assignor.)
- Weisbaum, Edward J., Cincinnati, Ohio. Necktie clasp. 1,644,863; Oct. 11.
- Weiscope, Marcus W., assignor to Standard Electric Products, Inc., Philadelphia, Pa. Slicing machine. 1,651,335; Nov. 29.
- Weiser, Alfred, New York, N. Y. Pocket umbrella. 1,632,639; June 14.
- Weise, Paul, Wiesdorf, near Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of chromium compounds. 1,631,170; June 7.
- Weisenborn, George P. A., Kansas City, Mo. Churn, mixing machine, and beater. 1,624,701; Apr. 12.
- Weisenfreund, Isak, New York, N. Y. Beverage container. Des. 73,884; Nov. 15.
- Weiser, Ivan E., and S. E., Tampa, Fla. Haircloth. 1,615,352; Jan. 25.
- Weiser, Samuel E. (See Weiser, Ivan E. and S. E.)
- Weiser, William H., Dallas, Oreg. Harding copper. 1,638,076; Aug. 9.
- Weisgarver, Charles E., and J. D. Harnish, Harrisburg, Pa. Float-operated circuit closer. 1,651,078; Nov. 29.
- Weisgerber, Edwin C., Long Beach, Calif. Pool joint. 1,637,628; Aug. 2.
- Weisgerber, Edwin C., Long Beach, assignor to Petroleum Appliance Syndicate, Los Angeles, Calif. Treating oils. 1,616,209; Feb. 1.
- Weisgerber, Henry D., Wheeling, W. Va., assignor of one-fourth to V. P. Wendle and one-fourth to L. W. Rose, Dover, Ohio. Roll polisher. 1,634,005; June 25.
- Weisger, Jesse W., Rocky Mount, N. C., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Pressure gauge. 1,648,206; Nov. 8.
- Weiske, Paul, Berlin, Germany, assignor to General Electric Company. Controlling driving motors. 1,615,665; Jan. 25.
- Weisman, Adolph, Brooklyn, N. Y. Manufacturing metal beds. 1,632,524; June 14.
- Weisman, John C., assignor to Hammer-Bray Company, Oakland, Calif. Air-deflecting means for closed-top burner chambers of gas stoves. 1,623,701; May 17.
- Weismantel, Joseph W., Newark, N. J. Street or road cleaning apparatus. 1,642,000; Sept. 13.
- Weiss, Adolph, Brooklyn, N. Y. Rotary intaglio-printing machine. 1,631,169; June 7.
- Weiss, Albert, New York, N. Y. Auto bumper. 1,642,281; Sept. 13.
- Weiss, Albert B., Kearney, N. J. Clock case or similar article. Des. 73,457; Sept. 13.
- Weiss, Benjamin, New York, N. Y. Locked safety garment hanger. 1,636,264; July 19.
- Weiss, Frank L., Bronx, N. Y. Incandescent electric bulb. 1,641,465; Sept. 6.
- Weiss, Frederick M., Chicago, Ill., assignor to Nye Company. Detachable-blade knife. 1,651,856; Dec. 6.
- Weiss, Georg, and E. Gentzke, assignors to Schuetz-Lanz Fultfahrzeugsbau- und Betriebs G. m. b. H., Zeesien, near Königswusterhausen, Germany. Pipe joint. 1,642,931; Sept. 20.
- Weiss, George, assignor to International Concrete Industries Corporation, Chicago, Ill. Actuating mechanism for molding machinery. 1,613,631; Jan. 11.
- Weiss, Gustav B. (See Elfrith, W. H., and Weiss.)
- Weiss, Harry H., Chicago, Ill. Furnace door. 1,645,171; Oct. 11.
- Weiss, Henry, Milbrae, Calif. Water cooler. Des. 72,508; Apr. 19.
- Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn. Utilizing wood waste. 1,631,171; June 7.
- Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn. Utilizing wood waste. 1,631,172; June 7.
- Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn. Wall board and making the same. 1,631,173; June 7.
- Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Wall board. 1,634,807; July 5.
- Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Wall construction. 1,634,808; July 5.
- Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Wall board. 1,634,809; July 5.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Wall and constructing the same. 1,642,232; Sept. 13.
- Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Paraffin-resisting surface for paraffin-absorbent boxes and making same. 1,646,893; Oct. 25.
- Weiss, Howard F., and R. F. Norris, Madison, Wis., assignors, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Molded product and its manufacture. 1,628,260; May 10.
- Weiss, Johannes, Leipzig, Germany. Sound-insulating plate slab. 1,628,000; May 10.
- Weiss, Leo L., New York, N. Y. Self-propelling toy. 1,623,144; Apr. 5.
- Weiss, M., Corporation. (See Elliot, John T., assignor.)
- Weiss, Max M., New York, assignor of one-third to R. Roebig and one-third to B. Glick, Brooklyn, N. Y. Washing device. 1,644,903; Oct. 11.
- Weiss, Moritz, New York, N. Y. Emergency lock for doors. 1,618,738; Feb. 22.

- Wells, Morris L., Newark, N. J., assignor to Devan Chemical Corporation, New York, N. Y. Vulcanizing rubber and products obtained thereby. 1,618,936; Feb. 8.
- Wells, Rudolph. (See Marx, Carl, assignor.)
- Weissbach, Paul, Gornau im Erzgebirge, Germany. Making stockings. 1,652,849; Dec. 13.
- Weissel, Robert G., Oakland, Calif. Automobile lock. 1,640,631; Aug. 30.
- Weissinger, Emil C., assignor to Builders' Needs, Incorporated, Milwaukee, Wis. Ornamental mantel. 1,630,910; May 31.
- Welstok, Alexander E. and H. Dahne, Baltimore, Md. Paper bag. 1,624,522; Apr. 12.
- Welsz, David, New York, N. Y. Umbrella cover and garment. 1,613,688; Jan. 11.
- Welsz, Deszö, New York, N. Y. Air cooling or heating apparatus. 1,635,869; July 12.
- Weltling, William W., trustee. (See Henry, Augustus M., assignor.)
- Weitzenkorn, Joseph W., assignor to Molybdenum Corporation of America, Pittsburgh, Pa. Steel alloy. 1,622,894; Mar. 29.
- Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Sewing-machine motor. 1,643,191; Sept. 20.
- Welch, Charles M., Ogden, Ark. Electrical transformer core or magnetic circuit. 1,642,470; Sept. 13.
- Welch, Charles M., Ogden, Ark. Electrical-transformer-containing case. 1,642,471; Sept. 13.
- Welch, George W., assignor to Brooks Rupture Appliance Company, Marshall, Mich. Truss. 1,618,313; Feb. 22.
- Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Waterproof cement. 1,644,964; Oct. 11.
- Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Waterproof plastic Portland cement and composition and making the same. 1,644,965; Oct. 11.
- Welch, Herman L., Los Angeles, Calif. Pocketknife-sharpening device. 1,639,204; Aug. 16.
- Welch, Jack T. (See Heddon, C. and Welch.)
- Welch, Jack T., assignor to James Heddon's Sons, Dowagiac, Mich. Artificial bait. 1,635,518; July 12.
- Welch, John B., New Orleans, La. Dry kiln. 1,648,089; Nov. 8.
- Welch, Lon E., Memphis, Tenn. Artificial stone or marble. 1,626,577; Apr. 26.
- Welch, Peter, and A. Murphy, Olean, N. Y. Wave filter receiving circuits. 1,638,008; Aug. 9.
- Welch, William W., Livermore, Calif. Scraper. 1,625,382; Apr. 19.
- Welcker, Rudolph, assignor of one-fourth to F. G. Neal, Springfield, Mass. Pressure-operated valve apparatus. 1,656,402; July 19.
- Welcker, Rudolph, assignor of one-fourth to F. G. Neal, Springfield, Mass. Tank car. 1,650,406; Nov. 22.
- Weldon, John J., Pittsfield, Mass., assignor to General Electric Company. Insulating element. 1,640,433; Aug. 30.
- Weldy, B. E. (See Forsyth, Jesse B., assignor.)
- Welk, Nelson S., assignor to The McBee Binder Company, Athens, Ohio. Binder for loose-leaf files. 1,623,145; Apr. 5.
- Welk, Nelson S., assignor to The McBee Binder Co., Athens, Ohio. Filling tray. 1,626,898; May 3.
- Welk, Nelson S., assignor to The McBee Binder Co., Athens, Ohio. Filing tray. 1,633,957; Dec. 27.
- Welke, Ferdinand G. (See McDonald, F. A., and Welke.)
- Welle, Henry C., Crockett, Calif. Treating sugar. 1,624,296; Apr. 12.
- Wellensiek, Louis H. (See Scott, F. L., and Wellensiek.)
- Wellensiek, Louis H., Houston, Tex. Drilling wells. 1,621,569; Mar. 22.
- Weller, George L., assignor to Kalman Steel Company, Chicago, Ill. Road strip. 1,629,750; May 24.
- Weller, Herbert C., Tuscola, Ill. =Color rheostat. 1,613,337; Jan. 4.
- Weller, John C., Newark, Calif. Gauge. 1,629,426; May 17.
- Wellert, Anton, Binghamton, N. Y. Vehicle signal. 1,633,964; June 28.
- Wellies, Jesse C., Hemet, Calif. Walnut dehydrator. 1,641,716; Sept. 6.
- Wells, Roger S., et al. (See Nesmith, Samuel D., assignor.)
- Wellington, Arthur W., assignor to The Chase Companies Inc., Waterbury, Conn. Rocking-handle flush-tank fitting. 1,627,943; May 10.
- Wellkamp, Frank J. (See Kopp, J. A., Guenther, Wellkamp, and Meyer.)
- Wellman Company. (See McGowan, Peter J., assignor.)
- Wellman, Frank E. (See Beasley, Stanley F., assignor.)
- Wellman, Frank E., Kansas City, Mo. Cracking oil. 1,616,521; Feb. 8.
- Wellman, Frank E., Kansas City, Kans. Liquid-level indicator. 1,619,553; Mar. 1.
- Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Cracking oil. 1,615,779; Jan. 25.
- Wellman, Frank E., assignor to Kansas City Gasoline Company, Kansas City, Kans. Apparatus for heating oils. 1,639,022; Aug. 16.
- Wellman, Harrison W., Jr., Edgewater, Colo. Internal-combustion engine. 1,618,360; Feb. 22.
- Wellman, Haskell F. (See Fearing, J. L., and Wellman.)
- Wellman, Lester R., assignor to Stenbridge & Brandt, Chicago, Ill. Bracket back for lighting fixtures. Des. 73,545; Sept. 27.
- Wellman, Lester R., assignor to Stenbridge & Brandt, Chicago, Ill. Plate for lighting fixtures. Des. 73,726; Oct. 25.
- Wellman, Samuel K., Cleveland, Ohio. Shock absorber. 1,631,077; May 31.
- Wellman, Samuel K., Cleveland, Ohio. Shock absorber. 1,631,078; May 31.
- Wellman, Samuel K., Cleveland, Ohio. Shock absorber for automobiles. 1,631,079; May 31.
- Wellman, Samuel K., Cleveland Heights, and A. A. Gould, Cleveland, Ohio. Lubricating apparatus. 1,637,841; Aug. 2.
- Wellman, Samuel K., and G. R. Pennington, Cleveland Heights, Ohio. Equalizing brake for vehicles. 1,639,320; Aug. 16.
- Wellman-Seaver Morgan Company, The. (See Case, E. A., assignor.)
- Wellman, William W., Las Vegas, Nev. Locomotive feed-pump gauge. 1,631,714; June 7.
- Wellmann, Wilhelm. (See Roeder, J., and Wellmann.)
- Wells, Albert B., Southbridge, Mass. Lens. 1,647,721; Nov. 1.
- Wells, Amos S., Minneapolis, Minn. Dental instrument. 1,639,910; Aug. 23.
- Wells, Arthur E., Toronto, Ontario, Canada. Grating. 1,620,846; Mar. 15.
- Wells, Benjamin F., Handley, Tex. Meter case. 1,616,988; Feb. 1.
- Wells, Burling D. (See Blair, R. S., and Wells.)
- Wells, Burling D., Danbury, assignor to R. S. Blair, Stamford, Conn. Deflation alarm for pneumatic tires. 1,619,450; Mar. 1.
- Wells, Charles G., et al. (See Marvin, Samuel W., assignor.)
- Wells, Charles H. (See Coghill, Charles W., assignor.)
- Wells, Charles H., Endicott, Nebr. Stock-car partition. 1,646,604; Oct. 25.
- Wells, Charles W. (See Sundblad, Uno L., assignor.)
- Wells, Chester R. (See Gilpin, V. L., and Wells.)
- Wells, Cyrus B., Auburn, N. Y., assignor to The Scranton Rubber Company, Scranton, Pa. Machine for trimming the edges of molded disks. 1,633,552; June 21.
- Wells, Daniel R., Reading, Pa. Sound reproducer for phonographs and the like. 1,648,432; Nov. 8.
- Wells, Edward L., assignor to American Steel Products Co., Macomb, Ill. Oil-burner-control mechanism. 1,629,191; May 17.
- Wells, Frank, Mobile, Ala., assignor, by means assignments to Evr Klean Seat Pad Co., St. Louis, Mo. Clothes protector. 1,636,885; July 26.
- Wells, Frank E. (See Wells, Willet C. and F. E.)
- Wells, George W., Amesbury, Mass. Windshield adjuster. 1,618,121; Feb. 15.
- Wells, George W., Amesbury, Mass. Doorstop. 1,618,250; Feb. 22.
- Wells, Joel B., Philadelphia, Pa. Skirt gauge. 1,627,588; May 10.
- Wells, John H., Boston, Mass., assignor to Multislee Rotary Press Co., Limited, Toronto, Canada. Variable speed mechanism. 1,628,939; May 17.
- Wells, Ralph J., Dayton, Ohio. Railway-track construction. 1,627,217; May 3.
- Wells, Reginald E., East Orange, N. J., assignor to General Motors Corporation, Detroit, Mich. Roller bearing. 1,617,613; Feb. 15.
- Wells, Sidney D., Quincy, Ill. Cooking vegetable fiber. 1,626,171; Apr. 26.
- Wells, Sidney D., assignor to Paper Mill Laboratories, Inc., Quincy, Ill. Disintegrating mill. 1,647,555; Nov. 1.
- Wells, Thomas A. (See Van Derwyk, John D., assignor.)
- Wells, Walter A., Washington, D. C. Surgical instrument. 1,635,086; July 5.
- Wells, Wesley E. (See Fisher, A. W., and Wells.)
- Wells, Willet C., and F. E., Columbus, Ohio. Process of and apparatus for breaking up the components of petroleum and the like into more volatile products. 1,635,519; July 12.
- Wells, William F., Chicago, Ill. Electrical switch. 1,637,461; Aug. 2.
- Wells, William S., Bethlehem, Pa., assignor to Benjamin Eastwood Company, Paterson, N. J. Loom. 1,636,343; July 19.
- Wellstatter, Rosa R., New York, N. Y. Garment. 1,629,561; May 24.
- Welp, William, St. Louis, Mo. Safety device. 1,621,146; Nov. 1.
- Welsbach Company. (See Bliss, C. E., and Wegener, assignors.)
- Welsbach Company. (See Lyon, Howard, assignor.)
- Welsbach Traffic Signal Company. (See Keith, William G., assignor.)
- Welsch, Sigmund, assignor to David Brown & Sons (Huddersfield) Limited, Huddersfield, England. Expanding reamer. 1,635,103; July 5.
- Welsch, August L. and W. H., Valmeyer, Ill. Automobile pump. 1,630,150; May 24.
- Welsch, William H. (See Welsch, August L. and W. H.)
- Welsch, George B., Jr., assignor to Chain Belt Company, Milwaukee, Wis. Mechanism for operating cleaning brushes and similar apparatus. 1,643,866; Sept. 27.

- Welsh, James H., Monmouth, Ill. Road maintainer and grader. 1,632,685; June 14.
- Welsh, James W. (See Stevens, F. A., and Welsh.)
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,636,339; July 19.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple. 1,636,340; July 19.
- Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,642,833; Sept. 20.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,649,791; Nov. 15.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting and method. 1,649,792; Nov. 15.
- Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,649,793; Nov. 15.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,650,576; Nov. 22.
- Welsh, James W., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting and method. 1,652,421; Dec. 13.
- Welsh, Thomas E., Woodbridge, Conn. Jar-opening device. 1,620,706; Mar. 15.
- Welscher, Samuel I., New York, assignor, by mesne assignments, to F. A. Bower, Bayside, N. Y. Washing compound. 1,628,015; May 10.
- Welspiel, Letitia. (See Arnett, Florence, assignor.)
- Welspiel, Letitia. (See Arnett, F., and Welspiel.)
- Welte-Mignon Corporation. (See Check, Tolbert F., assignor.)
- Welter, Georg. (See Czochralski, J., and Welter.)
- Welter, Georg, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Ahne, Process Corporation, New York, N. Y. Lithium-containing bearing metals. 1,652,077; Dec. 6.
- Welter, Georg, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to Allies Process Corporation, New York, N. Y. Lead-alkali metal containing bearing-metal alloys. 1,652,078; Dec. 6.
- Welter, George J., Tiffin, Ohio. Pump. 1,641,717; Sept. 6.
- Welter, Sebastian J., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Milling cutter. 1,621,226; Mar. 15.
- Welter, Sebastian J., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Chain pipe vise. 1,653,326; Dec. 13.
- Wetlon, P. E., Engineering Company, The. (See Wetlon, P. E., and Wadsworth, assignors.)
- Wetlon, Park E., Cuyahoga Falls, Ohio, assignor to Tiregase Valve Corporation, Charleston, W. Va. Tire pressure gauge. 1,648,332; Nov. 8.
- Wetlon, Park E., Cleveland, Ohio. Extruding machine. 1,652,189; Dec. 13.
- Wetlon, Park E., and G. H. Wadsworth, assignors to The P. E. Wetlon Engineering Company, Akron, Ohio. Briquetting fuel. 1,642,055; Sept. 13.
- Wetlon, Rosie A., et al. (See Moore, Samuel M., assignor.)
- Wetly, Arch, et al. (See Appleton, Russell V., assignor.)
- Wetly, Arthur, et al. (See Appleton, Russell V., assignor.)
- Wetly, Fred, et al. (See Appleton, Russell V., assignor.)
- Wetly, George D., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Piston. 1,638,898; Aug. 16.
- Wetly, Earl H. (See Pratt, L. S., Wetly, and Mills.)
- Wemb Company, The. (See Wagner, Albert G., assignor.)
- Wemlinger, William F., assignor of one-third to L. Bauer and one-third to J. Bellingham, Columbus, Ohio. Link-forming device. 1,629,751; May 24.
- Wempe, Friedrich. (See Hartman, O. H., and Wempe.)
- Wempe, Friedrich, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Cassel-Wilhelmsbohe, Germany. Method of and apparatus for automatically regulating the water level in steam boilers. 1,646,945; Oct. 25.
- Wendel, Edmund, Cleveland, Ohio, assignor to National Carbon Corp., Inc. Tabular rotary retort fluid distributor and support. 1,614,220; Jan. 11.
- Wendel, Frans B., Cranford, N. J., assignor to P. Sullivan, New York, N. Y. Toy or similar article of manufacture. Des. 73,546; Sept. 27.
- Wendel, William F., Girard, Pa. Ice-cream disher. 1,627,132; Mar. 8.
- Wendle, V. P., et al. (See Weisgerber, Henry D., assignor.)
- Wendle, Virgil P., and M. L. Hunker, assignors to The Reeves Manufacturing Company, Dover, Ohio. Closure for containers. 1,639,244; Aug. 16.
- Wendler, Alex., Charlottenburg, assignor to J. Falk, Berlin-Tempelhof, Germany, and C. H. Huberich, The Hague, Netherlands. Increase the crops of plants and fruits. 1,636,931; July 26.
- Wendling, Albert G., Kitchener, Ontario, Canada. Exhaust muffler. 1,622,692; Mar. 29.
- Wendt, Gerald L. (See Rogers, F. M., Grimm, and Wendt.)
- Wendt, Gustave A., Spokane, Wash. Machine for ornamenting linings. 1,618,562; Feb. 22.
- Wendt, Paul H. W., Jersey City, N. J. Clothespin. 1,634,892; July 6.
- Wendy, Jacob, Highland, Ill. Wing construction for airplanes. 1,628,940; May 17.
- Wenham, Douglas. (See Murphy, G. O., and Wenham.)
- Wenholz, Walter W., assignor to General Railway Signal Company, Rochester, N. Y. Absolute-permissive-block train-control system. 1,623,023; Mar. 29.
- Wenzel, Henry, Hamburg, assignor to National Aniline and Chemical Co., Inc., New York, N. Y. Dye composition containing soluble-cotton yellow G. 1,647,162; Nov. 1.
- Wenndt, Arnold, Lowden, Iowa. Truck for disk cultivators. 1,619,904; Mar. 8.
- Wenninger, Gerard P., assignor to Western Electric Company, Incorporated, New York, N. Y. Protective device. 1,635,050; June 14.
- Wenner, John C., Carrollton, Ohio. Tractor hitch. 1,612,896; Jan. 4.
- Wenner, John C., Carrollton, Ohio. Tractor hitch. 1,629,412; Apr. 26.
- Wensel, Louis, Los Angeles, Calif. Casement fastener. 1,652,548; Dec. 13.
- Wensinger, Charles F., Fremont, Ohio. Luggage carrier. 1,652,967; Dec. 13.
- Wensley, Richard, Denver, Colo. Drum trap. 1,631,445; Dec. 13.
- Wensley, Roy J., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-starting system. 1,633,965; June 28.
- Wensley, Roy J., Edgewood Park, Pa., and S. G. Leonard, Gas assignors to Westinghouse Electric & Manufacturing Company. Transfer system for automatic stations. 1,649,048; Nov. 15.
- Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,650,970; Nov. 29.
- Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Quick-acting thermal relay. 1,654,315; Dec. 27.
- Went, William F., Colorado Springs, Colo. Time feeder for domestic animals. 1,619,172; Mar. 1.
- Wente, Edward C., assignor to Western Electric Company, Incorporated, New York, N. Y. Translating device. 1,638,555; Aug. 9.
- Wente, Emil C., Waverly, Iowa. Tile fork. 1,643,867; Sept. 27.
- Wentorf, Robert H., West Bend, Wis., assignor to West Bend Aluminum Company. Valve for cooking vessels. 1,643,443; Sept. 27.
- Wentworth, Elihu P., East Orange, and N. W. Lyon, Caldwell, N. J., assignors to The New York Air Brake Company. Pressure-retaining valve. 1,626,109; Apr. 26.
- Wentworth, Ernest G., Sacramento, Calif. Digible headlight for motor vehicles. 1,629,752; May 24.
- Wentworth, Merton W., Battle Creek, Mich., assignor to Sanitarium and Hospital Equipment Company. Therapeutic apparatus. 1,643,899; Sept. 27.
- Wentworth, Philip C., Providence, R. I. Twister traveler and making same. 1,642,472; Sept. 13.
- Wentworth, William E., San Antonio, Tex. Pump jack. 1,628,702; May 17.
- Wentz, Jere L., Passaic, N. J. Massage machine. 1,630,911; May 31.
- Wentz, Jere L., Passaic, N. J. Massage machine. 1,643,039; Sept. 20.
- Wentz, Jere L., Passaic, N. J. Massage machine. 1,643,040; Sept. 20.
- Wentz, Jesse F., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric fuse. 1,618,251; Feb. 22.
- Wenz, Jonathan, Pforzheim, Germany. Chain-making machine. 1,647,753; Aug. 2.
- Wenz, Jonathan, J. Alvera, and G. Brunnhubner, Pforzheim, Germany. Soldering art. 1,619,837; Mar. 8.
- Wenz, Karl, Kiel-Hasse, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Garden, Germany. Diaphragm sander. 1,614,853; Jan. 1.
- Wenzel, Albert W. (See Wenzel, Jacob B., assignor.)
- Wenzel, Heinrich, Berlin, Germany. Gun. 1,614,053; Jan. 11.
- Wenzel, Henry O., Michigan City, Ind. End gate. 1,634,224; June 28.
- Wenzel, Jacob B., Elm, Colo., assignor to A. W. Wenzel, New York, N. Y. Packing ring. 1,642,524; Sept. 13.
- Wenzel, Julius E., Aue, Germany, assignor to Firma Ernst Gessner Aktiengesellschaft, Aue/Erzgebirge. Twist tube for use in ring-spinning machine. 1,616,015; Feb. 1.
- Wenzel, William A., and G. J. Randle, Philadelphia, Pa. Matrix-cleaning machine. 1,648,794; Nov. 8.
- Wenzelmann, Gustave, and H. G. Paton, Galesburg, Ill. Dishwashing machine. 1,647,490; Nov. 1.
- Wenzin, John, Tyler, Minn. Portable fence. 1,618,739; Feb. 22.
- Weppler, Electric Co. (See Mutscheller, Arthur, assignor.)
- Wepplio, Henry C., Minneapolis, Minn. Air pump. 1,613,338; Jan. 4.
- Wepplio, Henry J., Minneapolis, Minn. Air pump. 1,623,647; Apr. 6.

- Werber, Hermann T., Brooklyn, N. Y. Turbine. 1,630,151; May 24.
- Werbitzky, Theophilus D., Cleveland, Ohio. Rotary valve for internal-combustion engines. 1,619,226; Mar. 1.
- Werbner, Simon, Linton, Ind. Apparatus for casting curved stereotype plates. 1,631,944; June 7.
- Wercely, Edw., Mason City, Iowa. Internal-combustion engine. 1,615,895; Feb. 1.
- Werkley, George. (See Rester, H. E., and Werkley.)
- Werden, Ralph, Trinidad, Colo. Cover for switch boxes. 1,614,542; Jan. 18.
- Werder, John F., Cleveland, Ohio. Abrasive compound. 1,623,222; Apr. 5.
- Weresiuk, Onufre, New Castle, Pa. Curtail and shade bracket. 1,617,039; Feb. 8.
- Werking, Leroy C. (See Benner, R. C., and Werking.)
- Werking, Leroy C., New York, N. Y., assignor to The Prest-O-Lite Company, Inc. Making storage-battery elements. 1,613,211; Jan. 4.
- Werltz, Arthur, Berlin, Germany. Sounding figure. 1,627,365; May 3.
- Wermes, Frederick J., Norwood, assignor to S & W Machine Company, Cincinnati, Ohio. Printed sheet-delivery attachment for printing presses. 1,628,292; May 10.
- Wermine, Hugo H., assignor to Belden Manufacturing Company, Chicago, Ill. Spool. 1,629,562; May 24.
- Wernecke, Otto, assignor to Grimme, Natis & Co. Ak. Hingengesellschaft, Braunschweig, Germany. Brunswick, Germany. Nesting mechanism for calculating machines. 1,654,441; Dec. 27.
- Werner, A. M. (See Nerew, Morne, assignor.)
- Werner, Charles L. (See Werner, Theodore and C. L.)
- Werner, George W., Easton, Pa. Coin control for electric motor operated machines. 1,641,212; Sept. 6.
- Werner, John, & Sons Inc. (See Werner, Theodore and C. L., assignors.)
- Werner, Joseph, Perth Amboy, N. J. Flush box. 1,620,503; Mar. 8.
- Werner, Karl. (See Christlein, P. and Werner.)
- Werner, Karl, Dresden, Germany. Producing sand molds for molding one piece plates. 1,634,731; July 5.
- Werner, Oscar, Bridgeport, Conn. Internal-combustion engine. 1,616,157; Feb. 1.
- Werner, Ralph M., Brooklyn, N. Y. Detachable shaft. 1,631,236; June 7.
- Werner, Theodore and C. L., assignors to John Werner & Sons Inc., Rochester, N. Y. Candy-forming machine. 1,652,226; Dec. 13.
- Werner, Wilbur S., Covington, Ky. Electrical connector. 1,648,518; Nov. 8.
- Werner, William, Mexia, Tex. Magnetic pump. 1,629,329; May 17.
- Werner, William, Mexia, Tex. Multiple-stage pump. 1,634,279; July 5.
- Werneth, Francis J., Towson, Md. Luggage carrier for automobiles. 1,617,828; Feb. 15.
- Wernicke, Louis, West Bend, Wis. Air motor. 1,628,867; May 17.
- Wernig, Frederick A., Brooklyn, N. Y., assignor to New York Wire & Spring Company. Automobile fender guard. 1,651,479; Nov. 29.
- Wernig, John S., Brooklyn, N. Y. Automobile bumper. 1,627,218; May 3.
- Wernig, John S., Brooklyn, N. Y., assignor of one-fourth to J. F. O'Brien, Englewood, N. J. Impact bar for automobile bumpers. 1,651,792; Dec. 6.
- Wernie, Karl A., assignor to James B. Clow & Sons, Chicago, Ill. Spud for waste connections and the like. 1,637,365; Aug. 2.
- Wernie, Karl A., assignor to James B. Clow & Sons, Chicago, Ill. Hanger for wall closets. 1,650,057; Nov. 22.
- Werst, Willard C., Pendleton, Oreg. Doorknob spindle. 1,622,324; Apr. 5.
- Wert, Cyrus S., Kendallville, Ind. Applying cement hardener and waterproofing to the main body and face of a concrete brick. 1,641,874; Sept. 6.
- Wertenberger, Roy. (See Warmoth, G. W., and Wertenberger.)
- Wertenbruch, Antony, assignor to Larowe Milling Company, Detroit, Mich. Bag-filling machine. 1,616,016; Feb. 1.
- Wertheimer, Max, Chicago, Ill. Toaster. 1,625,008; Apr. 19.
- Wertz, Austin L., Lakewood, assignor to M. C. Rosenfeld, Cleveland, Ohio. Frostproof drain valve. 1,640,475; Aug. 30.
- Wertzberger, Dallas D., Tulsa, Okla. Bottom-leg construction for well derricks. 1,636,886; July 26.
- Wesala, Matthew E., Chicago, Ill. Cover for military hats. 1,615,780; Jan. 25.
- Weschke, Alexander, Berlin-Schoneberg, Germany. Gymnastic implement. 1,631,388; June 7.
- Wescott, William B., Dover, Mass. Treating latex and product thereof. 1,630,411; May 31.
- Wescott, William B., Dover, Mass. Centrifugal machine. 1,630,412; May 31.
- Wescott, William B., Quincy, Mass., assignor to The Rubber Latex Research Corporation, Boston, Mass. Curing. 1,645,635; Oct. 13.
- Wescott, William B., Quincy, assignor to The Rubber Latex Research Corporation, Boston, Mass. Batching process. 1,646,605; Oct. 25.
- Wesenberg, Georg. (See Günzler, H., and Wesenberg.)
- Weski, Oskar, Berlin, Germany. Pressure bottle. 1,644,966; Oct. 11.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,649; May 10.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,650; May 10.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,651; May 10.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,652; May 10.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,653; May 10.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,654; May 10.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,655; May 10.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,656; May 10.
- Wess, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,657; June 7.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,658; Sept. 13.
- Wesp, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,659; Sept. 13.
- Wess, George, assignor to Rosenthal China Corporation, New York, N. Y. Plate or similar article. Des. 72,660; Nov. 1.
- Wessblad, Karl F. (See Blomquist, J. V., and Wessblad.)
- Wess, Howard E., assignor to The Hart & Cooley Manufacturing Company, New Britain, Conn. Book end. Des. 73,215; Aug. 2.
- Wessellus, Sybrant. (See Thebaud, V. E., and Wessellus.)
- Wessman, Edwin G. (See Dawson, C. F., and Wessman.)
- Wessman, Edwin G., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Cup dispenser. 1,643,566; July 5.
- Wesson Sales Company, The. (See Smith, John H., assignor.)
- West, Augustus A., Philadelphia, Pa. Supplementary exhaust for internal-combustion engines. 1,643,912; Sept. 27.
- West, Charles H., Pittsburgh, assignor to Westmoreland Glass Company, Grapeville, Pa. Candlestick. Des. 72,663; May 17.
- West, Claude A., Detroit, Mich. Milling cutter. 1,615,969; Feb. 1.
- West, Derrick S., Portland, Oreg. Vise. 1,630,993; May 31.
- West Disinfecting Company. (See Kooperstein, Louis, assignor.)
- West, Donald C. (See Whittaker, C. C., and West.)
- West, Ernest. (See West, Frederick J. and E.)
- West, Frederick J. and E., assignors to West's Gas Improvement Company Limited, Manchester, England. Coke extractor for vertical retorts. 1,617,732; Feb. 15.
- West, H. J., and Company Limited. (See Prestage, Edw., assignor.)
- West, Harry E., Decatur, Ill. Automobile visor. 1,637,542; Aug. 2.
- West, Herbert W., Roanoke, Va. Brake-operated circuit closer. 1,629,597; May 14.
- West, James, Jamaica Plain, Mass. Marking device. 1,623,291; Apr. 5.
- West, John R., Jackson, Tenn. Direction signal. 1,647,896; Nov. 1.
- West, Lawrence B., Chattanooga, Tenn. Apparatus for drying and heating material. 1,641,108; Aug. 30.
- West, Mary J., Nelson, England. Manufacture of caps. 1,631,389; June 7.
- West, Maxwell A., Portland, Oreg. Loading jack. 1,644,904; Oct. 11.
- West, Otto, Cleveland, Ohio, assignor to The Miller Company, Meriden, Conn. Lamp socket. 1,629,243; May 17.
- West, Perry. (See Musselman, J. R., and West.)
- West, Peter S. L., Brooklyn, N. Y. Fuel economizer. 1,616,401; Feb. 1.
- West, Roger R., Norwood, London, England. Automatic weighing machine. 1,623,820; Apr. 5.
- West Bend Aluminum Company. (See Kircher, Ralph N., assignor.)
- West Bend Aluminum Company. (See Wentorf, Robert H., assignor.)
- West Bend Equipment Corporation. (See Quade, A., and Klumb, assignors.)
- Westberg, Sigurd, Pittsburgh, Pa. Heat-treating furnace. Des. 72,739; Feb. 15.
- Westberg, Sigurd, Germantown, Pa. Making iron and steel. 1,629,563; May 24.
- Westbrook, Frank L., Springfield, Mo. Take-up. 1,614,221; Jan. 11.
- Westbrook, James R. (See Schweiker, M. A., and Westbrook.)
- Westbury, William, Canastota, and P. W. Collins, Elmira, N. Y. Manufacture of glass articles. 1,620,308; Mar. 8.

- West Coast Knitting Mills. (See Stephens, Herman F., assignor.)
- Westco-Chippewa Pump Company et al. (See Borneman, Herman A. F., assignor.)
- Westco-Chippewa Pump Company. (See Holmes, Robert E. L., assignor.)
- Westcott, Ada K., administratrix. (See Westcott, Henry P.)
- Westcott, Henry P., deceased, Erie, Pa.; A. K. Westcott, administratrix. Differential-pressure gauge for orifice meters. 1,616,522; Feb. 8.
- Westerbeck, Frederick, St. Louis, Mo. Pouring spout for liquid containers. 1,643,796; Sept. 27.
- Westerberg, Axel M., and J. M. Sickle, New York, N. Y. Knee clamp. 1,634,164; June 28.
- Westerfield, Granville G., Indianapolis, Ind. Carrying ball. 1,645,839; Oct. 18.
- Westerfors, Johan G., Los Angeles, Calif. Bookrack. 1,654,027; Dec. 27.
- Westerlund, William N., et al. (See McDonald, John C., assignor.)
- Westernman, Frederick, Chicago, Ill. Machine for icing cakes. 1,653,486; Dec. 20.
- Westernman, Harry G., Philadelphia, Pa. Adjustable expansion burnerpot stand. 1,652,079; Dec. 6.
- Westernman, William H., Marietta, Ohio. Thread guard. 1,640,969; Aug. 30.
- Westernman, William H., Marietta, Ohio. Thread protector. 1,640,970; Aug. 30.
- Western Blind & Screen Co. (See Trinkaus, Alphonso, assignor.)
- Western Cartridge Company. (See Clynch, R. G., and Williams, assignors.)
- Western Cartridge Company. (See Olin, Franklin W., assignor.)
- Western Cartridge Company. (See Olin, J. M., Davis, and Smith, assignors.)
- Western Cartridge Company. (See Olin, J. M., and O'Neill, assignors.)
- Western Cartridge Company. (See Olin, J. M., and Smith, assignors.)
- Western Cartridge Company. (See O'Neill, Arthur S., assignor.)
- Western Clock Company. (See Schierholtz, Henry A., assignor.)
- Western Coil & Electrical Co. (See Eells, Milton M., assignor.)
- Western Coil & Electrical Co. (See Lewis, W. T., and Bells, assignors.)
- Western Drop Forge Company. (See Moreland, George E., assignor.)
- Western Electric Company. (See Adams, Arthur H., assignor.)
- Western Electric Company. (See Adams, William J., jr., assignor.)
- Western Electric Company. (See Adams, W. J., and Hadcock, assignors.)
- Western Electric Company. (See Albright, Henry F., assignor.)
- Western Electric Company. (See Anderson, Sidney E., assignor.)
- Western Electric Company. (See Arkema, Harold P., assignor.)
- Western Electric Company. (See Arnold, Harold D., assignor.)
- Western Electric Company. (See Augustine, Roy W., assignor.)
- Western Electric Company. (See Beaumont, W. M., and Bonomi, assignors.)
- Western Electric Company. (See Bell, John H., assignor.)
- Western Electric Company. (See Bernhard, Frederick S., assignor.)
- Western Electric Company. (See Bertels, Arnold S., assignor.)
- Western Electric Company. (See Black, Harold S., assignor.)
- Western Electric Company. (See Blattner, David G., assignor.)
- Western Electric Company. (See Blount, Harry, assignor.)
- Western Electric Company. (See Blount, H., and Hernlund, assignors.)
- Western Electric Company. (See Boe, Helmer J., assignor.)
- Western Electric Company. (See Bohn, H. E., and Fauquier, assignors.)
- Western Electric Company. (See Bollinger, Charles, assignor.)
- Western Electric Company. (See Bouvier, George A., assignor.)
- Western Electric Company. (See Boving, Henrik, assignor.)
- Western Electric Company. (See Brown, Alfred B., assignor.)
- Western Electric Company. (See Brown, John T. L., assignor.)
- Western Electric Company. (See Buckley, Oliver E., assignor.)
- Western Electric Company. (See Burkholder, John C., assignor.)
- Western Electric Company. (See Burton, Everett T., assignor.)
- Western Electric Company. (See Carpenter, Warren W., assignor.)
- Western Electric Company. (See Carter, Herbert F., assignor.)
- Western Electric Company. (See Casper, William L., assignor.)
- Western Electric Company. (See Casper, W. L., and Field, assignors.)
- Western Electric Company. (See Cawthon, Samuel C., assignor.)
- Western Electric Company. (See Chaplin, Merle P., assignor.)
- Western Electric Company. (See Chesnut, Roy W., assignor.)
- Western Electric Company. (See Christopher, Arthur J., assignor.)
- Western Electric Company. (See Chylinski, Stanislas Z., assignor.)
- Western Electric Company. (See Clark, Edgar H., assignor.)
- Western Electric Company. (See Clausen, Henry P., assignor.)
- Western Electric Company. (See Clement, Lewis M., assignor.)
- Western Electric Company. (See Clokey, Allison A., assignor.)
- Western Electric Company. (See Colpitts, Edwin H., assignor.)
- Western Electric Company. (See Coon, Leslie E., assignor.)
- Western Electric Company. (See Coram, Roy E., assignor.)
- Western Electric Company. (See Cox, Louis T., assignor.)
- Western Electric Company. (See Craft, Edward B., assignor.)
- Western Electric Company. (See Craft, E. B., and Keller, assignors.)
- Western Electric Company. (See Cummings, George C., assignor.)
- Western Electric Company. (See Curran, S. T., and Mueller, assignor.)
- Western Electric Company. (See Curtis, Alfred S., assignor.)
- Western Electric Company. (See Curtis, Austen M., assignor.)
- Western Electric Company. (See Dahl, Jack F., assignor.)
- Western Electric Company. (See Deakin, Gerald, assignor.)
- Western Electric Company. (See De Monte, R. W., and Shea, assignors.)
- Western Electric Company. (See Dowd, Andrew D., assignor.)
- Western Electric Company. (See Dowey, Thomas L., assignor.)
- Western Electric Company. (See Duncan, George W., assignor.)
- Western Electric Company. (See Dunham, Bert G., assignor.)
- Western Electric Company. (See Durban, Edward, jr., assignor.)
- Western Electric Company. (See Egert, Benjamin J., assignor.)
- Western Electric Company. (See Elmen, Gustaf W., assignor.)
- Western Electric Company. (See Emery, Charles B., assignor.)
- Western Electric Company. (See Farrington, John F., assignor.)
- Western Electric Company. (See Fay, Joseph W., assignor.)
- Western Electric Company. (See Fay, J. W., and Wales, assignors.)
- Western Electric Company. (See Ferguson, John G., assignor.)
- Western Electric Company. (See Fetzer, Karl M., assignor.)
- Western Electric Company. (See Fetzer, K. M., and Newell, assignors.)
- Western Electric Company. (See Field, Frank E., assignor.)
- Western Electric Company. (See Field, Joseph C., assignor.)
- Western Electric Company. (See Flammer, Howard A., assignor.)
- Western Electric Company. (See Fletcher, Harvey, assignor.)
- Western Electric Company. (See Fletcher, H., and Sivan, assignors.)
- Western Electric Company. (See Floyd, Charles L., assignor.)
- Western Electric Company. (See Fondiller, William, assignor.)
- Western Electric Company. (See Ford, Ben K., assignor.)
- Western Electric Company. (See Fowler, Clarence B., assignor.)
- Western Electric Company. (See Franks, Clem H., assignor.)
- Western Electric Company. (See Friis, Harald T., assignor.)
- Western Electric Company. (See From, Owen C., assignor.)
- Western Electric Company. (See Fullarton, Gregg M., assignor.)

- Western Electric Company. (See Gabriel, John C., assignor.)
- Western Electric Company. (See Gallopini, Gustavo, assignor.)
- Western Electric Company. (See Gargan, John O., assignor.)
- Western Electric Company. (See Gauthier, Ernest, assignor.)
- Western Electric Company. (See Gent, Edgar W., assignor.)
- Western Electric Company. (See Gerhardt, Adelbert P., assignor.)
- Western Electric Company. (See Gibson, Earl S., assignor.)
- Western Electric Company. (See Gilbert, John J., assignor.)
- Western Electric Company. (See Gill, Frank, assignor.)
- Western Electric Company. (See Gilson, Alford F. F., assignor.)
- Western Electric Company. (See Goff, Harold W., assignor.)
- Western Electric Company, et al. (See Glezen, L. L., Shackleton, and Vroom, assignors.)
- Western Electric Company. (See Gooderham, John W., assignor.)
- Western Electric Company. (See Gorton, Arthur F., assignor.)
- Western Electric Company. (See Gorton, William S., assignor.)
- Western Electric Company. (See Graham, Frank H., assignor.)
- Western Electric Company. (See Grange, John D., assignor.)
- Western Electric Company. (See Grange, J. D., and Vosyka, assignors.)
- Western Electric Company. (See Griffin, James T., assignor.)
- Western Electric Company. (See Griffith, Thomas R., assignor.)
- Western Electric Company. (See Haddock, Arthur, assignor.)
- Western Electric Company. (See Hagelthorn, Thomas, assignor.)
- Western Electric Company. (See Hague, Alfred E., assignor.)
- Western Electric Company. (See Hampton, Leon N., assignor.)
- Western Electric Company. (See Harlow, John B., assignor.)
- Western Electric Company. (See Harrison, Henry C., assignor.)
- Western Electric Company. (See Hart, Carl D.)
- Western Electric Company. (See Hart, Carl D., assignor.)
- Western Electric Company. (See Hartley, Ralph V. L., assignor.)
- Western Electric Company. (See Hawkins, William W., assignor.)
- Western Electric Company. (See Helsing, Raymond A., assignor.)
- Western Electric Company. (See Hendry, William F., assignor.)
- Western Electric Company. (See Hersey, Ralph E., assignor.)
- Western Electric Company. (See Hill, Myron F., assignor.)
- Western Electric Company. (See Hinrichsen, Edward E., assignor.)
- Western Electric Company. (See Hitchcock, Carl H., assignor.)
- Western Electric Company. (See Hocker, Carl D., assignor.)
- Western Electric Company. (See Hoffmann, Henry L., assignor.)
- Western Electric Company. (See Hofstetter, Robert, assignor.)
- Western Electric Company. (See Holmberg, C. G., jr., and Stull, assignors.)
- Western Electric Company. (See Horton, Joseph W., assignor.)
- Western Electric Company. (See Hosford, William F., assignor.)
- Western Electric Company. (See Houskeeper, William G., assignor.)
- Western Electric Company. (See Hovland, Henry, assignor.)
- Western Electric Company. (See Hubbard, Francis A., assignor.)
- Western Electric Company. (See Hull, Sidney M., assignor.)
- Western Electric Company. (See Hulsizer, Robert I., assignor.)
- Western Electric Company. (See Huntington, Victor C., assignor.)
- Western Electric Company. (See Ives, Herbert E., assignor.)
- Western Electric Company. (See Jacobsen, E., and Sperry, assignors.)
- Western Electric Company. (See Jammer, Jacob S., assignor.)
- Western Electric Company. (See Jenkins, George M. O., assignor.)
- Western Electric Company. (See Jespersen, Helgo W., assignor.)
- Western Electric Company. (See Johnson, John B., assignor.)
- Western Electric Company. (See Johnson, Kenneth S., assignor.)
- Western Electric Company. (See Johnson, K. S., and Shea, assignors.)
- Western Electric Company. (See Johnson, Lewis H., assignor.)
- Western Electric Company. (See Johnson, L. H., and Roberts, assignors.)
- Western Electric Company. (See Johnston, John G., assignor.)
- Western Electric Company. (See Jones, Charles G., assignor.)
- Western Electric Company. (See Jones, Harold F., assignor.)
- Western Electric Company. (See Jones, Warren C., assignor.)
- Western Electric Company. (See Jongedyk, Ralph, assignor.)
- Western Electric Company. (See Jordan, William C., assignor.)
- Western Electric Company. (See Kelsay, Le Roy W., assignor.)
- Western Electric Company. (See Kemp, Archie R., assignor.)
- Western Electric Company. (See King, Robert W., assignor.)
- Western Electric Company. (See Knoop, William A., assignor.)
- Western Electric Company. (See Kochendorfer, Frederic S., assignor.)
- Western Electric Company. (See Kochendorfer, F. S., and Schulz, assignors.)
- Western Electric Company. (See Kopp, Ottmar H., assignor.)
- Western Electric Company. (See Kuhn, John J., assignor.)
- Western Electric Company. (See Kuhn, J. J., and Betts, assignors.)
- Western Electric Company. (See Landeen, Arvid G., assignor.)
- Western Electric Company. (See Lamplough, Leslie F., assignor.)
- Western Electric Company. (See Lang, Frederic H., assignor.)
- Western Electric Company. (See Laskey, William G., assignor.)
- Western Electric Company. (See Lawson, W. L., and Canfield, assignors.)
- Western Electric Company. (See Little, John S., assignor.)
- Western Electric Company. (See Locke, George A., assignor.)
- Western Electric Company. (See Long, Maurice B., assignor.)
- Western Electric Company. (See Lucas, Francis F., assignor.)
- Western Electric Company. (See Lum, George R., assignor.)
- Western Electric Company. (See Lundell, Alben E., assignor.)
- Western Electric Company. (See MacDougall, Harry W., assignor.)
- Western Electric Company. (See MacKenzie, Donald, assignor.)
- Western Electric Company. (See Malm, Frank S., assignor.)
- Western Electric Company. (See Marrison, Warren A., assignor.)
- Western Electric Company. (See Martin, George R., assignor.)
- Western Electric Company. (See Martin, Wallace L., assignor.)
- Western Electric Company. (See Marwin, Alfred C., assignor.)
- Western Electric Company. (See Mason, Sumner R., assignor.)
- Western Electric Company. (See Massingham, Henry R., assignor.)
- Western Electric Company. (See Mathes, Robert C., assignor.)
- Western Electric Company. (See Maurer, Oswald H., assignor.)
- Western Electric Company. (See Maxfield, Joseph P., assignor.)
- Western Electric Company. (See McFarland, Robert E., assignor.)
- Western Electric Company. (See McGall, Philip K., assignor.)
- Western Electric Company. (See McWaid, Ralph A., assignor.)
- Western Electric Company. (See Mead, Edward D., assignor.)
- Western Electric Company. (See Merrill, Frank W., assignor.)
- Western Electric Company. (See Mesa, Joseph O., assignor.)
- Western Electric Company. (See Miller, Daniel D., assignor.)
- Western Electric Company. (See Miller, Robert B., assignor.)
- Western Electric Company. (See Mills, John, assignor.)
- Western Electric Company. (See Mills, Ralph H., assignor.)

- Western Electric Company. (See Milton, Ivan L., assignor.)
- Western Electric Company. (See Mitchell, Clifford E., assignor.)
- Western Electric Company. (See Mohr, Franklin, assignor.)
- Western Electric Company. (See Moore, Charles R., assignor.)
- Western Electric Company. (See Moore, C. R., and Hayward, assignors.)
- Western Electric Company. (See Mortimer, Louis A., assignor.)
- Western Electric Company. (See Morton, Charles A., assignor.)
- Western Electric Company. (See Mueller, E. C., Jr., and Curran, assignors.)
- Western Electric Company. (See Murphy, Francis, assignor.)
- Western Electric Company. (See Newton, Edwin E., assignor.)
- Western Electric Company. (See Nicolson, Alexander M., assignor.)
- Western Electric Company. (See Nordenswan, Robert, assignor.)
- Western Electric Company. (See Nordenswan, R., and Curtis, assignor.)
- Western Electric Company. (See O'Neill, Henry W., assignor.)
- Western Electric Company. (See Oswald, Arthur A., assignor.)
- Western Electric Company. (See Oswald, A. A., and Nelson, assignors.)
- Western Electric Company. (See Palmer, Joel C. R., assignor.)
- Western Electric Company. (See Parcells, Paul D., assignor.)
- Western Electric Company. (See Payne, Edward B., assignor.)
- Western Electric Company. (See Peoples, Robert E., assignor.)
- Western Electric Company. (See Pfannenstiehl, Harry, assignor.)
- Western Electric Company. (See Porter, Leslie F., assignor.)
- Western Electric Company. (See Potter, William H., assignor.)
- Western Electric Company. (See Potts, Louis M., assignor.)
- Western Electric Company. (See Pruden, Harold M., assignor.)
- Western Electric Company. (See Quarles, Donald A., assignor.)
- Western Electric Company. (See Ray, Joseph L., assignor.)
- Western Electric Company. (See Ray, William H., assignor.)
- Western Electric Company. (See Ray, W. H., and Strawn, assignors.)
- Western Electric Company. (See Reddig, Charles E., assignor.)
- Western Electric Company. (See Reeve, Howard T., assignor.)
- Western Electric Company. (See Reeves, Frank N., assignor.)
- Western Electric Company. (See Retallack, John B., assignor.)
- Western Electric Company. (See Richard, Charles D., assignor.)
- Western Electric Company. (See Richard, C. D., and Morris, assignors.)
- Western Electric Company. (See Richter, John W., assignor.)
- Western Electric Company. (See Riggs, George, assignor.)
- Western Electric Company. (See Rinker, J. C., and Kraisinger, assignors.)
- Western Electric Company. (See Roberts, John G., assignor.)
- Western Electric Company. (See Rock, George L., assignor.)
- Western Electric Company. (See Rogers, Joseph E., assignor.)
- Western Electric Company. (See Roman, F. L., and Winsemius, assignors.)
- Western Electric Company. (See Ronci, Victor L., assignor.)
- Western Electric Company. (See Ruby, Frank J., assignor.)
- Western Electric Company. (See Ryan, Francis M., assignor.)
- Western Electric Company. (See Sacia, Charles F., assignor.)
- Western Electric Company. (See Sager, John W., assignor.)
- Western Electric Company. (See Schafer, John P., assignor.)
- Western Electric Company. (See Schelleng, John C., assignor.)
- Western Electric Company. (See Schleppey, S. L., and Bureau, assignors.)
- Western Electric Company. (See Schulz, Arthur E., assignor.)
- Western Electric Company. (See Schumacher, Earle E., assignor.)
- Western Electric Company. (See Schwerin, Paul, assignor.)
- Western Electric Company. (See Scriven, Edward O., assignor.)
- Western Electric Company. (See Seeley, George A., assignor.)
- Western Electric Company. (See Shackelton, William J., assignor.)
- Western Electric Company. (See Shea, Timothy E., assignor.)
- Western Electric Company. (See Siebs, Claude T., assignor.)
- Western Electric Company. (See Siegmund, Humphreys O., assignor.)
- Western Electric Company. (See Smith, Ermy R., assignor.)
- Western Electric Company. (See Smith, George O., assignor.)
- Western Electric Company. (See Snook, Homer C., assignor.)
- Western Electric Company. (See Spencer, Frank C., assignor.)
- Western Electric Company. (See Sprague, Clarence A., assignor.)
- Western Electric Company. (See Stearn, Franklin A., assignor.)
- Western Electric Company. (See Stevenson, George H., assignor.)
- Western Electric Company. (See Stokely, Ray L., assignor.)
- Western Electric Company. (See Stoller, Hugh M., assignor.)
- Western Electric Company. (See Swoboda, Adolph R., assignor.)
- Western Electric Company. (See Tanner, De Witt C., assignor.)
- Western Electric Company. (See Taylor, Hugh S., assignor.)
- Western Electric Company. (See Temple, David L., assignor.)
- Western Electric Company. (See Thronsen, Sigurd, assignor.)
- Western Electric Company. (See Trebes, Bruno M. A., assignor.)
- Western Electric Company. (See Ulrich, Horace W., assignor.)
- Western Electric Company. (See Vadersen, Herbert, assignor.)
- Western Electric Company. (See Van de Water, J. W., and Blair, assignors.)
- Western Electric Company. (See van der Bijl, Hendrik J., assignor.)
- Western Electric Company. (See Von Zastrow, Curtis G., assignor.)
- Western Electric Company. (See Voos, Frederick A., assignor.)
- Western Electric Company. (See Vroom, Edward, assignor.)
- Western Electric Company. (See Walker, Howard G., assignor.)
- Western Electric Company. (See Walker, H. G., and March, assignors.)
- Western Electric Company. (See Ward, Henry L., assignor.)
- Western Electric Company. (See Watrous, Paul M., assignor.)
- Western Electric Company. (See Wegel, Raymond L., assignor.)
- Western Electric Company. (See Wegman, E. C., and Southwick, assignors.)
- Western Electric Company. (See Weinhart, Howard W., assignor.)
- Western Electric Company. (See Wennemer, Gerard P., assignor.)
- Western Electric Company. (See Wente, Edward C., assignor.)
- Western Electric Company. (See Wentz, Jesse F., assignor.)
- Western Electric Company. (See Wheeler, Edmund B., assignor.)
- Western Electric Company. (See Whitehorn, Homer A., assignor.)
- Western Electric Company. (See Whittle, Horace, assignor.)
- Western Electric Company. (See Wier, Harry B., assignor.)
- Western Electric Company. (See Willard, Frederic W., assignor.)
- Western Electric Company. (See Williams, S. B., and Clement, assignors.)
- Western Electric Company. (See Williams, S. B., and Gibson, assignors.)
- Western Electric Company. (See Willis, Frederick C., assignor.)
- Western Electric Company. (See Wilson, Ira G., assignor.)
- Western Electric Company. (See Wilson, John M., assignor.)
- Western Electric Company. (See Wold, Peter I., assignor.)
- Western Electric Company. (See Wolfe, Wallace V., assignor.)
- Western Electric Company. (See Wood, Ernest B., assignor.)
- Western Electric Company. (See Zethmayr, Gordon J., assignor.)

- Western Electric Company. (See Zickrick, Lyall, assignor.)
- Western Electric Company. (See Zogbaum, Ferdinand, assignor.)
- Western Electric Company, Incorporated, et al. (See Dunham, E. G., and Haines, assignors.)
- Western Felt Works. (See Faurot, Henry, assignor.)
- Western Gas Construction Company, The. (See Beebe, Frederick H., assignor.)
- Western Gas Construction Company. (See Stone, Thomas W., assignor.)
- Western Hardware Co. (See Thoen, Lowell H., assignor.)
- Western Implements Limited. (See Goodfellow, Sampson J., assignor.)
- Western Lithograph Company. (See Tull, Roger, assignor.)
- Western Railway Equipment Company. (See Campbell, Sterling H., assignor.)
- Western Railway Equipment Company. (See Pletzsch, Frank H., assignor.)
- Western Railway Equipment Company. (See Shipley, Tolbott G., assignor.)
- Western Reserve Rubber Company, The. (See Witten, Arthur P., assignor.)
- Western States Envelope Co. (See Vallier, Elijah G., assignor.)
- Western States Machine Company. (See Roberts, Eugene, assignor.)
- Western States Machine Company, The. (See Roberts, Eugene, assignor.)
- Western Stoneware Company. (See Dains, Iven F., assignor.)
- Western Supplies Co. (See Woodworth, Roy V., assignor.)
- Western Supply Company. (See Croto, Frank E., assignor.)
- Western Tool and Wrench Company. (See Peterson, Axel W., assignor.)
- Western Union Telegraph Company, The. (See Angel, Herbert, assignor.)
- Western Union Telegraph Company, The. (See Curtain, Leo P., assignor.)
- Western Union Telegraph Company, The. (See Drake, Herbert W., assignor.)
- Western Union Telegraph Company, The. (See Dudley, William A., and Duerr, assignors.)
- Western Union Telegraph Company, The. (See Fluhrty, William G., assignor.)
- Western Union Telegraph Company, The. (See Howard, Albert H., assignor.)
- Western Union Telegraph Company, The. (See Janson, George W., assignor.)
- Western Union Telegraph Company. (See Mason, Roger, assignor.)
- Western Union Telegraph Company, The. (See Nelson, Crescent F., assignor.)
- Western Union Telegraph Company, The. (See Parker, L. F., and Bramhall, assignors.)
- Western Wheeled Scraper Company. (See Benboy, James D., assignor.)
- Western Wheeled Scraper Company. (See Bressler, Robert E., assignor.)
- Western Wheeled Scraper Company et al. (See Flanagan, William, assignor.)
- Westfield, Gustav A., Salem, Oreg. Door latch. 1,637,366; Aug. 2.
- Westfield River Paper Company. (See Grimm, Gerhardt E., assignor.)
- Westfield, William P., Park City, Utah. Fire escape. 1,623,821; Apr. 5.
- Westgard, Anton, Chicago, Ill. Saw construction. 1,642,185; Sept. 13.
- Westgard, Anton, Chicago, Ill. Saw construction. 1,650,884; Nov. 29.
- Westgaard, Levi. (See Westgaard, Olaf and L.)
- Westgaard, Olaf and L., Seattle, Wash. Eyeshade for auto drivers. 1,653,139; Dec. 20.
- Westhaver, Norman J., Cambridge, Mass., assignor to G. H. Maxwell, Phoenix, Ariz. Shoe-bottom-filling machine. 1,626,571; Apr. 26.
- Westin, Charles J., Brackaway, N. J., assignor to Wire-Bands Patents Company. Stapling tool. 1,630,877; May 31.
- Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
- Westinghouse Air Brake Company, The. (See Bartholomew, John R., assignor.)
- Westinghouse Air Brake Company, The. (See Burton, Thomas L., assignor.)
- Westinghouse Air Brake Company, The. (See Carthew, John W., assignor.)
- Westinghouse Air Brake Company, The. (See Cass, C. P., and Craig, assignors.)
- Westinghouse Air Brake Company, The. (See Chapin, Albert J., assignor.)
- Westinghouse Air Brake Company. (See Clark, Horace S., assignor.)
- Westinghouse Air Brake Company, The. (See Craig, John F., assignor.)
- Westinghouse Air Brake Company, The. (See Dapron, Joseph M., assignor.)
- Westinghouse Air Brake Company, The. (See Dean, William E., assignor.)
- Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)
- Westinghouse Air Brake Company, The. (See Elliott, Howard B., assignor.)
- Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
- Westinghouse Air Brake Company, The. (See Farmer, C. C., and McCune, assignors.)
- Westinghouse Air Brake Company. (See Farmer, C. C., and McWhirter, assignors.)
- Westinghouse Air Brake Company. (See Farmer, C. C., and Thomas, assignors.)
- Westinghouse Air Brake Company, The. (See Fowler, Lester A., assignor.)
- Westinghouse Air Brake Company, The. (See Guillemin-Tarayre, Jean, assignor.)
- Westinghouse Air Brake Company, The. (See Livingston, Fremont P., assignor.)
- Westinghouse Air Brake Company. (See Maier, George E., assignor.)
- Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
- Westinghouse Air Brake Company, The. (See Whitaker, Uncia, A., assignor.)
- Westinghouse Air Brake Company, The. (See Wildin, G. W., and Farmer, assignors.)
- Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ansbach, Arthur, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Ansbach, C., and Wilbarm, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Ansbach, C., and Colby, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Joseph E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Alben, Frank L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Alcott, Chester T., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Austin, John, and Hart, C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Angus, Donald J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ansingh, Herman K., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Aram, Otto, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ashbaugh, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Aspinwall, Louis M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Atherton, Alfred L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Bascom O., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Austin, B. O., and Horn, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Walter M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Baker, John F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bakker, Andrew H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Balph, Wilmer G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Barker, Virgil D., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Baum, Frank G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Baumann, Karl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Baxter, Harold G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Beck, Edward, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Bethel, Claude, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Biebel, Herman M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bierman, Harry C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Billhimer, Frank M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bliziotis, George E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Boissonnault, Frank L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Botcher, Charles A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bouslough, J. A., and Eaton, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bradshaw, William M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bradshaw, W. M., and Ashbaugh, assignors.)

- Westinghouse Electric and Manufacturing Company. (See Goldshaw, H. T., and Mylius, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Brannigan, Edward J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Breisch, Edgar W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Breisch, E. T., and Golladay, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Brooks, Robert, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Brown, Arthur L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brown, John L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Burger, Oswald, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Burns, James A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Butcher, Charles A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Butcher, C. A., and Hunt, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Cares, H. P., and Marsland, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Carey, Charles E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Chetnam, George A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Clay, Noble S., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Coates, W. A., and Davies, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Coates, W. A., Gittins, and Davies, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Cole, William H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Crabbs, Herbert J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Crichton, Leslie N., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Dann, Walter M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Davies, David R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Davis, David C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Davis, Robert L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See De Camp, Ray E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Denman, Earl W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See DeVries, Andrew, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Edson, William W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ehrgott, Karl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ellis, Walter R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Else, Harry D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Falknor, Frank B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Farmer, C. C., and McWhirter, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Fay, Carl J., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Flanders, Wren B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fletcher, G. H., and Rusby, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Foresman, Robert A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Foresman, R. A., and Davies, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Fortescue, L. L., and Evans, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Foster, Julius E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Frost, Leslie E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fuller, Bert F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Goldborough, T. R., and Eschholz, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Golladay, Lawrence R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Golladay, L. R., and Smith, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Goodwin, Walter C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Grandsen, William H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Grant, William M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Greenwalt, Lewis J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Gudge, Benjamin J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Guy, H. L., and Blacklock, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Ingar, Floyd T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hancock, Scott, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Harrison, William E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Harvey, A. L., and Andersen, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Haverstick, Earl J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hebrew, J. S., and Ross, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Hertz, Herbert C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hester, Edgar A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Himes, Walter H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hinkle, Harris D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Holy, George H. F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Horn, William G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Houston, Harold A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Houston, H. A., and Shepard, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Jablow, Charles, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jackson, Ray P., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Jackson, R. P., Kent, and Casselman, assignors.)
- Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jaspert, William B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Johnson, Clarence A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Johnson, Josiah F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Johnston, Howard H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jones, Jesse L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jorstad, Osmund M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kautz, Charles W., Jr., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Keene, Alvin D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Keene, A. D., and Ehrgott, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Kelch, Arthur H., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Keith, Harold L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kincaid, Charles W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Klejnar, Harold A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Knapp, Charles N. F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Kniskern, F. B., and Shuster, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Knotts, Charles L., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Kramitz, Hubert K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Krauss, Kurt, assignor.)

- Westinghouse Electric & Manufacturing Company. (See Kühn, Ludwig, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lammie, Benjamin G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Landon, Vernon D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lege, Joseph W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lenehan, Barnard E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Leonard, Stuart G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Little, Donald G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Little, D. G., and Davis, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Little, G. M., and Ford, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Loewe, Siegmund, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Logstadt, Richard, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Louth, Herbert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Macmurchy, John A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See MacNeill, John B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mallory, E. B., and Roth, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Marsland, Roland, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Matthews, Howard D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCarthy, Roy A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McClain, John B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCoy, James L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCullough, Frederick S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McFarland, Allis M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McWilliams, Arthur C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Meissner, Herman A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Menzies, William E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Meyer, Harry R., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Miller, Charles F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Miller, William L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Moeller, Heinrich, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Monkhouse, Allan, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Moss, Charles M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mosshart, Donald J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nottlage, Stanley G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nymann, Alexander, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nymann, A., and Conrad, assignors.)
- Westinghouse Electric & Manufacturing Company. (See O'w, Joseph W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Palmer, Granville E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Paskowski, Paul, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Payne, H. D., De Clerque, and Sjöberg, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Peters, John F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pilling, Norman B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Procter, Joseph H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pruger, Kaoul, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pukerud, Thomas S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rading, Karl C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Randall, K. C., and Ansingh, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Rawling, Arthur, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ray, James, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Reagan, Maurice E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Reid, Thomas A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Rigsby, John E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Riley, L. G., Candee, and Jones, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Riley, L. G., Meyer, Johnston, and van Niekerken, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Ritter, John G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Robinson, Conway, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Rodman, George J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ross, Thomas W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rottgardt, Karl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rüdelberg, Reinold, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ryder, Harry M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ryder, Mark H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sana, Manuel P., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Scanes, A. E. L., and Brighouse, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schenck, Samuel B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schieferstein, Heinrich, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schleter, George H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schmidt, Ludwig, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schott, R. C., and Peterson, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Schrott, Robert W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schwarz, Carl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Scott, Guy F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Shanberger, John P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Shand, Errol B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Shawk, Guy E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Shepard, Victor J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Siemon, William H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Singer, K., Paschen, and Reime, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Slater, Earl A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sleeper, Harvey P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Slepian, J., and Hanna, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Walter H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Soderberg, Carl R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sparkes, Harry P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Stage, Stephen A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Staples, Elden I., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Striel, Wilhelm, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Stolz, Joseph, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Storer, N. W., and Scott, assignors.)

- Westinghouse Electric & Manufacturing Company. (See Strouse, Albert F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sutherland, Ernest E., assignor.)
- Westinghouse Electric & Manufacturing Company, The. (See Sutherland, Ernest E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Terry, Matson C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thau, Walter E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Thompson, Arthur W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Todd, Victor H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Townsend, John R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Travers, Henry A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Trotter, Henry R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Trotter, H. R., and Schmidt, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Trumpler, William E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Trumpler, W. E., and Soderberg, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Tupper, Frank H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Turner, Laurence B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ullrich, Emil H. W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Underwood, Western, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Vaughan, Victor G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Vaughan, V. G., and Harpster, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Veitch, Alexander, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Vihlborg, Nils A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weber, Clifford A. M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weber, Henry C. P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wensley, R. J., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Wensley, R. J., and Leonard, assignors.)
- Westinghouse Electric & Manufacturing Company. (See White, Harold E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See White, T. L., and Gardner, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Whittaker, C. C., and West, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Wickerham, William R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wilson, John B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wood, Joseph K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Yager, Albert A., Jr., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Zimmerman, Jesse M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
- Westinghouse Gear and Dynamometer Company. (See Allen, Robert C., assignor.)
- Westinghouse Gear and Dynamometer Company. (See Baumann, Karl, assignor.)
- Westinghouse Gear and Dynamometer Company. (See MacFarland, Allis M., assignor.)
- Westinghouse Lamp Company. (See Anderson, Homer G., assignor.)
- Westinghouse Lamp Company. (See Anderson, Waldemar E., assignor.)
- Westinghouse Lamp Company. (See Briggs, Eugene W., assignor.)
- Westinghouse Lamp Company. (See Fredenburgh, Mark N., assignor.)
- Westinghouse Lamp Company. (See Gero, W. B., and Hallock, assignors.)
- Westinghouse Lamp Company. (See Gibson, Arthur A., assignor.)
- Westinghouse Lamp Company. (See Gustin, Daniel S., assignor.)
- Westinghouse Lamp Company. (See Hall, Roy D., assignor.)
- Westinghouse Lamp Company. (See Harrington, Erle L., assignor.)
- Westinghouse Lamp Company. (See Higgins, John J., assignor.)
- Westinghouse Lamp Company. (See Higgins, J. J., and Burns, assignors.)
- Westinghouse Lamp Company. (See Holden, William H. T., assignor.)
- Westinghouse Lamp Company. (See Kelly, Harry D., assignor.)
- Westinghouse Lamp Company. (See Lindstrom, Albert F., assignor.)
- Westinghouse Lamp Company. (See Lorenz, Charles F., assignor.)
- Westinghouse Lamp Company. (See MacRae, Duncan, assignor.)
- Westinghouse Lamp Company. (See MacRae, D., and Richardson, assignors.)
- Westinghouse Lamp Company. (See Madden, Harry D., assignor.)
- Westinghouse Lamp Company. (See Madden, H. D., and Higgins, assignors.)
- Westinghouse Lamp Company. (See Madden, Harry De F., assignor.)
- Westinghouse Lamp Company. (See Madden, H. D., and Higgins, assignors.)
- Westinghouse Lamp Company. (See Marden, John W., assignor.)
- Westinghouse Lamp Company. (See Marden, J. W., and Rentschler, assignors.)
- Westinghouse Lamp Company. (See Marden, J. W., and Rich, assignors.)
- Westinghouse Lamp Company. (See Marden, J. W., Thomas, and Conley, assignors.)
- Westinghouse Lamp Company. (See May, Frederick T., assignor.)
- Westinghouse Lamp Company. (See McKay, W. A., and Colby, assignors.)
- Westinghouse Lamp Company. (See Myers, Ralph E., assignor.)
- Westinghouse Lamp Company. (See Powell, Arthur L., assignor.)
- Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)
- Westinghouse Lamp Company. (See Rentschler, H. C., and Marden, assignors.)
- Westinghouse Lamp Company. (See Richardson, Henry K., assignor.)
- Westinghouse Lamp Company. (See Robins, H. M., and Higgins, assignors.)
- Westinghouse Lamp Company. (See Romanelli, Emilio, assignor.)
- Westinghouse Lamp Company. (See Rotherham, Walter S., assignor.)
- Westinghouse Lamp Company. (See Schmid, Edward R., assignor.)
- Westinghouse Lamp Company. (See Schule, F. W., and Hunt, assignors.)
- Westinghouse Lamp Company. (See Shackelford, B. E., and Holden, assignors.)
- Westinghouse Lamp Company. (See Sprouer, William C., assignor.)
- Westinghouse Lamp Company. (See Steel, B. F., and Kelly, assignors.)
- Westinghouse Lamp Company. (See Steel, Benjamin F., assignor.)
- Westinghouse Lamp Company. (See Ulrey, Clayton T., assignor.)
- Westinghouse Lamp Company. (See Van Voorhies, Cletus C., assignor.)
- Westinghouse Lamp Company. (See Walton, Frank W., assignor.)
- Westinghouse Lamp Company. (See Weeks, Paul T., assignor.)
- Westinghouse Lamp Company. (See Whitmore, J. B., and Ferguson, assignors.)
- Westinghouse Union Battery Company. (See Rupp, John L., assignor.)
- Westinghouse Union Battery Company, The. (See Norris, Paul E., assignor.)
- Westlake, Albert, New York, N. Y. Galley-stove tongs. 1,645,466; Oct. 11.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Booster-motor support. 1,636,843; July 26.
- Westlake, Charles T., deceased. St. Louis, Mo.; L. A. Westlake, administratrix. Palestine, Tex., assignor to Commonwealth Steel Company, Granite City, Ill. Booster-motor support. 1,636,844; July 26.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Car truck. 1,642,862; Sept. 26.
- Westlake, Lillian A., administratrix. (See Westlake, Charles T., assignor.)
- Westland, Emil H., Chicago, Ill. Safe. 1,613,813; Jan. 11.
- Westling, Eric H., Redwood City, Calif. Carburetor. 1,644,214; Oct. 4.
- Westling, Herman. (See Dunbar, E. W., and Westling.)
- Westly, Jens, Christiansand, assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Self-baking electrode. 1,613,212; Jan. 4.
- Westman, Francis C., Toronto, Ontario, Canada. Resurfacing device. 1,647,060; Oct. 25.
- Westmoreland Chemical & Color Company, The. (See Steele, Henry C., assignor.)
- Westmoreland, Earl E., and S. G. Taylor, Oil City, La. Sucker-rof elevator. 1,631,845; June 7.
- Westmoreland, Ernest J., Bradenton, Fla. Reversing mechanism. 1,613,549; Jan. 4.
- Westmoreland Glass Company. (See West, Charles H., assignor.)
- Weston, Charles W., Pampa, Tex. Chair. Des. 73,349; Aug. 23.

- Weston, Charles W., Pampa, Tex. Table. Des. 73,850; Aug. 23.
- Weston, Charles W., Pampa, Tex. Beverage-dispensing fountain. Des. 73,459; Sept. 13.
- Weston, Edward F., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Case for electrical instruments. Des. 73,768; Nov. 1.
- Weston, Edward F., Elizabeth, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electrical measuring instrument. 1,630,592; May 31.
- Weston, Edward F., and G. Carpenter, Newark, assignors to Weston Electrical Instrument Corporation, Waverly Park, Newark, N. J. Electrical measuring instrument. 1,635,595; May 12.
- Weston Electrical Instrument Corporation. (See Vawter, Charles E., assignor.)
- Weston Electrical Instrument Corporation. (See Weston, Edward F., assignor.)
- Weston Electrical Instrument Corporation. (See Weston, E. F., and Carpenter, assignors.)
- Weston, Frederick H., Bridgeport, Conn., assignor to General Electric Company. Socket adapter. 1,640,434; Aug. 30.
- Weston, Milton T., New York, N. Y. Variable-speed device. 1,621,915; Mar. 22.
- Weston, Sydney P., London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-gauge glass. 1,644,864; Oct. 11.
- Weston, William, Columbia, S. C. Breakfast food and producing same. 1,617,973; Feb. 15.
- Weston, William S., Dallas, Tex. Antireciper for railway rails. 1,646,512; Oct. 25.
- Westover, Leslie E., Denver, Colo. Bearing cap and work holder. 1,639,245; Aug. 16.
- Westphal, Christian, Berlin-Steglitz, and R. Grieger, Berlin, Germany. Building with concrete or the like and apparatus therefor. 1,642,330; Sept. 13.
- Westphal, Walter, Los Angeles, Calif. Radio loud speaker. 1,648,668; Nov. 8.
- Westrick, Henry E., New Point, Ind. Cultivator attachment. 1,639,358; Aug. 16.
- Westrope, Fred J., assignor to Briggs Manufacturing Company, Detroit, Mich. Adjustable striker plate. 1,624,568; Apr. 12.
- West's Gas Improvement Company Limited. (See West, Frederick J. and E., assignors.)
- West Virginia Pulp and Paper Company. (See Drewsen, Viggo, assignor.)
- Westwood, Louis J., assignor to Levy & Westwood Machinery Company, Toronto, Ontario, Canada. Cable-winding mechanism for hoists. 1,646,804; Oct. 25.
- Wetherbee, Herbert E., et al. (See Wetherbee, H. E., and Jacobus, assignors.)
- Wetherbee, Herbert E., Cleveland Heights, assignor of one-third to R. F. Grant and one-third to H. M. Hanna, Cleveland, Ohio. Recovering and regenerating leaching solutions. 1,615,970; Feb. 1.
- Wetherbee, Herbert E., Cleveland, Ohio, and W. L. Jacobus, Wilkes-Barre, Pa., assignors of one-third to R. F. Grant, one-third to H. M. Hanna, and one-third to H. E. Wetherbee, Cleveland, Ohio. Treating artificial fuels. 1,635,520; July 12.
- Wetmore, Augusta M., executrix. (See Wetmore, Charles P.)
- Wetmore, Charles P., assignor to Wetmore Reamer Company, Milwaukee, Wis. Reamer. 1,621,227; Mar. 15.
- Wetmore, Charles P., assignor to Wetmore-Gibbons Co., Milwaukee, Wis. Making spuds. 1,623,325; Apr. 5.
- Wetmore, Charles P., deceased; A. M. Wetmore, executrix, assignor to A. O. Smith Corporation, Milwaukee, Wis. Centrifugal casting. 1,630,043; May 24.
- Wetmore, Charles P., assignor, by mesne assignments, to A. O. Smith Corporation, Milwaukee, Wis. Tapping tool. 1,643,263; Sept. 20.
- Wetmore, Charles P., assignor to A. O. Smith Corporation, Milwaukee, Wis. Collapsible threading tap. 1,643,264; Sept. 20.
- Wetmore-Gibbons Co. (See Wetmore, Charles P., assignor.)
- Wetmore Reamer Company. (See Wetmore, Charles P., assignor.)
- Wetmore, William O., U. S. Army, Honolulu, Hawaii. Oil liberator. 1,623,371; Apr. 5.
- Wettengel, George A., St. Louis, Mo. Device for preventing theft of automobiles in highways. 1,630,284; May 31.
- Wettrich, George S., Pontiac, Mich. Calipers. 1,644,967; Oct. 11.
- Wettstein, Fritz, Summit, N. J., assignor to Ruths Accumulator Company, Incorporated, New York, N. Y. Sulfur accumulator plant. 1,637,066; July 25.
- Wettstein, Karl, Brux, Czechoslovakia. Making reinforced building elements. 1,626,318; Apr. 26.
- Wetzel, Arno, Milwaukee, Wis. Yarn-tensioning device. 1,623,608; Apr. 5.
- Wetzel, Charles, New York, N. Y. Safety attachment for pocketbooks, etc. 1,619,644; Mar. 1.
- Wetzel, Edward A., Royal Oak, Mich., assignor to The American Motor Body Corporation, Philadelphia, Pa. Vehicle underbody construction. 1,624,903; Apr. 12.
- Wetzel, John W., Allentown, Pa. Fire escape. 1,620,809; Mar. 8.
- Wetzel, Lewis C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,647,327; Nov. 1.
- Wetzell, Clare A., Sterling, Ill. Toy. Des. 72,394; Apr. 5.
- Wetzell, Clare A., Sterling, Ill. Toy. Des. 72,395; Apr. 5.
- Wetzell, Clare A., Sterling, Ill. Toy. Des. 72,396; Apr. 5.
- Wetzell, Clare A., Sterling, Ill. Toy. Des. 72,397; Apr. 5.
- Wetzell, Clare A., Sterling, Ill. Toy. Des. 72,398; Apr. 5.
- Wetzell, Clarence A., Sterling, Ill. Mechanical toy. 1,613,424; Jan. 4.
- Wetzell, Clarence A., Sterling, Ill. Toy animal and rider. 1,613,425; Jan. 4.
- Wetzell, Clarence A., Sterling, Ill. Mechanical toy. 1,613,427; Oct. 4.
- Wetzstein, George A., Mandan, N. Dak. Mitten. 1,633,300; June 21.
- Wever, Fritz, deceased, Stuttgart, Germany; H. Marmignat, administrator. Feather-lined material and making the same. 1,619,493; Mar. 1.
- Wexling, Abraham, Brooklyn, N. Y. Knockdown table. 1,643,478; Sept. 27.
- Weyand, George W. (See Ludwig, Nicholas U., assignor.)
- Weyandt, Carl S., Pittsburgh, Pa., assignor to Central Electric Tool Company. Controlling reciprocating motor. 1,637,401; Aug. 2.
- Weyandt, Carl S., assignor to Central Electric Tool Company, Pittsburgh, Pa. Reciprocating motor system. 1,637,717; Aug. 2.
- Weyandt, Carl S., Pittsburgh, Pa., assignor to Central Electric Tool Company. Reciprocating electric motor. 1,631,306; Nov. 29.
- Weyandt, Carl S., assignor to Central Electric Tool Company, Pittsburgh, Pa. Electric tool. 1,651,793; Dec. 6.
- Weyandt, Claude, Claysburg, Pa. Radiator cap. 1,623,511; Apr. 5.
- Weydell, Jarl M., assignor of one-half to E. E. Stout, Indianapolis, Ind. Oil burner. 1,631,662; June 7.
- Weyerhaeuser Forest Products. (See Gaylord, Bennie E., assignor.)
- Weyers, Howard L., assignor to Auto Wheel Coaster Company, Inc., North Tonawanda, N. Y. Steering mechanism for vehicles. 1,645,409; Oct. 11.
- Weyling, Richard J. (See De Lewsky, Frank J., assignor.)
- Weyland, Hermann, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc. Anthelmintic. 1,616,291; Feb. 1.
- Weymann, Charles T., Paris, France. Window-glass guide for vehicles and the like. 1,619,047; Mar. 1.
- Weymann, Charles T., Paris, France. Operating and locking device for oscillating panels. 1,625,923; Apr. 26.
- Weymann, Charles T., Paris, France. Operating apparatus for vertically-sliding panels. 1,634,861; July 5.
- Weymann, H. A., & Son, Inc. (See Weymann, Harry W., assignor.)
- Weymann, Harry W., assignor to H. A. Weymann & Son, Inc., Philadelphia, Pa. Tailpiece for stringed musical instruments. 1,615,152; Jan. 18.
- Weymouth, Harry G., assignor to The Eaton Axle and Spring Company, Cleveland, Ohio. Combined fender and luggage carrier. 1,619,451; Mar. 1.
- Wezel & Naumann Aktiengesellschaft. (See Theurich, Paul, assignor.)
- Whalen, Edward J., assignor to Redirected Light Corporation of America, Syracuse, N. Y. Headlight. 1,641,114; Feb. 8.
- Whalen, James, Omaha, Nebr. Electric switch. 1,623,326; Apr. 5.
- Whalen, James, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Abrading apparatus. 1,641,861; Sept. 6.
- Whaley Engine Patents, Inc. (See Whaley, William B. S., assignor.)
- Whaley, Marshal H., and C. W. Eckenwiler, Morrison, Okla. Card game. 1,640,261; Aug. 23.
- Whaley, William B. S., New York, N. Y., assignor to Whaley Engine Patents, Inc. Operating constant-pressure internal-combustion engines. 1,645,169; Oct. 11.
- Whaley, William B. S., New York, N. Y., assignor to Whaley Engine Patents, Inc. Internal-combustion engine. 1,645,170; Oct. 11.
- Whann, Jesse P., assignor to Layne & Bowler Corporation, Los Angeles, Calif. Sandproof bearing. 1,642,914; Sept. 20.
- Wharton, Edward R., Medford, Mass. Foldable waterproof boot. 1,642,050; Sept. 13.
- Wharton, Sidney I., Burkburnett, assignor of one-half to D. R. Weaver, Wichita County, Tex. Shade-roller fixture. 1,618,881; Feb. 8.
- Wharton, Sidney I., and D. R. Peevey, Burkburnett, Tex. Shade-roller fixture. 1,639,278; Aug. 16.
- Wharton, Thomas P., San Francisco, Calif. Sash anti-rattler. 1,653,830; Dec. 27.
- Wharney, William, Jr., and Company. (See Angerer, Victor, assignor.)
- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Baggage carrier. 1,624,297; Apr. 12.
- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Trunk fitting. 1,626,050; Apr. 27.
- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Garment retainer. 1,639,790; Aug. 23.
- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Baggage carrier. 1,652,652; Dec. 13.

- Wheary Trunk Company. (See Luce, Milton H., assignor.)
 Wheary Trunk Company. (See Wheary, George H., assignor.)
 Wheat, Frank B., Los Angeles, Calif. Sectional partition or panel structure. 1,626,259; Apr. 26.
 Wheatley, George H., Chicago, Ill. Rubber flap. 1,621,388; Mar. 15.
 Wheatley, Walter H., London, England. Milling cutter for bevel, cone spiral and straight bevel gears. 1,649,631; Nov. 15.
 Wheaton, Benson A., South Bend, Wash. Line cutter. 1,616,424; Feb. 1.
 Wheaton, Harry S., Dallas, Iowa. Automatic safety window latch. 1,625,293; Apr. 19.
 Wheeland, Jesse S., San Francisco, Calif. Radio wave control switch. 1,653,753; Dec. 27.
 Wheeler, Arthur E. (See Bagley, Henry Y., assignor.)
 Wheeler, Arthur G., Montgomery, Ala. Mop. 1,618,252; Feb. 22.
 Wheeler, Bradley P., Duluth, Minn. Waste-heat boiler for regenerative furnaces. 1,625,112; Apr. 19.
 Wheeler Condenser & Engineering Company. (See Penniman, Abbott L., Jr., assignor.)
 Wheeler, Earl H., Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio. Nut-facing attachment for automatic machines. 1,637,718; Aug. 2.
 Wheeler, Edmund B., assignor to Western Electric Company, Incorporated, New York, N. Y. Making insulated conductors. 1,638,556; Aug. 9.
 Wheeler, Edmund B., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording device. 1,642,525; Sept. 13.
 Wheeler, Frank T., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Box connector. 1,640,521; Aug. 30.
 Wheeler, Frederick H., Tucson, Ariz. Swing. 1,646,716; Oct. 25.
 Wheeler, Gardner E., and C. Oppe, New Haven, Conn. Making vehicle props. 1,654,061; Dec. 27.
 Wheeler, Grace B., Boston, Mass. Stopping holder for safety-razor blades. 1,645,676; Oct. 18.
 Wheeler, Harry J., Kansas City, Mo. Renewable fuse plug. 1,634,310; July 5.
 Wheeler, Hervey J., and C. C. Engstrand, Brooklyn, assignors to Salvage Process Corporation, New York, N. Y. Oil-pumping apparatus. 1,652,968; Dec. 13.
 Wheeler, Jerome S., Guelph, Ontario, Canada. Tipless lamp and method of making same. 1,640,226; Aug. 23.
 Wheeler, John L., Plymouth, and H. M. Scott, Waldo, assignors to Brookshire Cheese Company, Sheboygan, Wis. Treating cheese. 1,639,828; Aug. 23.
 Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Shutter silencer. 1,616,244; Feb. 1.
 Wheeler, John L., and G. C. Hosch, St. Louis, Mo., assignors to The Measuregraph Company, Automatically-controlled shutter for measuring machines. 1,640,387; Aug. 30.
 Wheeler, John L., St. Louis, E. A. Reed, Maplewood, and G. C. Hosch, assignors to The Measuregraph Company, St. Louis, Mo. Retail and wholesale fabric measuring machine. 1,628,091; May 10.
 Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Pulsator-operated liquid-feed tank. 1,617,884; Feb. 15.
 Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Shock absorber. 1,653,682; Dec. 27.
 Wheeler, Mary E., Evanston, Ill. Window-curtain projector. 1,619,280; Mar. 1.
 Wheeler, Maude A. M., Oakland, Calif. Hair dye. 1,636,341; July 19.
 Wheeler, Raymond C. (See Dickey, S. J., and Wheeler.)
 Wheeler, Thomas L. (See Dickman, J. T., and Wheeler.)
 Wheeler, Walter H., Jr. (See Pitney, A. H., Ogden, and Wheelwright.)
 Wheeler, Walter H., Jr., and J. W. Ogden, assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn. Postmarking and stamp-canceling machine. 1,651,428; Dec. 6.
 Wheeler, William I., Scottville, Ill. Power-transmission mechanism. 1,614,637; Jan. 18.
 Wheeling Stamping Company. (See Davis, W. T., and McGinnis, assignors.)
 Wheeling Stamping Company. (See Davis, Walter T., assignor.)
 Wheeling Steel Corporation. (See Bell, William M., assignor.)
 Wheeling Steel Corporation. (See Cook, William J., assignor.)
 Wheeling Steel Corporation. (See Paff, George A., assignor.)
 Wheeling Steel Corporation. (See Schrader, Herbert, assignor.)
 Wheelock, Arthur C. (See Cane, G. F., and Wheelock.)
 Wheelock, Ernest O., Rockford, Ill. Gauge. 1,639,321; Aug. 16.
 Wheelock, Herbert K., Akron, Ohio. Tire-repair vulcanizer. 1,617,829; Feb. 15.
 Wheelock, Herbert K., Akron, Ohio. Sectional air bag. 1,628,383; Apr. 19.
 Wheelock, Herbert K., Akron, Ohio. Vulcanizing apparatus. 1,630,457; May 81.
 Wheelock, Herbert K., Akron, Ohio. Vulcanizing apparatus. 1,647,596; Nov. 1.
 Wheelock, Herbert K., assignor to The Akron Tyre-welder Company, Akron, Ohio. Tire-repair vulcanizer. 1,630,815; May 81.
 Wheelwright, Thomas S., Buckhead Springs, assignor to Old Dominion Iron & Steel Works, Richmond, Va. Making hollow bars. 1,618,142; Feb. 15.
 Wheelton, William M., assignor to E. H. Angier, Framingham, Mass. Edge folder. 1,625,178; Apr. 19.
 Wheldon, William M., assignor to E. H. Angier, Framingham, Mass. Mechanism for dispensing material from rolls. 1,625,179; Apr. 19.
 Whelan, Augustin J., Jersey City, N. J. Clothesline hickey. 1,635,506; June 21.
 Whelan, Joseph A., Greenwich, Conn. Folding horse. 1,636,342; July 19.
 Whelan, Michael J., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling pin. 1,620,310; Mar. 8.
 Whelan, Sidney S., Westbury, N. Y. Collapsible container. 1,639,759; Aug. 23.
 Wheland Company, The. (See Campbell, George E., assignor.)
 Wheldon, George H., et al. (See Hall, William, assignor.)
 Whelan, Irene, Chicago, Ill. Selective unit indication for filing and other purposes. 1,650,058; Nov. 22.
 Whetzel, Herbert H. (See Smith, William B., assignor.)
 Whidden, Austin C., Lancaster, Calif. Valve-operating means. 1,641,560; Sept. 6.
 Whidden, Austin C., Lancaster, Calif. Valve-operating means. 1,641,561; Sept. 6.
 Whidden, Charles S., assignor to Zenite Metal Company, Indianapolis, Ind. Windshield regulator. 1,614,416; Jan. 11.
 Whidden, Ernest D., Pomona, Calif. Hot-air furnace. 1,618,498; Feb. 22.
 Whincap, Frederic J., Sturgis, Mich. Curtain rod or similar article. Des. 73,679; Oct. 18.
 Whincap, Frederic J., Sturgis, Mich. Curtain rod or similar article. Des. 73,680; Oct. 18.
 Whincap, Frederic J., Sturgis, Mich. Curtain rod or similar article. Des. 73,727; Oct. 25.
 Whincap, Frederic J., Sturgis, Mich. Curtain rod or similar article. Des. 73,728; Oct. 25.
 Whinnien, Eugene, Republic, Mich. Hydraulic core drill. 1,617,659; Feb. 15.
 Whinnen, Eugene, Los Angeles, Calif., assignor to Sullivan Machinery Company. Drilling apparatus. 1,649,998; Nov. 22.
 Whipp, Wendell E., assignor to The Monarch Machine Tool Company, Sidney, Ohio. Lathe. 1,636,028; July 19.
 Whipp, Wendell E., assignor to The Monarch Machine Tool Company, Sidney, Ohio. Headstock for lathes. 1,642,863; Sept. 20.
 Whipple, Amos E., assignor to Whitin Machine Works, Whitinsville, Mass. Tool for removing travelers from spinning and twisting rings. 1,636,448; July 19.
 Whipple, Charles L., Denver, Colo. Pump. 1,624,702; Apr. 12.
 Whipple, Gordon L., Omaha, Nebr., and L. K. Silcox, Riverside, Ill. Railway-car-door construction. 1,619,048; Mar. 1.
 Whipple, Jack V. H., Leona, N. J. Auxiliary hand grip for steering wheels. 1,614,417; Jan. 11.
 Whipple, Leland B., Rochester, N. Y. Table for jointers. 1,636,538; July 19.
 Whippes, George L., assignor to Duo-Run Reversible Window Company, Portland, Ore. Window frame. 1,643,142; Sept. 20.
 Whiter, Joseph C., and C. R. McElwee, Peru, Ind. Adjustable bulkhead. 1,619,905; Mar. 8.
 Whisler, Ralph H. (See Fekete, S. I., and Whisler.)
 Whisler, Thomas C., Redondo Beach, Calif. Earth-boring tool. 1,640,587; Aug. 30.
 Whisler, Virgil E., Ottumwa, Iowa. Jointer head. 1,619,347; Mar. 15.
 Whistlecroft, Arthur W., London, England, assignor to Radio Corporation of America. Electric calling device. 1,645,563; Oct. 18.
 Whistler, David B., Dayton, Ohio. Window. 1,644,655; Oct. 4.
 Whitacre, Charles R., Cincinnati, Ohio. Nonreturn check valve for fuel systems connecting a plurality of engines. 1,625,837; Apr. 26.
 Whitacre, Clarence J., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Closure. 1,619,996; Mar. 8.
 Whitaker, Charles M., Ghent, Ky. Gate-operating mechanism. 1,628,092; May 10.
 Whitaker, Charles L., and E. E. Middleton, assignors to Whitaker Company, Waynesboro, Pa. Air-agitating means for ice machines. 1,648,836; Nov. 8.
 Whitaker, Frank P., Rugby, England, assignor to General Electric Company. Automatic control system. 1,628,379; May 10.
 Whitaker, Frederic, Providence, R. I. Pendant. Des. 73,216; Aug. 2.
 Whitaker, John, Lansdale, Pa., assignor, by mesne assignments, to Bankers Trust Company, New York, N. Y. Power check writer. 1,649,632; Nov. 15.

- Whitaker, John, North Wales, Pa., assignor, by mesne assignments, to Bankers Trust Company, New York, N. Y. Keyboard. 1,653,083; Dec. 27.
- Whitaker, Joseph P. (See Fielding, J., and Whitaker.)
- Whitaker, Morris M., Nyack, N. Y. Door knocker. Des. 73,240; Sept. 6.
- Whitaker, Morris M., Nyack, N. Y. Ash tray. Des. 73,894; Aug. 30.
- Whitaker, Uncas A., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load brake. 1,650,309; Nov. 22.
- Whitaker, Uncas A., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. 1,650,310; Nov. 22.
- Whitaker, William A., Springfield, Mo. Skid-chain and rope or flexible-material misplacement. 1,639,205; Aug. 16.
- Whitby, George S., Montreal, Quebec, Canada, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Accelerator for the vulcanization of rubber. 1,634,924; July 5.
- Whitby, George S., Montreal, Quebec, Canada, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Accelerator for the vulcanization of rubber. 1,634,925; July 5.
- Whitcomb, Elwood S., Melrose Highlands, Mass. Combined golf tee and score card. 1,644,804; Oct. 11.
- Whitcomb, Geo. D., Company. (See Whitcomb, W. C., and Eckert, assignors.)
- Whitcomb, Henry B., Jr., Milwaukee, Wis., assignor to Richardson Ball Bearing Skate Company, Chicago, Ill. Roller skate. 1,640,476; Aug. 30.
- Whitcomb, James A., Kenosha, Wis. Metal wheel. 1,652,653; Dec. 13.
- Whitcomb, Louis E. (See Rice, G. L., and Whitcomb.)
- Whitcomb, Louis E. (See Seidel, G. F., Salts, and Whitcomb.)
- Whitcomb, William A., Dedham, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Paper making. 1,624,029; Apr. 12.
- Whitcomb, William C., and W. F. Eckert, assignors to Geo. D. Whitcomb Company, Rochelle, Ill. Locomotive. 1,649,429; Nov. 15.
- Whitcomb, William H. (See Chandler, Daniel L., assignor.)
- White, A. R., et al. (See Bowman, Lewis N., assignor.)
- White, Alexander D., and J. R. Riley, Beatrice, Nebr. Steering-wheel warmer. 1,617,228; Feb. 8.
- White, Alfred E. (See Reid, John, assignor.)
- White, Alvin C. (See Finch, Paul R., assignor.)
- White, Alvin C., Austin, Minn. Base-attached plotting instrument. 1,629,311; Mar. 8.
- White, Annie E. C., Kansas City, Mo. Tray. 1,653,244; Oct. 11.
- White, Arthur J. (See Mitchell, L. E., and White.)
- White, Arthur K., Zarephath, N. J. Bathroom unit. 1,628,345; May 10.
- White, Arthur S., and M. A. Wiseman, assignors to White and Hallock, Inc., Muskegon, Mich. Beater. 1,650,777; Nov. 29.
- White, Beverly, et al. (See Hayes, James D., assignor.)
- White Cap Company. (See White, George P., assignor.)
- White, Charles D., East Orange, assignor to Brandes Laboratories, Inc., Newark, N. J. Electromagnetic sound reproducer. 1,618,775; Jan. 11.
- White, Charles G., Sault Ste. Marie, Mich. Gate. 1,628,703; May 17.
- White, Charles P., Lynn, Mass. Electrical apparatus. 1,618,499; Feb. 22.
- White, Clarence B., Montclair, assignor, by mesne assignments, to Vivatex Processes, Inc., Lodi, N. J. Textile material and weaving the same. 1,648,433; Nov. 8.
- White, Clifford B., assignor to Foamite-Childs Corporation, Utica, N. Y. Revivifying fire-extinguishing solutions. 1,646,046; Oct. 18.
- White, Clifford B., assignor to Foamite-Childs Corporation, Utica, N. Y. Fire extinguisher. 1,646,226; Oct. 18.
- White Company, The. (See Hinger, William L., assignor.)
- White Company, The. (See Osborn, Arthur W., assignor.)
- White & Comyn, Limited. (See Comyn, Bernard D., assignor.)
- White, D'Orsay M., assignor to Motor Industries, Inc., Chicago, Ill. Disk wheel. 1,644,163; Oct. 4.
- White, Edith S. (See Stow, Audley H., assignor.)
- White, Edward A., Lewiston, Idaho. Motion storage and conveying apparatus. 1,619,906; Mar. 8.
- White, Edward A., Lewiston, Idaho. Transport stand. 1,619,907; Mar. 8.
- White, Edward A., Lewiston, Idaho. Sizing apparatus. 1,652,466; Dec. 13.
- White, Edwin J., Seattle, Wash. Resilient wheel. 1,651,000; Nov. 29.
- White, Elijah D., Brooklyn, N. Y. Safety lock. 1,653,487; Dec. 20.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lighting fixture. 1,622,934; Mar. 29.
- White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Adapter for fixture-supporting devices. 1,627,944; May 10.
- White, Francis and H., Akron, Ohio. Controlling prime movers. 1,641,943; Sept. 6.
- White, Frank H., New York, N. Y. Cooking and serving installation. 1,642,706; Sept. 20.
- White, Frank R., and C. Lum, Columbia, N. Y.; said White assignor to said Lum. Device for expanding and contracting split rims. 1,645,564; Oct. 18.
- White, Fred E. (See Ruttiman, A., and White.)
- White, George A., assignor to The Sparks-Withington Company, Jackson, Mich. Fan. 1,637,319; July 26.
- White, George D., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Apparatus for heating stills. 1,621,298; Mar. 15.
- White, George D., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Furnace. 1,629,606; May 24.
- White, George H., Washington, D. C., assignor to G. P. Sacks, Bradley Hills, Md. Ice cream machinery. 1,628,941; May 17.
- White, George P., assignor to White Cap Company, Chicago, Ill. Pressure processing. 1,621,698; Mar. 22.
- White, George S., Los Angeles, Calif. Therapeutic device. 1,628,207; May 10.
- White, H. C., Company. (See Bried, Julien A., assignor.)
- White and Hallock, Inc. (See White, A. S., and Wiseman, assignors.)
- White, Harold C., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Lamp socket. 1,647,100; Oct. 25.
- White, Harold E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, Autostar for induction motors. 1,642,001; Sept. 13.
- White, Harold M., Detroit, Mich. Oven door. 1,632,719; June 14.
- White, Harry, et al. (See Davis, W. H. H., and Celentano, assignors.)
- White, Harry. (See White, Francis and H.)
- White, Harry, Kenmore, Ohio. Well screen casing. 1,615,495; Jan. 25.
- White, Harry, Kenmore, Ohio. Pump or impeller. 1,632,357; June 14.
- White, Harry, Kenmore, Ohio. Well screen. 1,648,925; Nov. 15.
- White, Harry B., Canton, Ohio, assignor to The Hoover Company, Suction sweeper. 1,612,999; Jan. 4.
- White, Harry T., Erie, Pa. Quick-opening die. 1,650,778; Nov. 29.
- White, Henry, Glens Falls, assignor to Champlain Silk Mills, New York, N. Y. Silk-dressing machine. 1,636,476; July 8.
- White, J. H., Manufacturing Company. (See Crumley, Le Roy A., assignor.)
- White, J. H., Manufacturing Company. (See Kahns, W. R., and Keller, assignors.)
- White, James F., Indianapolis, Ind. Trailer. 1,645,467; Oct. 11.
- White, James N., Denver, Colo. Rotary laundry machine. 1,648,090; Nov. 8.
- White, Jay C., New Castle, Pa. Multiple-carriage lathe. 1,619,281; Mar. 1.
- White, Jesse M., Philadelphia, Pa. Preventing back-lash in gears. 1,629,564; May 24.
- White, Jesse M., Philadelphia, Pa. Extension cord for electrical appliances. 1,636,973; July 26.
- White, Jesse M., Philadelphia, Pa. Automobile lock. 1,646,227; Oct. 18.
- White, John. (See Deat, L. M. E., Mackenzie, and White.)
- White, John F., assignor to White Products Company, Chicago, Ill. Radiator cap. Des. 73,351; Aug. 23.
- White, John F., assignor to White Products Company, Chicago, Ill. Automobile radiator attachment. 1,613,148; Jan. 4.
- White, John F., assignor to White Products Company, Chicago, Ill. Automobile radiator attachment. 1,653,684; Dec. 27.
- White, John W., Buffalo, N. Y., Locking mechanism. 1,637,248; July 26.
- White, John W., Buffalo, N. Y. Fuel pump. 1,639,623; Aug. 16.
- White, John W., assignor to General Motors Corporation, Detroit, Mich. Manufacture of gears. 1,619,997; Mar. 8.
- White, Joseph, Columbus, Ohio. Rail-handling device. 1,619,908; Mar. 8.
- White Luggage Co. Inc. (See Walinsky, Ossip J., assignor.)
- White, Martin C., Alton, Ill. Nut lock. 1,645,840; Oct. 18.
- White Mop Wringer Company, The. (See Eiffe, James M., assignor.)
- White, Morris, New York, N. Y. Lady's hand bag. Des. 72,744; May 24.
- White, Morris, New York, and D. I. Reiter, Brooklyn, N. Y.; said Reiter assignor to said White. Handle for hand bags and the like. 1,640,522; Aug. 30.
- White Motor Company, The. (See Church, Harold D., assignor.)
- White Motor Company, The. (See Churcher, William B., assignor.)
- White Motor Company, The. (See Dingham, Thomas C., assignor.)
- White Motor Company, The. (See Goode, Gilbert C., assignor.)
- White Motor Company, The. (See Teachout, John H., assignor.)

- White, Oliver C., Gardena, Calif. Automatic drinking fountain. 1,653,525; Dec. 20.
- White, Oscar, St. Louis, Mo. Liquid-fuel burner. 1,614,418; Jan. 11.
- White, Oscar, St. Louis, Mo. Liquid-fuel burner. 1,620,932; Mar. 15.
- White, Oscar, St. Louis, Mo. Stove. 1,624,298; Apr. 12.
- White, Otto, Spokane, Wash. Calk for boots and shoes. 1,653,526; Dec. 20.
- White, Paul H., Indianapolis, Ind. Machine and method for positioning armature windings. 1,650,558; Nov. 22.
- White, Phillip A., St. Albans, assignor of one-half to R. W. Simpson and one-half to E. A. Kemp, New York, N. Y. Vehicle wheel. 1,637,504; Aug. 2.
- White, Phillip A., St. Albans, assignor of one-half to R. W. Simpson and one-half to E. A. Kemp, New York, N. Y. Vehicle wheel and brake drum structure. 1,641,309; Sept. 6.
- White Products Company. (See Frisbie, Ray A., as signor.)
- White Products Company. (See Hanson, Hans P. as signor.)
- White Products Company. (See White, John F., as signor.)
- White, Raymond E. (See Brown, K. C., and White.)
- White, Raymond R., assignor to White Showers, Inc., Detroit, Mich. Pipe connection. 1,627,219; May 3.
- White, Robert Y., assignor to J. L. Hill, Rochester, N. Y. Machine for making lubricating means for vehicle springs. 1,619,838; Mar. 8.
- White, Robert L., Lisbon, Tex. Antisubstitute liquid-dispensing pump. 1,633,355; June 21.
- White, Richard F., Chicago, Ill. Flowerpot. 1,648,570; Nov. 8.
- White, Rollin H., Cleveland Heights, Ohio. Rubber tread attachment for track links. 1,635,596; July 12.
- White, Rollin H., Cleveland Heights, Ohio. Grouser attachment for track belt links. 1,635,597; July 12.
- White, Roy L., Riverside, Calif. Dentist's furnace. 1,620,179; Mar. 8.
- White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Joline, Emmet A., assignor.)
- White Sewing Machine Corporation. (See Hillix, Foster F., assignor.)
- White Showers, Inc. (See White, Raymond R., assignor.)
- White, Thomas U., Pittsburgh, and J. E. Gardner, Wilkensburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Metering system. 1,614,222; Jan. 11.
- White, Virgil D., West Ossipee, assignor to Snowmobile Company, Rochester, N. H. Vehicle propelling mechanism. 1,635,870; July 12.
- White, Wilfred J., Detroit, Mich. Traffic-warning device. 1,635,915; July 12.
- White, Wilfrid O., Newton, Mass. Polorus. 1,640,166; Aug. 23.
- White, Wilfrid O., and H. G. Hatch, Newton, assignors to Kelvin & Wilfrid O. White Company, Boston, Mass. Spring-mounted camera. 1,640,167; Aug. 23.
- White, William, assignor to B. O. Wade, White Pigeon, Mich. Wrench. 1,648,037; Nov. 8.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. 1,617,974; Feb. 15.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Indicating apparatus. 1,628,444; May 10.
- White, William E., assignor to Kalman Steel Co., Chicago, Ill. Sleeper anchor. Re16,572; Mar. 15.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Twin chair. 1,621,183; Mar. 15.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Strip for roadways. 1,626,219; Apr. 26.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Serrated chair. 1,629,753; May 24.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Stake. 1,629,754; May 24.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Gauge and support for bars. 1,631,609; June 7.
- White, William G., Vesta, Wash. Log bunk. 1,645,082; Oct. 11.
- White, William H., Chicago, Ill. Match box holder or the like. 1,628,208; May 10.
- White, William H., Quincy, assignor to Regal Shoe Company, Whitman, Mass. Stand for fitting shoes. 1,646,717; Oct. 25.
- White, William J., Potsdam, N. Y. Chipper spout. 1,615,530; Jan. 25.
- White, William K., et al. (See Gilmore, Forrest E., assignor.)
- White, William M., Milwaukee, Wis. Wearing plate for hydraulic machines. 1,613,362; Sept. 6.
- White, William M., Milwaukee, Wis. Hydraulic turbine. 1,641,363; Sept. 6.
- White, William S., Denver, Colo. Flushing valve. Re16,764; Oct. 4.
- White, William W., Los Angeles, Calif. Sash lock and hydraulic machine. 1,628,346; May 10.
- White, William W., Evanston, assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,642,056; Sept. 13.
- White and Wyckoff Manufacturing Company. (See Seepert, Henry J., assignor.)
- Whitcombton, Wallace W. (See Shelley, Thomas W., assignor.)
- Whited, Harry W., Nacogdoches, Tex. Portable electric lumber and timber grade-marking device. 1,625,009; Apr. 19.
- Whitehead, Alexander G., Hartford, and E. J. Sullivan, East Hartford, Conn., assignors to Pratt & Whitney Company, New York, N. Y. Follow rest for lathes. 1,648,091; Nov. 8.
- Whitehead, George W., Vincennes, Ind. Windmill. 1,624,452; Apr. 12.
- Whitehead & Hoag Company, The. (See Day, James C., assignor.)
- Whitehead & Hoag Company, The. (See Hoag, Philip O., assignor.)
- Whitehead, James F., assignor to Kales Stamping Company, Detroit, Mich. Mirror support. 1,646,379; Nov. 8.
- Whitehead, James T. (See Wilson, John H., assignor.)
- Whitehead, John H. (See Layland, W. E., and Whitehead, C., assignor.)
- Whitehead & Kales Company. (See Henderson, George C., assignor.)
- Whitehead & Kales Company. (See Judd, Irving H., assignor.)
- Whitehead & Kales Company. (See Putnam, Alden L., as signor.)
- Whitehead & Kales Company. (See Vance, Howard C., assignor.)
- Whitehead and Kales, Inc. (See Judd, Irving H., assignor.)
- Whitehead and Kales, Inc. (See Rainsford, Thomas F., assignor.)
- Whitehead, Leo S., Akron, Ohio. Wrench. 1,648,519; Nov. 8.
- Whitehead, Richard H., assignor to New Haven Clock Co., New Haven, Conn. Clock case. Des. 73,460; Sept. 13.
- Whitehead, Richard H., assignor to The New Haven Clock Co., New Haven, Conn. Clock case. Des. 73,989; Nov. 29.
- Whitehead, Richard H., and W. E. Porter, assignors to The New Haven Clock Co., New Haven, Conn. Resilient crystal for clocks and like instruments. 1,646,841; Oct. 25.
- Whitehead, T. C. (See Heideman, Fred J., assignor.)
- Whitehead, Thomas C. (See Greenwald, Harold A., assignor.)
- Whitehead, Thomas C. (See Rainsford, Thomas F., assignor.)
- Whitehead, Thomas C., Detroit, Mich. Float chamber. 1,623,293; May 10.
- Whitehead, Thomas C., Detroit, Mich. Pump. 1,634,811; July 5.
- Whitehead, Thomas C., Detroit, Mich. Radiator construction. 1,634,812; July 5.
- Whitehead, Thomas C., Detroit, Mich. Refrigerating apparatus. 1,634,813; July 5.
- Whitehead, Thomas C., Detroit, Mich. Pump. 1,636,265; July 19.
- Whitehead, Thomas C., Detroit, Mich. Hold over. 1,637,843; Aug. 2.
- Whitehead Torpedo Company Limited. (See Jones, Albert E., assignor.)
- Whitehead, Walter A., Terre Haute, Ind. Window awning. 1,633,467; June 21.
- Whitehill, David B., Clarendon, Pa. Spring suspension device. 1,619,452; Mar. 1.
- Whitehorn, Harold K., Maldstone, assignor to Tilling-Stevens Motors Limited, Maldstone, Kent, England. Electric vehicle transmission. 1,635,593; July 12.
- Whitehorn, Harold K., assignor to Tilling-Stevens Motors Limited, Maldstone, Kent, England. Electric governor. 1,646,672; Oct. 25.
- Whitehorn, Homer A., Norwood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Temperature-compensating means for maintaining constant frequency in tuning forks. 1,653,794; Dec. 27.
- Whitehouse, Viri B., and L. Pelletiere, New York, N. Y., assignors, by mesne assignments, to said Whitehouse. Loose-leaf binder. 1,617,778; Feb. 15.
- Whitehouse, Viri B., and L. Pelletiere, New York, N. Y., assignors, by mesne assignments, to said Whitehouse. Loose-leaf binder. 1,617,779; Feb. 15.
- Whitehouse, Viri B., and L. Pelletiere, New York, N. Y., assignors, by mesne assignments, to said Whitehouse. Loose-leaf binder. 1,617,780; Feb. 15.
- Whitehouse, Walter P., Gravesend, England. Rubber and like forcing machine extrusion press and the like. 1,637,207; July 26.

- Whitehurst, Calvin A., Birmingham, assignor of one-half to J. A. Thompson, North Birmingham, Ala. Door latch. 1,648,820; Nov. 8.
- Whitelegg, Robert H., Manchester, England. Steam locomotive. 1,620,586; Mar. 8.
- Whitelegg, Robert H., Manchester, England. Steam locomotive. 1,628,016; May 10.
- Whiteley, John T., Brooklyn, assignor of one-half to E. J. Spinks, New York, N. Y. Rustless alloy steel. 1,647,491; Nov. 1.
- Whiteman, Charles E., Richmond Hill, assignor, by mesne assignments, to J. A. Golden, New York, N. Y. Motion-picture camera and picture-projecting machine. 1,649,351; Nov. 15.
- Whiteman, Clarence E. (See Von Zundel, L., and Whiteman.)
- Whiteman, George W., Philadelphia, assignor to Frog Switch and Manufacturing Company, Carlisle, Pa. Guard rail. 1,637,844; Aug. 2.
- Whiteman, John D. (See Burdick, C. L., and Whiteman.)
- Whitesel, Levi, Seattle, Wash. Ventilator. 1,650,913; Nov. 29.
- Whiteside, Arthur L., Bayshore, N. Y. Waddle walking toy. 1,633,146; June 21.
- Whiteside, Arthur L., Bayshore, N. Y. Walking toy. 1,633,147; June 21.
- Whiteside, Benjamin F., Mobile, Ala. Shingle or tile. 1,613,302; Jan. 4.
- Whiteside, Sidney B., New York, N. Y. Ice-cream-handling apparatus. 1,638,134; Aug. 9.
- Whiteside, Sidney B., New York, N. Y. Ice-cream-cans. 1,644,908; Oct. 11.
- Whitesides, Walter L., Long Beach, Calif. Folding table. 1,625,294; Apr. 19.
- Whitfield, Charles H., Penn Yan, N. Y. Bus body. 1,623,988; Apr. 12.
- Whitfield, Joseph E., East Pittsburgh, assignor of one-third to H. A. Johnson, Pittsburgh, Pa. Internal-combustion engine. 1,649,004; Nov. 15.
- Whitham, Fredric E., deceased; A. Reed, executor, Halifax, England. Apparatus for reducing ores or other suitable materials. 1,638,381; Aug. 9.
- Whitham, George S., Jr., Hudson Falls, N. Y. Moisture testing and recording. 1,626,060; Apr. 26.
- Whitin Machine Works. (See Aldrich, William O., assignor.)
- Whitin Machine Works. (See Crockett, Frank L., assignor.)
- Whitin Machine Works. (See Hartley, Ellis, assignor.)
- Whitin Machine Works. (See Helland, Sigurd H., assignor.)
- Whitin Machine Works. (See Hendrickson, Fred K., assignor.)
- Whitin Machine Works. (See Jolly, James, assignor.)
- Whitin Machine Works. (See Mills, Edward, assignor.)
- Whitin Machine Works. (See Morgan, William T., assignor.)
- Whitin Machine Works. (See Whipple, Amos E., assignor.)
- Whiting, C. R., Co. (See Lader, Jack, assignor.)
- Whiting, C. R., Co. (See Schmitz, William, assignor.)
- Whiting Chain Company. (See Coombs, Edward A., assignor.)
- Whiting, Charles A., Franklin, Mass., assignor to Whiting & Davis Company. Making intermeshing links. 1,646,842; Oct. 25.
- Whiting Corporation. (See Beetham, M. F., and Moore, assignors.)
- Whiting Corporation. (See Walter, Arthur L., assignor.)
- Whiting & Davis Company. (See Berkeley, Richard H., assignor.)
- Whiting & Davis Company. (See Lynds, Fred H., assignor.)
- Whiting & Davis Company. (See Whiting, Charles A., assignor.)
- Whiting, Donald F., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission circuits. 1,632,104; June 14.
- Whiting, Jasper, Boston, Mass. Attachment for humidity-controlling units. 1,617,885; Feb. 15.
- Whiting, John, Pymouth, Pa. Rotary air motor or pump. 1,648,092; Nov. 8.
- Whiting, Max A., Schenectady, N. Y., assignor to General Electric Company. Automatic control equipment. 1,652,882; Dec. 13.
- Whiting, Max A., Schenectady, N. Y., assignor to General Electric Company. Automatic substation control equipment. 1,652,969; Dec. 13.
- Whiting-Patterson Co. (See Labram, Alfred, assignor.)
- Whiting-Patterson Co. (See Wagner, Louis, assignor.)
- Whiting, William M., East Orange, N. J. Printed fabric. 1,622,013; Mar. 22.
- Whitley, James L. (See Sampson, C. H., and Whitley.)
- Whitlock, Frank S., Rossford, assignor, by mesne assignments, to Commercial Savings Bank & Trust Company, Toledo, Ohio. Plate-glass manufacture. 1,654,198; Dec. 27.
- Whitlock, John W., Rising Sun, Ind. Variable-air condenser and coupling means therefor. 1,641,718; Sept. 6.
- Whitlock, Sallie, Los Angeles, Calif. Safety slip for nursing bottles. 1,637,719; Aug. 2.
- Whitlow, James G., Cornelius, N. C. Valve-pin extractor. 1,633,237; June 21.
- Whitlow, John B., Lexington, Ky. Transmission mechanism. 1,645,841; Oct. 18.
- Whitman, Clarence, & Sons, Inc. (See Kirby, Walter B., assignor.)
- Whitman, Louis J., Cincinnati, Ohio. Scraper mold. 1,639,122; Aug. 16.
- Whitman, Raymond C. (See Berg, W. H., Whitman, and Bab.)
- Whitmarsh, Frederick T., Blandford, England. Cheese-cutting device. 1,625,441; Apr. 19.
- Whitmire, William A., Big Creek, Calif. Excavating apparatus. 1,626,019; Apr. 26.
- Whitmore, Frederick C., New York, N. Y. Automobile sign. 1,646,332; Oct. 18.
- Whitmore, James B., and J. E. Ferguson, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Hook-forming machine. 1,626,652; May 8.
- Whitmore, James B., and J. E. Ferguson, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Machine for forming constrictions in exhaust tubes. 1,653,351; Dec. 20.
- Whitmore, John P., San Marino, Calif., assignor to Columbia Mills Incorporated, New York, N. Y. Frame for stretching shade cloth. 1,618,361; Feb. 22.
- Whitmore, John P., San Marino, Calif., assignor to Columbia Mills Incorporated, New York, N. Y. Window blind. 1,638,474; Aug. 16.
- Whitney, Carl E., et al., executors. (See Schweinert, Maximilian C.)
- Whitney, Clarence E., et al., executors. (See Hanson, Bengt M. W.)
- Whitney, Earl R., assignor to Commercial Truck Company, Philadelphia, Pa. Delivery truck. 1,619,775; Mar. 1.
- Whitney, F. A., Carriage Company. (See Ambler, George B., assignor.)
- Whitney, Geo. C., Co., The. (See Whitney, Warren A., assignor.)
- Whitney, George E., assignor to S. Zimmer, Bridgeport, Conn. Service tray. 1,646,333; Oct. 18.
- Whitney, Loid E., Hermosa, S. Dak. Door fastener. 1,652,080; Dec. 6.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Making brake-beam fulcrums. 1,649,880; Nov. 22.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forming check nuts. 1,647,597; Nov. 1.
- Whitney Mfg. Company, The. (See Belcher, Warren J., assignor.)
- Whitney Mfg. Co., The. (See Müller, Friederich, assignor.)
- Whitney, Vincent J., San Francisco, Calif. Swinging-window mounting. 1,614,166; Jan. 11.
- Whitney, Vincent J., San Francisco, Calif. Window fastener. 1,618,617; Feb. 22.
- Whitney, Vincent J., San Francisco, Calif. Window-sash stop. 1,618,618; Feb. 22.
- Whitney, Warren A., assignor to The Geo. C. Whitney Co., Worcester, Mass. Calendar. 1,648,093; Nov. 8.
- Whitney, Wiley, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,622,051; June 14.
- Whitney, William M., Winchendon, Mass. Wood-shaping machine. 1,647,028; Oct. 25.
- Whiton, Louis C., assignor to Prat-Daniel Corporations, New York, N. Y. Heat exchanger. 1,638,107; Aug. 9.
- Whitow, George C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck spring. 1,641,718; Sept. 6.
- Whitsett, Cameron A., Chicago, Ill. Spotlight. 1,633,148; June 21.
- Whitsett, William B., Baltimore, Md. Valve mechanism. 1,637,135; July 26.
- Whitcomb, J. B., and W. R. Hedeman, Baltimore, Md. Superheater header for locomotives. 1,651,653; Dec. 6.
- Whitson, James H., et al. (See Turver, William H., assignor.)
- Whittaker, Charles C., and D. C. West, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Liquid rheostat. 1,654,394; Dec. 27.
- Whittmore, Herbert L., Washington, D. C. Strain gauge. 1,638,425; Aug. 9.
- Whittmore, Herbert L., and G. N. Petrenko, Washington, D. C. Proving ring. 1,648,375; Nov. 8.
- Whittier, Albert E., Bristol, Conn. Golf-bag attachment. 1,622,073; Mar. 22.
- Whittier, Albert E., Bristol, Conn. Thermostatic circuit control. 1,623,568; Apr. 5.
- Whittier, Horace R., Plymouth, Conn. Cigarette-smoker's set. 1,615,001; Jan. 18.
- Whittier, Horace R., Plymouth, Conn. Temperature indicator. 1,617,975; Feb. 15.
- Whittier, Horace R., Plymouth, Conn. Oven thermometer. 1,635,652; July 12.
- Whittier, Horace R., assignor to The Cooper Oven Thermometer Co., Plymouth, Conn. Thermostatic valve. 1,644,501; Oct. 4.
- Whittier, John K., F. D. Langevin, and R. S. Curley, Lowell, Mass., assignors, by mesne assignments, to Kison Machine Shop. Horizontal opener and cleaner. 1,639,149; Aug. 9.
- Whittier, Walter H. (See Leonard, H. C., and Whittier.)

- Whittier, Walter H., Grand Rapids, Mich., assignor, by mesne assignments, to Electric Refrigeration. Refrigerator door. 1,630,100; May 24.
- Whittingham, George H., Baltimore, Md. Terminal for rheostats. 1,632,468; June 14.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Self-locking switch. 1,624,882; Apr. 12.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Thermal limit relay. 1,627,816; May 10.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Method and apparatus for making edge-wound coils. 1,630,912; May 31.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Resistor. 1,645,871; Nov. 8.
- Whittington, Frederick G., Evanston, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile bumper. Des. 71,817; Jan. 4.
- Whittington, Frederick G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Device for producing flashing signals for engine-temperature indicators. 1,653,685; Dec. 27.
- Whittington, Louis E., and W. Robinson, Silvis, Ill. Superheater. 1,653,028; Dec. 20.
- Whittle, Alexander, Kearny, N. J. Current motor. 1,627,589; May 10.
- Whittle, Horace, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,625,840; Apr. 26.
- Whittetide, Lucius H., Lynn, Mass. Portable building. 1,650,311; Nov. 22.
- Wilborth, Stanley, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Manufacturing brake shoes. 1,629,427; May 17.
- Wiard, Oliver S. (See Strandberg, Alvin C., assignor.)
- Wiard, Roy, and A. J. Van Sise, Audubon, Iowa. Tree saw. 1,644,316; Oct. 4.
- Wiarda, Jerry R., Coopersville, Mich. Washbench. 1,620,418; Mar. 8.
- Wiberg, Oscar A., Finspong, Sweden. Reversible power-transmission device. 1,621,228; Mar. 15.
- Wiberg, Oscar A., Finspong, Sweden. Back-pressure or noncondensing steam turbine. 1,647,421; Nov. 1.
- Wichert, Alfred, Mannheim-Neustadt, assignor to Aktien-gesellschaft Brown, Boveri & Cie., Baden, Switzerland. Hanger clamp for stranded cable. 1,642,707; Sept. 20.
- Wichman, Frank M., and P. Harthaupt, Salt Lake City, Utah, assignors to United States Smelting, Refining and Mining Company, Portland, Me. Mixing and disintegrating apparatus. 1,649,939; Nov. 22.
- Wichman, Frank S., assignor to Locomotive Terminal Improvement Company, Chicago, Ill. Boiler-washing system. 1,651,010; Nov. 29.
- Wick Narrow Fabric Company. (See Kreh, Max, assignor.)
- Wickenden, Leonard, Flushing, and W. F. Dennerle, New York, N. Y., assignors to Industrial Chemical Company, New York, N. Y. Electric-furnace apparatus and reifying decolorizing carbon, etc. 1,634,470; July 5.
- Wickenden, Leonard, Flushing, N. Y., and S. A. W. Okell, Tyrona, Pa., assignors to Industrial Chemical Company, New York, N. Y. Making decolorizing carbon. 1,634,477; July 5.
- Wickenden, Leonard, Flushing, N. Y., and S. A. W. Okell, Tyrona, Pa., assignors to Industrial Chemical Company, New York, N. Y. Process and apparatus for making decolorizing carbon. 1,634,478; July 5.
- Wickenden, Leonard, Flushing, N. Y., and S. A. W. Okell, Tyrona, Pa., assignors to Industrial Chemical Company, New York, N. Y. Electric-furnace apparatus and making decolorizing carbon. 1,634,480; July 5.
- Wickerham, William R., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interupter system. 1,654,810; Dec. 27.
- Wickersham, Roy D., assignor of one-half to T. R. Baker, Indianapolis, Ind. Kite. 1,617,976; Feb. 15.
- Wicks Brothers. (See Fletcher, Frederick S., assignor.)
- Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,643,797; Sept. 27.
- Wickland, Algot A., Chicago, Ill. Coal pulverizer. 1,628,294; May 10.
- Wickland, Algot A., Chicago, Ill. Pulverizer. 1,628,295; May 10.
- Wickland, Anton L. (See Halstead, S. M., and Wickland.)
- Wicks, Clifford P., Stamford, Conn. Signaling means for automobiles. 1,614,599; Jan. 18.
- Wicks, Clifford P., Stamford, Conn. Switch or circuit closer for automobiles. 1,614,510; Jan. 18.
- Wicks, Clifford P., Stamford, Conn. Switch mechanism for automobile signals. 1,614,511; Jan. 18.
- Wicks, Herbert, Midland, Ontario, Canada. Wreck-lifting device. 1,630,994; May 31.
- Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,616,402; Feb. 1.
- Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,631,353; June 7.
- Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Co., Inc., Chicago, Ill. Automatic telephone system. 1,633,140; June 21.
- Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,635,805; July 12.
- Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,644,968; Oct. 11.
- Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,649,430; Nov. 15.
- Wicks, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,622,405; Mar. 29.
- Wicks, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,628,093; May 10.
- Wicks, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,636,160; July 19.
- Wicks, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,645,636; Oct. 18.
- Wickschirm, Jakob, Dusseldorf, Germany. Machine for manufacturing nails from wire. 1,642,597; Sept. 13.
- Wickstrum, Cecil M., Omaha, Nebr. Folding casket truck. 1,649,203; Nov. 15.
- Wickwire Brothers. (See Wickwire, Charles C., assignor.)
- Wickwire, Charles C., assignor to Wickwire Brothers, Corning, N. Y. Woven-wire fabric. Des. 74,041; Dec. 6.
- Wickwire Spencer Steel Company. (See Hawthorne, Charles W., assignor.)
- Wickwire Spencer Steel Company. (See Southwell, Raymond J., assignor.)
- Wico Electric Company. (See Hubbell, Harry C., assignor.)
- Widdows, Anna M., Akron, Ohio. Hair-cutting comb. 1,623,292; Apr. 5.
- Widdowson, Walter P., London, England. Internal-combustion engine fuel-injection device. 1,613,006; Jan. 4.
- Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Interior-collar can. 1,621,389; Mar. 15.
- Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Scoring machine. 1,623,223; Apr. 5.
- Widell, Magnus E., Cincinnati, Ohio, and F. Rudolphi, Montclair, N. J., assignors to American Can Company, New York, N. Y. Blank-shearing apparatus. 1,619,227; Mar. 1.
- Wideman, Edmond C., et al. (See Husted, Harry F., assignor.)
- Widen, Charles, Trafford, Pa. Display rack. 1,640,971; Aug. 30.
- Widmaier, Otto, Magstadt, Germany. Envelope blank and making same. 1,636,495; July 19.
- Widmaler, Otto, Stuttgart, Germany. Envelope folding and sealing device. 1,643,842; Oct. 18.
- Widmann, Oscar O., Brooklyn, N. Y. Loud speaker. Des. 72,199; Mar. 8.
- Widmann, Oscar O., Brooklyn, N. Y. Loud speaker. Des. 72,200; Mar. 8.
- Widmer, Charles A., Glen Rock, N. J. Hide material and obtaining same. 1,618,031; Feb. 15.
- Widmer, Gustave. (See Gams, A., and Widmer.)
- Widmer, Harry A., assignor of one-half to A. Lewis (Finsbury) Limited, London, England. Fastener. 1,642,598; Sept. 13.
- Widmer, Henry A., London, England. Direction-indicating and warning device for motor road vehicles. 1,641,720; Sept. 6.
- Widmont, Joseph C. (See Scott, H. B., Widmont, and Huey.)
- Widner, Charles A., Fort Wayne, Ind. Railway tie. 1,627,727; Dec. 20.
- Wiebe, Sigurd J. A., East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Dumping grate. 1,640,632; Aug. 30.
- Wieben, Henry, Reinbeck, Iowa. Watering trough. 1,633,150; June 21.
- Wieber, John A., Quincy, Ill. Step for bathtubs. 1,641,514; Sept. 6.
- Wiegand, Vittorio E., Florence, Italy. Atomizer. 1,642,757; Sept. 20.
- Wieckhorst, Herman, Brooklyn, N. Y. Vacuum cleaner. 1,637,067; July 26.
- Wieczorkiewicz, Brono. (See Jacoby, J., and Wieczorkiewicz.)
- Wiederhold, Oscar C., Philadelphia, Pa. Storage-battery system. 1,626,488; Apr. 26.
- Wiegand, Edwin L., Pittsburgh, Pa. Producing electrical heating element. 1,613,428; Jan. 4.
- Wiegand, Edwin L., Dormont Borough, Pa. Electrical heating element. 1,614,330; Jan. 11.
- Wiegand, Edwin L., Dormont Borough, Pa. Electrical heating element. 1,614,331; Jan. 11.
- Wiegand, Edwin L., Dormont Borough, Pa. Electrical heating element of the same type. 1,614,938; Jan. 18.
- Wiegand, Edwin L., Dormont Borough, Pa. Electrical heating device. 1,636,029; July 19.
- Wiegand, George H. and V. E., Denver, Colo. Ear protector. 1,628,483; May 10.
- Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Resistance-control apparatus. 1,643,105; Sept. 20.
- Wiegand, Viola E. (See Wiegand, George H. and V. E.)

- Wiegand, Paul, Magdeburg, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg, Buckau, Germany. Platen printing press. 1,628,816; May 17.
- Wiel, Alfred, Brooklyn, N. Y. Combined radio and phonograph loud speaker. 1,624,196; Apr. 12.
- Wieland, C. H., New York, N. Y. Diaphragm for telephone receivers. 1,635,546; Aug. 16.
- Wieland, Charles G., New York, N. Y. Telephone diaphragm. 1,640,915; Aug. 30.
- Wieland, Eberhard, Pforsheim, Germany. Production of articles and covers from resinous compositions. 1,635,475; Aug. 16.
- Wieland, Edouard, Biel-Madretsch, Switzerland. Sewing machine for darning. 1,642,583; Sept. 13.
- Wieland, Heinrich, Munich, Germany, assignor to the Firm of C. H. Boehringer Sohn Chemische Fabrik, Nelder Ingelheim-on-the-Rhine, Germany. Obtaining the active principle of lobelia. Re16,772; Oct. 18.
- Wieland, William, assignor of one-half to J. K. Mohr, Bay City, Mich. Floating tractor hitch. 1,636,845; July 26.
- Wielich, Albert. (See Falkenberg, Wilhelm, assignor.)
- Wiemann Co., The. (See Wiemann, William P., assignor.)
- Wiemann, Herbert O., Chesterton, Ind. License indicator. Re16,583; Apr. 5.
- Wiemann, William P., assignor to The Wiemann Co., Pittsburgh, Pa. Direction indicator. 1,622,895; Mar. 29.
- Wiener, Martin L. (See Tuttle, J. C., Smith, and Wiener.)
- Wiens, Walter P., Peoria, Ill. Internal-combustion engine. 1,622,300; Mar. 29.
- Wier, Harry B., Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Reproducing music and speech. 1,617,428; Feb. 15.
- Wiese, Ernest E., Brecksville, Ohio. Lamp. Des. 73,590; Oct. 4.
- Wiese, Henry, Anderson, Ind. Airplane. 1,633,719; June 28.
- Wiese, John D., Manson, Iowa. Drag attachment for disk cultivators or harrows. 1,626,572; Apr. 26.
- Wiese, Otto C., Newton, Mass. Shaped seamless elastic corset. 1,649,633; Nov. 15.
- Wiese, Paul, Waterbury, Conn. Armrest. 1,633,427; June 21.
- Wiesefeld, Joseph, Baltimore, Md. Curb attachment for bridges. 1,653,882; Dec. 20.
- Wiesenthal, Walter E., Fairport, Kans. Swivel wrench. 1,614,907; Jan. 18.
- Wiesenthal, Walter E., Fairport, Kans. Wire-line spuding shoe. 1,647,206; Nov. 1.
- Wiegner, Gustav. (See Jannek, J., Wietzel, and Stoewener.)
- Wig, Rudolph J., assignor to The Celite Company, Los Angeles, Calif. Material for use in cement compositions. Re16,732; Sept. 6.
- Wiggenhorn, Guido J., Los Angeles, Calif. Filter. 1,625,442; Apr. 19.
- Wiggins, Fredrick E., Bridgeport, Conn., and G. E. Wiggins, Boston, Mass. Traveling sewing machine and method of securing material to carrier wires therefor. 1,616,158; Feb. 1.
- Wiggins, George E. (See Wiggins, Fredrick E. and G. E.)
- Wiggins, John H., Bartlesville, Okla. Liquid-storage tank. 1,636,539; July 19.
- Wiggins, John H., Bartlesville, Okla. Liquid-storage tank. 1,636,540; July 19.
- Wiggins, John H., Bartlesville, Okla. Storage tank for gases and volatile liquids. 1,645,313; Oct. 11.
- Wiggins, John H., Bartlesville, Okla. Liquid-sealed vacuum and pressure-relief valve. 1,651,051; Nov. 29.
- Wigglesworth, Harry H. (See Morshead, H., and Wigglesworth.)
- Wigglesworth, Harry H., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. 1,627,529; May 8.
- Wigglesworth, Harry H., and W. P. Greiner, assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. 1,642,473; Sept. 13.
- Wight, George E., Seaham Harbor, England. Apparatus for use in the laying of bricks and similar elements in building. 1,615,859; Feb. 1.
- Wight, Jarvis S., Brooklyn, N. Y. Vaporizer. 1,623,452; Apr. 5.
- Wigle, Wilson B., Long Beach, Calif. Casing head for oil wells. 1,627,945; May 10.
- Wigle, Wilson B., Long Beach, assignor, by mesne assignments, to W. D. Shaffer, Brea, Calif. Rotary hydraulic jack mechanism. 1,637,505; Aug. 2.
- Wigtel, Carl, Brooklyn, assignor to The Watson-Stillman Corp., New York, N. Y. Hydraulic pressing apparatus. 1,625,004; May 10.
- Wik, Sever R., Stettler, Alberta, Canada. Fly chaser. 1,617,227; Feb. 8.
- Wike, William L., assignor of 51 per cent to H. Richmond, Riverside, Calif. Rotary rake. 1,627,422; May 8.
- Wikkas, Viktor, Helsingfors, Finland. Ice concrete. 1,623,989; Apr. 12.
- Wikke, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Treating rubber surface. 1,621,615; Mar. 22.
- Wikke, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,647,163; Nov. 1.
- Wikke, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Building-core bead ring. 1,647,164; Nov. 1.
- Wikke, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Laminated material. 1,651,794; Dec. 6.
- Wiklund, Anders, assignor to International Harvester Company, Chicago, Ill. Pitman. 1,646,435; Oct. 25.
- Wikstrom, Jakob, Dusseldorf, Germany. Knife for cutting the points of wire tacks and nails. 1,648,785; Nov. 8.
- Wikstrom, Agnar, assignor to Flash Radio Corporation, Boston, Mass. Radio receiving set. 1,648,521; Nov. 8.
- Wilber, Claude F., Tulsa, Okla. Stitch remover. 1,635,889; Aug. 16.
- Wilber, William K., Los Angeles, Calif. Underreamer. 1,623,453; Apr. 5.
- Wilborn, J. C., et al. (See Nell, Joseph B., assignor.)
- Wilbraham, Charles. (See Sharples, R. G., and Wilbraham.)
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,650,731; Nov. 29.
- Wilburn, James, and J. J. Jefferson, Kingsville, Tex. Rerailing device. 1,654,442; Dec. 27.
- Wilburn, Sidney D., Englewood, N. J., assignor to American Telephone and Telegraph Company. Telegraph signaling system. 1,631,174; June 7.
- Wilckens, Ernst. (See Hahnemann, W., Rudolph, and Wilckens.)
- Wilckens, Ernst. (See Hahnemann, W., Wilckens, and Lichte.)
- Wilcox Company, The. (See Fonesca, Edward L., assignor.)
- Wilcoator Company, The. (See Twombly, Willard I., assignor.)
- Wilcott, Frederick G., and P. J. Morelli, San Quentin, Calif. Shaving brush. 1,641,721; Sept. 6.
- Wilcox, Charles, Anaheim, Calif., assignor to E. C. Wilson. Pipe tongs. 1,627,260; May 8.
- Wilcox, Crittenden and Company. (See Crowell, Tracy M., assignor.)
- Wilcox, Edgar M. (See Hannauer, G., and Wilcox.)
- Wilcox, Edson B., Meriden, Conn. Signal for chokers and the like. 1,628,209; May 10.
- Wilcox, Francis W. (See Wilcox, Lewis T. and F. W.)
- Wilcox, Frank S., Union, S. C. Mercerizing machine. 1,620,419; Mar. 8.
- Wilcox, Fred A., La Porte, Ind. Dishwashing device. 1,633,800; June 28.
- Wilcox, George, Riverside, Calif., assignor to California Canning Machinery Co. Stacking machine. 1,615,250; Jan. 25.
- Wilcox, George, Riverside, Calif., assignor to California Canning Machinery Co. Clutch mechanism. 1,630,816; May 31.
- Wilcox, George N., Preston, Conn. Carburetor. 1,616,726; Feb. 8.
- Wilcox, Henry M., Chicago, Ill. Utensil for cooking annular food products. 1,638,673; Aug. 9.
- Wilcox, Joseph, jr., assignor to The Wilcox Novelty Company, Athol, Mass. Clock casing. Re16,811; Dec. 6.
- Wilcox, Joseph S., assignor to The Wilcox Novelty Company, Athol, Mass. Celluloid casing for timepieces. 1,616,999; Feb. 8.
- Wilcox, Joseph T., Seattle, Wash. Casting protector. 1,620,933; Mar. 15.
- Wilcox, Katharine R., executrix. (See Wilcox, Philip W.)
- Wilcox, Lewis T., Peckskill, N. Y. Liquid-fuel burner. 1,614,267; Jan. 11.
- Wilcox, Lewis T., Peckskill, N. Y. Grate for oil and gas stoves. 1,644,502; Oct. 4.
- Wilcox, Lewis T. and F. W.; said L. T. Wilcox assignor to Wilcox Patents Corporation, Peckskill, N. Y. Shirt. 1,635,743; Jan. 12.
- Wilcox, Lewis T., assignor to Wilcox Patents Corporation, Peckskill, N. Y. Oven. 1,649,005; Nov. 15.
- Wilcox, Lewis T., assignor to Wilcox Patents Corporation, Peckskill, N. Y. Oil heater. 1,650,919; Nov. 29.
- Wilcox, Lewis T., Peckskill, N. Y. Grate. 1,649,006; Nov. 15.
- Wilcox, Lewis T., Peckskill, N. Y. Heat collector. 1,649,007; Nov. 15.
- Wilcox, Merrill M., deceased; A. E. Snow, administrator, assignor, by mesne assignments, to Wilcox Products Corporation, Saginaw, Mich. Tappet. 1,628,017; May 10.
- Wilcox Novelty Company, The. (See Wilcox, Joseph, jr., assignor.)
- Wilcox Novelty Company, The. (See Wilcox, Joseph S., assignor.)
- Wilcox Patents Corporation. (See Homan, William C., assignor.)
- Wilcox Patents Corporation. (See Wilcox, Lewis T., assignor.)
- Wilcox Patents Corporation. (See Wilcox, Lewis T. and F. W., assignors.)
- Wilcox, Paul W., Troy, Kans. Water-supply attachment for concrete mixers. 1,632,938; June 21.
- Wilcox, Philip W., deceased, Atlanta, Ga.; K. R. Wilcox, executrix. Apparatus for dusting powdered substances on surfaces. 1,643,143; Sept. 20.

- Wilcox, Philip W., deceased, Atlanta, Ga.; K. R. Wilcox, N. Y. Dieing machine. 1,643,144; Sept. 20.
- Wilcox Products Corporation. (See Osterholm, William C. assignor.)
- Wilcox Products Corporation. (See Wilcox, Merrill M., assignor.)
- Wilcox, Ralph, Chicago, Ill., assignor to Sullivan Machinery Company. Core drill. 1,652,245; Dec. 20.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Upsetting mechanism. 1,619,494; Mar. 1.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Upsetting mechanism. 1,619,495; Mar. 1.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Cutting off blanks in headers, upsetting machines, or the like. 1,622,935; Mar. 29.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Die-separating means. 1,622,936; Mar. 29.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Nut machine. 1,635,238; July 12.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Trimming blanks. 1,649,634; Nov. 15.
- Wilcox, William D., Idaho Falls, Idaho. Making combustible gas. 1,624,644; Apr. 12.
- Wilcox, William D., Idaho Falls, Idaho. Making motor gas and coal gas. 1,652,386; Dec. 13.
- Wilcoxson, Frank, Ithaca, N. Y., and B. Grotta, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Manufacture of sodium azide. 1,628,380; May 10.
- Wild, Alfred, Milwaukee Wis. assignor to American Stove Company St. Louis Mo. Automatic heat regulator. 1,617,850; Feb. 15.
- Wild, Charles, Eureka, Calif. Well drill. 1,643,730; Sept. 27.
- Wild, Charles, Eureka, Calif. Well-boring machine. 1,643,731; Sept. 27.
- Wild, Charles H., Baltimore, Md., assignor to Burt Machine Company, Incorporated. Case-filling machine. 1,619,839; Mar. 8.
- Wild, Charles H., assignor to Burt Machine Company, Incorporated, Baltimore, Md. Can-labeling machine. 1,619,840; Mar. 8.
- Wild, Charles H., Baltimore, Md., assignor to Burt Machine Company, Incorporated. Can-labeling machine. 1,627,946; May 10.
- Wild, Gunther P., Philadelphia, Pa. Door fastener. 1,637,168; July 26.
- Wild, Max, Stuttgart, and O. Goldberg, Berlin-Neukolln, Germany, assignors, by mesne assignments, to Elopise Machine Company, Elmira Heights, N. Y. Engineering device. 1,652,920; Dec. 13.
- Wilde, Francis E. J., Meadowmere Park, assignor to Motogram Corporation, New York, N. Y. Electric sign. 1,626,899; May 3.
- Wilde, Francis E. J., Meadowmere Park, assignor to Motogram Corporation, New York, N. Y. Electric-sign control. 1,626,900; May 3.
- Wilde, Louis J., and B. K. Gillespie, Los Angeles, Calif. Apparatus for cleaning and polishing automobiles. 1,613,213; Jan. 4.
- Wilde, Percy R., Bath, England. Moist-hot-air bath. 1,636,561; July 19.
- Wilde, Samuel A., assignor to Glenwood Range Company, Taunton, Mass. Gas range. 1,645,843; Oct. 18.
- Wilde, Samuel A., assignor to Glenwood Range Company, Taunton, Mass. Gas range. 1,645,784; Oct. 18.
- Wilder, Arthur L., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gear-tooth grinder. 1,622,693; Mar. 20.
- Wilder, Arthur P., Arlington, and A. P. Fay, Roxbury, Mass. Turn shoe. 1,615,496; Jan. 25.
- Wilder, Clinton E., Irvine, Pa. Pipe mold for centrifugal casting machines. 1,623,146; Apr. 5.
- Wilder, Morris B., Omaha, Neb. Drilling and counter-boring tool. 1,630,829; May 15.
- Wilderman, Meyer, London, England. Manufacturing porous bodies, diaphragms, filters, and the like of ebolite. 1,651,567; Dec. 6.
- Wilderson, Clinton G., assignor to The Crescent Machine Company, Leetonia, Ohio. Sectional chip breaker for planing machines. 1,619,008; Mar. 1.
- Wilderson, Clinton G., assignor to The Crescent Machine Company, Leetonia, Ohio. Sectional feed roll for planing machines. 1,619,009; Mar. 1.
- Wilderson, Clinton G., assignor to The Crescent Machine Company, Leetonia, Ohio. Mortising and boring machine. 1,619,049; Mar. 1.
- Wildhaber, Christian, New York, N. Y. Device for separating pins from sweepings. 1,630,368; May 31.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,622,014; Mar. 22.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,622,555; Mar. 29.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Curved tooth gear. 1,622,556; Mar. 29.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,647,165; Nov. 1.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Gear. 1,647,166; Nov. 1.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Gear. 1,647,167; Nov. 1.
- Wildhaber, Ernest, Rochester, N. Y. Cutting gear teeth. 1,653,686; Dec. 27.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,654,199; Dec. 27.
- Wildin, George W., and C. C. Farmer, Pittsburgh, assignors to The Westinghouse Air Brake Company, Wheeling, Pa. Angle-cock device. 1,650,312; Nov. 22.
- Wildman, John P., Portland, Ore. Compressor. 1,638,674; Aug. 9.
- Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
- Wildrick, Meade, Savannah, Ga., assignor, by mesne assignments, to The Sessum Company, Hartford, Conn. Keyless lock and permutation wheel for the same. 1,616,822; Dec. 20.
- Wildrick, Meade, Savannah, Ga. assignor, by mesne assignments, to The Sessum Company, Hartford, Conn. Keyless lock. 1,619,550; Jan. 4.
- Wiley, Edgar C., assignor to Simplex Heating Specialty Company Inc., Lynchburg, Va. Radiator-return trap. 1,638,900; Aug. 16.
- Wiley, George G., assignor to Streeter-Amet Weighing & Recording Company, Chicago, Ill. Swing-sash latching fixture. 1,630,913; May 31.
- Wiley, George M., South Pasadena, Calif. Display device. 1,652,335; Dec. 13.
- Wiley, Nathaniel T. (See Hersee, F. C., and Wiley.)
- Wiley, Samuel, Metuchen, N. J. Universal system of identification markings for projectiles. 1,632,156; Dec. 27.
- Wiley, William A. (See Woods, G. H., Denison, and Wiley.)
- Wiley, William R., Mount Clemens, Mich. Hood catch. 1,647,422; Nov. 1.
- Wilford, Edward B., Philadelphia, Pa., assignor of one-fourth to M. K. Smith, Kansas City, Mo. Insurance block. 1,634,210; June 28.
- Wilhelm, Frederick C. (See Alalborg, C., and Wilhelm.)
- Wilhelm, Charles, Bayville, N. J. Motor-vehicle hood cover. 1,631,663; June 7.
- Wilhelm, Edwin B., Highland Park, Mich. Wrapper-cutting machine. 1,613,427; Jan. 4.
- Wilhelm, Frank, Cincinnati, Ohio. Radiator-cap ornament for automobiles. 72,921; June 21.
- Wilhelm, George T., South Amboy, N. J. Flush-tank valve. 1,621,699; Mar. 22.
- Wilhelm, Henry, Brooklyn, N. Y. Contact device and insulation. 1,619,010; Mar. 1.
- Wilhelm, Henry, Brooklyn, N. Y. Sectional-box mechanism. 1,644,215; Oct. 4.
- Wilhelm, Joseph, Latty, Ohio. End gate for wagons. 1,652,692; Dec. 13.
- Wilhelm, John W. St. Petersburg, Fla. Megaphone. 1,613,001; Jan. 4.
- Wilhelmi, Julian A., Kankakee, assignor to Chicago Fuse Manufacturing Company, Chicago, Ill. Fuse and junction block. 1,650,252; Nov. 22.
- Wilhelm, Karl F., Stralsund, Germany. Extracting fatty acids from oils and fats. 1,616,292; Feb. 1.
- Wilhem, Reinhold, South Melbourne, Victoria, assignor to The Commonwealth White Lead & Paints Proprietary Limited, Melbourne, Australia. Manufacture of lead compounds. 1,617,887; Feb. 15.
- Wilhelmi, Gustave C., Cleveland, Ohio. Sound amplifier. 1,639,359; Aug. 16.
- Wilhelmi, Julian A., Indianapolis, Ind. Self skirt marker and pin tray. 1,645,410; Oct. 11.
- Wilbitt Machine Works, Inc. (See Wilhite, Samuel C., assignor.)
- Wilbitt, Samuel C., assignor to Wilbitt Machine Works, Inc., Los Angeles, Calif. Wall-bracket electric fixture. Des. 73,547; Sept. 27.
- Wilbitt, Christian, Philadelphia, Pa. Valve. 1,622,406; Mar. 29.
- Wilk, Wilhelm. (See von Bohuszewicz, O., and Wilk.)
- Wilke, Alfred H., Boise, Idaho. Egg meter. 1,645,468; Oct. 11.
- Wilke, John M., sr., Covington, Ky., assignor to The Julian & Kokenge Company, Cincinnati, Ohio. Shoe. 1,640,633; Aug. 30.
- Wilke, Karl. (See Schirmacher, K., Zahn, Wilke, and Ochwat.)
- Wilke, Wilhelm. (See Muller-Cunradi, M., and Wilke.)
- Wilkins, Dick J. (See McLaughlin, W. D., and Wilkins.)
- Wilkins, Edward T. (See Bollheimer, R., and Wilkins.)
- Wilkinson, Cooper W., Birmingham, Ala. Telephone switch. 1,628,018; May 10.
- Wilkes, Clarence H., and E. Calboun, assignors to Amsterdam Cutlery Company, Incorporated, Amsterdam, N. Y. Shears. 1,632,525; June 14.
- Wilkes, Frederic, Wilkensburg, Pa. Splashboard. 1,618,032; Feb. 15.
- Wilkes, William R., and A. Kennedy, Cleveland, Ohio, assignors of one-third to A. W. McCoy, Williamsport, Pa. Window sash. 1,636,293; July 19.
- Wilkin, George W., Grangeville, Idaho. Light shade for headlight. 1,646,436; Oct. 25.
- Wilkin, John T., Connersville, Ind. Gear. 1,646,374; Oct. 18.
- Wilkin, John T., assignor to The Connersville Blower Company, Connersville, Ind. High-speed lobed-impeller blower. 1,646,373; Oct. 18.

- Wilkin, John T., assignor to The Connersville Blower Co., Connersville, Ind. Multiple control governor for gas or coke oven systems. 1,648,522; Nov. 8.
- Wilkin, Robert E., assignor to Standard Oil Company, Whiting, Ind. Rustproofing oil. 1,630,101; May 24.
- Wilking, Lester C. (See Sewell, H. J., and Wilking.)
- Wilkins, Fred W., assignor to Sanford Motor Truck Company, Syracuse, N. Y. Radius rod. 1,643,970; Oct. 4.
- Wilkins, Charles. (See Bailey, C. B., McCord, and Wilkins.)
- Wilkins, Chester A., Sacramento, Calif., and S. D. Wilkins, St. Louis, Mo. Insecticide. 1,630,506; May 31.
- Wilkins, Clyde H., Lyndon, Ill. Games apparatus. 1,635,020; July 5.
- Wilkins, James M., assignor to A. Mueller, trustee, Decatur, Ill. Pressure regulator. 1,651,237; Nov. 29.
- Wilkins, James M., and L. N. Rohr, assignors to A. Mueller, trustee, Decatur, Ill. Gas-pressure regulator. 1,618,396; Feb. 22.
- Wilkins, Stanley D. (See Wilkins, Chester A. and S. D.)
- Wilkinson, Bert, Fort Worth, Tex. Vehicle wheel. 1,624,645; Apr. 12.
- Wilkinson, Henry, Newcastle, Ind., and W. Lehman, Milwaukee, assignors to Bucyrus Company, South Milwaukee, Wis. Brake. 1,646,718; Oct. 25.
- Wilkinson, George D., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Broler oven. 1,614,167; Jan. 11.
- Wilkinson, George S. (See Napier, M. S., and Wilkinson.)
- Wilkinson, George S. (See Napier, M. S., Wilkinson, and Tryon.)
- Wilkinson, Henry, and G. A. Bassett, assignors of one-third to Platt Brothers and Company Limited, Oldham, England. Pneumatic apparatus or means for conveying and treating textile fibers. 1,642,135; Sept. 13.
- Wilkinson, Henry, and J. Reed, assignors of one-third to Platt Brothers and Company Limited, Oldham, England. Carding engine for carding artificial silk and such like material. 1,642,758; Sept. 20.
- Wilkinson, Henry H., Brooklyn, N. Y., assignor to Union Sulphur Company. Purifying sulphur. 1,613,632; Jan. 11.
- Wilkinson, Jabez, Fall River, Mass. Warper or section beam head. 1,644,099; Oct. 4.
- Wilkinson, James, Lynn, Mass., assignor to General Electric Company. Strainer. 1,617,977; Feb. 15.
- Wilkinson, James, Lynnfield, Mass., assignor to General Electric Company. Emergency governor. 1,623,822; Apr. 5.
- Wilkinson, James, Lynn, Mass., assignor, by mesne assignments, to Bailey Meter Company. Pressure-difference-creating device. 1,648,708; Nov. 8.
- Wilkinson, James W., Kansas City, Kans. Electric welding appliance. 1,636,266; July 19.
- Wilkinson, John, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Cooling system for air-cooled motor-vehicle engines. 1,624,453; Apr. 12.
- Wilkinson, John B., Alliance, Ohio. Accounting system. 1,642,002; Sept. 13.
- Wilkinson, Marietta M., Memphis, Tenn. Detachable battery lamp. 1,651,307; Nov. 29.
- Wilkinson, Samuel W., Westminster, London, assignor to Zair Syndicate, Limited, London, England. Dyeing of animal fibers and fabrics of a protein nature. 1,628,484; May 10.
- Wilkinson, Stanley W., Waukegan, assignor of two-fifths to W. C. Davis, individually, and two-fifths to W. C. Davis, trustee, Chicago, Ill., and one-fifth to L. Hughes, Los Angeles, Calif. Vending apparatus. 1,651,857; Dec. 6.
- Wilkinson, Stanley W., Waukegan, assignor of two-fifths to W. C. Davis, individually, and two-fifths to W. C. Davis, trustee, Chicago, Ill., and one-fifth to L. Hughes, Los Angeles, Calif. Vending apparatus. 1,651,858; Dec. 6.
- Wilkinson, Tannie B. (See Rice, C. L., and Wilkinson.)
- Wilkinson, Walter, Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of ternary gaseous mixtures. 1,619,909; Mar. 8.
- Wilkinson, William E. (See Laucks, S. F., and Wilkinson.)
- Will & Baumer Candle Company Inc. (See Flannery, Martin A., assignor.)
- Will, Jacob G., and C. F. McConnell, Chicago, Ill. Golf-ball marker. 1,641,562; Sept. 6.
- Will, Victor R., Sacramento, Calif. Gradometer. 1,613,776; Jan. 11.
- Willamette Iron and Steel Works. (See Allison, Clifford E., assignor.)
- Willamette Iron & Steel Works. (See Claypoole, Albert, assignor.)
- Willamette Iron & Steel Works. (See Siefarth, Chester J., assignor.)
- Willans, Peter W. (See Agate, C. S., and Willans.)
- Willans, Peter W., Pattisball, Towcester, England. Thermionic valve circuits. 1,637,924; Aug. 2.
- Willans, Peter W., Pattisball, Towcester, England. Thermionic valve circuits. 1,637,977; Aug. 2.
- Willans, Peter W., Pattisball, Towcester, England. Frame aerial and the like. 1,644,906; Oct. 11.
- Willard, Frederic W., Summit, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Coated core and method of and apparatus for coating same. 1,615,428; Jan. 25.
- Willard, George H., assignor to Draper Corporation, Hopedale, Mass. Loom shuttle. 1,630,817; May 31.
- Willard, George H., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing-loom thread control with bobbin cleaning. 1,652,590; Dec. 13.
- Willard, Hobart H. (See Green, M., and Willard.)
- Willard, Hobart H. (See Green M., Jones, and Willard.)
- Willard, Joseph T., assignor to Eureka Steel Range Company, O'Fallon, Ill. Furnace grate. 1,621,390; Mar. 15.
- Willard, Louis J., assignor to The Rotary Printing Company, Norwalk, Ohio. Perforating device. 1,649,635; Nov. 15.
- Willard, Maurice L., assignor to The Superior Type Company, Chicago, Ill. Rubber stamp. 1,651,568; Dec. 6.
- Willard Storage Battery Company. (See Dunzweiler, Carl J., assignor.)
- Willard Storage Battery Company. (See Dunzweiler, Carl J., and Severance, assignors.)
- Willard Storage Battery Company. (See Lormor, Henry W., assignor.)
- Willard, Theodore A., Cleveland Heights, Ohio. Press. 1,646,568; Oct. 25.
- Willard, Waldo W. (See Hewlett, E. M., and Willard.)
- Willbar, Harry, Atlanta, Ga. Garage turntable. 1,647,678; Nov. 1.
- Willbrandt, Blanche, et al. (See Krystofak, Josef, assignor.)
- Willbrandt, Emil, et al. (See Krystofak, Josef, assignor.)
- Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Dust receiver. 1,629,244; May 17.
- Willcox, Frederick H., assignor to Freyn, Brassett & Company, Chicago, Ill. Gas-washing system. 1,632,572; June 14.
- Willcox, George B., Saginaw, Mich., assignor to Hart Brothers, Saginaw, Mich. Multiple-feed sorting rolls. 1,618,500; Feb. 22.
- Willcox & Gibbs Sewing Machine Co. (See Merritt, Arthur A., assignor.)
- Willie, Eduard, Cronenberg, Germany. Screw cutter. 1,633,913; June 28.
- Willie, Henry V., R. M. Campbell, and W. J. Etherington, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Frame for electric locomotives. 1,622,074; May 22.
- Willie, Karl, Somerville, N. J., and W. Tiek, Astoria, N. Y.; said Tiek assignor to said Willie. Paper-coloring device. 1,638,757; Aug. 9.
- Willenbacher, August, Hackensack, N. J., assignor to C. Haas, New York, N. Y. Lamp-shade holder. 1,616,159; Feb. 1.
- Willer, George E., assignor to A. D. Cook Inc., Lawrenceburg, Ind. Deep-well-pump-connecting device. 1,631,390; June 7.
- Willett, Alfred H., West New York, N. J., assignor to American Arch Company. Fire pan. 1,619,453; Mar. 1.
- Willett, Benedict E., Dayton, Ohio. Stepladder. 1,624,569; Apr. 12.
- Willett, Charles G. (See Burns, David E., assignor.)
- Willette, Hazel C., Rhinelander, Wis. Stocking protector. 1,635,298; July 12.
- Willets, Paul G., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Producing fired ceramic blocks. 1,626,260; Apr. 26.
- Willets, Paul G., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Making refractory blocks. 1,626,261; Apr. 26.
- Willets, Paul G., Berlin, assignor to Hartford-Empire Company, Hartford, Conn. Zirconia-faced refractory. 1,650,577; Nov. 22.
- Willey, Edith M., Seattle, Wash. Stuffed figure toy. 1,644,317; Oct. 4.
- Willey, George H., Somerville, assignor to Willey-Noyes Manufacturing Company, Boston, Mass. Circuit-closing device. 1,645,978; Oct. 18.
- Willey-Noyes Manufacturing Company. (See Willey, George H., assignor.)
- Willgoos, Andrew V. D., Upper Montclair, N. J., assignor to Wright Aeronautical Corporation. Clutch. 1,632,526; June 14.
- Willheim, Raoul, Vienna, Austria, assignor to General Electric Company. Protective system. 1,632,753; June 14.
- Willhoeff, Carl, Wandsbek, Germany. Regulating apparatus for central heating appliances. 1,649,090; Nov. 15.
- William Bros. Roller & Mfg. Co. (See Ashenden, Ernest W., assignor.)
- Williams, Alfred J. (See Olson, G. E., and Williams.)
- Williams, Alfred S., et al., trustees. (See Conner, Lester C., assignor.)
- Williams, Alvin L. and M. O., assignors to R. B. Cozart, Lufkin, Tex. Cleaning machine. 1,630,152; May 24.
- Williams, Annie M., committee. (See Williams, Frank H.)
- Williams, Anthony F., assignor to North East Appliances Inc., Rochester, N. Y. Power mechanism. 1,643,041; Sept. 20.

- Williams, Anthony F., assignor to North East Electric Company, Rochester, N. Y. Testing electrode. 1,650,779; Nov. 29.
- Williams, Arthur H. T., Portland, Oreg. Gas holder. 1,630,647; May 31.
- Williams, Arthur J., assignor of one-fourth to C. J. Cameron, one-fourth to W. F. Glenn, Jr., and one-fourth to L. B. Glenn, Nashville, Tenn. Rotary engine. 1,625,233; Apr. 19.
- Williams, Austin D., and F. B. Gillet, Sacramento, Calif. Bushing mold. 1,622,750; Mar. 29.
- Williams, Austin D., and F. J. Hickey, Sacramento, Calif. Shock absorber for pneumatic hammers. 1,642,769; Sept. 20.
- Williams, Benjamin M., Philadelphia, Pa. Hat cover and carrier therefor. 1,635,916; July 12.
- Williams, Byron, Chicago, Ill. Steering gear. 1,640,388; Aug. 30.
- Williams, Carl S., Woodbridge, N. J., assignor to the Reussler & Hasselacher Chemical Company, New York, N. Y. Testing machine. 1,627,366; May 3.
- Williams, Cecil O., Evansville, Ind. Refrigerator. 1,622,478; Mar. 29.
- Williams, Charles H. (See Green, T. L., Morton, and Williams.)
- Williams, Charles H., assignor to T. L. Green, Indianapolis, Ind. Lubricating system. 1,648,174; Nov. 8.
- Williams, Charles H., and M. L. Tucker, Piqua, Ohio. Hydraulic steering gear. 1,621,916; Mar. 22.
- Williams, Clarence H., Detroit, Mich., assignor to the Steckelberg Corporation, South Bend, Ind. Switch. 1,630,458; May 31.
- Williams, Clifford E., (See Lewis, R. B., and Williams.)
- Williams, Clifford J., assignor to Briggs Manufacturing Company, Detroit, Mich. Door buffer. 1,623,767; Apr. 5.
- Williams, Clifford J., assignor to Briggs Manufacturing Company, Detroit, Mich. Adjustable striker plate. 1,634,814; July 5.
- Williams Company, The. (See Robbins, William H., assignor.)
- Williams, D. T., Valve Company, The. (See Ernst, Harry E., assignor.)
- Williams, Dayton L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Knife bracket for tire machines. 1,637,794; Aug. 2.
- Williams, Dayton L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-building tool. 1,645,081; Oct. 11.
- Williams, Dick B., assignor to W. O. Coleman, Chicago, Ill. Low-fuel alarm. 1,642,318; Sept. 13.
- Williams, Dick B., assignor to W. O. Coleman, Chicago, Ill. Low-fuel alarm for motor vehicles. 1,654,443; Dec. 27.
- Williams, Douglas W. (See Lewis, N. E., and Williams.)
- Williams, Edmon, Louisville, Ky. Poultry feeder. 1,631,778; Jun. 7.
- Williams, Edward, Monessen, assignor to Williams Welding and Manufacturing Company, Charleroi, Pa. Port cooler for open-hearth furnaces. 1,648,157; Nov. 8.
- Williams, Edward L., Lakewood, assignor to The Walter A. Goldsmith Company, Cleveland, Ohio. Garment yoke. 1,647,423; Nov. 1.
- Williams, Edward T., Brooklyn, assignor to Refrigeration Development, Inc., New York, N. Y. Reciprocating compressor. Re16,693; Aug. 2.
- Williams, Edward T., Brooklyn, N. Y. Refrigerating apparatus. 1,645,314; Oct. 11.
- Williams, Edward T., assignor to Merit Underwear Company, Shoemakersville, Pa. Union suit. 1,615,922; Feb. 1.
- Williams, Edwin R., Philadelphia Pa. Artificial limb and making same. 1,646,469; Oct. 25.
- Williams, Elijah. (See Pringle, Leonard C., assignor.)
- Williams Foundry and Machine Company, The. (See Garrigue, William C., assignor.)
- Williams Foundry & Machine Company, The. (See Vandergrift, Frank C., assignor.)
- Williams, Frank B., West Medford, assignor to The Shoe-Bloc Co., Inc., Boston, Mass. Machine for making concrete blocks. 1,652,905; Dec. 13.
- Williams, Frank H., Buffalo, A. M. Williams, committee of the person and estate of said Frank H. Williams, assignor to The Spiral-Rolled Products Co., Inc., New York, N. Y. Wood screw. 1,649,049; Nov. 15.
- Williams, Frank L. (See Bryson, T. A., and Williams.)
- Williams, Fred W. (See Rice, T. E., and Williams.)
- Williams, Fred W., Santa Maria, Calif. Multiple fuse plug. 1,644,969; Oct. 11.
- Williams, Frederick D., Sydney, New South Wales, Australia. Luggage carrier for motor road vehicles. 1,648,094; Nov. 8.
- Williams, George B. (See Clyde, R. G., and Williams.)
- Williams, George W., Oak Park, Ill., and A. M. Walstrom, Minneapolis, Minn., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Soldering machine. 1,623,293; Apr. 5.
- Williams, George W., Oak Park, Ill., and A. M. Walstrom, Minneapolis, Minn., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Soldering machine. 1,623,294; Apr. 5.
- Williams, Harold E., Carthage, Mo. Foldable rack. 1,625,604; Apr. 19.
- Williams, Harry A. (See Hynes, L. P., and Williams.)
- Williams, Harry M., assignor to General Motors Research Corporation, Dayton, Ohio. Bearing. 1,618,853; Feb. 22.
- Williams, Harry M., Dayton, Ohio, assignor to General Motors Research Corporation. Making lead-copper particles. 1,635,653; July 12.
- Williams, Harry M., Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio. Making air-cooled cylinders. 1,649,274; Nov. 15.
- Williams, Harry M., and A. L. Boegehold, assignors to General Motors Research Corporation, Dayton, Ohio. Bearing. 1,642,347; Sept. 13.
- Williams, Harry M., and A. L. Boegehold, assignors to General Motors Research Corporation, Dayton, Ohio. Alloy structure. 1,642,348; Sept. 13.
- Williams, Harry M., and A. L. Boegehold, assignors to General Motors Research Corporation, Dayton, Ohio. Alloy structure. 1,642,349; Sept. 13.
- Williams, Harry S., San Antonio, Tex. Sanitary napkin. 1,644,785; Sept. 27.
- Williams, Harvey S., Zephyr, Tex. Safety pressure-valve device. 1,616,775; Feb. 8.
- Williams, Henry A., Murphysboro, Ill. Amusement device. 1,641,213; Sept. 6.
- Williams, Henry B., assignor to John W. Ladd Co., Detroit, Mich. Valve. 1,638,077; Aug. 9.
- Williams, Henry C., Sargent, Neb. Fuel composition. 1,648,434; Nov. 8.
- Williams, Henry G., Spokane, assignor of one-half to J. M. Packer, Douglas, Wash. Sack jigger. 1,640,103; Apr. 23.
- Williams, Henry H., assignor to The Tabur Manufacturing Company, Philadelphia, Pa. Burner. 1,650,559; Nov. 22.
- Williams, Henry H., assignor to The Tabur Manufacturing Company, Philadelphia, Pa. Liquid-fuel-burning apparatus. 1,650,560; Nov. 22.
- Williams, Henry H., Philadelphia County, assignor to The Tabur Manufacturing Company, Philadelphia, Pa. Liquid-fuel burner. 1,650,561; Nov. 22.
- Williams, Herbert H., assignor to T. E. Murray, Brooklyn, N. Y. Method and apparatus for making wheels. 1,643,700; Jan. 31.
- Williams, Homer W., Tacoma, Wash. Car construction. 1,652,749; Dec. 13.
- Williams, Hubert P., Hamlin, Tex. Agricultural attachment for tractors. 1,616,099; Feb. 1.
- Williams, Hubert P., Hamlin, Tex. Trailer coupling. 1,626,903; May 2.
- Williams, Irving B., and J. D. McGilton, Tulsa, Okla. Oil-pump construction. 1,646,569; Oct. 25.
- Williams, Isiah, Gary, Ind. Car-moving device. 1,648,897; Nov. 1.
- Williams, J. H., Company. (See Spencer, Philip L., assignor.)
- Williams, Jack, assignor to Williams & Williams Limited, Chester, England. Window. 1,643,042; Sept. 20.
- Williams, James A., West, Tex. Reversible aeroplane propeller. 1,650,477; Nov. 22.
- Williams, James B., Tampa, Fla. Over-water craft. 1,637,876; May 30.
- Williams, James C., et al. (See Seward, Ira W., assignor.)
- Williams, James C., assignor to Dalton Hosiery Mills, Dalton, Ga. Seamless hosiery and making same. 1,621,343; Mar. 15.
- Williams, James T., Miami, Mo. Gearing. 1,620,849; Mar. 15.
- Williams, Job J., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Dumb-bell bolt. 1,618,619; Feb. 22.
- Williams, John, Washington, D. C. Show case. 1,634,732; July 5.
- Williams, John A., Richmond Hill, N. Y. Cuff button. 1,624,570; Mar. 22.
- Williams, John D., Whittenburg, Tex. Oil derrick. 1,650,857; Nov. 29.
- Williams, John D., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Method and apparatus for braiding reinforced cords. 1,618,033; Feb. 22.
- Williams, John E., Longworth, Tex. Cotton blocker. 1,635,521; July 12.
- Williams, John H., Westwood, Calif. Mold. 1,613,214; Jan. 4.
- Williams, John I., Du Bois, Pa. Fisherman's hat. 1,623,768; Apr. 5.
- Williams, John M., Jr., Montclair, N. J. Internal-combustion engine. 1,622,016; Mar. 22.
- Williams, John M., Jr., Montclair, N. J. Carburetor economizer. 1,643,479; Sept. 27.
- Williams, John N. S., Honolulu, Hawaii. Filter. 1,642,864; Sept. 20.
- Williams, John P., Bayside, assignor to Duplex Electric Company, New York, N. Y. Foot-rail contactor for electric burglar-alarm. 1,630,914; May 31.
- Williams, John P., assignor to Duplex Electric Company, New York, N. Y. Safety means for hand bags or the like. 1,643,106; Sept. 20.
- Williams, John P., assignor to Pratt & Letchworth Co., Buffalo, N. Y. Combined stop lug and center filler casting. 1,650,407; Nov. 22.
- Williams, John T., Los Angeles, Calif. Sash fastener. 1,630,153; May 24.

Williams, John T., Brooks, Alberta, Canada. Grease cup. 1,647,945; Nov. 1.

Williams, John W., Buffalo, N. Y. Muffler. 1,631,391; June 7.

Williams, John W., South Miami, Fla. Spraying apparatus. 1,634,701; July 5.

Williams, Joseph S. (See Allen, H. H. and Williams.)

Williams, Joshua H. (See Gover, T. C. and Williams.)

Williams, Josiah H., Baltimore, Md. Inhalation device. 1,636,344; July 19.

Williams, Keith Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Jig for grinding. 1,616,727; Feb. 8.

Williams, Leland W., San Antonio, Tex. Door holder. 1,633,202; June 21.

Williams, Leo L., Portland, Oreg. Display stand. 1,620,148; Mar. 8.

Williams, Lester, Marshalltown, Iowa. Combined rotary level shear and scrap cutter. 1,636,267; July 19.

Williams, Lester, Marshalltown, Iowa. Shear machine. 1,651,654; Dec. 6.

Williams, Louis, Seattle, Wash. Pruning implement. 1,640,168; Aug. 23.

Williams, Louis H., Camas, Wash., and R. E. Watt, Ononagon, Mich. Smelter spout. 1,625,755; Apr. 19.

Williams, Louise H., Los Angeles, Calif. Collapsible hat-box. 1,647,679; Nov. 1.

Williams, Marshall M., Faison, N. C. Combination foot switch. 1,643,230; Sept. 20.

Williams, Martin E., Hope, Ark. Well pump. 1,616,017; Feb. 1.

Williams, Martin L., Mishawaka, Ind. Boring and grinding tool. 1,646,892; Oct. 25.

Williams, Maude S., Los Angeles, Calif. Electric heating appliance. 1,633,801; June 28.

Williams, Melford O. (See Williams, Alvir L. and M. O.)

Williams, Merritt A., Norfolk, Va. Automatic mechanically operated oil burner. 1,621,447; Mar. 15.

Williams, Miriam S. F. (See Williams, Vilor P., assignor.)

Williams, Oil-O-Matic Heating Corporation. (See Williams, Walter W., assignor.)

Williams, Orval L., Kenmore, Ohio. Rail joint. 1,632,359; June 14.

Williams, Percy Q., Cincinnati, Ohio. Conveying mechanism. 1,633,053; June 21.

Williams, Percy Q., Cincinnati, Ohio. Leer-pan structure. 1,641,515; Sept. 6.

Williams, Percy Q., Cincinnati, Ohio. Conveying mechanism. 1,650,405; Nov. 22.

Williams, Percy Q., Huntington, W. Va. Leer conveyor. 1,646,047; Oct. 15.

Williams, Perli E., et al. (See Smyser, Elmer D., assignor.)

Williams, Philip S., McKittick, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Resistant substance. 1,618,397; Feb. 22.

Williams, Pleasant P. (See Boardman, Frank E., assignor.)

Williams, Ralph T., assignor to Bodine Electric Company, Chicago, Ill. Radio tuning inductance. 1,645,941; Oct. 18.

Williams, Ralph T., assignor to Roth Brothers & Co., Chicago, Ill. Ext-lighting system. 1,650,676; Nov. 29.

Williams, Reginald V., Buffalo, N. Y. Spinnerette. 1,647,822; Nov. 1.

Williams, Rensen T. (See Hunter, Lewis B., assignor.)

Williams, Richard A., and W. L. Bigsby, assignor to Yates-American Machine Company, Beloit, Wis. Sander drum. 1,639,155; Aug. 16.

Williams, Robert C., San Francisco, Calif. Guide for straightedges. 1,635,352; July 12.

Williams, Ross G., Long Beach, Calif. Rotary combination stove. 1,643,035; Sept. 27.

Williams, Rowland F. D. (See Gepp, H. W., Hey, Rigg Stevens, and Williams.)

Williams, Roy E., Ringtown, Pa. Automobile license-card holder. 1,632,812; June 21.

Williams, Roy F., Nashville, Tenn. Display rack. 1,616,602; Feb. 8.

Williams, Roy H., Evansville, Ind. Fuse plug and receptacle. 1,624,030; Apr. 12.

Williams, Rufin, Wakefield, N. C. Rule. 1,623,897; Apr. 5.

Williams, S. D. (See Burns, Edward L., assignor.)

Williams, Samuel. (See Massey, Orren I., assignor.)

Williams, Samuel B., Brooklyn, N. Y., and E. S. Gibson, Ridgewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,615,971; Feb. 1.

Williams, Samuel B., jr., Brooklyn, N. Y., and L. M. Clement, Mountain Lakes, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone high-frequency trunk. 1,619,228; Mar. 1.

Williams, Samuel B., Brooklyn, N. Y., and E. S. Gibson, Ridgewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,623,769; Apr. 6.

Williams, Samuel E. (See Holden, A. P., Morgan, and Williams.)

Williams, Sylvester J., assignor to C. Allert, Ritzville, Wash. Method and apparatus for treating seed grain. 1,633,301; June 21.

Williams, Theodore, and C. T. Swart, Syracuse, N. Y., assignors, by mesne assignments, to Economy Baler Company, Ann Arbor, Mich. Baling press. 1,650,677; Nov. 29.

Williams, Theophilus G., Morristown, N. J. Ladies' hand bag. Des. 75,729; Oct. 25.

Williams, Theron H., Chicago, Ill. Shock absorber. 1,630,915; Mar. 31.

Williams, Theron H., Chicago, Ill., and F. A. Jacobs, Warren, Ohio, assignors, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,615,105; Jan. 18.

Williams, Theron H., and W. Wright, assignors, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof clamp. 1,619,282; Mar. 1.

Williams, Thomas C., East Bakersfield, Calif. Sash lifter and latch. 1,635,443; July 12.

Williams, Thomas F., Fairhaven, N. J., assignor to Inglis, M. P., Upper Merion, Deal, N. J. Spring governor. 1,632,257; June 14.

Williams Tool Corporation. (See Hall, Leslie S., assignor.)

Williams, Vilor P., Baltimore, Md. Adjustable vehicle supporting and turning device. 1,615,860; Feb. 1.

Williams, Vilor P., assignor to M. S. F. Williams, Baltimore, Md. Unitary selective drive device for vehicle parking apparatus. 1,612,846; Jan. 4.

Williams, Vilor P., assignor to M. S. F. Williams, Baltimore, Md. Combined mechanical and fluid pressure vehicle parking device. 1,615,861; Feb. 1.

Williams, Walter L., South Richmond, Va. Ironing-board cabinet. 1,632,939; June 21.

Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Thermostatic switch. 1,612,958; Jan. 4.

Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Domestic oil-burner installation. 1,617,470; Feb. 15.

Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Pumping unit. 1,622,694; Mar. 29.

Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Safety control mechanism for liquid-fuel burners. 1,637,670; Aug. 2.

Williams, Edward, assignor.

Williams, Wesley I., and R. Reeder, Wichita, Kans. Valve. 1,618,034; Feb. 15.

Williams, Willard C., assignor of one-half to J. M. Phipps, Indianapolis, Ind. Dirigible spotlight. 1,624,818; Apr. 12.

Williams, William A., Barton, Ohio. Lens for vehicle headlights. 1,618,035; Feb. 15.

Williams, William A., Columbus, Ohio. Elevator-door latch. 1,621,391; Mar. 15.

Williams, William E., Brooklyn, N. Y. Try cock. 1,623,566; May 10.

Williams, William E., Roosevelt, N. Y. Electric gasoline gauge. 1,634,165; June 23.

Williams, William E., Wilmette, Ill. Metal sheet used for freight-car structures. 1,626,994; May 3.

Williams, William E., Wilmette, Ill., assignor to American Steel Foundries, Chicago, Ill. Disk wheel. 1,617,978; Feb. 15.

Williams, William E., Wilmette, assignor to American Steel Foundries, Chicago, Ill. Tubular-spoked wheel. 1,636,541; July 19.

Williams, William E., Wilmette, assignor to American Steel Foundries, Chicago, Ill. Wheel-spoke bar. 1,639,068; Aug. 16.

Williams, William E., Wilmette, assignor to American Steel Foundries, Chicago, Ill. Disk wheel and rim therefor. 1,639,322; Aug. 16.

Williams, William E., assignor to American Steel Foundries, Chicago, Ill. Automobile steel-disk wheel. 1,640,063; Aug. 23.

Williams, William E., Wilmette, assignor to Union Metal Products Company, Chicago, Ill. Side plate construction for railway box cars. 1,649,501; Nov. 15.

Williams, William E., Wilmette, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Wheel disk and method of manufacture. 1,640,780; Nov. 29.

Williams, William E., Wilmette, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Mountable rim disk wheel. 1,650,781; Nov. 29.

Williams, William E., Wilmette, assignor to Union Metal Products Company, Chicago, Ill. Side-plate construction for railway box cars. 1,654,153; Dec. 27.

Williams, William G. (See Hardesty, S. and Williams.)

Williams, William G. (See Brown, T. E., jr., Williams, and Hardesty.)

Williams, William G., assignor of one-half to A. Gribble, Kingwood, W. Va. Spark-plug tester. 1,628,942; May 17.

Williams, William H., Marlin, Tex. Light control. 1,628,567; May 10.

Williams, William H. K., Cottonwood, S. Dak. Carburetor. 1,629,898; May 24.

Williams, William T., Waco, Tex. Nutcracker. 1,647,029; Oct. 25.

Williams & Williams Limited. (See Williams, Jack, assignor.)

- Williams, Zenas H., San Antonio, Tex. Window-shade pulley. 1,613,071; Jan. 4.
- Williamson, Aubrey C., assignor of 36 per cent to C. E. Smith and 24 per cent to J. K. Bagley, New Orleans, La. Plaster composition. 1,620,587; Mar. 8.
- Williamson, Bert R., Fairfield, assignor to Keyes Fibre Company, Waterville, Me. Apparatus for molding articles from pulp. 1,634,128; June 28.
- Williamson, Frederick G., assignor to (See Lord, W. S., and Ashley, assignors.)
- Williamson, Floyd M. (See Williamson, Pearl H. and F. M.)
- Williamson, Frank S., Chicopee, Mass., assignor to A. G. Spaulding & Bros., New York, N. Y. Tennis racket. 1,630,833; May 31.
- Williamson, Fred, Chicago, Ill., and P. P. Runnels, Indianapolis, Ind.; said Runnels assignor to O. E. Stokes, Sreator, Ill. Automobile bumper. 1,633,054; June 21.
- Williamson, Fred H., Chicago, assignor to O. E. Stokes, Sreator, Ill. Automobile bumper. 1,633,055; June 21.
- Williamson, Frederick G., Ferguson, assignor to The American Brake Company, St. Louis, Mo. Stop-screw device. 1,650,313; Nov. 22.
- Williamson, George M., Shreveport, La. Packing for air-lift pumps. 1,654,395; Dec. 27.
- Williamson, James, Chicago, Ill. Lighting fixture. 1,624,299; Apr. 12.
- Williamson, James, Chicago, Ill. Lighting fixture. 1,647,946; Nov. 1.
- Williamson, James, Chicago, Ill. Lighting fixture. 1,647,947; Nov. 1.
- Williamson, James C., assignor to W. T. Thompson, Cordele, Ga. Fireplace stove. 1,649,881; Nov. 22.
- Williamson, James C., Cordele, Ga. Gearing. 1,648,751; Nov. 8.
- Williamson, James L., Schenectady, N. Y., assignor to General Electric Company, Pinion puller. 1,631,664; Jan. 17.
- Williamson, John S., Seattle, Wash. Folding shipping case. 1,626,369; Apr. 26.
- Williamson, Louis S., and B. A. De Bord, Temple, Tex. Adjustable awning frame for motor vehicles. 1,638,901; Aug. 16.
- Williamson, Mary P. (See Williamson, Samuel S., assignor.)
- Williamson, Pearl H. and F. M., Detroit, Mich. Window. 1,636,762; July 26.
- Williamson, R., & Company. (See Ohm, Albert J. D., assignor.)
- Williamson, R., & Company. (See Samuelson, Eric, assignor.)
- Williamson, R., & Company. (See Samuelson, Eric T., assignor.)
- Williamson, Roy C. (See Abbe, G. C., and Williamson.)
- Williamson, Ruben, Miami, Fla. Body for toy wagons. Des. 73,461; Sept. 13.
- Williamson, Russell B., White Fish Bay, Wis., assignor to A. S. Madala. Mail box. Des. 73,628; Oct. 11.
- Williamson, Samuel H., Delight, Ark. Lifter. 1,615,732; Jan. 25.
- Williamson, Samuel S., assignor to M. P. Williamson, Philadelphia, Pa. Flush siphon. 1,617,295; Feb. 8.
- Willig, Hans, Santa Barbara, Calif. Lath nail. 1,624,817; Apr. 12.
- Willig, Robert P., Pittsburgh, Pa. Window screen. 1,628,485; May 10.
- Willis, Bernard D., Oak Park, assignor by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Inter-office trunk circuits for telephone systems. Rel.6,637; May 24.
- Willis, Bernard D., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,628,831; May 10.
- Willis, Bernard D., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multifioce telephone system. 1,638,382; Aug. 9.
- Willis, Bernard D., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multifioce telephone system. 1,650,409; Nov. 22.
- Willis, Charles E., New York, N. Y. Book match. 1,639,476; Aug. 16.
- Willis, Child H., Marysville, Mich. Machine part. 1,647,847; Nov. 1.
- Willis, Durward E., Springfield, Ill. Piston for internal-combustion engines. 1,627,719; May 10.
- Willis, Frederick C., West New Brighton, assignor to Western Electric Company, Incorporated, New York, N. Y. Translating apparatus. 1,654,062; Dec. 27.
- Willis, Frederick E., Brockton, Mass. Tray for shoe racks. 1,638,009; Aug. 9.
- Willis, Henry L., Colfax, Wash. Auto chain fastener. 1,643,043; Sept. 20.
- Willis, John P., Jenkins, Ky. Piston having an adjustable head for facilitating the removal of the piston rings. 1,636,542; July 19.
- Willis, Lebond, Pimman, N. J., assignor to Fred H. Bateman Co., Philadelphia, Pa. Potato harvester. 1,650,562; Nov. 22.
- Willis, Olo C., assignor to The P. A. Geler Company, Cleveland, Ohio. Applicator for surgical dressings and the like. 1,640,365; Oct. 18.
- Willis, Orris C. (See Lewellen, L. J., and Willis.)
- Willis, Orris C. and O. Cox, Cotton Valley, La. Wrist pin. 1,634,106; June 28.
- Willis, Patricia M., San Francisco, Calif. Protector spreader for umbrellas. 1,648,095; Nov. 8.
- Willis, Ray L., Arvin, Calif. Cotton gin. 1,642,982; Sept. 20.
- Willis, Samuel T. (See Bannon, Thomas F., assignor.)
- Willis, Thomas, Mumbles, Swansea, South Wales. Damper for boiler and like furnaces. 1,638,650; Aug. 9.
- Willison, John, assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,614,512; Jan. 18.
- Willison, John, assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler and contour thereof. 1,614,513; Jan. 18.
- Willison, John, assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler and contour thereof. 1,614,515; Jan. 18.
- Willison, John, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,614,516; Jan. 18.
- Willison, John, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,614,517; Jan. 18.
- Willison, John, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Transition device for car couplers. 1,614,518; Jan. 18.
- Willison, John, assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,616,937; Feb. 8.
- Willison, John, and D. Robinson, assignors, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Transition device for car couplers. 1,614,514; Jan. 18.
- Willison, Walter W., Brooklyn, assignor to Thermokept Corporation, New York, N. Y. Treating food products. 1,637,061; July 26.
- Willis, Alexander, Paris, France. Folding powder puff. 1,626,992; May 3.
- Willman, Otto, Coesey Beach, Conn. Combination tool. 1,616,160; Feb. 1.
- Willmot, Oliver J., Malvern, England. Truck, trolley, vehicle, and the like. 1,649,940; Nov. 22.
- Willms, Karl, Baltimore, Md. Snow guard. 1,626,995; May 3.
- Willner, Elias, New York, N. Y. Infuser. 1,636,727; July 26.
- Willners, John A., Philadelphia, Pa. Fuel burner. 1,625,035; Apr. 19.
- Willcox, Alice. (See Mason, Leon O., assignor.)
- Willcock, Frederick J., Richmond Hill, N. Y. Book end or analogous article. Des. 74,042; Dec. 6.
- Willcock, Frederick J., Richmond Hill, N. Y. Table ornament or analogous article. Des. 74,150; Dec. 20.
- Willcox, Harry H. S. J., Caplan, and J. E. Babb, assignors to Waverly Oil Works Company, Pittsburgh, Pa. Lubricant. 1,625,969; Apr. 26.
- Willoughby, Alfred B., Philadelphia, Pa. Impact pulverizer. 1,622,695; Mar. 29.
- Willoughby, Thomas P., Beaverton, Oreg. Door butt. Des. 73,474; Sept. 13.
- Willoughby, Victor. (See Alquist, L., and Willoughby.)
- Willoughby, Victor. (See Cooper, W. E., and Willoughby.)
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Coupler-centering device. 1,616,603; Feb. 8.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Valve tester. 1,616,728; Feb. 8.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,626,653; May 3.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,626,654; May 3.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank car. 1,631,304; June 7.
- Willoughby, Victor, Ridgewood, N. Y., assignor to American Car and Foundry Company, New York, N. Y. Frame for seat cushions. 1,649,431; Nov. 14.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Hopper-car-door mechanism. 1,649,433; Nov. 15.
- Willoughby, Victor, Ridgewood, N. J., and A. Kessler, New York, N. Y., assignors to American Car and Foundry Company, New York, N. Y. Tank mounting and multiple-unit tank car. 1,649,432; Nov. 15.
- Willows, James F., Dorence, Alberta, Canada. Stooking machine. 1,639,123; Aug. 16.
- Willz, Fred L., Pirkmann, S. Dak. Steering attachment for tractors. 1,639,246; Aug. 16.
- Wills, C. Harold. (See Smith, Joseph K., assignor.)
- Wills, Charles M., Atlantic City, N. J. Foldable vehicle. 1,652,190; Dec. 13.
- Wills, Chas. H. (See Halvorson, Cromwell, A. B., jr., assignor.)
- Wills, Child H., Marysville, Mich. Oil-feed construction. 1,630,554; May 31.
- Wills, Child H., Marysville, Mich. Spare-wheel lock. 1,639,069; Aug. 16.
- Wills, Walter B., Baltimore, Md. Frying basket. 1,634,733; July 5.

- Wills, Walter B., Baltimore, Md. Wire handle. 1,640,016; Aug. 23.
- Willslaw, Harry, assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y. Tire mold. 1,638,023; Aug. 9.
- Willson, Adolph D., Modesto, Calif. Gradometer. 1,614,814; Jan. 18.
- Willson, Carrie, executrix. (See Willson, Russell A.)
- Willson Goggles, Inc. (See Shindel, Harry F., assignor.)
- Willson, Russell A., deceased; C. Willson, executrix, assignor to F. N. Martin, Spokane, Wash. Ice-cream machine. 1,636,345; July 19.
- Wilson, Tom B., Pittsburgh, Pa. Automatic telephone apparatus. 1,619,554; Mar. 1.
- Willy, Walter M., Pukwana, S. Dak. Reatomizing device for internal-combustion engines. 1,627,627; May 10.
- Willys Corporation. (See Smith, Walter S., assignor.)
- Willys-Overland Company, The. (See Baker, Arthur J., assignor.)
- Willys-Overland Company, The. (See Belden, Edward H., assignor.)
- Willys-Overland Company, The. (See Edwards, Henry J., assignor.)
- Willys-Overland Company, The. (See Fisher, Walter S., assignor.)
- Willys-Overland Company, The. (See Hunt, Warren T., assignor.)
- Willys-Overland Company, The. (See Jerdone, Francis, Jr., assignor.)
- Willys-Overland Company, The. (See Lutz, Hans, assignor.)
- Willys-Overland Company, The. (See Rhoads, Harry E., assignor.)
- Willys-Overland Company, The. (See Snell, Lyle K., assignor.)
- Wilmert, Charlie W., Coalinga, Calif. Double-bed cover. 1,639,156; Aug. 16.
- Wilmot Castle Company. (See Underwood, Weeden B., assignor.)
- Wilmot Engineering Company. (See Wilmot, George W., assignor.)
- Wilmot Engineering Company. (See Wilmot, G. W., and Blatch, assignors.)
- Wilmot, Fred W., Long Beach, Calif. Rim mounting. 1,613,551; Jan. 4.
- Wilmot, George W., assignor to Wilmot Engineering Company, Hazleton, Pa. Drive chain. 1,631,237; June 7.
- Wilmot, George W., assignor to Wilmot Engineering Company, Hazleton, Pa. Apparatus for washing coal and ore. 1,639,915; Aug. 23.
- Wilmot, George W., and F. H. Blatch, assignor to Wilmot Engineering Company, Hazleton, Pa. Drive chain. 1,629,755; May 24.
- Wilms, Gustav O., assignor to The Reliance Company, Milwaukee, Wis. Dashpot-controlled switch. Re16,551; Feb. 15.
- Wilms, Gustav O., assignor to The Reliance Company, Milwaukee, Wis. Electrical switch. 1,629,767; May 24.
- Wilms, Gustav O., assignor, by mesne assignments, to The Reliance Company, Milwaukee, Wis. Pressure rheostat. 1,631,111; May 31.
- Wiley, Irven H., assignor to J. B. Tuthill, Chicago, Ill. Pump. 1,632,720; June 28.
- Wihusen, August E., Kokomo, Ind. Automobile speed control. 1,653,687; Dec. 27.
- Wilson, Adam B., Phillipsburg, Pa. Controlling mechanism for headlights. 1,630,154; May 24.
- Wilson, Albert, Chicago, Ill. Type-frame lifter. 1,640,683; Aug. 30.
- Wilson, Albert A. and A. D. Robertson, Minneapolis, Minn. Vacuum-controlled shock-absorbing device. 1,618,036; Feb. 15.
- Wilson, Albert V. and H. E., Los Angeles, Calif. Dog-eared apparatus. 1,647,067; Oct. 25.
- Wilson, Alexander H., Oak Park, assignor to Thomas Elevator Company, Chicago, Ill. Hoisting machine. 1,621,700; Mar. 22.
- Wilson, Alexander H., Oak Park, assignor to Thomas Elevator Company, Chicago, Ill. Hoisting machine. 1,623,147; Apr. 5.
- Wilson, Alexander H., Oak Park, assignor to Thomas Elevator Company, Chicago, Ill. Hoisting machine. 1,651,569; Dec. 6.
- Wilson, Alexander T. (See Evans, P., and Wilson.)
- Wilson, Alfred E., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car-wall construction. 1,650,678; Nov. 29.
- Wilson, Almond E., Indianapolis, Ind. Purifying mechanism and method. 1,634,893; July 5.
- Wilson, Alonzo F., Kansas City, Mo. Fountain brush for roof painting. 1,650,732; Nov. 29.
- Wilson, Alva R., Moline, Kans. Gas burner. 1,630,878; May 31.
- Wilson, Annetta M., Indianapolis, Ind. Drying rack. 1,617,281; Feb. 8.
- Wilson, Archie R. (See Thompson, Thomas M., assignor.)
- Wilson, Bingham T., Los Angeles, Calif., assignor to Wilson Farm Tool Corporation. Swinging plow. 1,644,970; Oct. 11.
- Wilson Bros. (See Burke, William W., assignor.)
- Wilson, Calvin H., McCracken, Kans. Armored truck for transporting valuables. 1,632,360; June 14.
- Wilson, Charles A., Philadelphia, Pa. Container holder. 1,649,273; Nov. 15.
- Wilson, Charles A., Torrance, J. B. Goeke, and C. F. De Corse, Los Angeles, assignors to Superior Valve Company, Los Angeles, Calif. Tubing release valve. 1,614,905; Jan. 18.
- Wilson, Charles C., Kings Mountain, N. C., assignor of one-third to F. D. Herndon, and one-third to B. A. Smith. Stop mechanism. 1,653,076; Dec. 20.
- Wilson, Charles E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Induction coil. 1,641,364; Sept. 6.
- Wilson, Charles T., Company. (See Johnston, Robert B., assignor.)
- Wilson, C. (See Adams, Robert, assignor.)
- Wilson, Edward, assignor to The National Pump & Compression Company, St. Louis, Mo. Thermostatic control device. 1,629,757; May 24.
- Wilson, Edward, assignor to National Pump and Compressor Company, St. Louis, Mo. Fluid compressor. 1,635,522; July 12.
- Wilson, Edward, assignor to The National Pump & Compressor Company, St. Louis, Mo. Compressor. 1,635,523; July 12.
- Wilson, Edward, assignor to The National Pump & Compressor Company, St. Louis, Mo. Compressor. 1,643,933; Sept. 27.
- Wilson, Edward A., Jackson Heights, N. Y., assignor to W. H. & A. E. Margerison & Co., Philadelphia, Pa., a firm composed of W. H. and A. E. Margerison. Towel. Des. 72,399; Apr. 5.
- Wilson, Edwin B., Forest Hills, assignor to Design Laboratories, Incorporated, New York, N. Y. Lantern. Des. 73,730; Oct. 25.
- Wilson, Edwin B., Forest Hills, assignor to Design Laboratories, Incorporated, New York, N. Y. Lantern frame. Des. 73,731; Oct. 25.
- Wilson, Edwin B., Forest Hills, assignor to Design Laboratories, Incorporated, New York, N. Y. Figure toy. 1,653,327; Dec. 20.
- Wilson, Edwin B., Forest Hills, N. Y., and A. K. Spencer, Incorporated, New York, N. Y. Lantern. Des. 73,885; Nov. 15.
- Wilson, Elihu C. (See Wilcox, Charles E., assignor.)
- Wilson, Elihu C., Los Angeles, Calif. Tool joint. 1,618,253; Feb. 22.
- Wilson, Elihu C., Los Angeles, Calif. Tool joint. 1,618,254; Feb. 22.
- Wilson, Elihu C., Los Angeles, Calif. Pipe-supporting clamp. 1,643,683; Sept. 27.
- Wilson, Ellis L., San Anselmo, Calif. Door hinge. 1,617,830; Feb. 15.
- Wilson, Everett C., et al. (See Sprague, Earl V., assignor.)
- Wilson, Everett L., Okemah, Okla. Shock absorber. 1,616,523; Feb. 8.
- Wilson, Ezekiel J., East Greenbush, assignor to F. C. Huyck & Sons, Rensselaer, N. Y. Fulling mill. 1,645,210; Oct. 11.
- Wilson Farm Tool Corporation. (See Wilson, Bingham T., assignor.)
- Wilson, Frank A., et al. (See Davis, William L., assignor.)
- Wilson, Fred D. (See Beatty, W. T., Davis, and Wilson.)
- Wilson, Fred D., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Road-surface resmoother. 1,637,208; July 26.
- Wilson, Frederick E., Buffalo, N. Y. Septic tank. 1,616,837; Feb. 8.
- Wilson, Frederick R., Canonsburg, assignor to Fort Pitt Bridge Works of Pittsburgh, Pittsburgh, Pa. Concrete reinforcement. 1,641,109; Aug. 30.
- Wilson, George A., Greenwood, Miss. Electrical generating apparatus for airplanes. 1,634,167; June 28.
- Wilson, George D., Berkeley, Calif., assignor to American Meter Company, Inc., New York, N. Y. Wrist-pin assembly for meter valves. 1,647,598; Nov. 1.
- Wilson, George F., and C. W. Leguillon, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Tire-trimming machine. 1,628,817; May 17.
- Wilson, George H., Louisville, Ky. Tobacco pipe. 1,643,231; Sept. 20.
- Wilson, George O., et al. (See Press, Gilberto N., assignor.)
- Wilson, George O., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Hand-raising device. 1,629,768; May 24.
- Wilson, George W., Alzona, Iowa. Liquid-circulating apparatus for internal-combustion motors. 1,622,557; Mar. 29.
- Wilson, H. A., Company, The. (See Fry, Clayton E., assignor.)
- Wilson, Harold F. (See Wilson, Albert V. and H. F.)
- Wilson, Harlan S., Hig Rock, Pa. Rescuing device for sunken ships. 1,623,143; Apr. 5.
- Wilson, Harvey B., Athens, Ill. Radiator guard. 1,631,846; June 7.
- Wilson, Henry W., Duluth, Minn. Rolling-mill housing. 1,616,761; Feb. 1.
- Wilson, Howard M., sr. (See Crumbaugh, H. M., and Wilson.)
- Wilson, Ira G., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical-disturbance-eliminating system. 1,645,174; Oct. 11.
- Wilson, J. G., Corporation, The. (See Dodge, Arthur H., assignor.)

- Wilson, J. G., Corporation, The. (See Duncanson, Walter E., assignor.)
- Wilson, J. G., Corporation, The. (See Winn, John F., Jr., assignor.)
- Wilson, Jack. (See Camp, P. B., and Wilson.)
- Wilson, Jack, Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism. 1,623,295; Apr. 5.
- Wilson, James H., Falls Creek, Pa., assignor to Jackson Vitrifid China Company, Falls Creek, Pa. Plate or similar article. Des. 73,591; Oct. 4.
- Wilson, James H., assignor to Jackson Vitrifid China Company, Inc., Falls Creek, Pa. Plate or similar article. Des. 73,813; Nov. 8.
- Wilson, James O., assignor of forty-nine per cent. to G. Brown, Sterling, Kans. Baby walker. 1,638,426; Aug. 9.
- Wilson, James P., Norfolk, Va. Motor-meter protector. 1,627,261; May 8.
- Wilson, James S., et al. (See Murphy, Robert N., assignor.)
- Wilson, John. (See Reynolds, J., and Wilson.)
- Wilson, John A., Elizabeth, N. J., assignor to Duratex Corporation, Newark, N. J. Upholstery panel and making the same. 1,643,400; Sept. 27.
- Wilson, John. (See Sal, J. W., and Wilson.)
- Wilson, John C., assignor to The Cutter-Hammer Mfg. Co., Milwaukee, Wis. Fluid meter. 1,614,702; Jan. 18.
- Wilson, John E., Macksville, Kans. Poultry roost. 1,613,633; Jan. 11.
- Wilson, John F., St. Louis, Mo. Cutter guard for dado woodworking machines. 1,632,258; June 14.
- Wilson, John H., Middlesex Township, Cumberland County, Pa. Wind-driven motor. 1,614,268; Jan. 11.
- Wilson, John H., Burkburnett, Tex. Power take-off for tractors. 1,644,765; Oct. 11.
- Wilson, John H., assignor of one-half to H. L. Smith and one-half to A. Dorman, Jr., Scottsbluff, Nebr. Internal-combustion engine. 1,624,454; Apr. 12.
- Wilson, John H., assignor, by mesne assignments, to J. T. Whitehead, Mitchell, Nebr. Windmill. 1,634,926; July 5.
- Wilson, John H., assignor to The Aluminum Cooking Utensil Co., New Kensington, Pa. Apparatus for cooking. 1,646,778; Oct. 25.
- Wilson, John M., San Diego, Calif. Tobacco pipe. 1,620,420; Mar. 8.
- Wilson, John M., Bronx, assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating compound. 1,638,557; Aug. 9.
- Wilson, John R., Cambridge, Md. Scow. 1,614,859; Jan. 18.
- Wilson, John W. (See Putnam, A. J., and Wilson.)
- Wilson-Jones Company. (See Neuman, George W., assignor.)
- Wilson, Joseph B., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Valve-operating mechanism. 1,634,764; July 5.
- Wilson, Josiah C., Richmond, Va. Eaves-trough hanger. 1,635,871; July 12.
- Wilson, Laura I., et al. (See Davis, William L., assignor.)
- Wilson, Lenore H. (See Wilson, Oscar, assignor.)
- Wilson, Melville E., Stayner, Ontario, Canada. Turbine windmill. 1,646,673; Oct. 25.
- Wilson, Oscar, assignor of one-half to L. H. Wilson, Santa Ana, Calif. Child's scooter. 1,646,606; Oct. 25.
- Wilson, Paul, et al. (See Hall, Randolph F., assignor.)
- Wilson, Peter M., Niagara Falls, N. Y. Eyewash bottle. 1,623,454; Apr. 5.
- Wilson, Ralph W., New York, N. Y., assignor to Theodore W. Foster & Bro. Company, Providence, R. I. Toilet box. 1,650,733; Nov. 29.
- Wilson, Ray O., Los Angeles, Calif. Adjustable golf club. 1,620,588; Mar. 8.
- Wilson, Ray O., and A. D. Sumner, Los Angeles, Calif. Forming flanges on can bodies. 1,622,555; Mar. 29.
- Wilson, Raymond C., Woodside, assignor to International Motor Company, New York, N. Y. Torque-cushioning device. 1,617,931; Feb. 15.
- Wilson, Reginald G. (See Stable, L. R. D., Wilson, Terry, and Hull.)
- Wilson, Robert, et al. (See Fénelon, Juan, assignor.)
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Tubular coupling. 1,614,815; Jan. 18.
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Threaded coupling. 1,629,058; May 17.
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Power wrench. 1,634,602; July 5.
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Automatic tubing catcher for wells. 1,642,136; Sept. 13.
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Automatic tubing catcher for wells. 1,642,835; Sept. 13.
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Box and pin coupling. 1,645,032; Oct. 11.
- Wilson, Robert E. (See Rogers, F. M., and Wilson.)
- Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Furnace for the treatment of spent fuller's earth. 1,630,044; May 24.
- Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Prevention of evaporation. 1,647,424; Nov. 1.
- Wilson, Robert E., Chicago, Ill., and W. H. Bahlke, assignors to Standard Oil Company, Whiting, Ind. Testing device. 1,632,259; June 14.
- Wilson, Robert E., Chicago, Ill., and H. V. Atwell, assignors to Standard Oil Company, Whiting, Ind. Coking hydrocarbon oils. 1,654,200; Dec. 27.
- Wilson, Robert E., Chicago, Ill., and H. V. Atwell, assignors to Standard Oil Company, Whiting, Ind. Apparatus for coking hydrocarbon oils. 1,654,201; Dec. 27.
- Wilson, Robert J., Rochester, assignor of one-half to R. S. Crain, Buffalo, N. Y. Rotary gang plow. 1,623,149; Apr. 5.
- Wilson, Robert M., Montclair, N. J., assignor to General Electric Company. Voltage regulation of exciters. 1,637,887; Aug. 2.
- Wilson, Robert N., Colegrove, Pa. Chain tightener. 1,628,019; May 10.
- Wilson, Samuel H., Glasgow, Scotland. Trough and splash guard for rotary polishing or abrading devices. 1,639,419; Aug. 16.
- Wilson, Sidney C., Pittsford, assignor to The Knab Corporation, Rochester, N. Y. Eaves-trough hanger. 1,639,916; Aug. 23.
- Wilson, Sidney C., assignor to W. F. Wolf, Rochester, N. Y. Flying toy. 1,644,362; Oct. 4.
- Wilson, Stanton D., St. Louis, Mo. Light shade or similar article. Des. 72,922; June 21.
- Wilson, Thomas & Manufacturing Company. (See Heidebreder, Herman H., assignor.)
- Wilson, Theodore R., Peshastin, Wash. Uniform-compression internal-combustion engine. 1,639,477; Aug. 16.
- Wilson, Thomas H., Brawley, Calif. Plant protector. 1,635,449; July 12.
- Wilson, Thomas R. C., Madison, Wis., assignor, by mesne assignments, to the People of the United States. Strap for use in bending wood to form parts of curved shape. 1,642,186; Sept. 13.
- Wilson, Valentine L., and A. Stergios, Papete, Tahiti, Society Islands. Tree guard. 1,654,028; Dec. 27.
- Wilson, Vance J., et al. (See Feland, Oscar A., assignor.)
- Wilson, Vernon M., Benkelman, Nebr. Clutch for spring motors. 1,645,289; Oct. 11.
- Wilson-Western Sporting Goods Company. (See Bates, Benjamin E., assignor.)
- Wilson-Western Sporting Goods Company. (See Turner, Archibald J., assignor.)
- Wilson, William, New York, N. Y. Life preserver. 1,620,421; Mar. 8.
- Wilson, William, Brooklyn, N. Y. Compressor apparatus. 1,654,692; June 28.
- Wilson, William C., assignor to The Quaker Oats Company, Chicago, Ill. Manufacture of furane. 1,636,030; July 19.
- Wilson, William E., Mason City, Iowa, and H. G. Lyken, Minneapolis, Minn. Single fire-box klin. 1,637,729; Mar. 10.
- Wilson, William H. (See Spencer, L. P., and Wilson.)
- Wilson, William H., assignor to Vermont Spool & Bobbin Company, Burlington, Vt. Carpet spool. 1,630,155; May 24.
- Wilson, William J., Southgate, and A. J. Carlton, Huntington Park, assignors to U. S. Tool Company, Long Beach, Calif. Rotary disk drill. 1,651,859; Dec. 6.
- Wilson, William W. (See Adams, Robert, assignor.)
- Wilson, William W., Los Angeles, Calif. Holsting tackle. 1,648,158; Nov. 8.
- Wilson, Wylie G., Elizabeth, N. J. Packing ring for valves. 1,613,072; Jan. 4.
- Wilson, Wylie G., Elizabeth, N. J. Lifting valve. 1,616,420; Feb. 1.
- Wilson, Wylie G., Elizabeth, N. J. Reciprocating valve. 1,616,672; Feb. 8.
- Wilson, Wylie G., Elizabeth, N. J. Gate valve. 1,645,755; Oct. 18.
- Wilson, Wylie G., Elizabeth, assignor to Everlasting Valve Company, Jersey City, N. J. Automatic shut-off device for gas in case of fire. 1,616,419; Feb. 1.
- Wilson, Wylie G., Elizabeth, N. J., assignor to Loose Seat Valve Company, Dover, Del. Lifting valve. 1,627,299; May 8.
- Wilson, Wylie G., Elizabeth, N. J., assignor to Loose Seat Valve Company, Dover, Del. Nonrevolvable valve. 1,633,690; June 28.
- Wilson, Wylie G., Jersey City, N. J. Valve. 1,654,516; Dec. 27.
- Wilson, Wylie G., Jersey City, N. J. Valve. 1,654,517; Dec. 27.
- Wilson, Wylie G., Jersey City, N. J., assignor to Loose Seat Valve Company. Apparatus for controlling the flow of fluid to a valve. 1,622,016; Mar. 22.
- Wilt, John J., Bakersfield, Calif. Vapor condenser. 1,628,210; May 10.
- Wiltse, William J., Lisbon, N. Dak. Milk-pail holder. 1,646,437; Oct. 25.
- Wiltse, Roy B., San Diego, Calif. Air heater. 1,650,920; Nov. 29.
- Wily, James H., Bethlehem, Pa. Toy firearm. 1,624,083; Apr. 12.
- Wizin, Jerome, et al. (See Stewart, Frank H., assignor.)

- Wimberger, Leopold, Vienna, Austria. Mercury-vapor rectifier. 1,652,921; Dec. 13.
- Wimberley, Harvey J., Austin, Tex. Cleaning plant. 1,650,478; Nov. 22.
- Wimmer, Joseph. (See Mugdan, M., and Wimmer.)
- Wimplex Heating Specialty Company Inc. (See Wiley, Edgar C., assignor.)
- Winnans, Milton E. (See Smily, W. E., Hannah, and Winaus.)
- Winch, Howard J., Shivrajpur, India. Variable gear. 1,649,050; Nov. 15.
- Winchell, George H., sr. (See Burrow, Frank V., assignor.)
- Winchell, Laurence J., Newkirk, Okla. Nail-driving tool. 1,644,409; Oct. 4.
- Winchester Repeating Arms Co. (See Blizard, Charles E., assignor.)
- Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)
- Winchester Repeating Arms Company. (See de Olaneta, Harold, assignor.)
- Winchester Repeating Arms Company. (See Folsy, George A., assignor.)
- Winchester Repeating Arms Company. (See Lamb, Charles P., assignor.)
- Winchester Repeating Arms Co. (See Lane, Leavitt J., assignor.)
- Winchester Repeating Arms Co. (See Tredwell, Charles A., assignor.)
- Winckel, Max, Berlin, Germany, assignor to H. G. Weicker, trustee, Montclair, N. J. Vitamine preparation. 1,624,154; Apr. 12.
- Winckler, Asge E., Milwaukee, Wis. Controller pedal for transmissions. 1,644,805; Oct. 11.
- Windberger, Eugene, Philadelphia, Pa. Air-cooling system for internal-combustion engines. 1,618,899; Feb. 22.
- Windecker, Arthur A., Oak Park, Ill. Writing pencil. 1,613,861; Jan. 11.
- Windell, George A. (See Shields, B. F., Cromble, and Windell.)
- Windell, Roy, Wilmington, Calif. Engine. 1,636,887; July 26.
- Winden, Engebricht A., Willmar, Minn. Radiator shutter. 1,616,245; Feb. 1.
- Winden, Engebricht A., Willmar, Minn. Manifold holder. 1,641,722; Sept. 6.
- Winder, Charles F., Hollywood, Calif., assignor to The Symphonica Co. Organ. 1,637,323; July 26.
- Winder, Samuel E., Chicago, Ill., and H. C. Daubenspeck, Massillon, Ohio. Flow feed for glass machines. 1,648,435; Nov. 8.
- Winders, William D., Columbus, Ohio. Loose-leaf binder. 1,636,268; July 19.
- Window Glass Machine Company. (See Caselman, E. J., Griffith, and Johnson, assignors.)
- Window Glass Machine Company. (See Clark, Henry F., assignor.)
- Window Glass Machine Company. (See Monroe, William L., assignor.)
- Windt, Rudolph T., St. Louis, Mo. Gas-burner-control mechanism. 1,625,010; Apr. 19.
- Wine Railway Appliance Co. (See Nelkirk, John O., assignor.)
- Wine, William E., Toledo, Ohio. Car-door-locking device. 1,617,429; Feb. 15.
- Wine, William E., Toledo, Ohio. Door mechanism for railway cars. 1,634,225; June 28.
- Wine, William E., Toledo, Ohio. Car-door mechanism. 1,646,003; Oct. 18.
- Wine, William E., Toledo, Ohio. Side bearing. 1,653,077; Dec. 20.
- Wine, William E., assignor to The Tractor Grip Wheel Company, Toledo, Ohio. Tractor wheel. 1,613,002; Jan. 4.
- Wine, William E., assignor to The Tractor Grip Wheel Company, Toledo, Ohio. Traction shoe. 1,634,639; July 5.
- Wineburgh, Henry H., assignor to Textile Electric Sign Co. Inc., New York, N. Y. Sign. 1,651,429; Dec. 6.
- Winell, Karl O. (See Pehrson, A. K., and Winell.)
- Winell, Karl O., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Articulated car. 1,621,917; Mar. 22.
- Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Valve mechanism. 1,635,146; July 5.
- Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Rock channeller. 1,648,096; Nov. 8.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Forging machine. 1,638,225; Aug. 9.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-unloading mechanism. 1,642,760; Sept. 20.
- Winesburg, William, Bristow, Okla. Oil and water well pump. 1,623,150; Apr. 5.
- Winfrey, George B., et al. (See Carter, S. W. and O. E., assignors.)
- Wing, Clarence G., Lakewood, Ohio, assignor to The Scott-Ullman Company, Cleveland, Ohio. Arm for lighting fixtures or similar articles. Des. 72,810; June 7.
- Wing, Clarence G., Lakewood, Ohio, assignor to The Scott-Ullman Company, Cleveland, Ohio. Lighting fixture. Des. 73,395; Aug. 30.
- Wing Clothes Peg Proprietary, Limited. (See Drew, Henry J. and J. A. H., and Gardiner, assignors.)
- Wingate, Rosier B., Fort Worth, Tex. Machine for vending bottled beverages. 1,638,792; Aug. 9.
- Wingard, William W., Wolcott, Ind. Laundry machine. 1,649,008; Nov. 15.
- Wingler Frank J., Detroit, Mich. Gas motor. 1,650,812; Nov. 29.
- Wingo, Carl W., et al. (See Pratt, Glenn, assignor.)
- Wingo, William W., Wilburton, Okla., assignor of fifty-one per cent to E. L. Terry, Brinkley, Ark. Signal device. 1,617,000; Feb. 8.
- Wingquist, Sven G., Gottenborg, Sweden. Hydraulic coupling and change-speed gear. 1,645,565; Oct. 18.
- Winkelmann, Louis, Hoboken, N. J. Vacuum tube. 1,650,921; Nov. 29.
- Winkelmann, Louis, Hoboken, N. J. Audio amplifier. 1,651,308; Nov. 29.
- Winkle, George J., Philadelphia, Pa., assignor to The Frederick Iron and Steel Company, Frederick, Md. Wearing ring for rotary elements. 1,639,279; Aug. 16.
- Winkler, Carl, Bern, Switzerland. Plate cylinder for rotary intaglio printing. 1,643,145; Sept. 20.
- Winkler, Carl, Bern, Switzerland. Rotary intaglio printing machine. 1,647,948; Nov. 1.
- Winkler, Charles, Newark, and W. H. Bittner, Glen Ridge, N. J.; said Bittner assignor to said Winkler. Stiffener for brief cases and the like. 1,622,017; Mar. 22.
- Winkler, Charles E., New York, N. Y. Stiletto. 1,631,175; June 7.
- Winkler, John, assignor of one-half to C. A. Billetdoux, Philadelphia, Pa. Permutation automobile wheel lock. 1,647,110; Oct. 25.
- Winkler, John F., Falmesville, Ohio, assignor to The Wooster Rubber Company. Inflatable toy. 1,635,969; July 12.
- Winkler, Joseph F., Philadelphia, Pa. Pressure electric switch. 1,647,949; Nov. 1.
- Winkler, Louis E., and E. C. Koch, Wichita, Kans. Process of and apparatus for refining petroleum and oil-field emulsions. 1,650,813; Nov. 29.
- Winkler, Louis G. (See Kelly, B. F., Miller, and Winkler.)
- Winkley, Erasmus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of heels for boots and shoes. 1,620,149; Mar. 8.
- Winkley, Erasmus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoe bottoms. 1,645,566; Oct. 18.
- Winkley, Erasmus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. 1,645,567; Oct. 18.
- Winkley, Erasmus E., Lynn, and H. A. Davenport, Brockton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,644,971; Oct. 11.
- Winlock, Joseph. (See Kelley, G. L., and Winlock.)
- Winn, Adelbert D., Toronto, Ontario, Canada. Combined tongue and shoe-lace fastener. 1,619,322; Mar. 1.
- Winn, James P., Sutton Coldfield, England. Device for protecting the human ears. 1,641,214; Sept. 6.
- Winn, John F., assignor to The J. G. Wilson Corporation. Control system for coiling doors. 1,649,797; Nov. 15.
- Winn, Sidney B., Lapeer, Mich. Tractor-trailer safety coupling device. 1,623,990; Apr. 12.
- Winn, Sidney B., Lapeer, Mich. Tractor trailer coupler. 1,631,847; June 7.
- Winnertz, Peter E., Penig, Germany. Manufacturing hollow bodies from pulp fiber. 1,621,147; Mar. 15.
- Winnett, Alfred H., Meridian, Tex. Cotton chopper. 1,623,898; Apr. 5.
- Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Horn button. 1,648,523; Nov. 8.
- Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Fastening handle knobs. 1,648,524; Nov. 8.
- Winogradoff, Alexander, New York, assignor to Improved Office Partition Co., Elmhurst, Long Island, N. Y. Fire-resistant fibrous material and producing the same. 1,645,172; Oct. 11.
- Winogradoff, Alexander, New York, assignor to Improved Office Partition Co., Elmhurst, Long Island, N. Y. Liquid mixture for use in treating combustible fibrous materials to render them fire resistant. 1,645,173; Oct. 11.
- Winsell, William R., Kansas City, Mo. Portable electric lamp. 1,648,709; Nov. 8.
- Winemius, Harry T. (See Roman, F. L., and Winemius.)
- Winship, Albert W., assignor to W. W. Winship & Sons, Inc., Utica, N. Y. Jobber's display trunk. 1,630,879; May 31.
- Winship, Bolt & Co. (See Hatfield, Percy W., assignor.)
- Winship, Emory. (See Marcus, Arthur I., assignor.)
- Winship, Emory. (See Rayburn, Alden G., assignor.)
- Winship, W. W. & Sons, Inc. (See Winship, Albert W., assignor.)
- Winslow, Arthur D., Wilmette, Ill. Flexible button. 1,618,398; Feb. 22.

- Winslow Boiler & Engineering Co. (See Tedman, Hudson A., assignor.)
- Winslow, Carmel. (See Rossell, Fred, assignor.)
- Winslow, Charles A., Vallejo, and E. J. Hall, Berkeley, Calif. Force-fed lubricating system for hydrocarbon engines. 1,638,281; Aug. 9.
- Winslow, Elbert R., Gibbon, Nebr. Moving-picture-machine attachment. 1,653,328; Dec. 20.
- Winslow, Frederick H., and B. Reader, Aledo, Tex. Hand tool. 1,642,569; Sept. 13.
- Winslow, Harry F., Brooklyn, N. Y. Grinding viscous materials. 1,627,211; May 10.
- Winslow, Marlon H., Terre Haute, Ind. Preventing sag and protecting bearings of platform weighing scales. 1,639,829; Aug. 23.
- Winslow Safety High Pressure Boiler Company. (See Brown, K. C., and White, assignors.)
- Winslow Safety High Pressure Boiler Company. (See Winslow, William H., assignor.)
- Winslow, Samuel E., Leicester, Mass. Skate. 1,646,843; Oct. 25.
- Winslow, Samuel E., Leicester, Mass. Skate. 1,646,844; Oct. 25.
- Winslow, William H., South Haven, assignor to Winslow Safety High Pressure Boiler Company, Chicago, Ill. Maintaining metals in a liquid condition and at a predetermined temperature. 1,651,937; Dec. 6.
- Winsor, Irwin B., Tulsa, Okla. Method of and apparatus for pumping wells. 1,637,629; Aug. 2.
- Winsor, Irwin B., Los Angeles, Calif., assignor to Singer Pump Company. Deep-well pump. 1,621,046; Mar. 15.
- Winsor, Roy J., Bucyrus, Ohio. Leaning wheel. 1,633,151; June 21.
- Winsor, William G., Jr., Pawtucket, R. I. Chute-closing gate device. 1,649,941; Nov. 22.
- Winston, Marvin T. (See Payson, Edward B., assignor.)
- Winter, August P., assignor by mesne assignments, to S. C. Clow, Minneapolis, Minn. Elevator driving mechanism. 1,638,975; Dec. 27.
- Winter, Courtney P. (See Rosenthal, D. A., and Winter.)
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulating apparatus. 1,620,504; Mar. 8.
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulating apparatus. 1,622,620; Mar. 29.
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Relay. 1,653,078; Dec. 20.
- Winter, Helen L., Montgomery, Ala. Form-supporting undergarment. 1,616,018; Mar. 14.
- Winter, Henry, Buffalo, N. Y. Bottle. Des. 73,629; Oct. 11.
- Winter, Herbert G., Pittsburgh, Pa. Trolley-wheel retainer. 1,640,304; Aug. 23.
- Winter, Jess V., La Crosse, Wis. Decoy duck. 1,641,215; Sept. 6.
- Winter, John R., assignor to Motor Wheel Corporation, Lansing, Mich. Vehicle wheel. 1,640,523; Aug. 30.
- Winter, John R., assignor to Youngstown Pressed Steel Company, Warren, Ohio. Forming metal. 1,651,111; Aug. 29.
- Winter, Norbert V., Los Angeles, Calif. Toy couch. Des. 73,814; Nov. 8.
- Winter, Paul, Zurich, assignor to Aluminium Welding Works, Ltd., Schlieren, Switzerland. Sheet-metal cutter. 1,624,853; Apr. 22.
- Winter, Walter, Tulsa, Okla. Corner guide for bricklaying. 1,644,456; Oct. 4.
- Winterbottom, William G., sr., et al. (See Winterling, William E., assignor.)
- Winterer, Frank J., Philadelphia, Pa. Load lifter. 1,628,212; May 10.
- Winterhoff, Herman E., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Musical bar. 1,632,751; June 14.
- Winterling, William F., Cambridge, Md., assignor of one-fifth to W. G. Winterbottom, sr., one-fifth to L. B. Phillips, sr., one-fifth to A. Phillips, sr., and one-fifth to C. Janney. Time switch for parking lamps. 1,626,319; Apr. 26.
- Winters, Alexander F., and B. R. Crampton, Grand Rapids, Mich. Reversible latch. 1,646,075; Oct. 18.
- Winters, Alexander F., and B. R. Crampton, Grand Rapids, Mich. Hinge. 1,648,249; Nov. 8.
- Winters, Alexander F., and B. R. Crampton, Grand Rapids, Mich. Latch. 1,648,289; Nov. 8.
- Winters, Bird L. (See Winters, Robert E., assignor.)
- Winters, Charles D., Asbury Park, assignor of one-half to C. G. Stockton, Ocean Grove, N. J. Advertising display sign. 1,621,006; Mar. 15.
- Winters, Edgar W., assignor to The Non-Spl Company, Kansas City, Mo. Mailing carton. 1,625,756; Apr. 19.
- Winters, Edwin C., Detroit, Mich. Vehicle wheel. 1,632,527; June 14.
- Winters, Frederick V., New York, N. Y. Vacuum-creating instrument. 1,619,388; Mar. 1.
- Winters, Frederick V., New York, N. Y. Vacuum-creating instrument. 1,619,389; Mar. 1.
- Winters, Frederick V., New York, N. Y. Vacuum-creating instrument. 1,638,383; Aug. 9.
- Winters, Frederick V., New York, N. Y. Vacuum-creating device. 1,638,384; Aug. 9.
- Winters, Frederick V., New York, N. Y. Vacuum-creating device. 1,638,465; Aug. 9.
- Winters, Robert E., Cleveland, Ohio, assignor to B. L. Winters, Sewickley, Pa. Friction-speed-changing mechanism. 1,645,270; Oct. 11.
- Winterton, Arthur H. (See Johnson, E. H., and Winterton.)
- Winthrop Chemical Company. (See Günzler, H., and Wesenberg, assignors.)
- Winthrop Chemical Company. (See Hahl, Hans, assignor.)
- Winthrop Chemical Company. (See Kayser, F., and Schranz, assignors.)
- Winthrop Chemical Company. (See Leuchs, Friedrich, assignor.)
- Winthrop Chemical Company. (See Lieske, R., and Bonrath, assignors.)
- Winthrop Chemical Company. (See Lieske, R., Schlemm, and Bonrath, assignors.)
- Winthrop Chemical Company. (See Lieske, R., Thaus, and Bonrath, assignors.)
- Winthrop Chemical Company. (See Schranz, K., and Lutter, assignors.)
- Winthrop Chemical Company. (See Weyland, Hermann, assignor.)
- Winton, John R., assignor to Mechanical Appliance Company, Chicago, Ill. Water-line trap. 1,646,513; Oct. 25.
- Winton, John R., assignor to Mechanical Appliance Company, Chicago, Ill. Water-line trap. 1,646,514; Oct. 25.
- Wintrop, Jacob M., Philadelphia, Pa. Electric iron. 1,631,779; June 7.
- Winzenburg, Wilhelm, Kragenhof, near Kassel, and F. Nodder, Kassel, Germany. Reflector lamp for diaprojection for cinematography. 1,629,192; May 17.
- Wiperman, Paul W., Decatur, Ill. Book rack. 1,629,941; May 24.
- Wirebounds Patents Company. (See Steele, Roscoe, assignor.)
- Wirebounds Patents Company. (See Westin, Charles J., assignor.)
- Wired Radio, Inc. (See Crossley, Alfred, assignor.)
- Wired Radio, Inc. (See Culver, Charles A., assignor.)
- Wired Radio, Inc. (See Duncan, Robert D., jr., assignor.)
- Wired Radio, Inc. (See Hough, Clinton W., assignor.)
- Wired Radio, Inc. (See Hund, August, assignor.)
- Wired Radio, Inc. (See Meyer, Raymond B., assignor.)
- Wired Radio, Inc. (See Nicolson, Alexander M., assignor.)
- Wired Radio, Inc. (See Powell, Edwin L., assignor.)
- Wired Radio, Inc. (See Salmon, George C., assignor.)
- Wired Radio, Inc. (See Steinberger, L., and Hill, assignors.)
- Wired Radio, Inc. (See Taylor, Albert H., assignor.)
- Wired Radio, Inc. (See Taylor, A. H., and Young, assignors.)
- Wired Radio, Inc. (See Troger, Arthur M., assignor.)
- Wireless Radio Corporation. (See Lillenthal, George W., assignor.)
- Wireless Special Apparatus Company. (See Priess, William H., assignor.)
- Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
- Wireless Specialty Apparatus Company. (See Priess, William H., assignor.)
- Wireless Specialty Apparatus Company. (See Proctor, John A., assignor.)
- Wirenold Company, The. (See Frederickson, Otto A., assignor.)
- Wirrer, Gottfried, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Apparatus for vaporizing hydrocarbon mixtures. 1,619,050; Mar. 1.
- Wirrer, Gottfried, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Separator and vaporizer for internal-combustion engines. 1,629,555; May 24.
- Wirrer, Gottfried, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Apparatus for vaporizing hydrocarbon fuel. 1,631,176; June 7.
- Wirrer, Gottfried, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Final drive for vehicles. 1,631,996; June 14.
- Wirrer, Gottfried, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Grinding wheel and method of grinding. 1,642,708; Sept. 20.
- Wirrer, Gottfried, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Vaporizer-temperature control. 1,646,779; Oct. 25.
- Wirsching, Erhard. (See Kolmer, W., and Wirsching.)
- Wirt, C. G. May. (See Ermold, Elmer A., assignor.)
- Wirt & Knox Mfg. Co. (See Parker, Charles R., assignor.)
- Wirth, Archie, Sutton, N. Dak. Adjustable pitman for movers, binders, and the like. 1,618,320; Feb. 22.
- Wirth, Elias, assignor to Sulzer Frères Société Anonyme, Winterthur, Switzerland. Absorption refrigerating machine. 1,627,071; May 3.
- Wirth, Elias, assignor to Sulzer Frères Société Anonyme, Winterthur, Switzerland. Absorption refrigerator. 1,630,648; May 31.
- Wirth, Heinrich, assignor to the Firm J. A. Maffei, Munich, Germany. Locomotive. 1,634,526; July 5.
- Wirth, Marcell J., Detroit, Mich. Pipe bench. 1,613,495; Jan. 4.

- Wirtz, Franklin H. (See Shaffer, G. A., and Wirtz.)
 Wirz, A. H., Inc. (See Barker, Edwin H., assignor.)
 Wirz, Ernst, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Automatic regulating apparatus for electric furnaces. 1,645,048; Oct. 18.
 Wisby, Marius J. (See Ritter, J. Jr., and Wisby.)
 Wisconsin Electric Company. (See Beach, Chester H., assignor.)
 Wisconsin Trust Company of Milwaukee, executor. (See Miller, Henry C.)
 Wise, Charles H., New Lexington, Ohio. Pipe clamp. 1,616,019; Feb. 1.
 Wise, Frank J., Taft, Calif. Wear-preventing means for pumps. 1,647,425; Nov. 1.
 Wise, George A., assignor to Sutton-Abramsen Engineering Company, Pittsburgh, Pa. Straightening machine. 1,629,759; May 24.
 Wise, George A., assignor to Sutton-Abramsen Engineering Company, Pittsburgh, Pa. Leveling apparatus for metallic sheets and the like. 1,645,637; Oct. 18.
 Wise, George A., assignor to Sutton-Abramsen Engineering Company, Pittsburgh, Pa. Straightening roll. 1,649,204; Nov. 15.
 Wise, J. B., Incorporated. (See Vallier, Orris W., assignor.)
 Wise, John S., Jr., New York, N. Y. Ash receptacle. 1,639,760; Aug. 23.
 Wise, Karl M., assignor to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,640,634; Aug. 30.
 Wise, Roger M., Oakland, assignor to E. T. Cunningham, San Francisco, Calif. Neutralizing system. 1,617,733; Feb. 15.
 Wise, Roger M., Oakland, and E. G. Danielson, assignors to E. T. Cunningham, San Francisco, Calif. Variable condenser. 1,618,399; Feb. 22.
 Wise, Solomon, Cincinnati, Ohio. Display stand. Des. 73,017; July 5.
 Wiseman, Earl H., Cleveland, assignor to W. M. Scott, Lakewood, Ohio. Connector. 1,647,762; Nov. 1.
 Wiseman, Mark A. (See White, A. S., and Wiseman.)
 Wisner, Oba, El Paso, Tex. Selection of minerals from crude ores. 1,636,974; July 26.
 Wish, William E., Edgeware, England. Road-vehicle lamp. 1,626,901; May 3.
 Wishart, Harold W. (See Alexander, R. L., and Wishart.)
 Wishart, Harold W., Hollywood, Calif., and W. Wishart, Clinton, Iowa, assignors to Climax Engineering Co. Rotary-compressor refrigerating machine. 1,633,056; June 21.
 Wishart, William. (See Alexander, R. L., Wishart, and Waters.)
 Wishart, William. (See Wishart, Harold W. and W.)
 Wishart, William, assignor to Climax Engineering Company, Clinton, Iowa. Compressor discharge valve. 1,636,888; July 26.
 Wishart, William, assignor to Climax Engineering Company, Clinton, Iowa. Stuffing box. 1,643,971; Oct. 4.
 Wisniewski, Leo B., Brooklyn, assignor to F. M. Heyman, New York, N. Y. Demountable rim. 1,623,372; Apr. 5.
 Wismar, Albert D., Bowling Green, assignor to Pelican Toy Company, Toledo, Ohio. Toy balloon novelty. Des. 73,630; Oct. 11.
 Wismer, Samuel H., Palmyra, and J. H. Thaidigsman, Delanco, N. J., assignors to Victor Talking Machine Company. Case or box. 1,622,818; Mar. 29.
 Wisner, Charles E. (See Arnold, Philip S., assignor.)
 Wisniewski, Vincent, Berlin, Germany. Electric motor. 1,635,372; July 12.
 Wisroth, Ernst, Los Angeles, Calif. Paste-dispensing device. 1,613,368; Jan. 4.
 Wisroth, Ernst, and A. J. Hirschfeld, Los Angeles, Calif. Automobile parking device. 1,619,555; Mar. 1.
 Wiss, Ernst, Griesheim-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Decorticating device. 1,613,149; Jan. 4.
 Wissing, Jakob. (See Schille, Andreas, assignor.)
 Wissinger, Fred. (See Kernats, Gustav, assignor.)
 Wissler, Rolando, Salt Lake City, Utah, assignor to Wissler Rotary Wedge Pump Company. Rotary pump. 1,651,336; Nov. 29.
 Wissler, Rolando, assignor to Wissler Rotary Wedge Pump Company. (See Wissler, Rolando, assignor.)
 Wisswell, Arthur M., Portland, Ore. Transmission lock. 1,643,480; Sept. 27.
 Wiswell, Ozo N., Los Angeles, Calif., assignor to Swingspout Measure Co. Swingspout pouring device. 1,618,620; Feb. 22.
 Wiswell, Perry O., Waco, Tex. Valve-spring lifter. 1,648,097; Nov. 8.
 Witbeck, Desford, assignor to George V. Steffens Company, St. Louis, Mo. Motor-car trunk. 1,644,806; Oct. 11.
 Witberger, Eugene J., assignor to Lufkin Rule Co., Saginaw, Mich. Case for a tape measure. Des. 72,040; Feb. 15.
 Witberger, Eugene J., assignor to Lufkin Rule Co., Saginaw, Mich. Tape reel. 1,638,226; Aug. 9.
 Witberger, Eugene J., assignor to Lufkin Rule Co., Saginaw, Mich. Case for tape measures. 1,638,227; Aug. 9.
 Withall, Albert P., assignor to W. H., Miner, Inc., Chicago, Ill. Shock-absorbing mechanism. 1,627,367; May 3.
 Witham, George S., Jr., Hudson Falls, N. Y. Foudrinier machine and process of paper making. 1,629,607; May 24.
 Witham, George S., Jr., Hudson Falls, N. Y. Beater. 1,639,917; Aug. 23.
 Witham, George S., Jr., Hudson Falls, N. Y. Moisture controlling device. 1,646,515; Oct. 25.
 Witham, George S., Jr., Hudson Falls, N. Y. Moisture measuring and recording apparatus. 1,646,516; Oct. 25.
 Witherby, Pauline E., guardian. (See Blankenhorn, George W.)
 Witherow, Harry M., Lynn, Mass., assignor to General Electric Company. Induction motor. 1,620,505; Mar. 8.
 Witherow Steel Company. (See Witherow, William P., assignor.)
 Witherow, William P., Pittsburgh, assignor to Witherow Steel Company, Neville Island, Pittsburgh, Pa. Knife blank and making the same. 1,618,791; Feb. 22.
 Withers, Frank P., assignor to Line Material Company, South Milwaukee, Wis. Electrical appliance. 1,652,191; Dec. 13.
 Witherwax, Marcelus, et al. (See Schiffner, Joseph A., assignor.)
 Withrow, Floyd G., Grand Rapids, Mich. Spring oiler. 1,620,150; Mar. 8.
 Withrow, Floyd G., Grand Rapids, Mich. Carburetor-choke-valve spring. 1,627,220; May 3.
 Withrow, Robert A. (See Walthall, Clarence H., assignor.)
 Withycombe, Robert M., Sydney, New South Wales, Australia. Toothbrush. Re16,802; Nov. 29.
 Withycombe, Robert M., Sydney, New South Wales, Australia. Bath spray brush. 1,630,995; May 31.
 Withycombe, Robert M., Sydney, New South Wales, Australia. Withdrawing small quantities of medicaments from receptacles or containers and applying them to the body. 1,632,686; June 14.
 Withycombe, Robert M., Sydney, New South Wales, Australia. Nail brush. 1,647,068; Oct. 25.
 Witkowski, Rudolph, Beatrice, Nebr. Grease retainer. 1,623,059; May 17.
 Witkowski, Robert J., Albion, N. Y. Battery connector. 1,645,033; Oct. 11.
 Witkowski, Walter, Brooklyn, N. Y. Camp stool. 1,619,686; Mar. 1.
 Witmyer, Harry M., assignor of one-third to J. H. Nissley and one-third to H. E. Trout, Manheim, Pa. Artificial limb. 1,649,772; Nov. 15.
 Witry, Louis W., assignor to John Deere Tractor Company, Waterloo, Iowa. Detachable rim for tractor wheels. 1,616,729; Feb. 8.
 Witt, Birdie V., Pasadena, and C. O. Nelson, Chicago, Ill. Orchard heater. 1,645,877; Oct. 19.
 Witt, John J., assignor to Speedspeed Machine Company, Winchendon, Mass. Molding cutter. 1,635,732; July 12.
 Witt, Roy M., Tampa, Fla. Tube. 1,630,555; May 31.
 Wittoef, Edward, St. Louis, Mo. Harvest hat. Des. 73,133; Sept. 13.
 Wittoef, Edward, St. Louis, Mo. Straw hat and making same. 1,641,310; Sept. 6.
 Wittoef, Edward, assignor to Superior Hat Company, St. Louis, Mo. Harvest hat. 1,636,889; July 26.
 Witte, Gustav W. (See Sperry, H. B., and Witte.)
 Witte, Gustav W., Chicago, Ill., assignor to International Harvester Company. Floating elevator for harvesters. 1,624,703; Apr. 12.
 Witte, Henry, assignor to Guerin-Pouyat-Elite, Ltd., New York, N. Y. Covered dish. Des. 72,050; Feb. 15.
 Witte, John, Ferguson, Mo. Gear-shift lock. 1,646,076; July 13.
 Witte, John, Ferguson, Mo. Gear-shift-lever lock. 1,646,077; Oct. 18.
 Witte, William, Providence, R. I., assignor to The United States Finishing Company, New York, N. Y. Finishing fabrics and to the fabric and composition. 1,633,152; June 21.
 Wittek, Hermann, Itzehoe-Sude, Holstein, Germany, assignor to P. Stock, Elkhart, Ind. Combination scaffold and stepladder. 1,638,085; July 19.
 Wittek Manufacturing Co. (See Tetzlaff, Benjamin A., assignor.)
 Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film and reel therefor. 1,623,514; Apr. 5.
 Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Reel-holding structure for projectors. 1,641,405; Sept. 6.
 Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motor-disconnecting means. 1,645,877; Oct. 18.
 Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Cut-film adapter for cameras. 1,645,829; Nov. 8.
 Wittemann, Harvey A., Seattle, Wash. Rotary pump. 1,640,169; Aug. 23.
 Wittemann, John, Milwaukee, Wis. Window-curtain hanger. 1,646,893; Oct. 25.
 Wittemer, Hans, Berlin, Germany. Filter for purifying the air. 1,632,813; June 21.
 Witten, Arthur P., Akron, Ohio. Toy figure. Des. 73,592; Oct. 4.

- Witten, Arthur P., assignor to The Western Reserve Rubber Company, Akron, Ohio. Toy figure. Des. 73,593; Oct. 4.
- Wittenberg, Frank, jr., Little Rock, Ark. Chart. 1,630,916; May 31.
- Wittenberg, Robert, Breslau, Germany. Fastening device. 1,639,392; Aug. 16.
- Witter, Leon A., Lakewood, Ohio. Fuel-feed-control mechanism. 1,636,583; July 19.
- Wittig, Wilhelm, Halbeson-the-Saale, and P. Nehring, Braunschweig, Germany. Recovering lead chloride. 1,647,426; Nov. 1.
- Witter, Willis D. (See Erwin, O. R., and Witter.)
- Wittgenstein, Gérard F., Zurich, Switzerland. Wireless apparatus. 1,625,234; Apr. 19.
- Wittig, Theodore H., Cleveland, Ohio. Furniture construction. 1,651,430; Dec. 6.
- Wittlinger, Richard, Goppingen, Germany. Making household articles. 1,638,902; Aug. 16.
- Wittmer, Russell J. (See Anliker, F., and Wittmer.)
- Wittmer, Russell J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Transition device for car couplers. 1,652,263; Dec. 13.
- Witwer, Charles S., Yonkers, N. Y. Hose clamp. 1,619,841; Mar. 8.
- Witz, Albert, Philadelphia, Pa. Wearing apparel. 1,628,213; May 10.
- Wohl, Henry E., Highland Baden, Germany, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Pulverizer. 1,621,571; Mar. 22.
- Wobermin, Theodore H., Whittier, Calif. Well swab. 1,651,497; Dec. 6.
- Wochner, Henry, Rock Island, Ill. Axle gauge for automobiles. 1,642,243; Sept. 3.
- Wodke, Otto, assignor of one-half to the Firm Actien Gesellschaft "Neptun" Schiffswerft und Maschinenfabrik, Rostock, Germany. Seed dispenser. 1,619,887; Mar. 1.
- Woelfel, Charles S., assignor of one-third to J. P. Smith and one-third to O. J. Ringle, Cleveland, Ohio. Vehicle suspension spring. 1,654,302; Dec. 27.
- Woerner, William H., Omaha, Nebr. Making floral-design frames. 1,617,188; Feb. 8.
- Woernley, Harry F., Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Interlock mechanism. 1,615,429; Jan. 25.
- Woernley, Harry F., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic car coupler. 1,622,479; Mar. 29.
- Woernley, Harry F., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Coupler adapter. 1,653,140; Dec. 20.
- Wohl, M. J., & Co. Inc. (See Wohl, Maurice J., assignor.)
- Wohl, M. J., & Co., Inc. (See Wohl, M. J., and Mayer, assignors.)
- Wohl, Maurice J., New York, assignor to M. J. Wohl & Co. Inc., Long Island City, N. Y. Focussing arc lamp. 1,613,003; Jan. 4.
- Wohl, Maurice J., Long Island City, and M. Mayer, New York, assignor to M. J. Wohl & Co. Inc., Long Island City, N. Y. Connection plug. 1,629,086; May 17.
- Wohl, Paul J., Frankfort-on-the-Main, Germany. Treatment of gut. 1,623,868; Apr. 6.
- Wohler, Lothar, Darmstadt, Germany. Testing of detonators. 1,615,606; Jan. 25.
- Woblers, Friedrich H. N. (See Koch, H., and Woblers.)
- Wohlgenuth, Hugo, New York, N. Y. Sanitary overall. 1,652,750; Dec. 13.
- Wohlrahe, assignor to the Firm, Vogtlandische Maschinenfabrik (vorm. J. C. & H. Dietrich), A.-G., Plauen, Germany. Multicolor rotary offset-printing press. 1,635,299; July 12.
- Woislawsky, Sigmund, Chicago, Ill. Reversible coat. 1,648,250; Nov. 8.
- Wojciechowski, Frank M., North Attleboro, Mass. Vanity case. Des. 72,400; Apr. 5.
- Wojciechowski, Frank M., North Attleboro, assignor to Marathon Company, Attleboro, Mass. Vanity case and the like. 1,643,278; Sept. 20.
- Wojcik, Frank J., Lowell, Ariz. Foot shield. 1,626,489; Feb. 26.
- Wolbert, Edwy E., Concrete, Wash. Gate. 1,645,365; Oct. 11.
- Wolcott, Edson R., Los Angeles, Calif., assignor to The Texas Company, New York, N. Y. Manufacture of aluminum chloride. 1,617,696; Feb. 15.
- Wolcott, Edson R., Los Angeles, Calif. Apparatus for pumping liquids. 1,628,943; May 17.
- Wolcott, Edson R., Los Angeles, Calif. assignor, by mesne assignments, to The Texas Company, New York, N. Y. Aluminum-chloride production. 1,653,836; June 28.
- Wolcott, Edson R., Los Angeles, Calif. assignor, by mesne assignments, to The Texas Company, New York, N. Y. Collecting and utilizing aluminum chloride. 1,647,440; Nov. 1.
- Wolcott, Edson R., Port Arthur, Tex. Burner for heavy hydrocarbons. 1,630,401; May 31.
- Wolcott, Frank E., Manufacturing Company, The. (See Wolcott, Frank E., assignor.)
- Wolcott, Frank E., West Hartford, assignor to The Frank E. Wolcott Manufacturing Company, Hartford, Conn. Electric tonster. 1,617,558; Feb. 15.
- Wolcott, Frank E., West Hartford, assignor to The Frank E. Wolcott Manufacturing Company, Hartford, Conn. Electric toaster. 1,617,559; Feb. 15.
- Wolcott, Robeson B., assignor of one-half to F. L. Sessions, Lakewood, Ohio. Electric flash light. 1,649,882; Nov. 22.
- Wold, Carl O., Minneapolis, Minn. Cutting section for road-scrape blades. 1,633,057; June 21.
- Wold, Knute. (See Erickson, Albert O., assignor.)
- Wold, Peter L., Schenectady, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave telegraphy. 1,652,549; Dec. 13.
- Wolfe, William C., Battle Lake, Minn. Chimney cleaner. 1,615,733; Jan. 25.
- Wolf, Albert, et al. (See Wolf, Howard A., assignor.)
- Wolf, Albert, Canton Ohio. Bolt board. 1,621,860; Mar. 22.
- Wolf, Benjamin, et al. (See Wolf, Howard A., assignor.)
- Wolf, Charles, assignor to Yates-American Machine Company, Beloit, Wis. Cutter head. 1,629,780; May 24.
- Wolf, Charles D., Paris, Ill. Combined ironing board and step ladder. 1,632,721; June 14.
- Wolf, Clarence, et al. (See Wolf, Howard A., assignor.)
- Wolf Co., The. (See Keefer, Walter L., assignor.)
- Wolf Company, The. (See Fritta, Henry A., assignor.)
- Wolf Company, The. (See Stoner, Charles M., assignor.)
- Wolf, Daniel A., Gtbsburg, Ohio. Toilet seat and cover. 1,616,020; Feb. 1.
- Wolf, Davis L., Olney, Tex. Motor-vehicle power attachment. 1,629,566; May 24.
- Wolf, Edwin, et al. (See Wolf, Howard A., assignor.)
- Wolf, Elmer E. (See Osgood, L. A., and Wolf.)
- Wolf, Evert E., Delphi, Ind. Colter. 1,651,938; Dec. 6.
- Wolf, Ezekiel. (See Fay, R. D., and Wolf.)
- Wolf, Ezekiel, assignor, by mesne assignments, to H. V. Hayes, trustee, Boston, Mass. Determining the error in watches, clocks, and other devices. 1,628,214; May 10.
- Wolf, F. C., et al., trustees. (See Cutler, William C., assignor.)
- Wolf, Frank, New York, N. Y. Collar fastener. 1,619,390; Apr. 19.
- Wolf, Frank, New York, N. Y. Holder for shaving-cream tubes, tooth-paste tubes, and the like. 1,626,771; May 3.
- Wolf, Frank, New York, N. Y. Sample-display device. 1,644,318; Oct. 4.
- Wolf, Frank J., Los Angeles, Calif. Milk-bottle filler. 1,645,005; Oct. 11.
- Wolf, Franz, New York, N. Y. Fastener. 1,633,966; June 28.
- Wolf, Georg, assignor to the Firm Georg Wolf G. m. b. H., Berlin, Germany. Device for examining tubes and cavities in the body. 1,643,732; Sept. 27.
- Wolf, Georg, assignor to the Firm of Georg Wolf G. m. b. H., Berlin, Germany. Illuminating device for medical purposes. 1,650,563; Nov. 22.
- Wolf, Georg, G. m. b. H. (See Wolf, Georg, assignor.)
- Wolf, Georg, G. m. b. H. (See Loock, Gunther, assignor.)
- Wolf, Hans H., Denver, Colo. Vehicle-operated garage door. 1,613,973; Jan. 11.
- Wolf, Harry G. (See Keefer, Walter L., assignor.)
- Wolf, Howard A., Elkins Park, assignor to E. Wolf, B. Wolf, C. Wolf, L. Wolf, and A. Wolf, Philadelphia, Pa. Carpenters trading as Wolf Brothers. Envelope. 1,629,862; May 24.
- Wolf, Ira, Elm Creek, Nebr. Windmill. 1,640,262; Aug. 23.
- Wolf, Isiah W., Mobile, Ala. Screen fastener. 1,636,728; July 26.
- Wolf, Jacob, Princeton, Mich. Thrashing machine. 1,651,498; Dec. 6.
- Wolf, Joseph A. (See Coffin, C. G., and Wolf.)
- Wolf, Louis, et al. (See Wolf, Howard A., assignor.)
- Wolf, Louis & Co. Inc. (See Du Bois, Harry D., assignor.)
- Wolf Machine Company, The. (See Meyer, Henry A., assignor.)
- Wolf-Marjanski, John, New York, N. Y. Musical transformation chart. 1,630,246; May 24.
- Wolf, Nat. (See Partin, Sammie D., assignor.)
- Wolf Safety Lamp Co. of America, Inc. (See Anglada, Domergue.)
- Wolf, Walter F. (See Wilson, Sidney C., assignor.)
- Wolf, William, New York, N. Y. Syringe for hypodermic needles or the like. 1,643,531; Sept. 27.
- Wolfeard, Merl R., Cambridge, Mass., assignor to Hopeward, C. Others as a Partnership) Watertown, Mass. Thermostatic control for carburetors. 1,627,947; May 10.
- Wolfe, Arthur H., West Philadelphia, Pa., and D. A. Wolfe, Grand Rapids, Mich. Article container. 1,625,011; Apr. 19.
- Wolfe, Charles A., Lebanon, Pa. Tire. 1,616,293; Feb. 1.
- Wolfe, Clinton L., and J. A. Fauret, New York, N. Y. Foot-actuated switch. 1,625,068; Apr. 19.
- Wolfe, Dell H., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Method and apparatus for grooving and hanging tug rims. 1,628,568; May 10.
- Wolfe, Durward W. (See Wolfe, Arthur H. and D. A.)
- Wolfe, Henry K., assignor to Rotary Rod Weeder & Mfg. Co., Incorporated, Cheney, Wash. Reversible bearing sleeve. 1,618,470; Feb. 8.
- Wolfe, Improved Rotary Rod Weeder. (See Bergloff, Andrew E., assignor.)

- Wolfe, Jay A., assignor to The Columbus Heating and Ventilating Company, Columbus, Ohio. Heating and ventilating apparatus. 1,626,172; Apr. 26.
- Wolfe, John A., et al. (See Haubert, Leo, assignor.)
- Wolfe, Noble A. (See Jones, B. W., and Wolfe.)
- Wolfe, Richard, Kenilworth, Ill. Golf stance-steadying device. 1,636,086; July 19.
- Wolfe, Wallace V., Corona, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,624,646; Apr. 12.
- Wolfe, William C., Richmond, Ind. Tamping tool. Re16,775; Oct. 18.
- Wolfe, William D. (See Kelley, H. W., and Wolfe.)
- Wolfe, William S. (See Kilbourn, K. B., and Wolfe.)
- Wolff, Curt, New York, N. Y. Ornamental shoe and ornamenting same. 1,617,430; Feb. 15.
- Wolters, Henry L., Roxbury, Mass. Illuminated cross. 1,614,743; Jan. 18.
- Wolff, Frank W., Parnassus, Pa. assignor to Union Metal Products Company, Chicago, Ill. Device for operating car couplers. 1,650,734; Nov. 29.
- Wolff, Fred G., assignor to American Car and Foundry Company, New York, N. Y. Brake-beam support. 1,649,434; Nov. 15.
- Wolff, Friedrich, Berlin, Germany. Safety device for gas and air making plants. 1,617,296; Feb. 8.
- Wolff, Hugo. (See Lüttringhaus, A., Neresheimer, and Wolff.)
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 71,894; Jan. 18.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 71,895; Jan. 18.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Phonograph cabinet. Des. 71,896; Jan. 18.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 72,122; Mar. 1.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 72,123; Mar. 1.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 72,124; Mar. 1.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 72,201; Mar. 8.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 72,504; Apr. 19.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Phonograph cabinet. Des. 73,273; Aug. 10.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 74,088; Dec. 13.
- Wolff, Joseph, Brooklyn, N. Y., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Spring motor. 1,616,731; Feb. 8.
- Wolff, Joseph, Brooklyn, N. Y., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Needle retainer for phonographs. 1,616,732; Feb. 8.
- Wolff, Joseph, Brooklyn, N. Y., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Needle rest. 1,634,702; July 5.
- Wolff, Joseph, Brooklyn, N. Y., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Needle receptacle. 1,634,703; July 5.
- Wolff, Joseph, Brooklyn, N. Y., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Concealed loud speaker for radio receiving sets. 1,653,795; Dec. 27.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radio apparatus. 1,653,796; Dec. 27.
- Wolff, Joseph, New York, N. Y., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Talking machine. 1,616,730; Feb. 8.
- Wolff, Karl, Munich, Germany. Motor-vehicle ignition and lighting system. 1,623,648; Apr. 5.
- Wolff, Louis, assignor to Crane Co., Chicago, Ill. Portable drain board. 1,627,721; May 10.
- Wolff, Mahlon H., Los Angeles, Calif. Differential drive for vehicles. 1,638,228; Aug. 9.
- Wolff, Sidney J. (See Crocker, Charles C., assignor.)
- Wolff, Wilhel, assignor to Penn Hardware Company, Inc. Reading, Pa. Pin-tumbler cylinder lock. 1,650,564; Nov. 22.
- Wolfenstein, Richard, Berlin, Germany. Producing halogen-albumin compounds. 1,649,051; Nov. 15.
- Wolinger, Joseph, and E. D. Baker, Dundas, Wis. Can-washing machine. 1,652,654; Dec. 13.
- Wolford, Charles F., Santa Ana, Calif. Electrical switch mechanism. 1,622,301; Mar. 29.
- Wolford, Edwin Y. (See McIntosh, J., and Wolford.)
- Wolford, Walter G., Cliffside, N. J. Combined match holder and cigarette container. Des. 72,745; May 24.
- Wolford, William A., Ansley, Nebr. Adjustable sash holder. 1,624,819; Apr. 12.
- Wolfram, Arthur, Höchst, Germany, assignor to the Firm Durand & Hugenin S. A., Basel, Switzerland. Manufacture of stable derivatives of vat dyestuffs. 1,639,206; Aug. 16.
- Wolfram, George H., East Orange, assignor of one-half to H. K. Morris, Newark, N. J. Pedestal or support for caskets and tae like. 1,614,909; Jan. 18.
- Wolfson, David, Far Rockaway, N. Y. Duplicator. 1,615,058; Jan. 18.
- Wolfson, Julius H., et al. (See Ramin, Ezra, assignor.)
- Wolfson, Lewis W., Boston, Mass. Weatherproof anti-theft attachment for motor vehicles. 1,629,060; May 17.
- Wolphaert, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Preparing rolls for rolled stop-joint bars. 1,620,422; Mar. 8.
- Wolpe, Herman, assignor of one-half to F. Gotsche, San Francisco, Calif. Educational and game device. 1,617,831; Feb. 15.
- Wolkenbauer, Gustav, assignor of one-half to G. A. Schmidt, Chicago, Ill. Toilet-paste-tube holder. 1,614,054; Jan. 11.
- Wolkerstorfer, Charles, St. Paul, Minn. Drilling device. 1,618,900; Feb. 22.
- Wolkogon-Wolynski, Paul, Bielefeld, Germany. Cutting machine. 1,633,755; June 28.
- Woll, Ford V., administrator. (See Woll, John M.)
- Woll, John M., deceased, Kittanning, Pa.; F. V. Woll, administrator, assignor of one-half to J. J. Lippner, Oregon City, Ore. Tunnel-ventilating system. 1,643,863; Sept. 27.
- Wollenhaupt, Amos C., San Antonio, Tex. Chicken roost. 1,646,334; Oct. 18.
- Wollner, Herbert J. (See Alter, H. A., Wollner, and Schwab.)
- Wolman, Karl H., Berlin-Grunewald, F. Peters, Berlin, and H. Pflug, Berlin-Steglitz, Germany. Wood preservative. 1,622,751; Mar. 29.
- Wolstenholme, John W., Newton, N. J. Textile-printing machine. 1,649,332; Nov. 15.
- Wolter, Antoine B., Everett, Wash., assignor to R. C. Headley, Lynwood, Calif. Breather-pipe cap. 1,654,474; Dec. 27.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lighting fixture. Des. 72,401; Apr. 6.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lighting fixture. Des. 72,402; Apr. 6.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Wall bracket for lighting fixtures. Des. 72,460; Apr. 12.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Backplate for lighting fixtures. Des. 72,461; Apr. 12.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Wall bracket for lighting fixtures. Des. 72,462; Apr. 12.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Wall bracket for lighting fixtures. Des. 72,463; Apr. 12.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Bobèche. Des. 73,117; July 19.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lamp. Des. 73,153; July 26.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lighting fixture. Des. 73,512; Sept. 20.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lantern. Des. 73,631; Oct. 11.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Combined lighting-fixture ring and support. Des. 73,632; Oct. 11.
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Backplate for lighting fixtures. Des. 73,732; Oct. 25.
- Wolters, Otto, Magdeburg, and K. Höper, Berlin-Charlottenburg, Germany, assignors to said Wolters. Feeding mechanism for machines for punching controlling bands. 1,619,645; Mar. 1.
- Woltzendorff, Friedrich, Berlin, Germany. Machine for cutting gears. 1,639,624; Aug. 16.
- Wolverine Bumper and Specialty Co. (See Clay, Harvey E., assignor.)
- Wolverine Burner & Specialty Company. (See Hammond, Milton B., assignor.)
- Wolverine Metal Specialties Co. (See Sealock, John W., assignor.)
- Wolverine Metal Specialties Co. (See Sealock, J. W., and De Graaf, assignors.)
- Wolverine Motor Works, Inc. (See Ryder, Charles, assignor.)
- Wolverine Supply and Manufacturing Company. (See Bain, Carl C., assignor.)
- Wolverine Tube Company. (See McIntyre, Patrick J., assignor.)
- Wolverton, Harry H., assignor to Kalamazoo Stove Company, Kalamazoo, Mich. Oven door for stoves and the like. 1,617,431; Feb. 15.
- Wom, Holly, Whittier, Calif. Sandalwood burner. 1,613,777; Jan. 11.
- Womack, Henry B., Birmingham, Ala. File. 1,616,403; Feb. 1.
- Wonder Window Washer Corp. (See Barlow, Harry T., assignor.)
- Wondra, Franz, Schenectady, N. Y. Internal-combustion turbine. 1,632,157; June 14.
- Wonser, Jerry H., Port Angeles, Wash. Magazine lubricator. 1,625,180; Apr. 19.
- Wonson, Roy W., Staunton, Va. Finger ring. Des. 74,043; Dec. 6.

- Wonsowicz Andrew, Gary, Ind. Automatic weather strip. 1,613,496; Jan. 4.
- Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-cutting mechanism for sewing machines. 1,613,634; Jan. 11.
- Wood, Burton G., assignor to Ivanpah Lime and Chemical Company, Los Angeles, Calif. Manufacture of precipitated calcium carbonate. 1,641,563; Sept. 6.
- Wood, Charles D., assignor to The Grassell Chemical Company, Cleveland, Ohio. Making paper from straw and product. 1,634,603; July 5.
- Wood, Charles R., Detroit, Mich. Pocket. 1,639,830; Aug. 23.
- Wood, Charles R., Detroit, Mich. Safety pocket. 1,649,636; Nov. 15.
- Wood, Clarence G., Muncie, Ind. Clutch. 1,642,475; Sept. 13.
- Wood, Clarence O. (See Riley, L. H., and Wood.)
- Wood Conversion Company. (See Payzant, Henry H., assignor.)
- Wood Conversion Company. (See Schorger, Arlie W., assignor.)
- Wood Conversion Company. (See Weiss, Howard F., assignor.)
- Wood, Donald L. (See Frederick, C. W., and Wood.)
- Wood, Dr., Foot Appliance Co. (See Saums, Joseph B., assignor.)
- Wood, Edward K., Wilmington, J. Metzger, deceased, by C. I. Metzger, administratrix, Venice, Calif., assignors to Amusement Engineering Corporation, Los Angeles, Calif. Amusement apparatus. 1,625,377; Apr. 26.
- Wood, Ernest B., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Regulating and recording device. 1,623,712; Apr. 5.
- Wood, Ervin. (See Taylor, J. R., and Wood.)
- Wood, Floyd R., Grand Rapids, Mich. Oil-feed construction. 1,619,229; Mar. 1.
- Wood, Frank W., Montclair, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Synchronous clock system. 1,641,940; Sept. 6.
- Wood, Frank W., Montclair, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Thermostatic circuit controller. 1,642,284; Sept. 13.
- Wood, Frank W., Montclair, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Rotary annunciator drop. 1,631,238; Nov. 29.
- Wood, Franz J., Des Moines, Iowa. Mechanism for controlling and operating molding machines. 1,620,050; Mar. 8.
- Wood, George B., assignor to Rockford & Rockport Lime Corporation, Rockland, Me. Method of and product for making plaster. 1,635,391; July 12.
- Wood, George E., assignor to one-half to C. R. Lamb, Wellington, New Zealand. Stop for sliding window sashes. 1,627,300; May 3.
- Wood, George R., assignor to Dayton Scale Company, Dayton, Ohio. Scales. 1,622,302; Mar. 29.
- Wood, George R., assignor to Dayton Scale Company, Dayton, Ohio. Meat slicer. 1,626,902; May 3.
- Wood, Gleason, Waltham, Mass. Screw driver. 1,627,301; May 3.
- Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Casting device for segmental plates. 1,623,941; Apr. 12.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Casting and finishing machine for curved stereotype printing plates. 1,627,817; May 10.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Making late-news printing plate and mold therefor. 1,636,346; July 19.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Folder. 1,640,017; Aug. 23.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine frame. 1,647,337; Nov. 1.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for finishing tubular printing plates. 1,648,208; Nov. 8.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Ink fountain for printing machines. 1,648,209; Nov. 8.
- Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Brake for web-roll tension devices. 1,623,922; Apr. 12.
- Wood, Herbert J., and P. L. Eastgate, Christchurch, New Zealand. Automatic ventilation-controlling apparatus. 1,618,792; Feb. 22.
- Wood Hydraulic Hoist and Body Company. (See Barrett, Edward R., assignor.)
- Wood Hydraulic Hoist & Body Company. (See Raddatz, Richard, assignor.)
- Wood, John, Manufacturing Company. (See Marland, Arthur, assignor.)
- Wood, John, Manufacturing Company. (See Mauck, Victor, assignor.)
- Wood, John J., Denver, Colo. Variable neutralizing condenser. 1,618,265; Feb. 22.
- Wood, John V., Dundee, Fla. Orchard heater. 1,616,562; Feb. 8.
- Wood, Joseph, Brockton, Mass. Snipping and attaching bindings to tops for shoes. 1,651,745; Dec. 6.
- Wood, Joseph D., Quincy, assignor, by mesne assignments, to Corbit Electrical Manufacturing Corporation, Boston, Mass. Tripping device for electric switches. 1,653,195; Dec. 20.
- Wood, Joseph E., assignor of one-half to H. K. Delahanty and one-half to S. Brown, Chicago, Ill. Receptor-jewel mounting. 1,624,300; Apr. 12.
- Wood, Joseph H., assignor of one-fourth to C. A. Terrel and one-eighth to A. M. Wagner, Chicago, Ill. Signal light. 1,626,710; May 3.
- Wood, Joseph K., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Flexible element. 1,645,510; Oct. 11.
- Wood, Justice W., and O. C. Giauque, Hillsdale, Mich. Electrically-heated windshield wiper. 1,642,570; Sept. 13.
- Wood, Logan T., Detroit, Mich. Hoist device for dumping bodies. 1,641,365; Sept. 6.
- Wood, Ner L., Lamar, Colo. Wind motor. 1,617,888; Feb. 15.
- Wood Newspaper Machinery Corporation. (See Catlin, Joseph P., assignor.)
- Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
- Wood Newspaper Machinery Corporation, The. (See Wood, Henry A. W., and Norfolk, assignors.)
- Wood, Paul G., Hilliards, Ohio. Windshield screen. 1,627,760; May 10.
- Wood, Philip C., Johnstonville, Calif. Submarine lifting device. 1,643,733; Sept. 27.
- Wood, Preston K., Los Angeles, Calif. Air compressor. 1,616,733; Feb. 8.
- Wood, Robert J., Spring Hill, W. Va., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper loading apparatus. 1,622,819; Mar. 29.
- Wood, Robert J., Twin Branch, W. Va., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,644,216; Oct. 10.
- Wood, Robert W., Kansas City, Mo. Spring wheel. 1,618,734; Feb. 8.
- Wood, Rodney J., Dayton, Ohio. Protected card-index system. 1,639,016; Aug. 16.
- Wood, Shovel and Tool Company, The. (See Browning, Joseph W., assignor.)
- Wood, Stanford J., and H. A. Greene, Jr., Monterey, Calif. Variable-inductance coil. 1,638,385; Aug. 9.
- Wood, Stanley, Rochester, N. Y. Clothesline lock. 1,638,582; Aug. 9.
- Wood, Strand K., Hutchinson, Kans. Automobile identification device. 1,620,791; Mar. 15.
- Wood, Straud K., Hutchinson, Kans. Motor-car-identifying appliance. 1,637,541; Aug. 2.
- Wood, Straud K., Hutchinson, Kans. Car-identifying appliance. 1,637,542; Aug. 2.
- Wood, Straud K., Hutchinson, Kans. Car-identifying means. 1,645,844; Oct. 18.
- Wood, Straud K., Hutchinson, Kans. Car-door seal. 1,653,079; Dec. 20.
- Wood, Straud K., Denver, Colo. Certificate container. 1,654,228; Dec. 27.
- Wood, Walter D., Allentown, Pa., assignor, by mesne assignments, to Fuller Lehigh Company. Flue-sheet cleaner. 1,647,492; Nov. 1.
- Wood, Walter W., Canton, Ohio. Vehicle spring. 1,626,996; May 3.
- Wood, William, Glenrock, Wyo., assignor to Perfection Stove Company, Cleveland, Ohio. Oil burner. Re16,623; May 10.
- Wood, William G., assignor, by mesne assignments, to American Wooddite Corporation, San Francisco, Calif. Headlight. 1,614,939; Jan. 18.
- Wood, William H., South Euclid, Ohio. Lamp. 1,631,610; June 7.
- Wood, William H., South Euclid, Ohio. Storage battery. 1,634,527; July 5.
- Wood, William H., South Euclid, Ohio. Lamp. 1,634,528; July 5.
- Wood, William H., South Euclid, Ohio. Lamp. 1,651,431; Dec. 6.
- Wood, William P., Pawtucket, R. I. Bicycle lamp. 1,649,637; Nov. 15.
- Wood, William P., Pawtucket, R. I. Flash-light attachment. 1,649,638; Nov. 15.
- Wood, William E., Evansville, Ind. Fastening for water-closet-seat sections. 1,633,421; Dec. 20.
- Woodall, John S., Great Falls, Montana. Elevated ash carrier. 1,627,262; May 3.
- Woodall-Duckham Limited. (See Smith, E. W., and Chalmers, assignors.)
- Woodall, William E., Woodland, Ark. Pad for fruit containers. 1,632,722; June 14.
- Woodall, Robert B., Malvern, Ark. Garden tool. 1,632,260; June 14.
- Woodall, William T., and C. E. Glrton, Cincinnati, Ohio. Said Woodall assignor to said Glrton. Device for joining or burning battery plates. 1,625,384; Apr. 19.
- Woodard, William E., Forest Hills, N. Y. Locomotive rear-end support. 1,620,423; Mar. 8.
- Woodard, William E., Forest Hills, N. Y. Locomotive. 1,620,495; May 10.
- Woodard, William E., Forest Hills, N. Y. Locomotive ash pan. 1,635,239; July 12.

- Woodbridge, Charles K., Flushing, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Sound distributing and transmitting means and method. 1,625,970; Apr. 26.
- Woodbridge, Charles K., New York, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Sound collecting and transmitting. 1,630,367; May 31.
- Woodbridge, Charles K., New York, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Indicating means and the like. 1,638,558; Aug. 9.
- Woodbridge, Joseph L., Philadelphia, Pa. Railway signal system. 1,630,727; May 31.
- Woodbridge, Joseph L., Philadelphia, Pa. Electric storage battery. 1,638,427; Aug. 9.
- Woodcock, Andrew J., Wilmette, Ill. Fuel-oil burner. 1,619,910; Mar. 8.
- Woodcock, Andrew J., Wilmette, Ill. Fuel-oil burner. 1,619,998; Mar. 8.
- Woodcock, Louis H., Spokane, Wash. Automatic threshold-space closure. 1,651,570; Dec. 6.
- Woodcock, Reginald B. and E. Hope, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. 1,637,506; Aug. 2.
- Woodcock, Robert H., et al. (See Welchert, F. C., and Turnbull, assignors.)
- Woodgate, Henry W., and F. W. Slade, Melbourne, Victoria, Australia. Electrical water heater. 1,617,889; Feb. 15.
- Woodhead, Harry. (See Stresau, R., and Woodhead.)
- Woodin, Carl, Pocatontos, Iowa. Line guide for tractors. 1,629,014; May 17.
- Woodin, Charles K., and W. W. Smith, Springfield, Ill. Golf putting apparatus. 1,614,704; Jan. 18.
- Woodin, William H., Jr., Plainfield, N. J. Radio aerial pole or the like. 1,648,689; Sept. 27.
- Woodings, Emanuel, Oakmont, assignor to Woodings Forge & Tool Company, Verona, Pa. Rail anchor. 1,646,780; Oct. 25.
- Woodings Forge & Tool Company. (See Woodings, Emanuel, assignor.)
- Woodison, B. J., Company. (See Burman, George A., assignor.)
- Woodland, John E., Richmond Hill, assignor to Eltvood Corporation, Long Island City, N. Y. Reflecting device for motion-picture projectors. 1,650,479; Nov. 22.
- Woodland, John E., Richmond Hill, N. Y. Electrode holder. 1,653,141; Dec. 20.
- Woodlands Limited. (See Hutchins, Robert, assignor.)
- Woodlands Limited. (See Kent-Jones, D. W., and Chitty, assignors.)
- Woodman, George, Chicago, Ill. Journal-box lid. 1,631,352; June 7.
- Woodman, George A., assignor to Woodman Railway Supply Company, Chicago, Ill. Journal-box lid. 1,631,353; June 7.
- Woodman, George A., assignor to Woodman Railway Supply Company, Chicago, Ill. Car-truck pedestal. 1,638,675; Aug. 9.
- Woodman Railway Supply Company. (See Woodman, George A., assignor.)
- Woodman, Walter F. (See Perry, L. H., and Woodman.)
- Woodring, Alberto L., assignor to National Safety Devices Company, Waterloo, Iowa. Percussive device. 1,634,927; July 5.
- Woodroof, William W., Pittsburgh, Pa. Lighting-system switch. 1,636,347; July 19.
- Woodrow, Frank S., New York, N. Y. Injection device. 1,651,499; Dec. 6.
- Woodrow, Harry R. (See Murray, T. E., and Woodrow.)
- Woodrow, Harry R., assignor to T. E. Murray, New York, N. Y. Arc-welding machine. 1,638,024; Aug. 9.
- Woodrow, Oliver B., Newton, Iowa. Caster locking and releasing device. 1,613,004; Jan. 4.
- Woodrow, Oliver B., Newton, Iowa. Washing machine. 1,629,761; May 24.
- Woodrow, Oliver B., Newton, Iowa. Washing machine. 1,629,762; May 24.
- Woodrow, Oliver B., Newton, Iowa. Clutch mechanism for washing machines. 1,629,763; May 24.
- Woodrow, Oliver B., Newton, Iowa. Adjustable support for electric motors. 1,632,261; June 14.
- Woodrow, Oliver B., Newton, Iowa. Driving mechanism for washing machines. 1,635,450; July 12.
- Woodrow, Oliver B., Newton, Iowa. Wringer. 1,641,516; Sept. 6.
- Woodrow, Walter J., London, England. Cover for manholes. 1,630,557; May 31.
- Woodruff, Albert N., Washington, D. C. Type-bar mechanism. 1,619,391; Mar. 1.
- Woodruff, Alvie C., Oakridge, Ore. Four-wheel brake. 1,646,336; Oct. 18.
- Woodruff, Benjamin F., assignor to one-half to W. J. McGargue, Blue Diamond, Ky. Roundabout. 1,639,893; Aug. 16.
- Woodruff, Christine H., Westfield, N. J. Portable wardrobe. 1,615,430; Jan. 25.
- Woodruff, Christine H., Westfield, N. J. Plant protector. 1,641,244; Sept. 6.
- Woodruff, Frank. (See Foster, J. R., and Woodruff.)
- Woodruff, Frank, Rochester, and G. W. MacKenzie, Beaver, assignors to Correct Measure Company, Rochester, Pa. Liquid-dispensing apparatus. 1,618,621; Feb. 22.
- Woodruff, Frank, and J. R. Foster, assignors to Correct Measure Company, Rochester, Pa. Volume-measuring apparatus for liquids. 1,648,669; Nov. 8.
- Woodruff, Henry S., East Orange, N. J., assignor to General Motors Corporation, Detroit, Mich. Winding machine and method. 1,627,681; May 10.
- Woodruff, Isaac T., Portland, Ore. Automatic feeder of mill waste fuel for domestic heating plants. 1,618,501; Feb. 22.
- Woodruff, John C., and G. Bloomfield, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst for synthetic methanol production. 1,625,924; Apr. 26.
- Woodruff, John C., and G. Bloomfield, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst for synthetic methanol production. 1,625,925; Apr. 26.
- Woodruff, John C., and G. Bloomfield, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst for synthetic methanol production. 1,625,926; Apr. 26.
- Woodruff, John C., and G. Bloomfield, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst for synthetic methanol production. 1,625,927; Apr. 26.
- Woodruff, John C., and G. Bloomfield, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst for synthetic methanol production. 1,625,928; Apr. 26.
- Woodruff, John C., and G. Bloomfield, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst for synthetic methanol production. 1,625,929; Apr. 26.
- Woodruff, Joseph W., Elizabeth, N. J. Force-feed lubricator. 1,630,321; May 31.
- Woodruff, Joseph W., Elizabeth, N. J. Automatic force-feed lubricator. 1,639,017; Aug. 16.
- Woodruff, Robert L., Winder, Ga. Cotton duster. 1,614,269; Jan. 11.
- Woods, Bert, Tulsa, Okla. Safety hook. 1,618,321; Feb. 22.
- Woods, Bert, Tulsa, Okla. Elevator. 1,637,209; July 26.
- Woods Brothers Construction Company. (See Pringle, Wayne, assignor.)
- Woods Brothers Corporation. (See Pringle, Wayne, assignor.)
- Woods, Frank E. (See Baldwin, E. F., and Woods.)
- Woods, Grover H., and A. B. Denison, Cleveland, Ohio, and W. A. Wiley, assignors to American Sterilizer Company, Erie, Pa. Dispensing device. 1,621,861; Mar. 22.
- Woods, John D., Steubenville, Ohio. Gun sight. 1,646,049; Aug. 30.
- Woods, Lee A., et al. (See Daugherty, Claude, assignor.)
- Woods, Paul. (See Parsons, Albert K., assignor.)
- Woods, S. A., Machine Company. (See Blood, Laurence E., assignor.)
- Woods, S. A., Machine Company. (See Carlson, Lewis B., assignor.)
- Woods, Samuel J., Newport, B. I. Gas-igniting device. 1,635,104; July 5.
- Woods, Sophie L. (See Perry, Hubert M., assignor.)
- Woods, Theodore, West Linn, Ore. Wrench for use in restricted locations. 1,615,497; Jan. 25.
- Woods, Walter T., Long Beach, assignor to U. S. Tool Company, Los Angeles, Calif. Forming disk cutters. 1,614,332; Jan. 11.
- Woods, Walter T., assignor to U. S. Tool Company, Long Beach, Calif. Rotary drilling bit. 1,615,251; Jan. 25.
- Woods, William G., and N. T. Shaw, Los Angeles, Calif. Dispenser. 1,649,435; Nov. 15.
- Woods, William H., Gable, S. C. Supporting device. 1,625,757; Apr. 19.
- Woodsome, John O., New York, N. Y. Steam-circulating fitting. 1,628,382; May 10.
- Woodsome, John O., New York, N. Y. Steam-circulating system for driers. 1,643,972; Oct. 4.
- Woodson, John O., New York, N. Y. Steam-circulating system for driers. 1,643,973; Oct. 4.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic temperature-control system. 1,617,360; Feb. 15.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace resistor mounting. 1,617,361; Feb. 15.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,622,621; Mar. 29.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,622,622; Mar. 29.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-insulating wall. 1,626,655; May 3.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-furnace heating unit. 1,626,656; May 3.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating unit. 1,628,868; May 17.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor mounting for electric furnaces. 1,630,368; May 31.

- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,633,967; June 28.
- Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
- Woodstock Typewriter Co. (See Hokanson, O. A., and Koca, assignors.)
- Woodstock Typewriter Company. (See Koca, James F., assignor.)
- Woodward, Charles L., West Springfield, assignor to United States Machinery Manufacturing Company, Springfield, Mass. Dishwashing machine. 1,630,684; May 31.
- Woodward Grosvenor and Company Limited. (See Grosvenor, J. E., and Picking, assignors.)
- Woodward, Herbert S., Carbondale, Pa. Multiple deck screen. 1,639,678; Aug. 23.
- Woodward, Herbert S., Carbondale, Pa. Vibrating screen. 1,649,889; Nov. 22.
- Woodward, Irving C., Syracuse, N. Y. Wheel puller. 1,642,285; Sept. 13.
- Woodward, James L., Vian, Okla. Fertilizer distributor. 1,617,228; Feb. 8.
- Woodward, Jesse H., assignor of one-third to A. H. Nichols and R. H. Daley, Perryton, Tex. Grain drier and cleaner. 1,645,563; Oct. 13.
- Woodward, John W., Lawrence, Mass., assignor, by mesne assignments, to Kitson Machine Shop. Control ling apparatus for cotton-distributing mechanisms. 1,640,148; Aug. 23.
- Woodwind Company, The. (See Gemeinhardt, Walter F., assignor.)
- Woodworth, Roy V., assignor to Western Supplies Co., St. Louis, Mo. Marking machine. 1,639,360; Aug. 16.
- Woody, Clyde C., assignor to Madison Silo Company, Winona, Minn. Silo. 1,642,003; Sept. 13.
- Woodyard, Laurel C., Lacona, Iowa. Wire stretcher. 1,632,016; June 14.
- Woodridge, John, Childress, Tex. Boll extractor. 1,653,422; Dec. 20.
- Wooley, Horace E., St. Paul, assignor to Wooley Machine Company, Minneapolis, Minn. Weed-burning device. 1,656,161; July 19.
- Wooley Machine Company. (See Wooley, Horace E., assignor.)
- Woolley, Bruce D., Johnstown, Ohio. Wall-papering device. 1,637,288; July 26.
- Woolley, Harold O., Maplewood, N. J., assignor to Power Specialty Company, New York, N. Y. Combined superheater and boiler. 1,626,220; Apr. 26.
- Woolley, Rev. E. L., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Electric speed indicator. 1,650,679; Nov. 29.
- Woolman, Clint V., Tacoma, Wash. Twine holder. 1,618,901; Feb. 22.
- Woolsey, Charles A., Minneapolis, assignor to Northwestern Collapsible Carrier Co., St. Paul, Minn. Crate. 1,638,229; Aug. 9.
- Woolsey, Charles A., and H. V. Bowman, Minneapolis, Minn., assignors to Northwestern Collapsible Carrier Co., St. Paul, Minn. Crate. 1,639,873; Aug. 23.
- Woolsey, Charles A., and H. V. Bowman, Minneapolis, assignors to Northwestern Collapsible Carrier Co., St. Paul, Minn. Crate. 1,644,865; Oct. 11.
- Woolsey, John H., San Francisco, Calif. Sterilizer. 1,618,622; Feb. 22.
- Woolsey, Nicholas I., Totterville, N. Y. Valve-stem cap. 1,621,300; Mar. 13.
- Woolson, Harry T., Detroit, Mich. Thermostat for motor vehicles. 1,633,329; Dec. 20.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Carbureting device. 1,613,257; Jan. 4.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,613,255; Jan. 4.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,616,938; Feb. 8.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Ignition apparatus for internal-combustion engines. 1,616,939; Feb. 8.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,616,940; Feb. 8.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,616,941; Feb. 8.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,616,942; Feb. 8.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,617,471; Feb. 15.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,620,061; Apr. 26.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Mixture-forming means for internal-combustion engines. 1,620,062; Apr. 26.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,627,761; May 10.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,631,177; June 7.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,635,873; July 12.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,638,903; Aug. 16.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,639,874; Aug. 23.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,647,848; Nov. 1.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,647,849; Nov. 1.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,652,336; Dec. 13.
- Woolson Rubber Company. (See Winkler, John F., assignor.)
- Wootton, Joseph H., Washington, D. C., assignor to The Ply-Rite Contracting Company, Baltimore, Md. Coating structural surfaces. 1,632,752; June 14.
- Worbois, Edson L., Tonawanda, assignor to Howard Iron Works, Buffalo, N. Y. Nut-tapping machine. 1,613,369; Jan. 4.
- Worcester Bilt-Rite Company. (See Arey, Ralph G., assignor.)
- Worcester, Evan R., Marion, Ind., assignor to Macbeth-Evans Glass Company, Charleroi, Pa. Glass jug. Des. 73,513; Sept. 20.
- Worcester Knitting Co., The. (See Barnett, Arthur J., assignor.)
- Worden, Erle D., assignor of one-half to O. Halliburton, Tulsa, Okla. Automatic brake-band-adjusting device. 1,637,278; Jan. 11.
- Worden, Euclid P., Glen Ridge, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Surface condenser. 1,626,772; May 3.
- Work, Bertram G., and L. N. Slade, assignors to The B. F. Goodrich Company, New York, N. Y. Reducing gear. 1,632,017; June 14.
- Work, Robert D., and J. High, Philadelphia, Pa. Meter and meter-reading device. 1,617,932; Feb. 15.
- Workman, Ellison E. (See Robinson, Edward A., assignor.)
- Workman, Harold, Glasgow, Scotland. Projection lamp. 1,631,905; Dec. 13.
- Workman, Harold, Glasgow, Scotland. Electric incandescent lamp. 1,640,867; Aug. 30.
- Workman, John E., York, Pa. Trap. 1,623,515; Apr. 5.
- Workman, Margaret A., Kansas City, Kans. Adjustable hoop. 1,632,970; Dec. 13.
- World Bestos Corporation. (See Heany, John A., assignor.)
- World-Wide Patent Enterprises, Inc. (See Bolgiano, John, assignor.)
- Worley, Marion D., St. Stephen, New Brunswick, Canada. Hair waver. 1,629,567; May 24.
- Worman, Albert, New York, N. Y. Aeroplane. 1,625,012; Apr. 19.
- Worner, Henry F., Philadelphia, Pa. Radioreceiver. 1,626,370; Apr. 26.
- Worrall, George H., Kirkwood, Mo. Reinforced sheet lead. 1,628,759; May 17.
- Worrall, George H., Kirkwood, Mo. Chemical-resistant lining. 1,628,760; May 17.
- Worrell, Dwight E. (See Arras, G., and Worrell.)
- Worrell Mine Tie Manufacturing Company. (See Worrell, Robert H., assignor.)
- Worrell, Robert H., assignor to Worrell Mine Tie Manufacturing Company, Beckley, W. Va. Mine tie. 1,653,330; Dec. 20.
- Worster, Harold B., Keokuk, Iowa. Bushing tool. 1,632,720; June 14.
- Worster, Harold B., assignor of one-half to C. R. Farmer, Keokuk, Iowa. Signal system for railways. 1,650,853; Nov. 29.
- Worth, Charles H., Elberon, N. J. Shopping bag. 1,618,854; Feb. 22.
- Worth, Clemens S., Los Angeles, Calif., assignor, by mesne assignments, to E. G. Burghard. Compressor. 1,628,096; May 10.
- Worth, Clemens S., Los Angeles, Calif., assignor, by mesne assignments, to E. G. Burghard. Piston. 1,628,097; May 10.
- Worth, Jacques, Paris, France. Combined bottle and holder therefor. Des. 73,594; Oct. 11.
- Worth, Jean C., Paris, France, assignor to David Crystal, Inc., New York, N. Y. Dress. Des. 72,923; June 21.
- Worth, Lew E. (See Shaffer, Daniel J., assignor.)
- Worthington, Charles C., Dunfield, N. J. Tractor-propelled lawn mower. 1,614,383; Jan. 11.
- Worthington, Charles C., Dunfield, N. J. Traction gang lawnmower. 1,618,602; Feb. 22.
- Worthington, Edith. (See Powell, Otis W., assignor.)
- Worthington, Edward H., Shawnee-on-Deleware, Pa. Windshield. 1,650,922; Nov. 29.
- Worthington, George C., Elyria, Ohio. Golf-club head. 1,617,080; Feb. 8.
- Worthington Pump and Machinery Corporation. (See Allerton, Robert W., assignor)

- Worthington Pump and Machinery Corporation. (See Barrett, Charles G., assignor.)
- Worthington Pump and Machinery Corporation. (See Benson, Harry F., assignor.)
- Worthington Pump & Machinery Corporation. (See Bourne, Phillips P., assignor.)
- Worthington Pump and Machinery Corporation. (See Bourne, P. P., and Nonnenbruch, assignors.)
- Worthington Pump & Machinery Corporation. (See Fleming, Wills M., assignor.)
- Worthington Pump & Machinery Corporation. (See Grace, John H., assignor.)
- Worthington Pump and Machinery Corp. (See Haeberein, Max, assignor.)
- Worthington Pump and Machinery Corporation. (See Jorgensen, Olav E., assignor.)
- Worthington Pump and Machinery Corporation. (See Lucke, Charles L., assignor.)
- Worthington Pump and Machinery Corporation. (See Lupfer, James A., assignor.)
- Worthington Pump and Machinery Corporation. (See Riesner, Michael, assignor.)
- Worthington Pump and Machinery Corporation. (See Scharoff, Alexander V., assignor.)
- Worthington Pump and Machinery Corporation. (See Worden, Euclid P., assignor.)
- Worthington, Walter S., London, England. Screening of coils carrying high-frequency currents. 1,628,569; May 10.
- Worthington, Wayne H., Battle Creek, Mich., assignor to Advance-Rumely Company, La Porte, Ind. Huller. 1,631,446; June 7.
- Wotruba, Charles, Fort Washington, assignor to C. L. Bachman and E. Hahn, Philadelphia, Pa., composing the Copartnership Victoria Engineering Co. Ash conveyor and ejector. 1,629,490; Apr. 26.
- Wragg, Lulu M., Spokane, Wash. Windshield. 1,626,997; May 3.
- Wray, Charles F. (See Feldmeier, H., and Wray.)
- Wray, Charles S., Atlantic Highland, N. J. Belt conveyor. 1,633,133; June 21.
- Wray, Edward N. (See Bashor, E. E., and Wray.)
- Wray, John W., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Chain grate. 1,649,557; Nov. 15.
- Wread Products Corporation. (See Wread, William E., assignor.)
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to Wread Products Corporation. Door latch and lock. 1,617,001; Feb. 8.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to Wread Products Corporation. Lock. 1,629,764; May 24.
- Wreford, William B., Detroit, Mich. Sport overshoe. 1,644,217; Oct. 4.
- Wreiner, Arthur N., Dassel, Minn. Hen roost. 1,615,923; Feb. 1.
- Wrenn, Moutrie B., assignor of one-half to S. A. Wrenn, Portland, Oreg. Brake. 1,614,973; Jan. 13.
- Wrenn, Samuel A. (See Wrenn, Moutrie B., assignor.)
- Wright, A. E., Company. (See Wright, Albertis E., assignor.)
- Wright Aeronautical Corporation. (See Lawrence, Charles L., assignor.)
- Wright Aeronautical Corporation. (See Vanderlipp, Nathan F., assignor.)
- Wright Aeronautical Corporation. (See Willgoos, Andrew V. D., assignor.)
- Wright, Albert L., Ripley, and F. I. Smedley, Codnor Park, England. Construction of railway wagons and the like. 1,614,941; Jan. 13.
- Wright, Albertis E., assignor to A. E. Wright Company, Chicago, Ill. Bottle. Dec. 73,118; July 19.
- Wright, Arthur H., Minneapolis, Minn. Rotary reciprocating engine. 1,625,841; Apr. 26.
- Wright-Austin Company. (See Kuhn, Wilfred H., assignor.)
- Wright, Carl E., Dallas, Tex. Mold for plastic materials. 1,648,038; Nov. 8.
- Wright, Charles C., Camden, N. J., assignor of one-half to Camden Battery Company. Pistal-tank construction and valve-lever-operating mechanism therefor. 1,626,128; Apr. 26.
- Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Delivery mechanism for box-filling machines. 1,621,301; Mar. 13.
- Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Match machine. 1,641,216; Sept. 6.
- Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Cover-supplying mechanism for box-filling machines. 1,649,639; Nov. 15.
- Wright, Charles H., Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company. Sheet-glass-drawing apparatus. 1,615,862; Feb. 1.
- Wright, Charles H., Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company. Apparatus for making sheet glass. 1,615,863; Feb. 1.
- Wright, Charles L., assignor to Lamb Knitting Machine Company, Chicopee Falls, Mass. Electric heater. 1,646,845; Oct. 26.
- Wright, Charles W., Bloomington, Ill. Reboring device. 1,618,037; Feb. 15.
- Wright, Clyde S. (See Schwimmer, F. J., and Wright.)
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Wire-line-drilling clamp. 1,614,581; Jan. 18.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Wire-line-drilling clamp. 1,621,616; May 22.
- Wright, Cyril F., executor. (See Langdon-Davies, W., and Soames.)
- Wright, Dallas V., Fort Dodge, Iowa. Bottle dispensing and refrigerating apparatus. 1,619,999; Mar. 8.
- Wright, Daniel K., Paterson, N. J., assignor to General Electric Company. Method of and apparatus for forming filaments. 1,615,666; Jan. 25.
- Wright, Edward A., Fresno, Calif. Control pedal. 1,632,940; June 21.
- Wright, Edward B. (See Rogan, T. T., and Wright.)
- Wright, Edward H. (See Atwood, E. H., Wanner, Kieble, and Wright.)
- Wright, Edward H., Schenectady, N. Y., assignor to General Electric Company. Combined trip and throttle valve. 1,648,710; Nov. 8.
- Wright, Edward S., Glendale, Calif. Rake attachment for lawnmowers. 1,633,302; June 23.
- Wright, Elton A., assignor to F. H. Noble & Company, Chicago, Ill. Crystal detector. 1,636,269; July 19.
- Wright, Francis E., Cleveland, and R. M. Warner, East Cleveland, Ohio. Compressor for refrigerating apparatus. 1,628,944; May 17.
- Wright, George W., assignor of one-fourth to T. F. Elsworth, one-fourth to P. Harker, and one-fourth to George Mann and Company Limited, Leeds, England. Delivery mechanism for printing machines. 1,614,940; Jan. 18.
- Wright, Fred W., Hunslet, Leeds, assignor to George Macfay Company, Limited, Larchfield Works, Leeds, England. Printing machine. 1,644,218; Oct. 4.
- Wright, Frederick M., St. Louis, Mo. Massage device. 1,635,917; July 12.
- Wright, George B., assignor to Nash Engineering Company, South Norwalk, Conn. Device for illustrating the operation of rotary pumps. 1,639,918; Aug. 23.
- Wright, George I., Flossmoor, Ill. Crossing-gate control. 1,650,783; Nov. 29.
- Wright, George M. (See Smith, S. B., and Wright.)
- Wright, George M., Chesterfield, England, assignor to Radio Corporation of America. Supplying power to thermionic valves. 1,642,626; Sept. 13.
- Wright, George W., Huron, S. Dak. Duplicating device. 1,647,207; Nov. 1.
- Wright-Harding Company. (See Harding, Dana E., assignor.)
- Wright, Henry A., Halls, Tenn. Railway-mail-delivery apparatus. 1,631,258; June 7.
- Wright, Horace C., and P. G. Bristow, Sydney, New South Wales, Australia, assignors to Chicago Flexible Shaft Company. Shearing blade for sheep shears and the like. 1,646,470; Oct. 25.
- Wright, Hubert E., et al. (See Barden, Fred, assignor.)
- Wright, J. E., sr. (See McElwain, James, assignor.)
- Wright, J. T., Company, The. (See Wright, Joseph T., assignor.)
- Wright, James D., Almena, Kans. Cultivator. 1,630,996; May 31.
- Wright, James F., Cleveland, assignor to The McMyler Industrial Company, Bedford, Ohio. Clutch-operating mechanism. 1,631,392; June 7.
- Wright, James F., Cleveland, assignor to The McMyler Interstate Company, Bedford, Ohio. Clutch-operating mechanism. 1,632,885; June 21.
- Wright, James G. E., Alplaus, N. Y., and W. J. Bartlett, East Cleveland, Ohio, assignors to General Electric Company. Ester-resin composition and preparation. 1,634,969; July 5.
- Wright, James R. (See Howard, F. A., and Wright.)
- Wright, John E., Mayfield, Ky. Calculating device. 1,613,497; Jan. 4.
- Wright, John E., Mayfield, Ky. Calculator. 1,619,230; Mar. 1.
- Wright, John E., assignor to A. H. Fox, New York, N. Y. Street-traffic-signal device. 1,640,170; Aug. 23.
- Wright, John F., El Dorado, Ark. Treating impure crude oil. 1,627,072; May 3.
- Wright, John W., Olympia, Wash. Grate construction. 1,619,842; Mar. 8.
- Wright, John W., Puyallup, Wash. Device for sorting beans. 1,627,221; May 3.
- Wright, John W., and H. F. Underwood, Dallas, Tex. Compress for fibrous materials. 1,616,838; Feb. 8.
- Wright, Joseph T., assignor to The J. T. Wright Company, Cincinnati, Ohio. Lubricant control for transmissions. 1,645,504; Oct. 11.
- Wright, Joseph T., assignor to The J. T. Wright Company, Cincinnati, Ohio. Making tubular drills. 1,651,795; Dec. 6.
- Wright, Joseph T., Frankfort, Mich. Sound amplifier or megaphone tone box. 1,614,582; Jan. 18.
- Wright, Julius C., Waco, Tex. Air transferter. 1,652,337; Dec. 13.
- Wright, Norman A., assignor to Pontiac Tractor Company, Pontiac, Mich. Spraying attachment for tractors. 1,634,371; Apr. 26.
- Wright, Norman J. (See Sippel, E. H., and Wright.)

- Wright, Oliver S., assignor to Neptune Manufacturing Company, Mautontown, Pa. Hair-waving device. 1,632,753; June 14.
- Wright, Parvin. (See Gerrard, A. J., and Wright.)
- Wright, Paul D., Wilkesburg, Pa. Valve. 1,636,618; July 19.
- Wright, Paul D., Edgewood, Pa. Sculling hook. 1,636,654; July 19.
- Wright, Rea P., Washington, D. C., assignor to Marvel Carburetor Company, Flint, Mich. Thermostatic heat control for internal-combustion engines. 1,613,005; Jan. 4.
- Wright, Rea P., Washington, D. C., assignor to Marvel Carburetor Company, Flint, Mich. Thermostatic heat control for internal-combustion engines. 1,613,006; Jan. 4.
- Wright, Rea P., Washington, D. C., assignor to Marvel Carburetor Company, Flint, Mich. Thermostatic heat control for internal-combustion engines. 1,630,728; May 31.
- Wright, Robert S., Minot, N. Dak. Noncorroding antifreeze composition. 1,626,998; May 3.
- Wright, Samson D., Cleveland Heights, Ohio. Dump car. 1,629,853; May 24.
- Wright, Samson D., Cleveland Heights, Ohio. Recording scale for railway cars. 1,652,338; Dec. 13.
- Wright, Stanley R. (See Curtis, A. H., Wright, and Mackley.)
- Wright, Stanton M. (See Wright, Walter L. and S. M.)
- Wright, Sumner B., East Orange, N. J., assignor to American Telephone and Telegraph Company. Voice-operated relay equipment. 1,636,031; July 19.
- Wright, Sumner B., East Orange, N. J., assignor to American Telephone and Telegraph Company. Protective circuits. 1,649,884; Nov. 22.
- Wright, Sydney M., London, England. Hair-waving comb. 1,642,636; Sept. 19.
- Wright, Thomas B., Cincinnati, Ohio. Mail box. 1,618,793; Feb. 22.
- Wright, Thurman, et al. (See Feland, Oscar A., assignor.)
- Wright, Walter L. and S. M., Los Angeles, Calif. Color motion-picture photography. 1,641,336; Sept. 6.
- Wright, Wayne C., Siloam Springs, Ark. Gravity meter. 1,613,814; Jan. 11.
- Wright, William. (See Gloss, S. D., and Wright.)
- Wright, William. (See Williams, T. H., and Wright.)
- Wright, William, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roofs. 1,614,334; Jan. 11.
- Wright, William, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,614,335; Jan. 11.
- Wright, William, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,625,636; Apr. 19.
- Wright, William, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,637,888; Aug. 2.
- Wright, William, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car end. 1,642,571; Sept. 13.
- Wright, William B., Custom House, London, England. Rotary tool for cleaning, chipping, or scaling surfaces. 1,626,491; Apr. 26.
- Wright, William B., and W. M. Fairfax, Washington, D. C. Vacuum-jacketed container. 1,651,655; Dec. 6.
- Wright, William D., assignor to United Electric Railways Company, Providence, R. I. Railway transfer clamp. 1,618,855; Feb. 22.
- Wright, William E., assignor to Acme Can Company, Philadelphia, Pa. Ice-cream freezer. 1,627,302; May 8.
- Wright, William H., Pittsburgh, Pa. Jug cover. 1,625,405; Apr. 19.
- Wright, William H., Milwaukee, Wis., assignor to Foundation Oven Corporation. Coke oven. 1,643,532; Sept. 27.
- Wrighton, William J., assignor to American Optical Company, Southbridge, Mass. Watchmaker's loupe. 1,641,834; Sept. 6.
- Wrightman, C. B., et al. (See Keniston, G. I., and Priestley, assignors.)
- Wrigley, Henry I., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism for railway cars. 1,618,740; Feb. 22.
- Wrigley, Henry I., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism for railway cars. 1,635,654; July 12.
- Wriston, Henry C., Tulsa, Okla. Accelerator foot rest. 1,614,638; Jan. 18.
- Wrocklake, George W., Hackensack, N. J. Concrete form. 1,649,205; Nov. 15.
- Wuelker, William E., Los Angeles, Calif. Power take-off for automobiles. 1,636,967; July 19.
- Wuerthele, Edwin J., Pittsburgh, Pa. Bowling-alley ten-pin. 1,642,288; Sept. 13.
- Wuest, Albert G., assignor to The Wels Manufacturing Company, Monroe, Mich. Card-index device. 1,630,822; May 31.
- Wuest, Edward H., Cincinnati, Ohio. Curtain-light apparatus. 1,612,847; Jan. 4.
- Wuest, Heinz M., Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Hydroxy of water-soluble neutral derivatives of dihydroxydiaminoarsenobenzol. 1,648,926; Nov. 15.
- Wulf, Charles A., Indianapolis, Ind. Furnace-charging apparatus. 1,641,651; Sept. 6.
- Wulf, Charles A., assignor to American Valve and Enameling Corporation, Indianapolis, Ind. Inlet valve for toilet flushing mechanism. 1,622,696; Mar. 29.
- Wulf, Charles A., assignor to American Valve and Enameling Corporation, Indianapolis, Ind. Toilet-flushing mechanism. 1,641,652; Sept. 6.
- Wulf, Frank F., Neligh, Nebr. Draft evenor. 1,645,569; Oct. 18.
- Wulf, John, Los Angeles, Calif. Clutch. 1,642,527; Sept. 13.
- Wulforth, William E., Cincinnati, Ohio. Automatic signal. 1,629,982; May 24.
- Wulfsing, Daniel J., assignor to The Minnesota Specialty Company, St. Paul, Minn. Key case. 1,615,059; Jan. 18.
- Wulfsing, Daniel J., assignor to The Minnesota Specialty Company, St. Paul, Minn. Auto key case. 1,641,110; Aug. 30.
- Wulfstange, John A., Hamilton, Ohio. Grille. 1,622,363; Mar. 29.
- Wulkan, Louis, Cedarhurst, N. Y. Mounting for radio loud speakers. 1,616,246; Feb. 1.
- Wunder, George G. (See Langstroth, C. B., and Wunder.)
- Wunderlin, August H., Fort Wayne, Ind. Illuminated artificial feed bait. 1,617,091; Feb. 3.
- Wünsch, Erich P. G., Steglitz, near Berlin, assignor to Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Retort and gas-flow-regulating apparatus. 1,639,394; Aug. 16.
- Wünsch, Guido, Steglitz, near Berlin, Germany. Device for regulating gas pressure. 1,620,707; Mar. 15.
- Wünsch, Hugo, assignor to Polyphonwerke Aktiengesellschaft, Berlin, Germany. Horn for talking machines. 1,650,171; Nov. 22.
- Wurdack, Arthur, Normandy, Mo. Fruit press. 1,636,204; July 19.
- Wurdack, Arthur, Normandy, Mo. Pulp press. 1,651,500; Dec. 6.
- Wurdack, William, St. Louis, Mo. Combination socket-seating and fuse-testing block. 1,631,173; June 7.
- Wurdack, William, assignor to Wm. Wurdack Electric Mfg. Co., St. Louis, Mo. Trim-securing clamp. 1,648,927; Nov. 15.
- Wurdack, Wm., Electric Co. (See Wurdack, William, assignor.)
- Wurdlitzer Grand Piano Company. (See Farny, Cyril, assignor.)
- Wurdlitzer, Rudolph, Manufacturing Company. (See Devall, Charles N., assignor.)
- Wurman, Harry P., Brooklyn, N. Y., assignor to Bayuk Cigars Incorporated, Philadelphia, Pa. Cigar-finishing device. 1,641,795; Sept. 6.
- Wuronus, Arthur W., assignor to the Firm Sendlinger Optische Glaswerke G. m. b. H., Berlin-Zehlendorf, Germany. Röntgen tube and manufacture of same. 1,648,526; Nov. 8.
- Wurtenberg, Charles. (See Randall, C. J., and Wurtenberg.)
- Wurze, Joseph, Dedham, Iowa. Draft equalizer. 1,648,098; Nov. 8.
- Wurzeschmitt, Bernhard, assignor to I. G. Farbenindustrie Aktiengesellschaft, Uerdingen-Niederrhein, Germany. Composition for impregnating wood. 1,654,229; Dec. 27.
- Wüstenhöfer, Julius, Dortmund, Germany. Safety catch for elevators, lifts, or the like. 1,633,836; June 28.
- Wustholz, Fred, Claytonville, Ill. Concrete form. 1,623,151; Apr. 5.
- Wustholz, Fred, Claytonville, Ill. Concrete-form clamp. 1,649,209; Nov. 24.
- Wüthrich, Christian, Niederuzwil, assignor to the Firm Gebrüder Bühler, Uzwil, Switzerland. Mold disk for dough presses. 1,618,256; Feb. 22.
- Wutzler, George M., Waukegan, Ill. Coal-spout-operating device. 1,633,914; June 28.
- Wyand, William, Absecon, N. J. Grate section. 1,621,302; Mar. 15.
- Wyant, Leroy, Chicago, Ill., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,633,302; June 21.
- Wyant, Leroy, Chicago, Ill. Railway signal. 1,648,527; Nov. 8.
- Wyckoff, Alvin, Los Angeles, Calif., assignor to Famous Players-Lasky Corporation, New York, N. Y. Coloring machine. 1,628,020; May 10.
- Wyckoff, Andrew D., Fort Wayne, Ind. Locking device for barrel pumps. 1,653,446; Dec. 29.
- Wyko Projector Corporation. (See Brewster, Percy D., assignor.)
- Wylam, Birkett, Lancaster, J. E. G. Harris, Carlisle, England, and J. Thomas, assignors to Scottish Dyes, Limited, Grangemouth, Scotland. Preparing vat-dye stuff derivatives from vat dyes, dyes, and alkyl esters of monochloroacetic acid. 1,640,018; Aug. 23.
- Wylde, Robert H., Hempstead, and W. F. Keenan, Jr., Pelham, assignors to Power Specialty Company, New York, N. Y. Hanger bolts for boiler settings. 1,622,303; Mar. 29.

- Wylie, Adrian W. (See Pennell, R. H. L., and Wylie.)
 Wylie, Garvin R. (See Harrison, J. A., and Wylie.)
 Wylie, Garvin R., Washington, and J. A. Harrison, Par-
 assus, Pa. Educational game. 1,617,362; Feb. 15.
 Wylie, Hamilton N., and F. M. Green, Coventry, England.
 Joint for sheet-metal plates. 1,630,558; May 31.
 Wyman, Charles A., Auburn, Wash. Mole trap.
 1,626,993; May 3.
 Wyman, Charles W., Claremont, N. H., assignor to Sul-
 livan Machinery Company. Mining machine.
 1,650,578; Nov. 22.
 Wyman, Charles W., Claremont, N. H., assignor to Sul-
 livan Machinery Company. Connector device.
 1,654,475; Dec. 27.
 Wyman, George R., assignor to Bird & Son, Incorporated,
 Walpole, Mass. Shingle and laying the same.
 1,635,733; July 12.
 Wyman-Gordon Company. (See Damerell, Mark H., as-
 signor.)
 Wyman-Gordon Company. (See Oldson, John A., as-
 signor.)
 Wynd, Leo A., and J. L. Schuele, Peoria, Ill. Coating
 materials having an iron or steel base. 1,630,507;
 May 31.
 Wynd, Leo A., and J. L. Schuele, Peoria, Ill. Galvaniz-
 ing apparatus. 1,630,508; May 31.
 Wyner, Rudolph H., et al. (See Miller, Max C., assignor.)
 Wynkoop, Roy A., Detroit, Mich. Combination cut-off
 scriber and bevel square. 1,635,874; July 12.
 Wynn, John G., Madison, Wis., assignor to The Zeno
 Button Company, Indianapolis, Ind. Casing for coin-
 controlled apparatus. 1,626,999; May 3.
 Wynn, Lavinious K., assignor to Wynn Products Com-
 pany, Sterling, Ill. Container. 1,615,319; Jan. 25.
 Wynn, Loyal L., Florence, Colo. Mechanical toy.
 1,625,758; Apr. 19.
 Wynn Products Company. (See Wynn, Lavinious K.,
 assignor.)
 Wyoming Shovel Works, The. (See Webster, Lewis E.,
 assignor.)
 Wyrostok, Charles. (See Morris, W., and Wyrostok.)
 Wyse, Ione, assignor to Swift & Company, Chicago, Ill.
 Carton. 1,617,472; Feb. 15.
 Wyzialek, John F., Arlington, N. J., assignor to General
 Motors Corporation, Detroit, Mich. Method and appa-
 ratus for heat treating steel articles. 1,627,682; May 10.
 Xippas, Socrates, A., Pittsburgh, Pa. Ventilating fan.
 1,616,656; June 14.
 Xippas, Socrates, Pittsburgh, Pa. Fan blade and
 center. 1,623,373; Apr. 5.
 X-It Laboratories, Inc. (See Wayne, Oscar T., assignor.)
 Xylos Rubber Company, The. (See Barnett, William D.,
 assignor.)
 Yager, William O., Chicago, Ill. Toy novelty. 1,640,171;
 Aug. 23.
 Yackley, George M., Avoca, Minn. Corn planter.
 1,627,537; May 3.
 Yackley, Julius, Spokane, Wash. Cultivator. 1,643,328;
 Sept. 27.
 Yager, Albert A., Jr., Saginaw, Mich., assignor to West-
 inghouse Electric & Manufacturing Company. Control
 apparatus. 1,652,550; Dec. 13.
 Yager, George L. (See Yager, Ralph C. and G. L.)
 Yager, Harvey J., Seattle, Wash. Portable scaffold.
 1,631,543; June 7.
 Yager, Harry J., Seattle, Wash. Collapsible and portable
 core form. 1,652,081; Dec. 6.
 Yager, Ralph C. and G. L., assignors to Yager Sheet Metal
 Company, Oakland, Calif. Louver ventilator. 1,640,588;
 Aug. 30.
 Yager Sheet Metal Company. (See Yager, Ralph C. and
 G. L., assignors.)
 Yakesh, George J., Bloomer, Wis. Inclination indicator.
 1,622,752; Mar. 29.
 Yakubovich, Maryann, White Haven, Pa. Plow support.
 1,630,997; May 31.
 Yale, Charles E., Santa Monica, Calif. Key-holding de-
 vice. 1,623,224; Apr. 5.
 Yale & Towne Manufacturing Company, The. (See
 Brauning, Karl A., assignor.)
 Yale & Towne Manufacturing Company, The. (See Jack-
 son, Arthur C., assignor.)
 Yale & Towne Manufacturing Company, The. (See
 Ledlin, Charles, assignor.)
 Yale & Towne Manufacturing Company, The. (See
 Maxwell, Maxwell C., assignor.)
 Yale & Towne Manufacturing Company, The. (See Pot-
 ter, Robert S., assignor.)
 Yale & Towne Manufacturing Company, The. (See
 Richter, Paul C., assignor.)
 Yale & Towne Manufacturing Company. (See Schroeder,
 Charles S., assignor.)
 Yamakishi, Tomoji, Bellevue, Wash. Nail magazine.
 1,633,154; June 21.
 Yamamoto, Tadaoki, Takata-Machi, and Masataro Ka-
 warada, Nippori-cho, Japan. Induction synchronous
 motor. 1,617,092; Feb. 8.
 Yancey, Arthur, New Orleans, La. Making and setting
 one-piece gaskets. 1,633,386; Aug. 9.
 Yancey, Arthur, New Orleans, La. Preserving gasket.
 1,644,457; Oct. 4.
 Yancey, Arthur, New Orleans, La. Tumbler cap and
 closure. 1,644,458; Oct. 4.
 Yancey, Samuel H., Philadelphia, Pa., assignor to S. A.
 L. Allen & Co., Inc. Seed drill. 1,625,345; Apr. 19.
 Yancey, Samuel H., Rock Island, and H. S. Dickinson,
 Moline, assignors to Berry Shocker Incorporated, Chic-
 ago, Ill. Grain shocker. 1,639,478; Aug. 16.
 Yancey, Stirling R. (See Schauman, K. O., Yancey, and
 Mifsud.)
 Yancey, Virgil L. (See Yancey, William O. and V. L.)
 Yancey, William O., Chicago, Ill. Toy novelty. 1,615,924;
 Feb. 1.
 Yancey, William O., Chicago, Ill. Toy novelty. 1,615,925;
 Feb. 1.
 Yancey, William O. and V. L., Chicago, Ill. Gauging
 attachment for hair clippers. 1,649,999; Nov. 22.
 Yankee Lock Corporation. (See Halaby, Camille E., as-
 signor.)
 Yankee Lock Corporation. (See Malluk, Assad M., as-
 signor.)
 Yankelevitz, Hirsh W., Newark, N. J. Advertising and
 amusement apparatus. 1,634,765; July 5.
 Yannev, George W., assignor to The Alliance Machine
 Company, Alliance, Ohio. Beet-handling apparatus.
 1,632,574; June 14.
 Yannev, George W., and W. D. Keller, assignors to The
 Alliance Machine Company, Alliance, Ohio. Tongs.
 1,621,701; Mar. 22.
 Yankowski, George A., assignor to Kellogg Switchboard
 and Supply Company, Chicago, Ill. Condenser.
 1,633,915; June 28.
 Yanovsky, Henry, New York, N. Y. Traveling bag.
 1,651,171; Nov. 29.
 Yant, William C., Pittsburgh, Pa. R. B. Sovers, Wash-
 ington, D. C., and J. H. Hildebrand, Alameda, Calif.
 Artificial breathing atmosphere and treatment of per-
 sons exposed to abnormal pressures. 1,644,363; Oct. 4.
 Yantis, George A., Elma, Wash. Bridge-retaining de-
 vice. 1,621,702; Mar. 22.
 Yantough, Artemus M., Hope, Ark. Hatrack. 1,654,063;
 Dec. 27.
 Yard, Willis S., and E. N. Percy, Oakland, Calif. Manu-
 facturing light hydrocarbon liquids. 1,643,401;
 Sept. 27.
 Yard, Willis S., and E. N. Percy, Oakland, Calif. Gas
 cylinder. 1,649,640; Dec. 15.
 Yarder, Stanley W., Toledo, Ohio. Tool-box tray and par-
 tition therefor. 1,614,910; Jan. 18.
 Yard-O-Meter Corporation. (See Tillman, Ferdinand J.,
 assignor.)
 Yardsmore Golf Club Manufacturing Company. (See
 Yardsmore, Walter B., assignor.)
 Yaremenko, Alexander, New York, N. Y. Couch. Des.
 73,733; Oct. 25.
 Yarnall-Waring Company. (See Mart, Leon T., assignor.)
 Yarnall-Waring Company. (See Thompson, Charles H.,
 assignor.)
 Yarrington, Benson A., Grand Rapids, Mich. Filing ma-
 chine or jig saw. 1,636,729; July 26.
 Yarrow, Harold E., Glasgow, Scotland. Steam super-
 heater. 1,625,759; Apr. 19.
 Yasuda, Yoshiaki. (See Takeuchi, Masayoshi, assignor.)
 Yates-American Machine Company. (See Johnson, Wal-
 lace D., assignor.)
 Yates-American Machine Company. (See Kelly, Charles
 H., assignor.)
 Yates-American Machine Company. (See Lane, Franklin
 L., assignor.)
 Yates-American Machine Company. (See Roman, Henry,
 assignor.)
 Yates-American Machine Company. (See Williams, R. A.,
 and Biesby, assignors.)
 Yates-American Machine Company. (See Wolf, Charles,
 assignor.)
 Yates, Arthur T., Gardenville, assignor to Buffalo Forge
 Company, Buffalo, N. Y. Punching machine.
 1,650,411; Nov. 22.
 Yates, De Witt E., assignor to American Steam Pump
 Company, Battle Creek, Mich. Convertible stage cen-
 trifugal pump. 1,635,653; July 12.
 Yates, Elmer M., Regina, Saskatchewan, Canada. Cable
 splicer. 1,630,880; May 31.
 Yates, P. B., Machine Company. (See Turcott, David,
 assignor.)
 Yates, Sydney. (See Yates, Walter and S.)
 Yates, Walter and S., Swinton, near Manchester, Eng-
 land. Heat-exchanging apparatus. 1,619,776; Mar. 1.
 Yates, William B., Ventura, Calif. Harmonica. 1,637,289;
 July 26.
 Yates, William E., Morrison, Ill. Mechanical toy.
 1,617,933; Feb. 15.
 Yawman & Erbe Manufacturing Co. (See Clark, James
 R., assignor.)
 Yawman, Frederick G., Rochester, N. Y. Stepladder.
 1,649,206; Nov. 15.
 Yaxley, Ernest E., Chicago, Ill. Spring jack. 1,653,029;
 Dec. 20.
 Yaxley, Ernest E., Chicago, Ill. Connecting plug.
 1,654,278; Dec. 27.
 Yeager, Anton J. (See Taylor, T. A., and Yeager.)
 Yeager, Harry, Los Angeles, Calif. Adjustable end-
 thrust bearing. 1,653,528; Dec. 20.
 Yeager, Harry M., assignor to Fedders Manufacturing
 Company, Inc., Buffalo, N. Y. Radiator shutter.
 1,643,192; Sept. 20.
 Yeager, John E., Poyntelle, Ky. Gearing for rear axles
 of autos. 1,633,203; June 21.
 Yeager, Roy W., Des Moines, Iowa. Structural-building
 door. 1,627,000; May 3.

- Yeary, Don E. (See Yeary, Fred R. and D. E.)
- Yeary, Fred R. and D. E., Santa Ana, Calif. Oil friction brake. 1,632,425; June 14.
- Yejoff, Paul P., Seattle, Wash. Game. 1,613,974; Jan. 11.
- Yellow Coach Manufacturing Co. (See Rackham, George J., assignor.)
- Yellow Taxi Corporation, The. (See Gluck, J., and Karich, assignors.)
- Yendrich, John, Waterloo, Ontario, Canada. Burglar alarm. 1,633,468; June 21.
- Yenofkian, George, Lawrence, Mass. Writer's guide. 1,628,347; May 10.
- Yeomans Brothers Company. (See Yeomans, Charles, assignor.)
- Yeomans, Charles, assignor to Yeomans Brothers Company, Chicago, Ill. Sewage-pumping station. 1,613,007; Jan. 4.
- Yeomans, Lucien I., Chicago, Ill. Supporting rotary cylinders. 1,642,834; Sept. 20.
- Yeomans, Lucien I., Chicago, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis. Centrifugal casting of metals. 1,630,045; May 24.
- Yeomans, Lucien I., Chicago, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis. Centrifugal casting machines. 1,643,265; Sept. 20.
- Yerkes, J. (See Thompson, Burchard D., assignor.)
- Yerger, Will, West Philadelphia, Pa. Horseshoe. 1,653,488; Dec. 20.
- Yerges, Frank L., assignor of one-tenth to H. Zimmerman, Fremont, Ohio. Multiply buffer. 1,620,708; Mar. 15.
- Yerk, Henry H., and W. J. Baumberger, Davenport, assignors to Micro Machine Company, Bettendorf, Iowa. Collapsible bed. 1,628,609; Apr. 5.
- Yerkes, George B., Cornopolis, Pa., assignor to The McMyler Interstate Company, Bedford, Ohio. Stabilizer for locomotive cranes. 1,651,956; Dec. 6.
- Yermak, William, Danbury, Conn. Beet puller. 1,631,180; June 7.
- Yessalian, Alexander, assignor of one-half to S. Devrigan, Chelsea, Mass. Cigarette holder. 1,641,617; Sept. 6.
- Yevseyeff, George F., Windsor, Ontario, Canada. Shock absorber. 1,641,217; Sept. 6.
- Yingling, Frank B., Hamilton, Ohio. Friction-drive tire press. 1,646,846; Oct. 25.
- Yngve, Victor, South Orange, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry battery. 1,624,455; Apr. 12.
- Yngve, Victor, South Orange, N. J., assignor, by mesne assignments to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,626,173; Apr. 26.
- Yngve, Victor, South Orange, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry battery. 1,631,568; June 7.
- Yngve, Victor, South Orange, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,634,006; June 28.
- Yngve, Victor, South Orange, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,637,433; Aug. 2.
- Yoder, Howard D., assignor to Penberthy Injector Company, Detroit, Mich. Ejector mechanism. 1,617,093; Feb. 8.
- Yoder, Joseph D. (See Gibson, G. H., and Yoder.)
- Yoder-Morris Company, The. (See Morris, Howard I., assignor.)
- Yoder, Sam, Blackwell, Okla. Corner piece for buildings. 1,634,862; July 5.
- Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier. Des. 73,352; Aug. 23.
- Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier. Des. 73,353; Aug. 23.
- Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 73,354; Aug. 23.
- Yokel, Frank, Cleveland Ohio assignor to Markel Electric Products, Inc., Buffalo, N. Y. Husk for incandescent lamps. 73,355; Aug. 23.
- Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier loop. Des. 73,356; Aug. 23.
- Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier brace. Des. 73,357; Aug. 23.
- Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 73,418; Sept. 6.
- Yokoyama, Bunkichi, Los Angeles, Calif. Making fried rice food. 1,621,763; Mar. 22.
- Yokoyama, Masaji, Setagaya-Mura, Japan. Electrically-operated automatic winding device. 1,624,301; Apr. 12.
- Yokoyama, Masaji, Setagaya-Cho, Japan. System of unifying a group of clocks. 1,627,001; May 8.
- Yore, Martin M., West Mansfield, Ohio. Wheel cleat. 1,617,282; Feb. 8.
- York, Edgar L., Peoria, assignor to York Ironer and Appliance Company, Beardstown, Ill. Ironing machine. 1,618,400; Feb. 22.
- York Heating and Ventilating Corporation. (See Scott, Clarence E., assignor.)
- York Ironer and Appliance Company. (See York, Edgar L., assignor.)
- York Manufacturing Company. (See Bergdoll, John G., assignor.)
- York, Margaret A., New York, N. Y. Child's costumer. Des. 74,158; Dec. 27.
- York, Phineas H., Southport, Ind., assignor to Logan Co. Adjustable roller conveyor. 1,614,816; Jan. 18.
- York, Victor, Los Angeles, Calif. Flow nipple. 1,617,614; Feb. 15.
- York, Victor, Los Angeles, Calif. Long-stroke pumping apparatus. 1,624,647; Apr. 12.
- Yorke, Fred. (See Smith, C., and Yorke.)
- Yost, Arthur A., Boston, Mass. Burner. 1,652,507; Dec. 18.
- Yost, Ernest, and R. B. Holthaus, Chadron, Nebr. Automobile top and curtain structure. 1,616,294; Feb. 1.
- Yost, Henry, Kenton, Ohio. Roofing seam. 1,618,902; Feb. 22.
- Yost, Ray C. (See Burch, A., and Yost.)
- Young, A. Homer, et al. (See Jones, Leslie W., assignor.)
- Young, Arthur M. (See Sparhawk, Charles E., assignor.)
- Young, Arthur M., Brentwood, and N. W. Simpson, Bolton, England, assignors to Radio Corporation of America. Radio apparatus. 1,623,152; Apr. 5.
- Young, Arthur P., Kenilworth, England, assignor to General Electric Company. Telephone receiver. 1,628,383; May 15.
- Young, Arthur P., Kenilworth, and J. Hutt, Coventry, England, assignors to General Electric Company. Pick-up device. 1,654,203; Dec. 27.
- Young, Bernhard, Frankfurt-on-the-Main, Germany. Rotary retort. 1,636,270; July 18.
- Young, Brothens. (See Young, Lewis D., assignor.)
- Young, Cecil G., U. S. Army, Dover, N. J. Apparatus for filling containers with explosives. 1,633,656; June 28.
- Young, Charles, et al. (See Baron, John, assignor.)
- Young, Charles D., Philadelphia, Pa., assignor to Q & C Company, New York, N. Y. Guard-rail structure. 1,608,713; Dec. 5.
- Young, Charles O., Jackson Heights, N. Y., assignor to Carbide & Carbon Chemicals Corporation. Making esters from aldehydes. 1,630,593; May 31.
- Young, Charles O., Elmhurst, N. Y., and C. J. Herly, Pittsburgh, Pa., assignors to Carbide & Carbon Chemicals Corporation. Process and apparatus for conducting chemical reactions. 1,620,180; Mar. 8.
- Young, Charles W., Omaha, Nebr. Plaster reviver. 1,613,689; Jan. 11.
- Young, Charles W., and J. H. Diggett, Goodyear, Conn., assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Automatic doff latch. 1,645,083; Oct. 11.
- Young, Clarence H., Boston, Mass. Skid. 1,618,257; Feb. 22.
- Young, Clayton E. (See Myers, W. E., and Young.)
- Young, Daniel J., Tacoma, Wash. Refrigeration process and apparatus. 1,634,129; June 28.
- Young, Earl G., deceased, Decatur, Ala.; E. Young, administratrix. Piston ring. 1,617,229; Feb. 8.
- Young, Edward O., Cleveland Heights, Ohio. Individual toe expander for shoe uppers. 1,621,617; Mar. 22.
- Young, Edward T., assignor to R. Anderson and Sons Limited, Edinburgh, Scotland. Mechanical advertising and displaying apparatus. 1,651,657; Dec. 6.
- Young, Eliza, administratrix. (See Young, Earl G.)
- Young, Ernest E., Sour Lake, Tex. Relief valve for gas engines. 1,622,937; Mar. 29.
- Young, Frank A., assignor of one-half to K. S. Startup, Gas City, Ind. Power hammer. 1,647,493; Nov. 1.
- Young, Frank G., Jr., assignor of one-fourth to A. C. Messner, Chicago, Ill. Light projector. 1,642,187; Sept. 13.
- Young, Fred M., assignor to Racine Radiator Company, Racine, Wis. Assembling radiators. 1,623,327; Apr. 5.
- Young, Freddie E., Shreveport, La. Barber's clipper guard. 1,621,572; Mar. 22.
- Young, Frederick W., Safety Harbor, Fla. Casement hinge. 1,621,047; Mar. 15.
- Young, Grace G., Philadelphia, Pa. Shoe. 1,650,000; Jan. 25.
- Young, Harry C., Sutton, and H. O. Burr, Walney, England, assignors to Dunlop Tire and Rubber Corporation of America. Masticating of rubber and apparatus therefor. 1,628,869; May 17.
- Young, Harvey L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Conveyor. 1,650,971; Nov. 29.
- Young, Henry S., Wilkensburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,626,667; May 3.
- Young, Henry S., Wilkensburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Controlling apparatus for highway-crossing signals. 1,636,348; July 19.
- Young, Henry T., Darlington, S. C. Plow. 1,615,561; Jan. 25.
- Young, Herman, New York, N. Y. Kitchen-tub cover and drawer. 1,641,061; Aug. 30.
- Young, Howard A., Chicago, Ill. Water-pressure system. 1,618,258; Feb. 22.
- Young, Hugh E. (See Kushlan, M., and Young.)
- Young, Hugh E. (See Taylor, E. S., and Young.)
- Young, Jacob L., New York, N. Y. Method and apparatus for grinding surfaces. 1,630,685; May 31.
- Young, Jacob L., New York, N. Y. Apparatus for grinding gun barrels. 1,630,686; May 31.
- Young, Jacob R. (See Kerr, J. B., and Young.)

- Young, James, Kenora, Ontario, Canada. Condensation remover for steam-heated driers. 1,640,019; Aug. 23.
- Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Cellular body of asphalt and producing the same. 1,630,103; May 24.
- Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Testing apparatus for ventilators. 1,640,477; Aug. 30.
- Young, James P., Pittsburgh, Pa. Soap-measuring device. 1,643,828; Sept. 27.
- Young, James V., Russellville, assignor to The Standard Manufacturing Company, Cambridge City, Ind. Folding chair. 1,633,721; June 28.
- Young, Jean A., Millville, N. J. Cobbler's jack. 1,637,462; Aug. 2.
- Young, John, Philadelphia, Pa. Bottle. Des. 73,990; Nov. 29.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Compound lining head. 1,634,481; July 5.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Opening device for tearing strip cans. 1,646,719; Oct. 25.
- Young, John S., assignor of one-fourth to Maude L. Young and one-half to L. D. Webster, San Diego, Calif. Folding bed. 1,635,806; July 12.
- Young, John W. (See Saltnah, N. and Young.)
- Young, Joseph R., Minneapolis, Minn. Automatic aligning attachment for manifolding devices. 1,643,358; Sept. 27.
- Young, Julius, assignor to California Card Manufacturing Company, San Francisco, Calif. Easel mounting for photographs and the like. 1,624,302; Apr. 12.
- Young, Leo C. (See Taylor, A. H., and Young.)
- Young, Leo C., Washington, D. C. Radio receiving system. 1,651,658; Dec. 6.
- Young, Lewis D., assignor to Young Brothers Inc., Providence, R. I. Display box. 1,653,595; Dec. 20.
- Young, Lorin W., New York, N. Y. Table lamp. Des. 73,358; Aug. 23.
- Young, Maude L., et al. (See Young, John S., assignor.)
- Young, Nathaniel, Hickman, Ky. Fishing device. 1,624,456; Apr. 12.
- Young, Otto W., Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich. Antifriction bearing. 1,617,680; Feb. 15.
- Young, Philip E., Fairhaven, Mass., assignor to Acushnet Process Company. Toy motor boat. 1,620,709; Mar. 15.
- Young, Philip E., Fairhaven, Mass., assignor to Acushnet Process Company. Golf tee. 1,636,655; July 19.
- Young, Ralph P. (See Kramer, Henry W., assignor.)
- Young, Raymond E. (See Chandler, F. F., and Young.)
- Young, Robert W., Wilmette, Ill. Turntable tractor. 1,640,389; Aug. 30.
- Young, Samuel C., St. Joseph, La. Carburetor lock. 1,632,687; June 14.
- Young, Stephen L., Syracuse, N. Y. Leaf-spring cover or wrapper. 1,645,493; Oct. 11.
- Young, Walter H. (See Eckland, E. O., and Young.)
- Young, Wilfred S., assignor to Economy Engineering Company, Chicago, Ill. Portable stacking machine. 1,628,771; May 24.
- Young, William, Carlisle, Scotland. Motor vehicle. 1,642,221; Sept. 13.
- Young, William H., Lakeland, Fla. Toothbrush and paste holder. 1,644,049; Oct. 4.
- Young, William M. (See Schmitt, Henry J., assignor.)
- Young, William M., Harrisburg, Pa. Telephone attachment. 1,640,227; Aug. 23.
- Youngblood, David F., San Antonio, Tex. Safety locking system for jails and the like. 1,614,336; Jan. 11.
- Youngblood, David F., San Antonio, Tex. Observation and communication permitting device for jails, etc. 1,629,371; May 17.
- Youngblood, Knowles, Atlanta, Ga., assignor to Nashua Youngblood Company, Nashua, N. H. Packaging band. 1,651,172; Nov. 29.
- Youngblood, John R., New Orleans, La. Telegraph transmitter. 1,627,819; May 10.
- Youngchild, Casper E. (See Alexander, J. E., and Youngchild.)
- Youngchild, Casper E., assignor to J. E. Alexander, Port Edwards, Wis. Wire-cleaning apparatus. 1,637,769; July 26.
- Younger, E. L., & Sons. (See Younger, Ellard L., assignor.)
- Younger, Ellard L., assignor to E. L. Younger & Sons, Woodland, Calif. Dehydrator. 1,648,468; Nov. 8.
- Youngusband, James L., Chicago, Ill. Cosmetic case. 1,642,188; Sept. 13.
- Youngman, Robert H. (See Schlottner, G. K., and Youngman.)
- Youngman, Walter, Winnipeg, Manitoba, Canada. Combination scarifier and cleaner. 1,629,900; May 24.
- Youngson, Alexander C., Brooklyn, N. Y. System for preparing packages for shipment or delivery. 1,626,492; Apr. 26.
- Youngstown Pressed Steel Company. (See Curtis, Lewis E., assignor.)
- Youngstown Pressed Steel Company. (See Manofsky, John, assignor.)
- Youngstown Pressed Steel Company. (See Winter, John R., assignor.)
- Youngstown Sheet and Tube Company, The. (See Thomas, Thomas C., assignor.)
- Youngstrom, William H. (See Halverson, H. J., and Youngstrom.)
- Yount, Miles F., Beaumont, Tex. Counterweight. 1,616,100; Feb. 1.
- Yourtte, Samuel T., Deltabridge, La. Tractor. 1,616,295; Feb. 1.
- Youse, Oscar, Angola, Ind. Shock absorber. 1,650,680; Aug. 29.
- Youtsey, Floyd S. (See Dresser, C. G., and Youtsey.)
- Youtsey, Floyd S., assignor of one-half to C. D. Lukens, St. Louis, Mo. Casting method and apparatus. 1,634,482; July 5.
- Youtz, Jesse P., Rio De Janeiro, Brazil, assignor to General Electric Company. Projection lantern. 1,633,537; June 28.
- Yowell, Mark, Carlinville, Ill. Airship. 1,651,309; Nov. 29.
- Ysern y Dominguez, Vicente. (See De Los Cobos y Cerdá, F. E., and Ysern y Dominguez.)
- Ytterberg, Arle, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Testing electric machinery. 1,624,457; Apr. 12.
- Yuhasz, Andrew F., Cleveland, Ohio. Emergency bed. 1,640,743; Aug. 30.
- Yuhaz, Nathaniel A., San Francisco, Calif. Dredging. 1,636,203; July 19.
- Yungk, Edwin L. (See Mason, T. S., and Yungk.)
- Yungling, Paul, assignor to Oil Fields Specialties Company, Los Angeles, Calif. Brake-drum construction. 1,617,781; Feb. 15.
- Yutler, F. W. (See Kent, G. E., and Yutler.)
- Yuyama, Juzo, Omori, Japan, assignor to General Electric Company. Measuring volt amperes. 1,641,654; Sept. 6.
- Zabel, Charles, Corapolis, Pa. Gyrotory pan toy. 1,626,904; May 3.
- Zabel, Charles, Corapolis, Pa., assignor, by mesne assignments, to T. Zabel, Feura Bush, N. Y. Toy pile driver. 1,633,155; June 21.
- Zabel, Charles, Corapolis, assignor, by mesne assignments, to McDowell Manufacturing Company, Millville, N. J. Mechanical toy and making same. 1,641,653; Sept. 6.
- Zabel, George W., Sherman, Calif. Hinge. 1,626,372; Apr. 26.
- Zabel, George W., Sherman, Calif. Hinge clutch. 1,626,373; Apr. 26.
- Zabel, Rudolph, et al. (See Bongers, Arnold H., assignor.)
- Zabel, Tosca. (See Zabel, Charles, assignor.)
- Zabolitzky, Louis. (See Sullivan, C. E., and Zabolitzky.)
- Zabriskie, Lester C. (See Drew, P., and Zabriskie.)
- Zabriskie, William F., assignor to Gabriel Steel Company, Detroit, Mich. Metallic joint. 1,622,359; Mar. 29.
- Zäch, Johann, Munich, Germany. Water vehicle. 1,646,178; Oct. 18.
- Zachara, Ladislau, Bremerton, Wash. Electric spectacle. Re16,521; Jan. 4.
- Zacher, Franz, Schall Aktiengesellschaft, Bavaria, Germany. Apparatus for supplying electric current to vacuum tubes. 1,623,569; Apr. 5.
- Zachert, Victor. (See Dolbear, S. H., and Zachert.)
- Zachry, Walter H. (See Keener, Charles M., assignor.)
- Zachry, Henry G., Lambert, Minn. Stock waterer. 1,649,009; Nov. 15.
- Zack, Michael, Cologne-on-the-Rhine, Germany. Spout for delivering gas under pressure. 1,615,562; Jan. 25.
- Zadek, Arthur, New York, N. Y. Toy. 1,648,928; Nov. 15.
- Zademach, Erich R., New Rochelle, N. Y., assignor, by mesne assignments, to Robert Manufacturing Company, Troy, Ohio. Washing machine. 1,628,818; May 17.
- Zagelmeyer, Frank, Bay City, Mich. Automobile camp trailer. 1,650,253; Nov. 22.
- Zahn, Carl. (See Schirmacher, K., Zahn, Wilke, and Ochwat.)
- Zahn, Carl. (See Nawlsky, P., Zahn, and Saurweln.)
- Zahn, Lawrence J. (See Mitchell, J. A., and Zahn.)
- Zahn, Lawrence J., Long Island City, assignor to International Postal Supply Company, Brooklyn, N. Y. Moistening device for mailing machines. 1,629,136; May 17.
- Zahradfabrik Aktiengesellschaft. (See von Soden-Fraunhofen, Graf A., assignor.)
- Zahodiak, Victor F., Norwood, assignor of one-third to J. A. Scanlon, trustee, Cincinnati, Ohio. Internal-combustion engine. 1,644,907; Oct. 11.
- Zahodiak, Victor F., Norwood, assignor of one-third to J. A. Scanlon, trustee, Cincinnati, Ohio. Automatic rotary valve clearance regulator for internal-combustion engines. 1,644,908; Oct. 11.
- Zaidan, Hojin Rikagaku Kenkyujo. (See Ikeda, K., Isobe, and Okazawa, assignors.)
- Zalkowsky, Wladimir M., Pasadena, Calif., assignor to Standard Development Co., New York, N. Y. Internal-combustion engine. 1,648,929; Nov. 15.
- Zair Syndicate, Limited. (See Wilkinson, Samuel W., assignor.)
- Zaiss, Fred E., Los Angeles, Calif. Automatic hard-candy machine. 1,640,868; Aug. 30.
- Zaki, Joseph, Akron, Ohio. Hosiery. 1,654,064; Dec. 27.

- Zaleski, Frank, assignor to Reece Shoe Machinery Company, Boston, Mass. Sewing machine. 1,631,179; June 7.
- Zalka, Frank, Chicago, Ill. Toy. Des. 73,886; Nov. 15.
- Zalkind, Philip, New York, N. Y. Indenture. 1,640,684; May 30.
- Zalocostas, Andrienne, executrix. (See Zalocostas, Demetrius G.)
- Zalocostas, Demetrius G., deceased, by A. Zalocostas, executrix, and J. Vellisaropoulos, executor, Sydney, New South Wales, Australia. Manufacture of ferric oxide. 1,630,881; May 31.
- Zammataro, Salvatore J., Brooklyn, N. Y. Collapsible tube. 1,621,097; Mar. 15.
- Zander, Henry L., New Orleans, La. Highway culvert. 1,638,428; Aug. 9.
- Zander, Hermann, Stettin, Germany. Oil press with disintegrating means. 1,637,671; Aug. 2.
- Zander, Otto. (See Marschal, Ludwig, assignor.)
- Zander, Walter B., assignor to Schleiter & Zander, Inc., Philadelphia, Pa. Stocking. Des. 73,274; Aug. 16.
- Zander, Walter B., assignor to Schleiter & Zander, Inc., Philadelphia, Pa. Lady's hosiery. 1,650,104; Nov. 22.
- Zane, John M. (See Ewart, George F., assignor.)
- Zanellato, Marcello, Brookline, Mass. Toy bicycle. 1,647,494; Nov. 1.
- Zanicoli, Hector. (See Bossiere, C. G., and Zanicoli.)
- Zannotti, Robert C., assignor to The Roberts Brass Company, Milwaukee, Wis. Attaching means for combination faucets. 1,639,446; Aug. 16.
- Zapf, Georg, assignor to Felten & Guilleaume Carlswerk Aktiengesellschaft, Cologne-Mulheim, Germany. Protecting cables from kinking at the point where they emerge from junction boxes or casings. 1,640,744; Aug. 30.
- Zarobsky, Charles A., assignor to the Simplex Cap Company, Cleveland, Ohio. Closure. 1,627,762; May 10.
- Zarobsky, Charles A., assignor to The Simplex Cap Company, Cleveland, Ohio. Closure. 1,654,065; Dec. 27.
- Zarobsky, Charles A., assignor to The Simplex Cap Company, Cleveland, Ohio. Closure. 1,654,066; Dec. 27.
- Zartman, Charles, Los Angeles, Calif. Sight reflectors and glareshield. 1,628,704; May 17.
- Zastrow, Edgar E., Chanute, Kans. Storage-battery terminal. 1,634,280; July 5.
- Zatzerkowny, Hawryll. (See Kindrat, M. J., and Zatzerkowny.)
- Zatzerkowny, Hawryll. (See Kindrat, M. J., and Zatzerkowny.)
- Zavagno, Alfred N., San Francisco, Calif. Compass. 1,637,507; Aug. 2.
- Zawertnik, Joseph, Jr., Chicago, Ill. assignor to The Barette Company. Preparation of saturants. 1,636,271; July 19.
- Zawyrucha, John, Edmonton, Alberta, Canada. Combined comb and brush. 1,651,659; Dec. 6.
- Zbinden, Eugen, assignor to the Firm Sulzer Frères Société Anonyme, Winterthur, Switzerland. Locomotive having combined internal-combustion and electric propulsion system. 1,632,209; June 14.
- Zdanowich, Joe O., London, England. Manufacture of artificial silk or the like. 1,630,285; May 31.
- Zdrovacek, Joseph, St. Louis, Mo. Sole-fudging attachment for solecutter machines. 1,627,878; May 10.
- Zehl, Herbert H., Clerkenwell, London, England. Thermometer. 1,645,211; Oct. 11.
- Zehrat, Gustav, South Pasadena, Calif. Coffee percolator. 1,642,865; Sept. 20.
- Zebrowski, Willy, Berlin-Neukolln, Germany, assignor to General Electric Company. Tungsten arc lamp. 1,617,979; Feb. 15.
- Zecchino, Michele, Corona, N. Y. Door or window screen. 1,634,312; July 5.
- Zeh, Edmund W. (See Buffardi, Pasquale, assignor.)
- Zeh, Edmund W., Newark, N. J. Clutch-operating mechanism for power presses. 1,630,882; May 31.
- Zeh, Edmund W., Newark, N. J. Adjustable guideway. 1,653,030; Dec. 20.
- Zeh, Ludwig. (See Duisberg, W., Hentrich, and Zeh.)
- Zeh, Ludwig. (See Duisberg, W., Hentrich, Zeh, and Zehmann.)
- Zehl, Franz H. (See von Littrow, H., and Zehl.)
- Zehmann, Arthur, Rossberg-Beuthen, Germany. Sliding window. 1,633,968; June 28.
- Zehnle, George, Quincy, Ill. Clevis hook. 1,650,735; Nov. 29.
- Zeldner Economy Spring Pad Co. (See Zeldner, William A., assignor.)
- Zeldner, Hugo, Brooklyn, N. Y. Circular forming tool. 1,632,528; June 14.
- Zeldner, William A., assignor to Zeldner Economy Spring Pad Co., Inc., New York, N. Y. Pad for laundry and other machines. 1,630,459; May 31.
- Zeldner, William A., assignor to Hurlburt Research Corporation, New York, N. Y. Scissors. 1,645,035; Oct. 11.
- Zeller, Charles D., St. Paul, Minn. Christmas-tree ornament. 1,648,807; Oct. 11.
- Zeller, George E., Pittsburgh, Pa. Glass-forming machine. 1,649,641; Nov. 15.
- Zeldindhofer, Anton, sr., Vienna, Austria, assignor to Groove-Lock Co., Inc., New York, N. Y. Fastening device. 1,623,610; Apr. 5.
- Zelinger, J., Buffalo, N. Y. Automobile radiator ornament. Des. 73,548; Sept. 27.
- Zeiss, Firm of Carl. (See Bauersfeld, Walther, assignor.)
- Zeiss, Firm of Carl. (See Epstein, Otto, assignor.)
- Zeiss, Firm of Carl. (See Henker, Otto, assignor.)
- Zeiss, Firm of Carl. (See Köhler, August, assignor.)
- Zeiss, Firm of Carl. (See König, Albert, assignor.)
- Zeiss, Firm of Carl. (See Maggioro, Luigi, assignor.)
- Zeiss, Firm of Carl. (See Mechau, Robert, assignor.)
- Zeiss, Firm of Carl. (See Siedentopf, Henry, assignor.)
- Zeiss, Firm of Carl. (See Sonnefeld, August, assignor.)
- Zeiss, Firm of Carl. (See Steine, A., and Epstein, assignor.)
- Zeiss, Firm of Carl. (See Von Gruber, Otto, assignor.)
- Zeiss, Firm of Carl. (See Wandersleb, Ernst, assignor.)
- Zeitter, Jakob, Lorch, Germany. Water tower for fire-fighting purposes. 1,644,972; Oct. 11.
- Zeitung, Alpeck L., assignor to International Silver Company, Meriden, Conn. Display chest for silverware. 1,631,780; June 7.
- Zelasko, Joseph. (See Slowinski, E., and Zelasko.)
- Zelatzki, Willy, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Key circuit for tube senders. 1,646,517; Oct. 25.
- Zelowski, Alexander, Oberschöneweide, near Berlin, Germany, assignor to General Electric Company. Arrangement for transporting large transformers. 1,615,667; Jan. 25.
- Zelger, Georges E., Vincennes, assignor to Pathe Cinema, Anciens Etablissements Pathe Freres, Paris, France. Obtaining direct positives by reversal. 1,628,445; May 10.
- Zeller, George, et al. (See Gerag, George B., assignor.)
- Zeller, Jacob F., Riverside, Calif. Demountable wheel. 1,617,003; Feb. 8.
- Zeller, John C., Watford City, N. Dak. Sickle. 1,649,428; Aug. 2.
- Zeller, Joseph V. (See Hower, J. B., and Zeller.)
- Zeller, Otto, East Aurora, and C. Waldman, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Sulphur black dye. 1,630,818; May 31.
- Zellweger A.-G. (See Hammer, Willibald, assignor.)
- Zelzow, John, St. Louis, Mo. Process and apparatus for inducing germination and growth of seeds and plants. 1,625,181; Apr. 19.
- Zelov, Victor I., Rosemont, Pa. Hydraulic testing apparatus. 1,650,736; Nov. 29.
- Zelt, Elmer J., Fort Wayne, Ind., assignor to General Electric Company. Electric signal lamp. 1,618,741; Feb. 22.
- Zeman, Anton, assignor to J. Saltzman, Chicago, Ill. Pressing machine. 1,620,248; Mar. 8.
- Zengerle, Joseph W., Mount Pleasant, Mich., assignor to The Flowers Mausoleum Company, Toledo, Ohio. Mausoleum. 1,631,239; June 7.
- Zenite Metal Company. (See Whidden, Charles S., assignor.)
- Zenith Radio Corporation. (See Marks, Samuel L., assignor.)
- Zenith Thread Company. (See Petersen, Anker, assignor.)
- Zenker, Hermann, Stoglitz, near Berlin, Germany. Weaving device. 1,615,805; Jan. 25.
- Zenon Company, The. (See Wynn, John G., assignor.)
- Zent, Abram L. (See Varble, Albert B., assignor.)
- Zentner, Mathew, Oshkosh, assignor to Tella Sheet Metal Co., Oshkosh, Wis. Check draft. 1,626,174; Apr. 26.
- Zentz, James R., assignor of one-half to E. B. McCormick, Los Angeles, Calif. Catalafale. Des. 73,247; Aug. 8.
- Zeolite Engineering Co. (See Kenney, William J., assignor.)
- Zeppelinwerk Lindau Gesellschaft mit beschränkter Haftung. (See Dornier, Claudius, assignor.)
- Zeratsky, August W., and W. V. Kidder, La Crosse, Wis. Air-supply connection for carburetors. 1,644,766; Oct. 11.
- Zerbe, Karl, Milwaukee, Wis. Carcass scrubber. 1,617,002; Feb. 8.
- Zerbe, Lewis E. (See Timbs, E., and Zerbe.)
- Zerbe, Lewis E. (See Timbs, E., Zerbe and von Schlegel.)
- Zerga, Charles, Philadelphia, Pa. Shoe shank. 1,625,346; Apr. 19.
- Zerk, Oscar, now by judicial change of name Oscar Ulvresk, Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricant-receiving nipple. 1,619,454; Mar. 1.
- Zerk, Oscar, now, by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricant-dispersing apparatus. 1,645,868; Oct. 18.
- Zerk, Oscar, now by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricant-feeding nipple and the like. 1,645,889; Oct. 18.
- Zerk, Oscar, now, by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating spring bolts. 1,648,099; Nov. 8.
- Zerk, Oscar, now, by judicial change of name Oscar U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. 1,632,264; Dec. 13.
- Zerk, Oscar U. (See Zerk, Oscar.)

- Zerk, Oscar U., Detroit, Mich., assignor, by mesne assignments, to The Baskiss Manufacturing Company. Lubricating nipple. 1,619,455; Mar. 1.
- Zerk, Oscar U., Cleveland, Ohio, assignor, by mesne assignments, to The Baskiss Manufacturing Company. Lubricating apparatus. 1,632,985; June 21.
- Zerk, Oscar U., Cleveland, Ohio, assignor, by mesne assignments, to The Baskiss Manufacturing Company. Lubricating apparatus. 1,632,986; June 21.
- Zerk, Oscar U., Cleveland, Ohio, assignor, by mesne assignments, to The Baskiss Manufacturing Company. Lubricating apparatus. 1,632,987; June 21.
- Zerk, Oscar U., Newark, N. J., assignor to Baskiss Alemite Corporation, Chicago, Ill. Lubricant compressor. 1,645,890; Oct. 18.
- Zernik, Franz, Berlin, Germany. Insecticide. 1,652,339; Dec. 13.
- Zesinger, William R., South Bend, Ind. Portable track. 1,650,254; Nov. 22.
- Zesinger, William R., assignor to South Bend Watch Company, South Bend, Ind. Mainspring tester for 12 and 16 size watches. 1,624,303; Apr. 12.
- Zethmayr, Gordon J., Congress Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telecommunic. 1,612,897; Jan. 4.
- Zettlitz, Vincenz, assignor of one-half to A. Pfeifer, Rumburg, Czechoslovakia. Tanning and dyeing furs and leather. 1,649,502; Nov. 15.
- Zeun, Louis H., assignor to John B. Adt Company, Baltimore, Md. Drying apparatus. 1,629,942; May 24.
- Zeun, Louis H., assignor to John B. Adt Company, Baltimore, Md. Electrical heating unit for drying apparatus. 1,629,943; May 24.
- Zgliczynski, Stefan, Baltimore, Md. Automatic wind motor. 1,633,428; June 21.
- Zichy, Elizabeth M., New York, N. Y. Baby kit. 1,653,246; Dec. 20.
- Zickrick, Lyall, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic material and producing it. 1,632,105; June 14.
- Zidovec, August, San Rafael, Calif. Forging machine. 1,622,169; Mar. 22.
- Ziegler, Crawford, Coosada, Ala., assignor, by mesne assignments, to C. L. Norton, Cambridge, Mass. Brick-molding process and apparatus. 1,651,571; Dec. 6.
- Ziegler, Ferdinand J., Topeka, Kans. Milk strainer. 1,628,021; May 10.
- Ziegler, Fritz, Jr. (See Baldwin, Mary, assignor.)
- Ziegler, George W., Long Beach, Calif. Educational game. 1,635,734; July 1.
- Ziegler, George W., Long Beach, Calif. Educational game. 1,635,735; July 12.
- Ziegler, Marian, et al. (See Fenner, George E., assignor.)
- Ziegler, Virgil A., St. Louis, Mo. Baking pan. 1,620,710; Mar. 15.
- Ziegler, William H., Jr. (See Dart, Herbert W., assignor.)
- Zieley, John D., New York, and F. A. Rudolf, Jamaica, N. Y. Distillation of carbonaceous material. 1,617,697; Feb. 15.
- Ziembinski, Sigmund W., New York, N. Y. Broom and mop hanger. 1,618,023; Feb. 22.
- Zierdt, Conrad H., Penn. Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-track-circuit regulation. 1,613,259; Jan. 4.
- Zierdt, Conrad H., Rosedale, Penn. Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-car receiver for automatic train-control systems. 1,628,296; May 10.
- Zierdt, Conrad H., Rosedale, Penn. Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-carried receiver for automatic train control systems. 1,630,559; May 31.
- Zierdt, Conrad H., Rosedale, Penn. Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electroresponsive cell. 1,641,504; Sept. 6.
- Zierenberg, Wilhelm, Cassell, Germany. Burglar-proof picture frame. 1,648,978; Nov. 15.
- Zierlein, William (See Le Rue, E. F. and Zierlein.)
- Zieser, Waldemar. (See Günzler, E. F. and Zieser.)
- Zifferer, Lothar R., Columbia, Pa. Adjustable pipe hanger. 1,612,959; Jan. 4.
- Zifferer, Lothar R., Columbia, Pa. Spoon. 1,614,270; Jan. 11.
- Zifferer, Lothar R., Columbia, Pa. Expansion bolt. 1,625,013; Apr. 19.
- Zifferer, Lothar R., Columbia, Pa. Nutcracker. 1,626,905; May 3.
- Zilar, Luther B., Miami, Okla. Grate housing. 1,629,193; May 17.
- Zilbersher, Abraham, New York, N. Y. Snow cleaner and digger. 1,621,448; Mar. 15.
- Zilbersher, Abraham, New York, N. Y. Passenger and moving-picture advertising bus. 1,627,473; May 3.
- Zillger, Arno, Narberth, assignor to Music Master Corporation, Philadelphia, Pa. Station-recording means for radio receiving device. 1,646,471; Oct. 25.
- Zillius, Artur, Dalsbruk, Finland. Furnace for heating or melting metals. 1,643,569; Sept. 27.
- Zilliox, John, Orchard Park, N. Y. Wrench. 1,626,906; May 3.
- Zilliox, John, Orchard Park, N. Y. Wrench. 1,639,831; Aug. 23.
- Zilliox, John, assignor to Park Metalware Co., Inc., Orchard Park, N. Y. Wire connector. 1,635,200; July 12.
- Zimmer, Albert E. (See Campbell, A., and Zimmer.)
- Zimmer, Joseph, Brooklyn, N. Y. Swimming shoe. 1,626,175; Apr. 26.
- Zimmer, Meade L., Cordoba, Argentina. Rotary internal-combustion engine. 1,649,091; Nov. 15.
- Zimmer, Paul H., assignor, by mesne assignments, to Reynolds Spring Company, Jackson, Mich. Snap switch. 1,617,040; Feb. 8.
- Zimmer, Samuel. (See Whitney, George E., assignor.)
- Zimmer, Samuel B., assignor of ten per cent to E. C. Eddie, Los Angeles, Calif., and ninety per cent to P. B. Tichenor, Salt Lake City, Utah. Glazing and glazing strip. 1,628,705; May 17.
- Zimmer, Samuel B., Los Angeles, assignor of ten per cent to E. C. Eddie, South Pasadena, Calif., and ninety per cent to P. B. Tichenor, Salt Lake City, Utah. Adjustable staff mold for windows. 1,653,529; Dec. 20.
- Zimmerli, Adolph, New Brunswick, N. J., assignor to Cello Products Incorporated. Solvent-recovery apparatus. 1,613,073; Jan. 4.
- Zimmerli, William F., Akron, Ohio, and C. H. Bibb, New Brunswick, N. J., assignors to Johnson & Johnson, New Brunswick, N. J. Adhesive. 1,625,493; Apr. 26.
- Zimmerlund, John O. E., Newburgh, N. Y. Rope-fastening device. 1,613,635; Jan. 11.
- Zimmerman, Arnold W., Chicago, Ill. Folding table. 1,633,244; Dec. 24.
- Zimmerman, Arthur C. (See Wade, V. M., Zimmerman, and Heron.)
- Zimmerman, Casper, Fort Collins, Colo. Bridge. 1,616,480; Feb. 8.
- Zimmerman, Charles, and W. T. Hamner, Los Angeles, Calif. Automobile headlight dimmer. 1,652,032; Dec. 6.
- Zimmerman, Charles H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Airship nose batten. 1,623,649; Apr. 5.
- Zimmerman, Emil C., assignor to Q & C Company, New York, N. Y. Foot guard for guard rails. 1,644,048; Oct. 4.
- Zimmerman, Harry. (See Yerges, Frank L., assignor.)
- Zimmerman, Harry, Fremont, Ohio. Stitched buffing section. 1,643,690; Sept. 27.
- Zimmerman, Harry, assignor to Bar-Zim Toy Manufacturing Co., Inc., New York, N. Y. Wheeled windmill toy. 1,651,173; Nov. 29.
- Zimmerman, Harry C., Washington, D. C. Cradle lock for gun carriages. 1,619,173; Mar. 1.
- Zimmerman, Harry C., Washington, D. C. Training mechanism for gun carriages. 1,619,843; Mar. 8.
- Zimmerman, Harry C., Washington, D. C. Formation of passages between chambers. 1,620,850; Mar. 15.
- Zimmerman, Harry C., Washington, D. C. Traversing gear for guns. 1,620,851; Mar. 15.
- Zimmerman, Harry C., Washington, D. C. Crank axle for gun carriages. 1,620,852; Mar. 15.
- Zimmerman, Harry C., Washington, D. C. Control valve for recuperator mechanisms. 1,627,818; May 10.
- Zimmerman, Harry C., Washington, D. C. Cradle for gun carriages. 1,650,752; Nov. 29.
- Zimmerman, Henry, Dayton, Ohio. Toothpick. 1,654,230; Dec. 27.
- Zimmerman, Henry R., Topeka, Kans. Light-projecting device. 1,633,838; June 28.
- Zimmerman, Herman E. (See Holtom, Albert O., assignor.)
- Zimmerman, Hymen, New York, assignor to Art Cage Manufacturing Company, Inc., Brooklyn, N. Y. Bird-cage bottom. 1,651,982; Dec. 6.
- Zimmerman, Jacob, assignor to Paramount Knitting Mills, Philadelphia, Pa. Sweater. 1,651,239; Nov. 29.
- Zimmerman, Jesse M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay-operation indicator. 1,647,328; Nov. 1.
- Zimmerman, Joseph, and F. A. Glock, Dayton, Ohio. Conducting static electricity from extractors. 1,651,983; Dec. 6.
- Zimmerman, Victor, Holyoke, Mass. Ventilated hat. 1,647,030; Oct. 25.
- Zimmerman, William B. (See Bezenberger, F. K., and Zimmerman.)
- Zimmermann, Carl F., assignor to Conveyors Corporation of America, Chicago, Ill. Wash vent for ash-conveyor systems. 1,625,079; Apr. 5.
- Zimmermann, Hans J., Cleveland, assignor to E. W. Beidler, trustee, Elyria, Ohio. Electrical plug. 1,644,767; Oct. 11.
- Zimmermann & Jansen, Gesellschaft mit beschränkter Haftung. (See Rappold, Hermann, assignor.)
- Zimmermann, Oscar, Los Angeles, Calif. Educational and recording toy. 1,614,553; Jan. 18.
- Zimmermann, Otto J. (See Bollman, G. O. and Zimmermann.)
- Zimmermann, Paul G., and B. V. Korvin-Kroukovsky, Keyport, N. J., assignor, by mesne assignments, to Healey-Aeromarine Bus Company, Inc. Wing-nose radiator. 1,621,918; Mar. 22.
- Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Manufacturing quick-traverse shapers. 1,615,185; Jan. 18.
- Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Spur-hobbing machine. 1,625,580; Apr. 19.

- Zimmermann, William F., Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J. Fixed-angle helical-gear hobber. 1,625,581; Apr. 19.
- Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Simplified hobber. 1,634,130; June 28.
- Zimmermann, William F., Waverly, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Tie-tamper piston. 1,653,080; Dec. 20.
- Zimmers, Joseph B., and O. L. Herron, Chicago, Ill. Automobile inclosure structure. 1,637,367; Aug. 2.
- Zimmet, Hillel, Hamburg, Germany. Shaving brush. 1,649,052; Nov. 15.
- Zimniewicz, Anthony, New York, N. Y., assignor, by mesne assignments, to Miehle Printing Press & Manufacturing Company, Chicago, Ill. High-speed collecting cylinder. 1,643,481; Sept. 27.
- Zimniewicz, Anthony, New York, N. Y., assignor, by mesne assignments, to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-stacking mechanism. 1,643,482; Sept. 27.
- Zink, Clyde M. (See Park, William B., assignor.)
- Zink, Frederick M. (See Ebel, G. F., and Zink.)
- Zink, Norbert, Pueblo, Colo. Railway crossing. 1,627,877; May 10.
- Zinke, Alois, Graz, Austria, assignor, by mesne assignments, to F. Bensa, Genoa, Italy. Manufacturing dielectric perylene quinone. 1,642,283; Sept. 13.
- Zinke, Alois, and A. Klingler, Graz, Austria, assignors, by mesne assignments, to F. Bensa, Manufacturing dihydroperylene. 1,629,194; May 17.
- Zinn, Argus O., Los Angeles, Calif. Double-action oil-well pump. 1,620,934; Mar. 15.
- Zinn, Argus O., Los Angeles, and J. A. Bried, Oakland, Calif.; said Bried assignor to said Zinn. Apparatus for pumping oil wells. 1,643,616; Sept. 27.
- Zinn, David, New Hamburg, Ontario, Canada. Snow-plov. 1,641,723; Sept. 6.
- Zink, Manuel K., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Filter for periodic electric currents. 1,632,814; June 21.
- Zint, George, Wapakoneta, Ohio. Lawn-sprinkler bearing assembly. 1,633,879; June 28.
- Zlock, Edward J., Rockford, Ill. Method of and apparatus for finishing knitted articles. 1,623,080; Apr. 5.
- Zlock, Edward J., Rockford, Ill. Singeing apparatus. 1,644,808; Oct. 11.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Electric range. Des. 73,359; Aug. 28.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Co., Toledo, Ohio. Switch bracket. 1,629,765; May 24.
- Ziola, Henry A., assignor to The Swartzbaugh Mfg. Co., Toledo, Ohio. Electric heater. 1,630,649; May 31.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Handle latch for doors. 1,653,489; Dec. 20.
- Zip-on Mfg. Co. (See Hockmeyer, Clive E., assignor.)
- Ziringer, Roscoe C., Pittsburgh, Pa. Display rack. 1,648,528; Nov. 8.
- Zisch, George J., West Orange, N. J. Loud-speaking telephone receiver. 1,632,426; June 14.
- Ziska, George W., Chicago, Ill. Reserve light system. 1,648,571; Nov. 8.
- Zito, Joseph, Utica, N. Y. Locking device. 1,620,051; Mar. 8.
- Zitscher, Arthur, and R. Schmitt, Offenbach-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Diacetylacetyl-arylene diamine and making same. 1,634,090; June 28.
- Ziziana, Paul T., Belmar, N. J., assignor to Industrial Spray-Drying Corporation, New York, N. Y. Spray-drying apparatus. 1,634,640; July 5.
- Zobel, Benjamin J., Buffalo, N. Y. Tire rim. 1,635,105; July 5.
- Zobel, Benjamin J., Buffalo, N. Y. Tire rim. 1,640,305; Aug. 23.
- Zohel, Otto J., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical wave filter. 1,615,252; Jan. 25.
- Zohel, Otto J., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical wave filter. 1,644,004; Oct. 4.
- Zoelly, Alfred, and P. Spiess, Zurich, Switzerland. Rotor blading for rotary engines, particularly for steam turbines and gas turbines. 1,639,247; Aug. 16.
- Zoelly, Heinrich, Zurich, Switzerland. Railway vehicle. 1,623,516; Apr. 5.
- Zoelly, Heinrich, Zurich, Switzerland. Power-driven vehicle. 1,627,303; May 3.
- Zogbaum, Ferdinand, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,632,106; June 14.
- Zogbaum, Ferdinand, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,633,539; Aug. 9.
- Zogbaum, Ferdinand, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,633,081; Dec. 20.
- Zohner, Louis, Clifton, Colo. Adjustable hanger. 1,613,636; Jan. 11.
- Zoller, Orrin B., assignor to Brand & Oppenheimer, Incorporated, New York, N. Y. Slitting machine. 1,628,215; May 10.
- Zoll, Harry E., Philadelphia, Pa. Radiocabinet. Des. 73,815; Nov. 8.
- Zolleis, John G., assignor to Test-Tite Company, Philadelphia, Pa. Bathroom fixture. 1,639,248; Aug. 16.
- Zoller, Harper F., Detroit, Mich. Preserved egg and process therefor. 1,643,913; Sept. 27.
- Zoller, Harper F., assignor to Arctic Dairy Products Company, Detroit, Mich. Food compound. 1,645,786; Oct. 18.
- Zoller, Harper F., assignor to Arctic Dairy Products Company, Detroit, Mich. Food compound and making same. 1,646,228; Oct. 18.
- Zoller, Warren C., Kenosha, Wis. Cowl ventilator. 1,642,319; Sept. 13.
- Zollinger, Charles B., Sterling, Ohio. Shovel or crane. 1,635,247; Dec. 20.
- Zomnir, Joseph E. (See Ross, B. C., and Zomnir.)
- Zomnir, Joseph R., Springfield, Mass., assignor to The Diamond Match Company, Chicago, Ill. Machine for making card matches. 1,649,642; Nov. 15.
- Zook, Samuel K., Lancaster, Pa. Jewelry. 1,624,458; Apr. 12.
- Zore, Anton, Adamsthal, near Brunn, Czechoslovakia. Device for testing pipes. 1,613,150; Jan. 4.
- Zorger, William H., Champaign, Ill. Reflector for headlights for vehicles. 1,653,142; Dec. 20.
- Zouren, Desider, Montreal, Quebec, Canada, assignor of four-tenths, to M. J. Sakacs, Brooklyn, N. Y. Automatic electric time switch. 1,619,777; Mar. 1.
- Zorn, Walter M., East Cleveland, Ohio. Making concentrated fruit juice. 1,636,890; July 26.
- Zostas, Mathew P., Worcester, Mass. Combination furniture. 1,645,529; Nov. 8.
- Zotoli, Anthony M., Quincy, Mass. Paving block. 1,619,844; Mar. 8.
- Zouck, George H., Orange, N. J., assignor to Franklin Railway Supply Company. Exhaust and separator system for locomotives. 1,632,107; June 14.
- Zouck, George H., Orange, N. J., assignor to Franklin Railway Supply Company. Flexible joint and connection. 1,648,930; Nov. 15.
- Zoufal, Frank, Cicero, assignor of one-half to W. P. Pondelicek, Berwyn, Ill. Hinge. 1,633,916; June 28.
- Zouri Drawn Metals Company. (See Nelson, Charles G., assignor.)
- Zowie Manufacturing Company. (See Sewoster, Henry J., assignor.)
- Zsoldos, Julius, Brooklyn, N. Y., assignor, by mesne assignments, to Automat Equipment Corporation. Vending machine. 1,635,451; July 12.
- Zsoldos, Julius, Brooklyn, N. Y., assignor, by mesne assignments, to Automat Equipment Corporation. Vending machine. 1,635,452; July 12.
- Zsoldos, Julius, Brooklyn, N. Y., assignor to Automat Equipment Corporation. Coin-controlled liquid-vending machine. 1,639,679; Aug. 23.
- Zubaty, Joseph, Flint, Mich. Brake. 1,638,904; Aug. 16.
- Zuber, Emil C., et al. (See Zuber, Herman, assignor.)
- Zuber, Gottlieb, et al. (See Zuber, Herman, assignor.)
- Zuber, Herman, Murphysboro, Ill., assignor of one-third to E. C. Zuber, St. Louis, and one-third to E. C. Zuber, Bowling Green, Mo. Milk-bottle cap. 1,614,094; Jan. 11.
- Zublin, John A., Los Angeles, Calif. Packing structure. 1,613,862; Jan. 11.
- Zublin, John A., Los Angeles, Calif. Underreaming impact drill. 1,613,863; Jan. 11.
- Zublin, John A., Los Angeles, Calif. Reciprocating pump. 1,625,182; Apr. 19.
- Zublin, John A., Los Angeles, Calif. Pump plunger. 1,633,058; June 21.
- Zubrow, Hedwig, and E. Solomon, Philadelphia, Pa. Vase containing air for vehicle tires. 1,631,067; June 7.
- Zubrow, Simon, Philadelphia, Pa. Badge or like article. Des. 72,509; Apr. 19.
- Zucco, Pierre. (See de Lambert, Léonce, assignor.)
- Zucco, Pierre, San Francisco, Calif. Tunnel construction. 1,642,709; Sept. 20.
- Zuck, Joseph, Rochester, N. Y. Garment construction. 1,620,853; Mar. 15.
- Zucker, Benjamin, New York, N. Y. Chock brake. 1,619,845; Mar. 8.
- Zuckerman, Adolph M., assignor to R. Hoe & Co., Inc., New York, N. Y. Intaglio printing machine. 1,629,137; Mar. 17.
- Zuckerman, Adolph M., assignor to R. Hoe & Co., Inc., New York, N. Y. Associating and delivery mechanism. 1,637,170; July 26.
- Zuckerman, Adolph M., assignor, by mesne assignments, to R. Hoe & Co., Inc., New York, N. Y. Sheet feeding and associating mechanism. 1,650,923; Nov. 29.
- Zuckerman, Roscoe C., Stockton, Calif. Sacking apparatus for potato harvesters. 1,639,832; Aug. 23.
- Zuckerman, Roscoe C., Stockton, Calif. Gathering mechanism for onion harvesters. 1,642,287; Sept. 13.
- Zuckerman, Roscoe C., Stockton, Calif. Device for separating notatoes from floatable foreign matter. 1,643,596; Sept. 27.
- Zuehlke, Fred H., Davenport, Wash. Harrow. 1,627,002; May 3.
- Zukor, Arnold, New York, N. Y. Door fastener. 1,636,947; Dec. 26.
- Zu Löwenstein, Karl P., Berlin, Germany. Device for drilling or chiseling away rock. 1,622,890; Mar. 29.

Zumwalt, Joseph C., Clay Center, Nebr. Disk sharpener. 1,642,004; Sept. 13.
 Zur, Anton, Chicago, Ill. Window latch. 1,653,143; Dec. 20.
 Zuschlag, Theodor, assignor, to The Taumac Corporation, New York, N. Y. Investigating the nature of subterranean strata. 1,652,227; Dec. 13.
 Zusan, Charles E. (See Wade, V. M., and Zusan.)
 Zutavern, Philipp. (See Schmidt, K. F., and Zutavern.)
 Zuyderhoudt, Fanny. (See Zuyderhoudt, Pierre C.)
 Zuyderhoudt, Pierre C., deceased, Brussels, Belgium; F. Zuyderhoudt, executrix. Retort oven for low-temperature carbonization. 1,636,975; July 26.
 Zverina, Alexander F., Pittsburg, Pa. Heater. 1,648,600; Nov. 8.
 Zweig, Joseph, Brooklyn, N. Y. Lighting fixture. Des. 72,538; Apr. 26.
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Table torchère or analogous article. Des. 73,421; Sept. 6.
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Table lamp or analogous article. Des. 73,422; Sept. 6.
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lamp or analogous article. Des. 73,423; Sept. 6.

Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Combined platform, lamp, and incense burner or smoking stands or similar articles. Des. 73,463; Sept. 13.
 Zwiebel, Carl. (See Jones, R. G., and Zwiebel.)
 Zwierzina, Alois J. (See Ackerman, E. L., and Zwierzina.)
 Zworykin, Vladimir K., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless transmitting system. 1,634,390; July 5.
 Zworykin, Vladimir K., assignor to C & C Developing Company, Kansas City, Mo. Thermocouple. 1,643,734; Sept. 27.
 Zwoyer, Ellsworth B. A., Perth Amboy, N. J., assignor to The General Fuel Briquette Corporation, New York, N. Y. Process and apparatus for briquetting. 1,614,095; Jan. 11.
 Zwoyer, Ellsworth B. A., Perth Amboy, N. J., assignor to The General Fuel Briquette Corporation, New York, N. Y. Briquetting method. 1,627,222; May 3.
 Zwoyer, Ellsworth B. A., Perth Amboy, N. J., assignor to The General Fuel Briquette Corp., New York, N. Y. Carbonizing fuel briquettes. 1,632,052; June 14.
 Zygmunt, Conrad, North Milwaukee, assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,648,251; Nov. 8.
 Zyloware Corporation, Inc. (See Shyer, Joseph, assignor.)

ALPHABETICAL LIST OF DISCLAIMERS.

Abell, Rollin, Boston, Mass. Disclaimer filed by the assignee, Fannie Shaffer and Margaret N. P. Colburn. Carburetor. No. 1,158,359; disclaimer filed Oct. 14, 1927; v. 364; p. 7.
 Ahlers, Robert H., and Earl M. Polk, Dayton, Ohio. Disclaimer filed by the patentees, assignee by mesne assignments, Delco-Remy Corporation, consenting. Apparatus for making armatures No. 1,556,891; disclaimer filed Oct. 13, 1927; v. 364; p. 8.
 Albee, William H., Marlboro, Mass. Disclaimer filed by the patentee, assignee, B. A. Corbin & Son Company, consenting. Heel base and process of making same. No. 1,553,301; disclaimer filed Mar. 12, 1927; v. 356; p. 988.
 Andersen, Anders H., Poughkeepsie, N. Y. Disclaimer filed by the patentee. Class ring. Des. No. 69,930; disclaimer filed May 6, 1927; v. 358; p. 814; and Des. No. 70,047; filed May 6, 1927; v. 358; p. 814. (Two cases.)
 Anibal, Benjamin H., Detroit, Mich. Disclaimer filed by the assignee, The Studebaker Corporation. Instrument panel. No. 1,585,036; disclaimer filed Nov. 19, 1927; v. 365; p. 1.
 Barrett, Glenn J., Grand Rapids, Mich. Disclaimer filed by the assignee by mesne assignments, Remington Typewriter Company. Typewriting and computing machine. No. 1,227,236; disclaimer filed Apr. 21, 1927; v. 358; p. 814; and 1,459,814; filed Apr. 21, 1927; v. 358; p. 814. (Two cases.)
 Benson, Bernhart A., Chicago, Ill. Disclaimer filed by the patentee, assignee by mesne assignments, Chicago, Electric Manufacturing Company, consenting. Bracket for lamps. No. 1,551,533; disclaimer filed Apr. 7, 1927; v. 357; p. 536.
 Bethel, Claude, Wilkingsburg, Pa. Disclaimer filed by the patentee, assignee, Westinghouse Electric & Manufacturing Company, consenting. Flexible gear. No. 1,602,298; disclaimer filed July 19, 1927; v. 361; p. 210.
 Colman, Howard D., Rockford, Ill. Disclaimer filed by the assignee, Barber-Colman Company. Machine for operating upon warps. No. 1,442,776; disclaimer filed Sept. 2, 1927; v. 362; p. 450.
 Ebeling, August, Berlin-Schöneberg, Germany. Disclaimer filed by the assignee, Siemens & Halske Aktiengesellschaft, Telegraphy. No. 1,499,646; disclaimer filed Oct. 21, 1927; v. 364; p. 254.
 Ellis, Carleton, Montclair, N. J. Disclaimer filed by the assignee by mesne assignments, Standard Development Company. Making motor fuel. No. 1,318,061; disclaimer filed May 12, 1927; v. 358; p. 814.
 Folberth, William M., Cleveland, Ohio. Disclaimer filed by the assignee by mesne assignments, Trico Products Corporation. Windshield-cleaning apparatus. No. 1,405,773; disclaimer filed Nov. 28, 1927; v. 365; p. 233.
 Gibson, George Herbert, Montclair, N. J. Disclaimer filed by the patentee, Flow-proportioning apparatus. No. 1,537,044; disclaimer filed Aug. 5, 1927; v. 361; p. 894; and 1,166,758; filed Aug. 5, 1927; v. 361; p. 659. (Two cases.)
 Goodrum, Charles L., New York, N. Y., and John E. Reynolds, Greenwich, Conn. Disclaimer filed by the patentees, assignee, Western Electric Company, Incorporated, consenting. Telephone system. No. 1,515,735; disclaimer filed Feb. 8, 1927; v. 356; p. 1.

Gullborg, Arthur V., Chicago, Ill. Disclaimer filed by the assignee by mesne assignments, The Bassick Manufacturing Company. Lubricating means. No. 1,307,734; disclaimer filed Aug. 29, 1927; v. 361; p. 235.
 Hofmann, Fritz, Elberfeld, and Kurt Gottlieb, Vohwinkel, near Elberfeld, Germany. Disclaimer filed by the assignee, The Grasselli Chemical Co. Caoutchouc substance and vulcanization product thereof. No. 1,149,580; disclaimer filed Feb. 11, 1927; v. 356; p. 1.
 Horwitz, Paul H., Brooklyn, N. Y. Disclaimer filed by the assignee, Independent Paper Mills Inc. Sheet of folded material. No. 1,501,662; disclaimer filed June 24, 1927; v. 360; p. 437.
 Houghton, Carl R., and John T. Wilkin, Connerville, Ind. Disclaimer filed by the assignee, Connerville Blower Company. Meter. No. 1,528,728; disclaimer filed June 20, 1927; v. 360; p. 259; and 1,528,728; filed July 18, 1927; v. 361; p. 1. (Two cases.)
 Jacobsen, Emil, Chicago, Ill. Disclaimer filed by the assignee, Automatic Electric Inc. Automatic telephone system. No. 1,580,252; disclaimer filed May 12, 1927; v. 358; p. 1052.
 Jensen, Louis, Chicago, Ill. Disclaimer filed by patentee, assignee, United Autographic Recorder, consenting. Autographic register. No. 1,560,474; disclaimer filed Mar. 30, 1927; v. 357; p. 536; and 1,560,475; filed Mar. 30, 1927; v. 357; p. 536. (Two cases.)
 Kauch, Robert, and Charles L. Paulus, Dayton, Ohio. Disclaimer filed by the patentees. Ring sight for firearms. No. 1,517,363; disclaimer filed Sept. 27, 1927; v. 363; p. 988.
 Lanphere, Clive W., New York, N. Y. Disclaimer filed by the patentee. Universal jimmyproof are bolt lock. No. 1,525,303; disclaimer filed Oct. 18, 1927; v. 364; p. 254; 1,543,930; filed Oct. 18, 1927; v. 364; p. 254; 1,584,950; filed Oct. 5, 1927; v. 363; p. 691; and 1,621,549; filed Oct. 18, 1927; v. 364; p. 254. (Four cases.)
 O'Connor, John F., Chicago, Ill. Disclaimer filed by the assignee by mesne assignments, W. H. Miner, Inc. Friction shock-absorbing mechanism. No. 1,620,678; disclaimer filed July 2, 1927; v. 361; p. 210.
 Peirce, Willis M., and Edmund A. Anderson, Palmetton, Pa. Disclaimer filed by the assignee, The New Jersey Zinc Company. Die-casting metal. No. 1,599,761; disclaimer filed May 20, 1927; v. 359; p. 6.
 Polinkowsky, Lipsa, Antwerp, Belgium. Disclaimer filed by the patentee, assignee, Western Electric Company, Incorporated, consenting. Automatic Telephone-exchange system. No. 1,541,388; disclaimer filed Aug. 30, 1927; v. 362; p. 236.
 Powell, Albert C., New York, N. Y. Disclaimer filed by the patentee, assignee, Western Electric Company, Incorporated, consenting. Telephone-exchange system. No. 1,577,076; disclaimer filed Apr. 14, 1927; v. 359; p. 1051.
 Powell, Winfred T., Chicago, Ill. Disclaimer filed by the assignee by mesne assignments, Automatic Electric Inc. Telephone-exchange system. No. 1,308,553; disclaimer filed Apr. 15, 1927; v. 358; p. 5.
 Pray, Thomas E., and George Bodin, Chicago, Ill. Disclaimer filed by patentee, assignee, Goodman Manufacturing Company, consenting. Mining machine. No. 1,600,245; disclaimer filed Jan. 29, 1927; v. 355; p. 183.
 Read, Charles Percy, Chicago, Ill. Disclaimer filed by the assignee, Simmons Company. Machine for placing springs in casings. No. 1,218,314; disclaimer filed Dec. 5, 1927; v. 364; p. 655.

- Rogers, John F., Cleveland Heights, Ohio. Disclaimer filed by the assignee, The Wellman-Seaver-Morgan Company. Gas producer. No. 1,572,041; disclaimer filed Mar. 21, 1927; v. 357; p. 1.
- Rose, Charles E., East Moline, Ill. Disclaimer filed by the assignee by mesne assignments, Moline Plow Company, Incorporated. Tractor attachment. No. 1,472,888; disclaimer filed May 25, 1927; v. 360; p. 745.
- Russakov, Jacob I., Chicago, Ill. Disclaimer filed by the patentee. Receptacle cover. No. 1,458,955; disclaimers filed June 6, 1927; v. 359; p. 497; and 1,511,426; filed June 6, 1927; v. 359; p. 497. (Two cases.)
- Schurr, Charles H., Cleveland, Ohio. Disclaimer filed by the assignee, The Lees-Bradner Company. Indexing mechanism. No. 1,467,985; disclaimer filed Oct. 12, 1927; v. 364; p. 8.
- Seyer, Joseph, Hawthorne, N. J. Disclaimer filed by the assignee, Standard Silk Dyeing Company. Washable dyed silk piece goods and dyeing them. Reissue No. 16,016; disclaimer filed June 2, 1927; v. 359; p. 497.
- Shiple, Stanley D., and Guy C. Given, Stamford, Conn. Disclaimer filed by the assignee, Atlas Powder Company. Lacquer and lacquer enamel. No. 1,533,616; disclaimer filed Feb. 24, 1927; v. 356; p. 495.
- Soubier, Leonard D., Toledo, Ohio. Disclaimer filed by the assignee, The Owens Bottle Company. Glass feeder. No. 1,614,936; disclaimer filed Apr. 2, 1927; v. 357; p. 536.
- Sparks, William, Jackson, Mich. Disclaimer filed by the assignee by mesne assignments, Stewart Warner Speedometer Corporation. Liquid-feeding device. No. 1,466,387; disclaimer filed June 16, 1927; v. 360; p. 259.
- Stenhouse, Thomas, and David Stenhouse, Washington, Pa. Disclaimer filed by the assignee, Hazel-Atlas Glass Company. Safety mechanism. No. 1,564,497; disclaimer filed Jan. 10, 1927; v. 355; p. 1.
- Stewart, Franklin W., Chicago, Ill. Disclaimer filed by the patentee. Means for locking automobiles against theft. No. 1,541,773; disclaimer filed Oct. 7, 1927; v. 363; p. 691.
- Sundback, Gideon, Meadville, Pa. Disclaimer filed by the assignee, Hookless Fastener Company. Separable-fastener slider. No. 1,802,606; disclaimer filed Aug. 4, 1927; v. 361; p. 425.
- Teetor, Martin, Des Moines, Iowa. Disclaimer filed by the assignee by mesne assignments, Lincoln Accounting Machines Company. Calculating machine. No. 1,344,191; disclaimer filed Oct. 31, 1927; v. 364; p. 780.
- Torchio, Philip, New York, N. Y. Disclaimer filed by the assignee, Thomas E. Murray. Protective device for electric-cable joints. No. 1,172,322; disclaimer filed Feb. 11, 1927; v. 356; p. 1.
- Van Meter, Solomon L., Jr., Lexington, Ky. Disclaimer filed by the patentee. Aviatory life buoy. No. 1,192,479; disclaimer filed Oct. 15, 1927; v. 364; p. 7.
- Wadsworth, George H., Akron, Ohio. Disclaimer filed by patentee. Tire-spreading device. No. 1,589,274; disclaimer filed June 14, 1927; v. 359; p. 744.
- Wahl, Leo J., Sterling, Ill. Disclaimer filed by the patentee. Clipper. No. 1,487,189; disclaimer filed Aug. 29, 1927; v. 362; p. 235.
- Warren, George E., Swampscott, Mass. Cushion heel. Disclaimer filed by the assignee, United Shoe Machinery Corporation. No. 1,564,158; disclaimer filed Dec. 16, 1927; v. 354; p. 6.
- Weiss, Morris L., Brooklyn, N. Y. Disclaimer filed by the assignee, Dovan Chemical Corporation, patentee assenting. Vulcanization accelerator. No. 1,411,231; disclaimer filed Aug. 9, 1927; v. 361; p. 894.
- Wilkin, John T., Connorsville, Ind. Disclaimer filed by the assignee, Connorsville Blower Company. Gas meter. No. 1,487,042; disclaimer filed June 20, 1927; v. 360; p. 259.
- Wright, David C., Euclid, and Philip V. Tippet, Cuyahoga Falls, Ohio. Disclaimer filed by the patentee. Electric controller. No. 1,559,832; disclaimer filed Nov. 26, 1927; v. 365; p. 233.
- Zeh, Edward A., Passaic, N. J. Disclaimer filed by patentee. Display globe. Des. No. 71,847; disclaimer filed June 11, 1927; v. 359; p. 744.

ALPHABETICAL LIST OF INVENTIONS

A battery trickle charger and B supply, Combined. D. R. Lovejoy. 1,623,628; Apr. 5.
 Abdominal support. J. M. Bodensiek. 1,652,160; Dec. 13.
 Abdominal support. C. H. Hittenberger. 1,619,513; Mar. 1.
 Abdominal support and brassière, Combination. H. Friedland. 1,652,197; Dec. 13.
 Abdominal support and protector. C. Volkert, jr. 1,642,279; Sept. 13.
 Abdominal supporter. W. T. Buckner. 1,629,067; May 17.
 Abdominal supporter. J. M. Coon. 1,629,203; May 17.
 Abdominoscope. R. T. Evans. 1,621,159; Mar. 15.
 Abrading apparatus. J. Whalen. 1,641,361; Sept. 6.
 Abrading machine. J. Gouldbourn. 1,619,021; Mar. 1.
 Abrasive and applying same to continuous grinding systems. Apparatus for grading. H. K. Hitchcock. 1,629,602; May 24.
 Abrasive article. M. L. Hartmann. 1,615,271; Jan. 25.
 Abrasive article and manufacturing the same. L. H. Milligan and C. H. Quick. 1,635,981; July 12.
 Abrasive compound. J. F. Werder. 1,623,222; Apr. 5.
 Abrasive fabric and flexing the same. J. P. Seymour. 1,647,475; Nov. 1.
 Abrasive material. Sheet. H. Joseph. Re16,535; Jan. 11.
 Abrasive material. Sheet. H. Joseph. 1,614,613; Jan. 18.
 Abrasive sheet material. G. E. Behr, jr. 1,645,037; Oct. 11.
 Abrasive-supplying means. H. W. Hill. 1,619,344; Mar. 1.
 Abrasive to plate-glass-grinding mechanism. Apparatus for applying. G. W. Oakes. 1,618,063; Feb. 15.
 Abrasive tool. A. J. Hardy. 1,617,592; Feb. 15.
 Abrasive wheel, Cutting-off. C. R. King. 1,616,531; Feb. 8.
 Abrasive wheels, Multiple-groove-dressing device for. W. Owen. 1,651,225; Nov. 29.
 Absorber. J. A. Campbell. 1,643,696; Sept. 27.
 Absorption method and apparatus. E. Altenkirch. 1,615,353; Jan. 25.
 Absorption plant. C. F. Braun. 1,640,747; Aug. 30.
 Abutment, Portable. L. E. Simmons. 1,648,070; Nov. 8.
 Accelerator attachment. P. L. Hartz. 1,620,649; Mar. 15.
 Accelerator cushion. G. W. Megnin. 1,630,199; May 24.
 Accelerator, Foot. H. W. Lane. 1,629,919; May 24.
 Accelerator, Foot. J. E. Messenger. 1,629,222; May 17.
 Accelerator, Foot. J. W. Phillips. 1,628,995; May 17.
 Accelerator foot rest. H. C. Wriston. 1,614,638; Jan. 18.
 Accelerator pedal. L. J. Cole. 1,626,722; May 3.
 Accelerator pedal. F. C. Grant. 1,618,652; Feb. 22.
 Accelerometer, Recording. G. Gardner. 1,634,992; July 5.
 Accessory container for railway use. F. P. Miller. 1,620,376; Mar. 8.
 Accessory for use in connection with hair waving or curling appliances. B. M. Ray. 1,637,277; July 26.
 Accordion. R. Pancotti. Des. 72,337; Mar. 29.
 Accordion plate. J. Galleazzi. 1,636,299; July 19.
 Account system. W. M. Fredenburg. 1,630,840; May 31.
 Accounting device. C. R. Hast. 1,622,642; Mar. 29.
 Accounting machine. J. R. Peirce. 1,626,871; May 3.
 Accounting machine. L. A. Weiners. S. F. Lloyd and E. L. Reller. 1,615,806; Jan. 25.
 Accounting machines. Carrying mechanism for. J. Boyer. 1,634,068; June 28.
 Accounting system. J. B. Wilkinson. 1,642,002; Sept. 13.
 Accounting, System of accrual. L. A. Foote. 1,618,124; Feb. 15.
 Accounts. Keeping. W. Rotsted. 1,636,441; July 19.
 Acetaldehyde and aniline, Preparing a reaction product of. S. M. Cadwell. 1,627,230; May 3.
 Acetaldehyde, Producing. A. E. Craver. 1,636,952; July 26.
 Acetic anhydride, Manufacturing. R. Melngast and M. Mugdan. 1,638,701; July 26.
 Acetylaminosalicylic acid with aliphatic amines and making same. Compounds of. G. W. Raiziss and A. Proskuriakoff. 1,652,796; Dec. 13.
 Acetyl-cellulose, Dyeing and printing. H. Hoz, W. Bernoulli, and A. Link. 1,613,228; Jan. 4.
 Acetyl cellulose. Dyeing and printing. H. Hoz, W. Bernoulli, and A. Link. 1,650,275; Nov. 22.
 Acetylene generator. A. F. Girardin. 1,649,692; Nov. 15.
 Acetylene generator. A. F. Weiners. 1,648,252; Oct. 18.
 Acetylene generator. A. Messer. 1,613,184; Jan. 4.
 Acetylene generator. L. W. Stetner. 1,642,467; Sept. 13.
 Acetylene generator, Portable. W. C. Swift. 1,627,581; May 10.
 Acid accumulators. Peroxide of lead, zinc, and sulphuric. A. Micioti. 1,632,307; June 14.

Acid and its derivatives, Preparing nitro amino benzoyl o-benzoic. R. Alams, J. M. Davidson, and I. Gubelmann. 1,614,584; Jan. 18.
 Acid and its solutions, Production of arsenic. P. Askenasy and E. Elöd. 1,650,860; Nov. 29.
 Acid and making same, Barbituric. F. Boedecker. 1,622,129; Mar. 22.
 Acid and making the same, 3'-amino-4'-hydroxy-ortho-benzoyl benzoic. I. Gubelmann, H. J. Weiland, and O. Stallmann. 1,654,288; Dec. 27.
 Acid and making the same, 3'-nitro-4'-hydroxy-ortho-benzoyl benzoic. I. Gubelmann, H. J. Weiland, and O. Stallmann. 1,654,287; Dec. 27.
 Acid and making the same, Para'-amino-ortho-benzoyl-benzoic. I. Gubelmann. 1,654,290; Dec. 27.
 Acid and nitric-acid salts, Manufacturing nitric. G. Kassner. 1,616,900; Feb. 8.
 Acid and reducing same, Salt of a quinolin carboxylic. M. L. Crosby. 1,618,172; Feb. 22.
 Acid can, Plumber's. H. E. Hille. 1,621,540; Mar. 22.
 Acid chamber, Sulphuric. R. T. Maudsley. 1,627,043; May 3.
 Acid compound, Thioglycollic. E. Lyons. 1,644,258; Oct. 4.
 Acid compounds, Making sodium formate formic. E. Elöd. 1,650,984; Nov. 29.
 Acid, Concentrating dilute acetic. H. Suida. 1,624,812; Apr. 12.
 Acid, Concentration of dilute acetic. H. Suida. 1,624,810; Apr. 12.
 Acid, Concentration of evaporation of phosphoric. E. L. Larison. 1,645,137; Nov. 8.
 Acid derivative, Barbituric. E. H. Volwiler. 1,636,201; July 19.
 Acid, Distilling hydrochloric. L. C. Drefahl. 1,628,829; May 17.
 Acid esters, Manufacture of lactic. H. W. Mathieson and K. G. Blaikie. 1,650,950; Nov. 29.
 Acid, Ethyl-normal-hexyl-barbituric. A. W. Dox. 1,624,546; Apr. 12.
 Acid, Evolution of hydrocyanic. H. Lehrecke. 1,620,365; Mar. 8.
 Acid from cyanides, Evolution of hydrocyanic. H. F. Lehrecke. 1,615,637; Jan. 25.
 Acid from dilute aqueous solutions of the same, Production of concentrated acetic. H. Suida. 1,621,441; Mar. 15.
 Acid from phthalic anhydride, Producing benzoic. C. Conover. 1,645,180; Oct. 11.
 Acid from sugar containing raw materials by means of lactic acid bacteria, Producing lactic. A. Pollak. 1,624,674; Apr. 12.
 Acid from the products of combustion of sulphur or sulphurous pyrites, Obtaining liquid sulphurous. P. Jodeck. 1,649,701; Nov. 15.
 Acid, Iron, and magnesia from titaniferous ores, Recovery of titanite. P. E. Bachman. 1,618,795; Feb. 22.
 Acid, Making nitric. J. H. Shapleigh and C. A. Bigelow. 1,653,023; Dec. 20.
 Acid, Making sulphuric. W. F. Lamoreaux. 1,617,212; Feb. 8.
 Acid, Manufacture of hydrocyanic. W. Gluud. 1,622,372; Mar. 29.
 Acid, Manufacture of hydrocyanic. O. Liebknecht. 1,626,848; Nov. 8.
 Acid, Manufacture of nitric. E. L. Nellis. 1,635,949; July 12.
 Acid, Manufacture of nitric. C. Toniolo. 1,623,606; Apr. 5.
 Acid, Manufacture of sulphuric. E. L. Larison. 1,631,139; Jun. 7.
 Acid metal phosphoric and making same. H. Blumenberg, jr. 1,654,404; Dec. 27.
 Acid, Method of and apparatus for making nitric. A. Hough. 1,649,901; Nov. 22.
 Acid, Preparing para'-hydroxy-ortho-benzoyl benzoic. I. Gubelmann, H. J. Weiland, and O. Stallmann. 1,654,289; Dec. 27.
 Acid, Producing 1,8-hydroxynaphthoic. R. Herz and F. Schulte. 1,623,673; Apr. 5.
 Acid, Production of concentrated acetic. E. von Retze. 1,647,676; Nov. 1.
 Acid, Production of hydrocyanic. G. Bredig and E. Elöd. 1,627,144; May 3.
 Acid, Production of hydrocyanic. G. Bredig and E. Elöd. 1,650,735; July 5.
 Acid, Production of maleic. A. E. Craver. 1,636,857; July 26.
 Acid, Production of phosphoric. H. A. Brassert, W. H. Waggaman, and H. W. Easterwood. 1,622,082; Mar. 22.
 Acid, Production of phosphoric. W. H. Waggaman and H. W. Easterwood. 1,630,283; May 31.

- Acid, Purification of abietic. G. H. Dupont. 1,628,535; May 10.
- Acid, Purification of burned gases and for obtaining chemically pure sulphuric. M. Krafft. 1,627,977; May 10.
- Acid, Recovering hydrochloric. H. Terrisse and M. Lévy. 1,633,877; June 28.
- Acid-resisting compound. N. H. Schneider. 1,638,709; Aug. 9.
- Acid-resisting compound for the treatment of bands. N. H. Schneider. 1,649,326; Nov. 15.
- Acid sludge to provide a fuel, Treating. W. D. Kinkade and C. J. Baugh. 1,621,071; Mar. 15.
- Acid sulphuric acid ester compound of aromatic hydroxy-alkylchlorides. W. Hentrich and M. Hardtmann. 1,644,524; Oct. 4.
- Acid, Treating sludge. F. M. Rogers, F. V. Grimm, and G. L. Wendt. 1,630,074; May 24.
- Acids and other aliphatic acids, Manufacture of butyric. Le France. 1,625,732; Apr. 19.
- Acids and their salts, 3-amino-4-omega-hydroxyalkylaminophenyl arsonic. E. B. Vliet and E. H. Volwiler. 1,652,748; Dec. 13.
- Acids, Concentrating sludge. A. A. Vineyard. 1,636,724; July 26.
- Acids from ammonia liquor and other liquors, Removal of tar. H. W. Robinson and D. W. Parkes. 1,653,783; Dec. 27.
- Acids from hydrocarbons, Making fatty. W. C. H. Pataky and F. J. Nellensteijn. 1,627,452; May 3.
- Acids from oils and fats, Extracting fatty. K. F. Wilhelm. 1,616,292; Feb. 1.
- Acids, Making aryl-peri. H. D. Gibbs and E. L. Frederick. 1,677,813; Feb. 8.
- Acids, Making cellulose esters of organic. C. J. Malm. 1,645,915; Oct. 18.
- Acids, Making keto and aldo aliphatic carboxylic. A. Hüssler. 1,627,091; May 3.
- Acids, Obtaining sulpho-aromatic fatty. G. Petroff and P. Ghastakof. 1,642,565; Sept. 13.
- Acids, Preparation of aliphatic di- or poly-hydroxy-arsonic. C. J. Oechlin. 1,654,224; Dec. 27.
- Acids, Preparing halogen substituted anhydrides of the fatty. H. T. Clarke and C. J. Malm. 1,648,540; Nov. 8.
- Acids, Producing lead compounds of chromic. A. Nathanson. 1,633,948; June 25.
- Acids, Production of new N-alkylcarbazolophosphinic. A. von Weinberg and W. Schmidt. 1,648,207; Nov. 8.
- Acoustic device. H. C. Harrison. 1,613,609; Jan. 11.
- Acoustic device. C. Kyle. 1,644,387; Oct. 4.
- Acoustic device. C. R. Moore. 1,644,788; Oct. 11.
- Acoustic energy into electrical energy, Arrangement for converting. A. Meissner. 1,633,186; June 21.
- Acoustic horn. J. Macartney and A. V. Hahn. 1,625,325; Apr. 19.
- Acoustic horns, Mounting for. D. H. Moss. 1,647,462; Nov. 1.
- Acridine derivatives and making same. H. Jensch. 1,629,873; May 24.
- Activated nitrogen and of oxides of nitrogen therefrom, Production of. W. A. Bone. 1,639,584; Aug. 16.
- Active deposit, Process and apparatus for concentrating. H. B. Palmer. 1,644,350; Oct. 4.
- Acetated cellulose ethers, Making. W. H. Glover and E. Van Weyenberg. 1,613,451; Jan. 4.
- Adapter. P. Crosley, Jr. 1,627,077; May 3.
- Adding and listing machine. O. J. Sundstrand. 1,626,889; May 8.
- Adding machine. H. D. Betz. 1,644,559; Oct. 4.
- Adding machine. W. E. Dunning and J. Bachofen. 1,629,615; May 24.
- Adding machine. H. Landstedel. 1,624,104; Apr. 12.
- Adding machine. H. C. Peters. 1,646,105; Oct. 18.
- Adding machine. F. C. Rinsche. 1,635,631; July 12.
- Adding machines, Automatic shuttle-control mechanism for. B. H. Tingley. 1,625,291; Apr. 19.
- Adding machines, Check-endorsing attachment for. R. H. Gladwill and G. M. Ramsey. 1,620,642; Mar. 8.
- Adding machines, Nonprint mechanism for. H. Landstedel. 1,633,788; June 28.
- Address plate. H. C. Osborn. 1,628,630; May 10.
- Address plates, Identification means for. H. C. Osborn. 1,628,031; May 10.
- Address plates, Receptacle for. H. C. Osborn. 1,637,493; Aug. 2.
- Addressing machine. C. Chisholm. 1,627,687; May 10.
- Addressing machine. E. Heuzé-Beauregard. 1,637,938; Aug. 2.
- Addressing machine. J. A. Hult. 1,627,240; May 3.
- Addressing machine. J. E. Johnson. 1,623,542; Apr. 5.
- Addressing machine. L. H. Morse. 1,627,662; May 10.
- Addressing machine. H. C. Osborn. 1,623,205; Apr. 6.
- Addressing machine. A. L. Schultz. 1,646,220; Oct. 18.
- Addressing machine, Hand-operated. E. A. Geiger. 1,651,762; Dec. 6.
- Addressing machines, Detachable pedal connection for. E. A. Geiger, A. F. Schraegle, and H. T. Jennings. 1,648,463; Nov. 8.
- Addressing machines, Extensible pedal connection for. E. A. Geiger, A. F. Schraegle, and H. T. Jennings. 1,648,452; Nov. 8.
- Addressing machines, Listing attachment for. P. A. Gollnick. 1,639,131; Aug. 16.
- Addressing machines, Selective attachment for. E. A. Geiger, A. F. Schraegle, and H. T. Jennings. 1,625,358; Apr. 16.
- Adhesion between frictionally-engaging surfaces, Augmenting. H. Ehmsen. 1,651,766; Dec. 6.
- Adhesion of the charge during the activation of carbon, Prevention of. H. Thienemann. 1,638,070; Aug. 9.
- Acetivac. W. F. Zimmerli and C. H. Bibb. 1,626,493; Apr. 26.
- Adhesive and its manufacture. L. Fackler. 1,618,150; Feb. 15.
- Adhesive and making same. H. V. Dunham. 1,653,551; Dec. 20.
- Adhesive, Method of use. M. L. Hartmann and G. J. Easter. 1,618,222; Feb. 22.
- Adhesive compound. F. S. Malm. 1,654,297; Dec. 27.
- Adhesive lacquer or varnish composition. C. R. Bragdon. 1,639,395; Aug. 16.
- Adhesive or a similar substance, Machine for coating with. F. B. Schmitt. 1,640,219; Aug. 23.
- Adhesive paste. R. B. Smith. 1,640,136; Aug. 23.
- Adhesive plaster, System of rolling surgical. R. P. Hayden. 1,646,093; Oct. 18.
- Adhesive tape. P. Banff. 1,630,597; May 31.
- Adhesive tape, Antiseptic. P. Banff. 1,630,596; May 31.
- Adhesive tape, Device for moistening. S. Bergetson. 1,628,221; May 10.
- Adhesives. J. J. Harris. 1,631,265; June 7.
- Adjustable and foldable stand, Mortar-board. P. B. Goodwin. 1,653,764; Dec. 27.
- Adjustable bracket. R. P. Barry and C. Place. 1,618,857; Feb. 22.
- Adjustable bracket. C. J. Hass. 1,614,550; Jan. 18.
- Adjustable chair. P. B. Friedman. 1,640,494; Aug. 30.
- Adjustable chair, Vertically. E. Berninghaus. 1,651,506; Dec. 6.
- Adjustable clamp. J. Ryden and C. Gustavson. 1,642,829; Sept. 20.
- Adjustable connection. T. A. English. 1,649,951; Nov. 22.
- Adjustable hanger. L. Zohner. 1,613,636; Jan. 11.
- Adjustable hoop. M. A. Workman. 1,652,970; Dec. 18.
- Adjustable seat. A. Tichota. 1,623,818; Apr. 6.
- Adjustable wrench. G. S. Anselvy. 1,614,370; Jan. 11.
- Adjustable wrench. V. E. Paulson. 1,631,884; June 7.
- Adjusting device. L. E. Baltzley. 1,632,212; June 14.
- Adjusting device. S. W. Hyatt. 1,637,417; Aug. 2.
- Adjusting mechanism. F. K. Malocay. 1,634,718; July 7.
- Adjusting the spine, Device for. L. Schaeffer. 1,640,519; Aug. 30.
- Adsorbed material from adsorptive material, Recovering. G. Miller. 1,617,960; Feb. 15.
- Adsorbent and the product thereof, Making an. K. Ikeda, H. Isoe, and T. Okazawa. 1,630,660; May 31.
- Advancing articles, Method of and apparatus for. V. C. Huntington. 1,647,276; Sept. 6.
- Advertisement-mounting device. E. O. Castleton. 1,613,933; Jan. 11.
- Advertisements, Display case for. H. I. McCane. Dec. 72,676; May 17.
- Advertisements luminous by the opening or closing of doors, Device for rendering. V. M. Kolbe. 1,640,001; Aug. 23.
- Advertising and amusement apparatus. H. W. Yankelewitz. 1,634,765; July 5.
- Advertising and displaying apparatus, Mechanical. E. T. Young. 1,651,657; Dec. 6.
- Advertising apparatus. K. G. Östberg. 1,619,987; Mar. 8.
- Advertising apparatus. J. Klein. 1,650,630; Nov. 29.
- Advertising apparatus, Monogrammic. P. Narayan. 1,636,827; July 26.
- Advertising cabinet or the like, Depository. I. K. Rystedt. 1,622,210; Mar. 22.
- Advertising cigar cutter and lighter stand, Combined. W. L. Ewing. Dec. 73,653; Oct. 18.
- Advertising device. H. M. Arms. 1,641,468; Sept. 6.
- Advertising device. C. E. Betzler. 1,639,482; Aug. 16.
- Advertising device. I. Davidson. 1,642,671; Sept. 20.
- Advertising device. F. C. Dickson. 1,646,689; Oct. 25.
- Advertising device. G. Forde. 1,625,305; Apr. 19.
- Advertising device. C. Guymon. 1,627,505; May 3.
- Advertising device. W. W. Hamel. 1,651,597; Dec. 6.
- Advertising device. C. N. Harmon and J. P. Dames. 1,633,635; June 28.
- Advertising device. G. Hornecker. 1,653,707; Dec. 27.
- Advertising device. J. C. Johanknecht. 1,632,973; June 21.
- Advertising device. C. L. Kee. 1,645,195; Oct. 11.
- Advertising device. P. E. Klopsteg. 1,630,490; May 31.
- Advertising device. W. H. McDonald and F. E. Bessee. 1,641,684; Sept. 6.
- Advertising device. W. A. McElney. 1,618,599; Feb. 22.
- Advertising device. E. E. Nock. 1,615,020; Jan. 18.
- Advertising device. J. W. Paxson. 1,647,883; Nov. 1.
- Advertising device. H. S. Sackett. 1,620,896; Mar. 8.
- Advertising device. H. M. Schutz. 1,640,909; Aug. 30.
- Advertising device. L. W. Stonequist, C. Rottum, and A. J. Stonequist. 1,641,693; Sept. 6.
- Advertising device and reflector therefor. W. M. and C. J. Doering. 1,625,798; Apr. 26.
- Advertising device and the like. P. J. Kurten. 1,617,126; Feb. 8.

- Advertising device, Animated. W. G. Gould. 1,644,580; Oct. 4.
- Advertising device, Automaton. S. W. and O. E. Carter. 1,633,313; June 21.
- Advertising device, Floating. O. Brinkmann. 1,648,934; Nov. 15.
- Advertising device, Illuminated. E. L. Goodloe and G. E. Peniston. 1,629,607; May 24.
- Advertising device, Illuminated. W. G. Shelton. 1,634,309; July 6.
- Advertising device, Mechanical. J. T. Addeburg and L. M. Fox. 1,621,344; Mar. 15.
- Advertising device, Rotating. E. Ruegger. 1,628,432; Oct. 10.
- Advertising device, Taxi. E. Dobrowsky. 1,645,804; Oct. 18.
- Advertising display. A. J. Macy. 1,614,748; Jan. 18.
- Advertising display card. C. P. Potier. Des. 71,927; Jan. 25.
- Advertising display device. F. W. Blumie. 1,622,410; Mar. 29.
- Advertising displayer. J. Lees. 1,618,718; Feb. 22.
- Advertising machine. C. Barlow. 1,612,850; Jan. 4.
- Advertising machine. H. M. Harrison. 1,649,688; Nov. 15.
- Advertising medium. C. H. H. Desbarats. 1,622,223; Dec. 22.
- Advertising novelty. S. V. Anderson. 1,622,020; Mar. 22.
- Advertising novelty. L. R. Suggs. 1,642,906; Sept. 20.
- Advertising panel and decorative wall coverings. P. Theurich. 1,623,564; Apr. 6.
- Advertising portfolio. L. Stein. 1,625,228; Apr. 19.
- Advertising-projecting device. H. H. Walsh. 1,619,096; Mar. 1.
- Advertising projection apparatus, Automatic. A. S. Knott. 1,617,642; Feb. 15.
- Advertising sign. U. Roberts. Des. 73,580; Oct. 4.
- Advertising stand. R. W. Anderson. 1,635,394; July 12.
- Advertising stand. G. A. Sherman. 1,627,751; May 10.
- Advertising wires. J. G. Davies. 1,618,863; Feb. 22.
- Aerating liquids, Apparatus for. W. Hucks. 1,623,011; Mar. 29.
- Aerator, Cream-can. A. W. R. Schultz. 1,643,822; Sept. 27.
- Aerial. M. E. Fraser and L. Schultz. 1,639,727; Aug. 23.
- Aerial. J. D. Montelius. 1,617,023; Feb. 8.
- Aerial advertiser. J. Chvojka. 1,619,565; Mar. 1.
- Aerial advertising device. L. Azaraga. 1,652,997; Dec. 20.
- Aerial advertising, Night. L. Azaraga. 1,652,996; Dec. 20.
- Aerial and the like, Frame. P. W. Williams. 1,644,906; Jan. 11.
- Aerial, Antistatic. R. A. Weagant. 1,639,913; Aug. 23.
- Aerial, Collapsible loop. M. Mathiesen. 1,614,484; Jan. 18.
- Aerial delivery device. J. B. Davis. 1,648,759; Nov. 8.
- Aerial illuminating device. S. G. Van Derbeck and J. Cortolin. 1,635,540; June 21.
- Aerial, Loop. M. Stone. 1,613,333; Jan. 4.
- Aerial navigation. A. C. Jordanoff. 1,613,834; Jan. 11.
- Aerial objectives, Apparatus for controlling the firing against. E. Schneider. Rel. 6,734; Sept. 6.
- Aerial propeller. J. Fischer. 1,628,716; May 17.
- Aerial propeller. A. and S. A. Harper. 1,621,983; Mar. 22.
- Aerial propulsion. P. Peterson. 1,637,389; Aug. 2.
- Aerial surveying by photography. J. Boykow. 1,650,978; Nov. 29.
- Aerofoll. T. H. Birmingham. 1,613,602; Jan. 11.
- Aerofoll, Variable lift-variable resistance. W. L. Gilmore. 1,631,252; June 7.
- Aeronautical advertising device. J. J. Klapka. 1,615,947; Feb. 1.
- Aeroplane. J. Albessard. 1,627,004; May 3.
- Aeroplane. H. V. Alexander. 1,632,158; June 14.
- Aeroplane. A. Bambini. 1,631,187; June 7.
- Aeroplane. J. S. Breu. 1,628,098; May 10.
- Aeroplane. J. E. Caldwell. 1,640,645; Aug. 30.
- Aeroplane. H. Chillingworth. 1,633,342; Dec. 20.
- Aeroplane. H. S. Clark. 1,615,682; Jan. 25.
- Aeroplane. W. L. Gilmore. 1,639,029; Aug. 16.
- Aeroplane. C. E. Lykins. 1,621,019; Mar. 15.
- Aeroplane. J. B. MacFarland. 1,654,006; Dec. 27.
- Aeroplane. A. Mannick. 1,648,818; Nov. 8.
- Aeroplane. L. Marshall. 1,617,268-4; Feb. 8.
- Aeroplane. F. McElhane. 1,620,368; Mar. 8.
- Aeroplane. C. Montero. 1,636,320; July 19.
- Aeroplane. H. J. Mundell. 1,638,358; Aug. 9.
- Aeroplane. H. J. Nelson. 1,635,897; July 12.
- Aeroplane. A. D. Ray. 1,622,844; Mar. 29.
- Aeroplane. L. Reynolds. 1,631,603; June 7.
- Aeroplane. C. H. Taylor and B. Neuteboom. 1,622,242; Mar. 22.
- Aeroplane. A. Worman. 1,625,012; Apr. 19.
- Aeroplane and like aircraft having folding wings. C. R. Fahey. 1,652,618; Dec. 13.
- Aeroplane, Dirigible. J. Fox. 1,630,336; May 31.
- Aeroplane fin. H. C. A. Potez. 1,645,928; Oct. 18.
- Aeroplane fuselages, Air tunnel for. J. Miller. 1,645,612; Oct. 18.
- Aeroplane fuselages, Wall construction for. A. Nosan. 1,637,871; Aug. 2.
- Aeroplane kite. E. A. Founds. 1,620,882; Mar. 15.
- Aeroplane landing gear. H. C. Mummert. 1,622,799; Mar. 29.
- Aeroplane launching and landing apparatus. F. G. Diago. 1,625,020; Apr. 19.
- Aeroplane projectile. A. E. Henderson. 1,646,146; Oct. 18.
- Aeroplane propellers, Driving means for. A. Nosan. 1,645,154; Oct. 11.
- Aeroplane, Rotary swing or captive. R. Garvey. 1,652,474; Dec. 13.
- Aeroplane runway. A. H. Ballard. 1,645,494; Oct. 11.
- Aeroplane safety device. B. Loth. 1,646,586; Oct. 25.
- Aeroplane wing. F. E. McGrath. 1,637,954; Aug. 2.
- Aeroplane wing structure. J. V. Martin. 1,627,191; May 8.
- Aeroplane wings, Construction of. E. Dewoitine. 1,636,902; July 26.
- Aeroplanes, Adjustable propeller for. M. Glowacki. 1,649,296; Nov. 15.
- Aeroplanes, Adjustable wing structure for. A. Nosan. 1,646,153; Oct. 11.
- Aeroplanes, Aerial landing harp for. N. A. McCully. 1,627,614; May 10.
- Aeroplanes and other vehicles and its manufacture, Cooling radiator for. A. Lamblin. 1,625,665; Apr. 19.
- Aeroplanes and the like, Control of. T. F. Roberts. 1,622,198; Mar. 22.
- Aeroplanes, Apparatus for gun mounting, laying, and sighting for artillery on. E. Schneider. 1,638,962; Aug. 16.
- Aeroplanes, Auxiliary lifting arrangement for. J. W. Dundas. 1,633,006; June 21.
- Aeroplanes, Bomb dropper for. A. Noan. 1,632,414; Dec. 14.
- Aeroplanes, Engine mounting for. E. H. Van Valkenberg. 1,641,306; Sept. 6.
- Aeroplanes, Propelling device for. E. Landon. 1,642,752; Sept. 20.
- Aeroplanes, Safety attachment for. F. Beni and D. Jaruss. 1,634,442; July 5.
- Aeroplanes, Safety attachment for. H. M. Cossey. 1,617,325; Feb. 15.
- Aeroplanes, Safety device for. A. E. Fixel. 1,638,840; Aug. 16.
- Aeroplanes, Steering mechanism for. A. Nosan. 1,637,872; Aug. 2.
- Aeroplanes, Torpedo-launching means for. F. W. Hammer. 1,627,968; May 10.
- Aeroplanes, Wing or similar member for. V. E. Clark. 1,616,682; Feb. 8.
- Agents, Reactivating purifying. P. Mahler. 1,617,533; Feb. 15.
- Agglutinated masses, Fabricating. R. Bowen. 1,647,075; Oct. 25.
- Agitating, washing, liming, or tanning solutions. B. R. Baxter. 1,620,317; Mar. 8.
- Agitator. W. R. Ellis. 1,639,932; Aug. 23.
- Agitator. R. E. Minoque. 1,633,708; June 28.
- Agitator. O. B. Monahan. 1,645,614; Oct. 18.
- Agitator. S. Ramage. 1,626,297; Apr. 26.
- Agricultural drills or cultivators, Feeding of conducting tube for. C. Hunt. 1,637,416; Aug. 2.
- Agricultural implement. H. P. Corbin. 1,647,607; Nov. 1.
- Agricultural implement. W. J. Engle. 1,635,826; July 12.
- Agricultural implement. H. Ferguson. 1,637,811; Aug. 2.
- Agricultural implement. E. Gebhart. 1,649,681; Nov. 15.
- Agricultural implement. F. Glaesener. 1,626,811; May 3.
- Agricultural implement. A. Hawks. 1,646,023; Oct. 18.
- Agricultural implement. C. H. Kregel. 1,628,168; May 10.
- Agricultural implement. A. S. Krotz. 1,616,581; Feb. 8.
- Agricultural implement. G. C. Lloyd. 1,645,994; Oct. 18.
- Agricultural implement. J. A. Mills. 1,621,993; Mar. 22.
- Agricultural implement. R. B. Morrow. 1,637,424; Aug. 2.
- Agricultural implement. A. T. Peterson. 1,635,499; July 12.
- Agricultural implement. J. R. Barth. 1,642,342; Sept. 13.
- Agricultural implement. E. A. Smith and E. R. Finch. 1,623,321; Apr. 5.
- Agricultural implement. W. F. Smith. 1,634,728; July 5.
- Agricultural implement. F. J. Walling. 1,616,341; Feb. 1.
- Agricultural implements. J. Hampson. 1,629,915; May 24.
- Agricultural implements, Attachment for. E. M. Cole. 1,627,954; May 10.
- Agricultural implements, Electric traction system for. F. Remy. 1,625,744; Apr. 10.
- Agricultural instrument. C. D. Symmes. 1,631,561; June 7.
- Agricultural machine. E. Brunning. 1,615,679; Jan. 25.
- Agricultural machine. A. Dick and J. A. Dirschauer. 1,635,612; July 12.
- Agricultural machine. J. A. Eller. 1,635,206; July 12.
- Agricultural machine. J. W. Maddox. 1,643,625; Sept. 2.
- Agricultural machine. F. L. Schley and C. Ernst. 1,619,586; Mar. 1.

- Agricultural machine. T. M. Thompson. 1,636,929; July 26.
- Agricultural machines. Clod-crushing and soil-pulverizing attachment for. J. S. Sawyers. 1,651,043; Nov. 29.
- Air and separation into oxygen and nitrogen. Liquefaction of. E. G. Luenig. 1,634,076; June 28.
- Air bag. R. S. Burdette. 1,620,435; Mar. 30.
- Air bag. Sectional. R. S. Burdette. 1,628,304; May 10.
- Air bag. Sectional. H. K. Wheelock. 1,625,383; Apr. 19.
- Air-blast classifier. A. H. Stebbins. 1,624,518-19; Apr. 12.
- Air-blowing machine. Train-. J. M. Potter. 1,621,025; Mar. 15.
- Air brake. C. A. Campbell. 1,653,985; Dec. 27.
- Air-brake apparatus. M. E. Hamilton and R. R. Hopkins. 1,640,499; Aug. 30.
- Air-brake-control device. T. E. Clark and C. B. Stone. 1,640,480; Aug. 30.
- Air-brake coupling. N. A. Christensen. 1,641,919; Sept. 6.
- Air-brake equipment. Auxiliary bleed-valve actuator for. C. E. Blose. 1,638,081; Aug. 9.
- Air-brake equipment. Water trap for. C. D. Connally. 1,653,203; Dec. 20.
- Air brake of the one-lined type. F. Kasantzeff. 1,652,986; Dec. 13.
- Air brake. One-lined. F. Kasantzeff. 1,619,979; Mar. 8.
- Air-brake system. Straight and automatic. N. A. Christensen. 1,614,652; Jan. 18.
- Air-brake systems. Automatic releasing valve for. L. S. Quates. 1,638,457; Aug. 9.
- Air-break line switch. Disconnect. J. E. Sumpter. 1,652,689; Dec. 13.
- Air brush and the like. J. A. Panache. 1,638,550; Aug. 9.
- Air chuck. C. A. Norgren. 1,613,527; Jan. 4.
- Air classifier. A. H. Stebbins. 1,629,594; May 24.
- Air classifier. A. H. Stebbins. 1,650,727; Nov. 29.
- Air cleaner. F. Donaldson. 1,641,746; Sept. 6.
- Air cleaner. E. R. Huntley. 1,620,890; Mar. 15.
- Air cleaner. C. C. Manchester. 1,625,816; Apr. 26.
- Air cleaner. J. F. O'Byrne. 1,628,906; May 17.
- Air cleaner. A. Peter. 3d. 1,614,897; Jan. 18.
- Air cleaner. T. A. Reilly. 1,639,467; Aug. 16.
- Air cleaner and humidifier. J. L. Milton. 1,616,593; Feb. 8.
- Air-cleaning apparatus. F. F. Pease. 1,620,780; Mar. 15.
- Air-cleaning machine. J. C. Hoesch. 1,616,802; Feb. 8.
- Air-compression plant. Hydraulic. J. O. Boving. 1,628,025; May 10.
- Air compressor. W. E. Clark. 1,634,093; June 28.
- Air compressor. J. A. and P. H. Davey and C. L. Gaugler. 1,636,291; July 19.
- Air compressor. C. Schaefer. 1,646,795; Oct. 25.
- Air compressor. P. K. Wood. 1,616,733; Feb. 8.
- Air compressor. Cylinder. R. E. Mitton. 1,653,920; Dec. 27.
- Air compressor or pump. W. G. E. Roloff. 1,626,557; Apr. 26.
- Air condenser and coupling means therefor. Variable. J. W. Whitlock. 1,641,718; Sept. 6.
- Air conditioner. C. L. Burdick. 1,640,564; Aug. 30.
- Air-cooled engine. C. P. Brockway. 1,641,980; Sept. 13.
- Air-cooled engine. A. J. Brotz. 1,639,022; Aug. 23.
- Air-cooled engine. G. E. A. Hallett. 1,644,722; Oct. 11.
- Air-cooled engine. A. F. Masury. 1,622,388; Aug. 16.
- Air-cooled engine. E. Van Toff. 1,632,207; June 14.
- Air cooler. E. Crispin. 1,622,131; Mar. 22.
- Air cooler and humidifier. J. R. Bulmer. 1,621,766; Mar. 22.
- Air cooling and dehydrating device. W. E. Watt. 1,627,361; May 3.
- Air-cooling apparatus. A. R. Smith. 1,614,159; Jan. 11.
- Air-cooling device. J. F. Perkins. 1,616,455; Feb. 8.
- Air cooling or heating apparatus. D. Weisz. 1,635,869; July 12.
- Air-cooling system for internal-combustion engines. E. Windberger. 1,618,890; Feb. 22.
- Aircraft. S. R. Anderson. 1,647,978; Nov. 8.
- Aircraft. K. Arnstein. 1,642,005; Sept. 13.
- Aircraft. J. Roligiano. 1,652,554; Dec. 13.
- Aircraft. M. T. Brush. 1,619,100; Mar. 1.
- Aircraft. C. H. Congdon. 1,639,796; Aug. 23.
- Aircraft. F. Gaddis. 1,625,646; Apr. 19.
- Aircraft. C. S. Hall. 1,653,902; Dec. 27.
- Aircraft. H. E. Krammer. 1,627,185; May 3.
- Aircraft. F. C. Kusse, sr., and F. C. Kusse, jr. 1,653,185; Dec. 20.
- Aircraft. J. E. McCulloch. 1,653,056; Dec. 20.
- Aircraft. J. W. Silver. 1,629,843; May 24.
- Aircraft. L. B. Sperry. 1,641,700; Sept. 6.
- Aircraft. G. B. Starkweather. 1,645,779; Oct. 18.
- Aircraft, etc. Altitude gauge for use on. A. Nosan. 1,640,051; Aug. 23.
- Aircraft. Balancing system for. J. P. Tarbox. 1,644,758; Oct. 11.
- Aircraft. Bomb-dropping device for. O. J. Boos. 1,621,654; Mar. 22.
- Aircraft. Bombing gun for. G. P. Andrus. 1,636,451; July 19.
- Aircraft. Collecting device. F. M. Osborn. 1,640,007; Aug. 30.
- Aircraft. Control system for. J. H. Hammond, jr. 1,625,252; Apr. 19.
- Aircraft design. J. L. MacVicar. 1,627,856; May 10.
- Aircraft. Elastically connecting landing gear to. H. O. Short. 1,626,483; Apr. 26.
- Aircraft engine. H. E. Moorehouse. 1,627,108; May 3.
- Aircraft. Fire-extinguishing apparatus for. G. W. Burke, jr. 1,634,977; July 5.
- Aircraft. Fuselage for. C. L. Paulus and R. Kauch. 1,622,205; Mar. 22.
- Aircraft. Gearing for propelling. A. J. Rowledge. 1,654,432; Dec. 27.
- Aircraft. Gun mountings for use on. F. W. Scarf. 1,628,068; May 10.
- Aircraft. Landing and taking-off station for. W. J. Ennison. 1,637,769; Aug. 2.
- Aircraft. Laterally-controlling. F. H. Page. 1,635,687; Aug. 2.
- Aircraft. Latitude indicator for. G. P. Luckey. 1,639,229; Aug. 16.
- Aircraft. Lighter-than-. J. S. Candray. 1,626,183; Apr. 26.
- Aircraft. Lighter-than-air. C. D. Burney. 1,632,169; June 14.
- Aircraft. Lighter-than-air. B. N. Wallis. 1,630,726; May 31.
- Aircraft. Lighter-than-air. B. N. Wallis and C. D. Burney. 1,637,432; Aug. 2.
- Aircraft. Mooring dirigible. J. A. Steinmetz. 1,634,964; July 5.
- Aircraft. Mooring mast and mooring gear for lighter-than-air. C. D. Burney. 1,636,354; July 19.
- Aircraft-motor-control system. W. H. Barling. 1,641,567; Sept. 6.
- Aircraft. Pilot director for. R. Kauch and C. L. Paulus. 1,655,770; Dec. 27.
- Aircraft. Producing smoke clouds from moving. D. B. Bradner and N. E. Oglesby. 1,619,183; Mar. 1.
- Aircraft. Rigid. F. Bauer. 1,632,641; June 14.
- Aircraft. Safety attachment for. T. Douglas. 1,626,921; May 8.
- Aircraft safety device. J. Ostand. 1,630,211; May 24.
- Aircraft. Smoke luminous or other visible trails from. J. C. Savage. 1,613,134; Jan. 4.
- Aircraft. Sounding line for. H. E. Krammer. 1,651,956; Dec. 6.
- Aircraft. Stabilizer for. H. S. Steinbrecht. 1,626,567; Apr. 18.
- Aircraft. Thermal circulation system for. C. S. Hall. 1,653,849; Dec. 27.
- Aircraft. Thermal circulation system for. C. S. Hall. 1,653,904; Dec. 27.
- Aircraft variable-pitch propeller and blade mounting. A. Nosan. 1,623,549; Apr. 5.
- Aircraft wing. C. S. Hall. 1,653,903; Dec. 27.
- Aircraft. Wing structure for. A. Tammeo. 1,628,625; May 10.
- Aircraft with swinging wings. A. Ehrlich. 1,622,629; Mar. 29.
- Air currents. Apparatus for generating, controlling, and utilizing. E. Curtl. 1,629,437; May 17.
- Air deflector. W. H. Rose. 1,650,237; Nov. 22.
- Air engine. J. M. Dapron. 1,625,457; Apr. 19.
- Air-filter drive. J. E. Bolling. 1,638,141; Aug. 9.
- Air-filter drive. E. Szekely. 1,638,067; Aug. 9.
- Air Filter for purifying the. H. Wittmeier. 1,632,813; June 21.
- Air from steam-condensing systems. Apparatus for removing. A. E. Broughton. 1,633,472; June 21.
- Air gas. Making. H. Foersterling. 1,624,046; Apr. 12.
- Air gas. Making. H. Foersterling. 1,635,988; July 19.
- Air gauge. F. G. Johnson. 1,636,566; July 19.
- Air gauge. F. Stickel. 1,613,582; Jan. 4.
- Air heater. J. R. Dickes. E. O. Harris, and T. A. Warner. 1,638,187; Aug. 9.
- Air heater. D. S. Jacobus. 1,647,997; Nov. 8.
- Air heater. E. J. H. Solomon. 1,648,511; Nov. 8.
- Air heater. R. E. Wiltis. 1,650,920; Nov. 29.
- Air heater. Direct. W. B. Croan. 1,644,180; Oct. 4.
- Air heater. Electric. O. A. Colby. 1,615,683; Jan. 25.
- Air heater. Electric. W. W. Hicks. Des. 73,743; Nov. 1.
- Air heater. Radiant. O. A. Colby. 1,614,230; Jan. 11.
- Air-heating furnace. L. Burmester and A. Munroe. 1,651,668; Dec. 6.
- Air hose. Reinforced. A. S. Richardson. 1,635,957; July 12.
- Air inlet and mixing device for motor vehicles. Auxiliary. T. D. McDonald. 1,648,358; Nov. 8.
- Air-inspiring plant. Hydraulic. J. O. Boving. 1,628,026; May 10.
- Air liberator. Warm-. H. C. Hehle, jr. 1,644,920; Oct. 11.
- Air lifts. Automatic control for. C. C. Jacobson. 1,620,210; Mar. 8.
- Air lock. J. H. Murphy and E. A. Lotz. 1,636,572; July 19.
- Air machines. Lubricator for compressed. L. P. Marcell. 1,615,594; Jan. 25.
- Air moistener. C. Grab. 1,643,844; Sept. 27.
- Air moistener. C. E. Sallada. 1,621,436; Mar. 15.
- Air and cleaning device. H. J. Schmitt. 1,626,159; Apr. 26.
- Air-moistening device. G. C. Prenzel. 1,620,738; Mar. 15.
- Air motor. E. N. Tuckey. 1,626,313-14; Apr. 26.
- Air motor. L. Wernicke. 1,628,867; May 17.
- Air-motor. B. Ensch. 1,624,568; Nov. 15.
- Air-operated device. H. Slater. 1,624,018; Apr. 12.
- Air or gas compressor. A. G. Enock. 1,652,978; Dec. 13.
- Air or gas preheater. Regenerative. F. Ljungström. 1,654,294; Dec. 27.

- Air, other gaseous mixture by liquefaction and fec-
 tification. Separation of the elements of. J. Le Rouge.
 1,638,005; Aug. 2.
 Airplane. G. Figlietti. 1,633,889; June 28.
 Airplane. C. W. Hall. 1,647,619; Nov. 1.
 Airplane. R. F. Hall. 1,650,349; Nov. 22.
 Airplane. J. M. Miller. 1,650,954; Nov. 29.
 Airplane. G. Steenstra. 1,644,453; Oct. 4.
 Airplane. C. H. Taylor and B. E. Neuteboom. 1,622,241;
 Mar. 22.
 Airplane. J. G. Vincent. 1,632,862; June 21.
 Airplane. H. Wiese. 1,633,719; June 28.
 Airplane, Amphibian. G. C. Loening. 1,617,816; Feb. 15.
 Airplane and helicopter, Combined. W. L. Thomas.
 1,620,187; Mar. 18.
 Airplane and other aircraft body. A. Black. 1,625,701;
 Apr. 19.
 Airplane body, Freight. A. Black. 1,625,700; Apr. 19.
 Airplane checker. D. B. Finlay. 1,628,134; May 10.
 Airplane construction. M. Syracuse. 1,637,398; Aug. 2.
 Airplane engine throttle, Altitude control for. F. C.
 Spill. J. Gustafson, and M. E. Chandler. 1,635,492;
 July 12.
 Airplane fuselage. H. C. Mummert. 1,645,964; Oct. 18.
 Airplane helicopter control. F. O. Ellerman. 1,622,138;
 Mar. 22.
 Airplane parts, Method of and apparatus for determining
 the shapes of. O. L. O. Benard. 1,615,063; Jan. 18.
 Airplane stop. C. F. Jenkins. 1,634,904; July 5.
 Airplane view finder. A. W. Stevens. 1,622,125; Mar. 22.
 Airplane wing construction. J. E. Griffin. 1,630,938;
 May 31.
 Airplane wing construction. B. D. Thomas. 1,625,634;
 Apr. 19.
 Airplanes, Brake for. C. B. Hull. 1,641,760; Sept. 6.
 Airplanes, Electrical generating apparatus for. G. A.
 Wilson. 1,634,167; June 28.
 Airplanes from and upon suspended positions, Device for
 launching and landing. R. Simon. 1,624,188; Apr. 12.
 Airplanes, Landing and taking-off station for. W. J.
 Ennisson. 1,618,278; Feb. 22.
 Airplanes, Method and device for the increase of floating
 stability of. A. Rohrbach. 1,619,374; Mar. 1.
 Airplanes, Wing construction for. J. Wenger. 1,628,940;
 May 17.
 Airplanes, Wing construction for metal. A. Rohrbach.
 1,619,372; Mar. 1.
 Air-pressure brake, Single-chamber. J. Rihosek and R.
 L. Leuchter. 1,640,905; Aug. 30.
 Air-pressure device for controlling. J. C. Hagey.
 1,648,807; Nov. 8.
 Air-pressure equalizer, Automatic. C. D. Jarvis.
 1,651,773; Dec. 6.
 Air-pressure regulator. E. M. Morley. 1,632,618;
 June 14.
 Air propeller-driven craft, Counterpropeller for. R. Wagne-
 r. 1,646,507; Oct. 25.
 Air protective shield, Compressed. B. O. Patrick.
 1,630,105; Oct. 18.
 Air purifier or humidifier and radiator vent valve, Com-
 bined. A. Bauer. 1,624,774; Apr. 12.
 Air-purifying apparatus. A. Nosan. 1,637,873; Aug. 2.
 Air-purifying device. B. F. Jancke. 1,637,448; Aug. 2.
 Air register. A. H. Bixby. 1,651,348; Nov. 29.
 Air register. E. H. Peabody. 1,639,059; Nov. 16.
 Air sanding device. R. M. Taylor. 1,640,258; Aug. 23.
 Air separator. R. H. Kingdon. 1,652,309; Dec. 13.
 Air separator. T. J. Sturtevant. 1,615,558; Jan. 25.
 Air-service device. A. Penn. 1,618,953; Feb. 22.
 Airship. H. T. Avery. 1,615,002; Jan. 18.
 Airship. F. E. d'Humy. 1,641,323-4; Sept. 6.
 Airship. D. Doncheff. 1,623,860; Apr. 5.
 Airship. L. Dürr. 1,620,449; Mar. 8.
 Airship. A. E. Henderson. 1,645,237; Oct. 11.
 Airship. K. Hürttle. 1,642,026; Sept. 13.
 Airship. S. Richardsen. 1,638,961; Aug. 16.
 Airship. P. Schröder. 1,653,603; Dec. 20.
 Airship. T. B. Slate. 1,642,270; Sept. 13.
 Airship. M. Yowell. 1,632,309; Nov. 19.
 Airship anchorage. W. Auberlin. 1,629,197; May 17.
 Airship and making the same buoyant. F. G. Birchard.
 1,624,917; Apr. 19.
 Airship, Dirigible. W. Lemon. 1,625,951; Apr. 26.
 Airship frame. K. Arnstein. 1,623,951; Apr. 5.
 Airship, Gas-inflated. H. Baumeister, W. E. Dörr, and K.
 Büchele. 1,623,653; Apr. 5.
 Airship, Gas-inflated. K. Hürttle. 1,637,774; Aug. 2.
 Airship mooring drum. R. M. Getchell. 1,622,139;
 Mar. 22.
 Airship nose batten. C. H. Zimmerman. 1,623,649;
 Apr. 5.
 Airship, Rigid. K. Arnstein. 1,631,908; June 7.
 Airship, Rigid. O. Geisler. 1,642,727; Sept. 20.
 Airship, Rigid. P. Helma. 1,642,042; Sept. 13.
 Airship, Sheds, aerodynamic hangars, and the like, Doors for.
 A. R. F. Smith. 1,644,255; Oct. 4.
 Airship with structural compensating surfaces. K. Arn-
 stein. 1,614,519; Jan. 18.
 Airships, Auxiliary device for assembling. L. Dürr.
 1,651,764; Dec. 6.
 Airships, Ballast recoverer for. H. R. Liebert and W.
 Fischer. 1,645,065; Oct. 11.
 Airships, Condenser for. P. Schröder. 1,653,604;
 Dec. 20.
 Airships, Controlling device for ballast containers in.
 E. Hillardt. 1,620,462; Mar. 8.
 Airships, Device for ground transportation of. B.
 Schnitzer. 1,637,789; Aug. 2.
 Airships, Fin and rudder of. L. Dürr. 1,651,755;
 Dec. 6.
 Airships from moorings and device therefor. Launching.
 W. V. N. Powelson and W. Travell. 1,648,423; Nov. 19.
 Airships, Gas cell of rigid. K. Siller. 1,631,895; June 7.
 Airships, Gas-cell protection for. L. Dürr. 1,623,663;
 Apr. 5.
 Airships, Gas valve for. K. Stahl and K. Siller.
 1,635,195; July 12.
 Airships, Hull construction of rigid. K. Arnstein.
 1,623,507; Mar. 8.
 Airships, Outer cover on rigid. K. Hürttle. 1,623,680-1;
 Apr. 5.
 Airships over water, Equipment for mooring and berth-
 ing. W. V. N. Powelson and W. Travell. 1,648,423;
 Nov. 8.
 Airships, Parachute escape for. G. H. Drabenstott.
 1,626,796; May 13.
 Airships, Power plant for. R. Liebert and W. Fischer.
 1,643,038; Sept. 13.
 Airships, Propelling, lifting, and steering device for.
 A. Chiarelli. 1,620,618; Mar. 8.
 Airships, Stabilizing apparatus for rigid. K. Arnstein.
 1,623,952; Apr. 5.
 Air-speed indicator. E. M. Fales. 1,646,903; Oct. 25.
 Air-speed indicator, True. W. F. Gerhardt. 1,653,700;
 Dec. 27.
 Air spring. B. B. Holmes. 1,640,898; Aug. 30.
 Air-suction crinkling apparatus. K. Wandel. 1,630,319;
 May 31.
 Air supply, Apparatus for regulating. J. H. Reineke.
 1,645,850; Oct. 11.
 Air-synking apparatus, Cold. R. Rodriguez. 1,632,680;
 June 24.
 Air tank. H. F. Hoewel. 1,648,455; Nov. 8.
 Air tank. G. Shoup. 1,613,059; Jan. 4.
 Air-tempering device. T. G. Hamilton. 1,617,050;
 Feb. 8.
 Air transferer. J. C. Wright. 1,652,337; Dec. 13.
 Air-tolerance dust reducer. A. H. Stebbins. 1,620,241;
 Mar. 8.
 Air writing with searchlight beams. W. W. Mitkewich.
 1,638,051; Aug. 9.
 Aisle light. G. H. Hamilton. 1,650,347; Nov. 22.
 Ajutage. A. P. Plant. 1,625,867; Apr. 26.
 Alarm See—
 Audible alarm. Low-water alarm.
 Automatic alarm. Noise-making alarm.
 Burglar alarm. Temperature alarm.
 Door alarm. Theft alarm.
 Drip-pan alarm. Thermostatic alarm.
 Fire alarm. Tire alarm.
 Hold-up alarm. Water-column alarm.
 Low-metal alarm.
 Alarm. C. A. Blackburn. 1,648,870; Sept. 27.
 Alarm. S. Poulos. 1,628,908; May 17.
 Alarm. F. E. Thorpe. 1,615,148; Jan. 18.
 Alarm and detector, Fire. H. Pradas. 1,644,949; Oct. 11.
 Alarm box, Combined manual night-watch fire. W. S.
 Rowley, Jr. 1,622,457; Mar. 29.
 Alarm circuit, operated by microphone. T. C. Adams.
 1,643,759; Sept. 27.
 Alarm-clock switch. J. G. Goodhue and H. J. Sauvage.
 1,643,843; Sept. 27.
 Alarm device. E. T. Siegerdt. 1,630,808; May 31.
 Alarm device, Antitheft. J. Nawarynski. 1,653,778;
 Dec. 27.
 Alarm device for indicating high and low liquid level.
 A. Butler. 1,617,101; Feb. 8.
 Alarm gauge. B. R. Faunce. 1,642,413; Sept. 13.
 Alarm gauge. B. R. Faunce. 1,642,434; Sept

- Alcohol, Esters of normal-amyl. R. H. Van Schaack, 1,646,128; Oct. 18.
- Alcohols, Manufacture of. R. B. MacMullin and R. E. Gegenheimer, 1,641,544; Sept. 6.
- Aldehyde condensation product and making same. A. Gams and G. Widmer, 1,654,215; Dec. 27.
- Aldehyde derivatives of reaction products of aldehydes and amines and making same, Higher. C. O. North, 1,619,953; Mar. 8.
- Aldehyde reaction products of the aldehyde derivative of a Schiff's base, Manufacture of. C. O. North, 1,639,957; Aug. 23.
- Aldehyde resins, Improving. W. O. Hurrmann, H. H. Kutsch, and W. H. Ehrlich, 1,643,496; Sept. 27.
- Aldoses, Oxidation of. A. Stoll and W. Kussmaul, 1,648,368; Nov. 8.
- Algin compounds and products produced derived therefrom, Producing. B. F. Erdahl, 1,625,301; Apr. 19.
- Alimentary product. C. S. Miner and O. C. Stanger, 1,649,123; Nov. 15.
- Alimentary products, Device for forming. W. D. Bleier, 1,621,454; Mar. 15.
- Alkali cellulose, Drying. P. C. Seel, 1,635,012; July 5.
- Alkali compounds, Manufacturing effervescent. W. F. Fife, 1,616,687; Feb. 8.
- Alkali-metal sulphates, Manufacture of. W. Hirschkind, 1,636,229; July 19.
- Alkali-metal cyanide solutions containing sulphides, Purifying. K. Herdragen, 1,633,485; June 21.
- Alkali-metal sulphates, Producing. E. E. Naef, 1,656,106; July 19.
- Alkaline potassium compounds, Manufacture of. W. Siegel, 1,636,710; July 26.
- Alkalinized waste liquor from the soda cellulose manufacture, Dry distillation of. E. L. Kinnman, 1,638,061; Aug. 9.
- Alkyl carbonates, Manufacture of. H. G. Mitchell, 1,638,014; Aug. 9.
- Alkyl compound of lead, Producing. G. Calingaert, 1,622,233; Mar. 22.
- Alkyl-nitroaryl ethers, Making. L. S. Pratt, E. H. Weltz, and W. L. Mills, 1,619,368; Mar. 1.
- Alkyl resorcinol, A. B. L. Dohme, 1,649,687; Nov. 15.
- Alkyl sulphates, Making. R. H. McKee, 1,641,005; Aug. 30.
- Alloy. P. H. Brace, 1,649,094; Nov. 15.
- Alloy. C. S. Bralnin, 1,624,857; Apr. 12.
- Alloy. J. N. Early, 1,622,576; Mar. 29.
- Alloy. V. Fener, 1,626,925; May 3.
- Alloy. C. A. Geatty, 1,644,425; Oct. 4.
- Alloy. W. S. Ireland, 1,626,038; Apr. 26.
- Alloy. L. Jordan and G. W. Quick, 1,638,855; Aug. 16.
- Alloy. E. Kiam, 1,653,630; Dec. 27.
- Alloy. C. A. Kraus and C. Callis, 1,628,050; May 10.
- Alloy. F. E. Lucas, 1,628,990; May 17.
- Alloy. P. D. Merica and J. S. Vanick, 1,626,248; Apr. 26.
- Alloy. W. E. Ruder, 1,633,826; June 28.
- Alloy. E. J. Shackelford, W. B. D. Penniman, and J. R. Cain, 1,622,977; Mar. 29.
- Alloy. G. C. Smith, 1,634,343; July 5.
- Alloy, Acid or sea-water resisting. T. M. Diven, sr., 1,652,301; Dec. 13.
- Alloy and making same, Nickel-copper. W. F. Cochrane, 1,614,878; Jan. 18.
- Alloy and making same, Silver. W. L. Mitchell, 1,614,752; Jan. 18.
- Alloy and making the same, Silver silicon. M. G. Korsunsky, 1,643,304; Sept. 27.
- Alloy, Corrosion-resisting. P. D. Schenck, 1,651,970; Dec. 6.
- Alloy, Erosive resistant ferrous. C. B. Jacobs, 1,647,096; Oct. 25.
- Alloy filament. A. Pacz, 1,635,055; July 5.
- Alloy for pen points. K. K. Ledig, 1,647,301; Nov. 1.
- Alloy, Heat-resisting. G. R. Brophy, 1,633,805; June 28.
- Alloy, Magnesium. J. A. Gann, 1,649,521; Nov. 15.
- Alloy, Magnetic. W. S. Smith, N. Poppelford, and H. J. Garnett, 1,622,008; Mar. 22.
- Alloy, Nickel. T. S. Fuller, 1,623,948; Apr. 5.
- Alloy or lithium and aluminum. J. Czochralski and G. Welter, 1,620,081; Mar. 8.
- Alloy, Resistance. T. C. Fuller, 1,645,099; Oct. 11.
- Alloy, Resistor. N. B. Pilling, 1,628,891; May 3.
- Alloy, Silver. R. H. Leach, 1,628,673; May 17.
- Alloy, Steel. L. M. Brown, 1,643,054; Sept. 20.
- Alloy, Steel. A. Fry, 1,649,398; Nov. 15.
- Alloy, steel. D. J. Gilles, 1,650,707; Nov. 29.
- Alloy, steel. C. M. Johnson, 1,617,334; Feb. 15.
- Alloy, Steel. W. Oertel, 1,630,448; May 31.
- Alloy, Steel. J. W. Weltzenkorn, 1,622,894; Mar. 29.
- Alloy steel and iron, Manufacture of. B. D. Saklatwalla, 1,619,462; Mar. 1.
- Alloy steel and making it. C. T. Evans, 1,639,989; Aug. 23.
- Alloy steels, Manufacture of. B. D. Saklatwalla, 1,616,303; Feb. 1.
- Alloy structure. H. M. Williams and A. L. Boegehold, 1,642,348-9; Sept. 13.
- Alloy, Wear-resisting. B. D. Field and R. Franks, 1,626,723; May 8.
- Alloys, Improving aluminum. V. Fuss, 1,631,930; June 7.
- Alloys, Lead-cadmium. W. Friedrich, 1,645,098; Oct. 11.
- Alloys, Making. J. H. L. De Bats, 1,639,330; Aug. 16.
- Alloys, making magnetic. V. B. Browne, 1,627,269; May 3.
- Alloys, Manufacture of chromium-iron. B. D. Saklatwalla, 1,623,757; Apr. 5.
- Alloys, Manufacture of very hard metallic. H. Lohmann, 1,652,027; Dec. 6.
- Alloys, Preparing low-carbon. V. B. Browne, 1,645,126; Oct. 18.
- Alloys, Separating the components of. C. G. Bossiere and H. Zanicoli, 1,642,574; Sept. 13.
- Alpha rays, Demonstrating and visualizing the track of. C. T. Knipp, 1,617,397; Feb. 15.
- Allocating current, Apparatus for controlling the frequency of. A. H. Nyquist, 1,647,192; Nov. 1.
- Alternating-current machines, Excitation of. D. C. Prince, 1,618,725; Feb. 22.
- Alternating currents, Method and apparatus for the rectification of. C. G. Smith, 1,617,171; Feb. 8.
- Alternator, High-frequency. J. Bethened and E. Girardeau, 1,645,517; Oct. 18.
- Alumina coagulant. H. M. Spencer, 1,643,962; Oct. 4.
- Alumina from aluminum nitrates, Production of. B. F. Halvorsen, H. J. Falck, and Ø. Ravner, 1,652,119; Dec. 6.
- Aluminous binding material together with an iron alloy, Producing a hydraulic. L. de Lambert, 1,628,872; May 17.
- Aluminum alloy containing lithium. J. Czochralski, 1,620,082; Mar. 8.
- Aluminum alloys, Improving. W. Guertier and W. Sandner, 1,629,699; May 24.
- Aluminum chloride, Apparatus for purifying and solidifying. C. W. Humphrey and D. S. McKittrick, 1,645,144; Oct. 11.
- Aluminum chloride, Collecting and utilizing. E. R. Wolcott, 1,647,448; Nov. 1.
- Aluminum chloride, Distilling with. A. M. McAfee, 1,636,144; July 19.
- Aluminum chloride, Making. G. L. Prichard and H. Henderson, 1,616,549; Feb. 8.
- Aluminum chloride, Manufacture of. F. W. Hall, 1,619,022; Mar. 1.
- Aluminum chloride, Manufacture of. E. R. Wolcott, 1,617,696; Feb. 15.
- Aluminum chloride, Method of and apparatus for condensing. G. L. Prichard and H. Henderson, 1,641,503; Sept. 6.
- Aluminum-chloride process. H. I. Lea and C. W. Humphrey, 1,646,732-3; Oct. 25.
- Aluminum chloride, Producing. H. Blumenberg, jr., 1,649,383; Nov. 15.
- Aluminum-chloride production. E. R. Wolcott, 1,633,835; June 28.
- Aluminum chloride, Purifying. C. W. Humphrey and D. S. McKittrick, 1,645,143; Oct. 11.
- Aluminum chloride, Solidifying. C. W. Humphrey and D. S. McKittrick, 1,645,142; Oct. 11.
- Aluminum, Compound to solder. G. E. Gall, 1,641,422; Sept. 6.
- Aluminum dross and the like, Treating. J. G. G. Frost, 1,646,009; Jan. 18.
- Aluminum from aluminum screenings and the like, Recovering. J. G. G. Frost, 1,648,263; Nov. 8.
- Aluminum from oily metallic mixtures and the like, Recovering. J. G. G. Frost, 1,646,239; Oct. 18.
- Aluminum hydroxide, Manufacturing. H. Pedersen, 1,647,005; Feb. 19.
- Aluminum, Method and composition of matter for surface treating. A. Pacz, 1,638,273; Aug. 9.
- Aluminum screenings, etc., Treating. J. G. G. Frost, 1,648,262; Nov. 8.
- Aluminum, Spot welding of. E. Lunn, 1,618,764; Feb. 22.
- Aluminum surfaces, Coating. E. H. Hewitson, 1,627,900; May 10.
- Alunite, Treating. H. H. Meyers, 1,613,238; Jan. 4.
- Alunite, Treating. T. A. Mitchell, 1,628,174; May 10.
- Aluminate, C. E. Smith, 1,631,434; June 7.
- Amalgamator. N. S. Keth, 1,627,181; May 8.
- Amalgamator and concentrator, Centrifugal. F. D. Lewis, 1,623,421; Apr. 5.
- Ambulatory repeating system. R. W. Morris, 1,624,966; Apr. 19.
- Amino-dianthrindes, Preparation of. H. M. Bunbury, 1,616,109; Feb. 1.
- Ammonia by hyperpressure, Synthesis of. G. Claude, 1,615,535; Jan. 25.
- Ammonia compressor. E. B. Terrill, 1,651,235; Nov. 29.
- Ammonia, Direct synthesis of. F. C. Reed, 1,659,272; Aug. 16.
- Ammonia from gases containing same, Recovering. R. O. E. Davis and L. B. Olmstead, 1,631,720; June 7.
- Ammonium-aluminum sulphate from aluminum-sulphate solutions containing ferric compounds, Extraction of. E. G. Gessen, 1,619,666; Mar. 1.
- Ammonium chloride and alkali-metal sulphate, Production of. O. Gerngross, 1,634,870; July 5.
- Ammonium chloride, Making. H. Howard, 1,654,125; Dec. 27.
- Ammonium fluorides, Making. J. W. Proctor, 1,642,788; Sept. 20.
- Ammonium nitrate and making same, Granular. E. M. Symmes, 1,613,334; Jan. 4.
- Ammonium nitrate, Manufacture of. H. Howard, 1,625,807; Apr. 26.

- Amusement, Method and apparatus for identifying. G. Ramsey. 1,650,908; Nov. 29.
- Amplifier. J. L. Brown. 1,646,050; Oct. 18.
- Amplifier. W. L. Carlson. 1,613,741; Jan. 11.
- Amplifier. R. H. A. Englund. 1,648,768; Nov. 8.
- Amplifier. H. M. Johnson. 1,644,191; Oct. 4.
- Amplifier. F. C. Kollath. 1,647,736; Nov. 1.
- Amplifier. J. Massolle, H. Vogt, and J. Engl. 1,630,753; May 31.
- Amplifier and self-modulator, Magnetic. J. Slepian. 1,645,301-2; Oct. 11.
- Amplifier, Audio. L. Winkelmann. 1,651,308; Nov. 29.
- Amplifier, Cabinet. H. B. Newhall and H. W. Pleister. 1,623,065; Apr. 5.
- Amplifier for electrically-disturbed telephone lines. M. Latour. 1,630,346; May 31.
- Amplifier, High-frequency alternating current. M. C. Spencer. 1,646,364; Oct. 18.
- Amplifier or enunciator. R. Linn. 1,638,942; Aug. 16.
- Amplifier, Reproducing. T. W. Case. 1,650,503; Nov. 1.
- Amplifier, Sound. J. B. Hawley. 1,641,630; Sept. 6.
- Amplifier, Sound. L. D. Morris. Dec. 72,181; Mar. 8.
- Amplifier, Sound. H. W. Pleister. 1,632,404; June 14.
- Amplifier, Thermionic. S. B. Smith. 1,622,851; Mar. 29.
- Amplifier, Voltage. T. E. Shea. 1,642,389; Sept. 13.
- Amplifiers, Stabilizing. E. H. Lange. 1,622,890; May 17.
- Amplifiers, Stabilizing. E. H. Lange. 1,646,027; Oct. 18.
- Amplifying and detecting tube. H. P. Stuart. 1,644,796; Oct. 11.
- Amplifying apparatus. L. V. Lewis. 1,636,699; July 26.
- Amplifying apparatus, Thermionic. M. C. A. Latour. 1,614,156; Jan. 15.
- Amplifying circuit. L. Espenschied. 1,647,216; Nov. 1.
- Amplifying horn, Sound-. J. B. Hawley. 1,624,242; Apr. 12.
- Amplifying system. F. C. Barton. 1,640,436; Aug. 30.
- Amplifying system. A. Crossley. 1,651,810; Dec. 6.
- Amplifying system. L. J. Perkins. 1,626,480; Apr. 26.
- Amplifying three-phase high-frequency power. G. C. Salm. 1,620,694; Mar. 15.
- Attitude of high-frequency oscillations, Controlling. H. Vogt, J. Engl, and J. Massolle. 1,628,377; May 10.
- Ampul serving as packing receptacle for surgical sewing material, Glass. R. Graf and W. Lapp. 1,643,490; Sept. 27.
- Ampulla for injection liquids comprising separated compartments. W. O. Heublein. 1,614,067; Jan. 11.
- Amusement and educational purposes, Changeable assembly set for. E. S. Savage. 1,620,574; Mar. 8.
- Amusement and protective device. K. Kohn. 1,620,561; Mar. 8.
- Amusement apparatus. F. V. Burrow. 1,621,656; Mar. 22.
- Amusement apparatus. E. M. Long. 1,619,580; Mar. 1.
- Amusement apparatus. J. D. Pontious. 1,638,751; June 28.
- Amusement apparatus. H. N. Ridgway. 1,619,988; Mar. 8.
- Amusement apparatus. G. H. Runke. 1,628,745; May 17.
- Amusement apparatus. H. G. Traver. 1,616,476; Feb. 8.
- Amusement apparatus. Y. Tsujino. 1,652,071; Dec. 6.
- Amusement apparatus. J. B. Watling. 1,618,616; Feb. 22.
- Amusement apparatus. E. K. Wood and J. Metzger. 1,628,877; Apr. 26.
- Amusement device. J. G. C. Akers. 1,654,231; Dec. 27.
- Amusement device. J. R. Anderson. 1,619,325; Mar. 1.
- Amusement device. J. N. Bartlett. 1,633,204; June 21.
- Amusement device. W. E. Callison. 1,645,370; Oct. 11.
- Amusement device. T. E. Carroll. 1,615,568; Jan. 25.
- Amusement device. G. E. Cugin. 1,636,366; July 19.
- Amusement device. H. U. Daniel. 1,629,570; May 24.
- Amusement device. J. Davidson. 1,652,875; Dec. 13.
- Amusement device. C. L. A. Diamond. 1,633,397; June 21.
- Amusement device. A. M. Dritz. 1,639,596; Aug. 16.
- Amusement device. J. A. Fisher. 1,612,970; Jan. 4.
- Amusement device. J. M. Foster. 1,616,749; Jan. 25.
- Amusement device. T. J. Free. 1,635,931; July 12.
- Amusement device. N. Hopt. 1,614,923; Jan. 15.
- Amusement device. N. Katzin. 1,616,451; Feb. 8.
- Amusement device. K. A. Mathers. 1,635,875; July 12.
- Amusement device. M. H. McMann. 1,622,877; Mar. 29.
- Amusement device. G. Melling. 1,620,375; Mar. 8.
- Amusement device. L. J. Morin. 1,637,124; July 26.
- Amusement device. J. W. Miller. 1,653,921; Dec. 27.
- Amusement device. I. Noda. 1,636,645; July 19.
- Amusement device. A. A. Payne. 1,629,808; May 24.
- Amusement device. C. F. Ramage. 1,651,292; Nov. 29.
- Amusement device. A. S. Ross. 1,622,845; Mar. 29.
- Amusement device. P. C. Smith. 1,630,098; May 24.
- Amusement device. F. Stoehrer. 1,652,840; Dec. 13.
- Amusement device. F. W. Tanaka. 1,629,981; Mar. 29.
- Amusement device. H. G. Traver. 1,651,487; Dec. 6.
- Amusement device. H. A. Williams. 1,641,213; Sept. 6.
- Amusement device, Racing. F. J. Newsbarn and J. M. Lonn. 1,636,481; July 19.
- Amusement house. H. C. Conrad. 1,629,258; May 17.
- Amusement or game device. A. Frels. 1,616,280; Feb. 1.
- Amusement ride. H. F. Maynes. 1,616,569; Mar. 8.
- Amusement rides, Drive for. H. F. Maynes. 1,627,192; May 3.
- Amusement rides, Passenger car for. H. Johnson. 1,640,038; Aug. 23.
- Anæsthetic compound. N. A. Hansen. 1,652,783; Dec. 13.
- Anæsthetic, Producing an. W. V. Goodfellow. 1,648,547; Nov. 8.
- Analysis apparatus, Gas-. R. Eisenschitz. 1,643,155; Sept. 20.
- Anamorphous images, Producing. J. K. McNeely. 1,641,184; Sept. 6.
- Anatomical restraining appliance. H. Levine. 1,623,125; Apr. 5.
- Anchor. W. J. Bauer. 1,632,529; June 14.
- Anchor. M. W. Hall. 1,636,092; July 19.
- Anchor. W. A. Heinrich. 1,643,769; Sept. 27.
- Anchor. J. A. Holzapfel. 1,618,107; Jan. 4.
- Anchor. W. O. Isaacson. 1,616,426-7; Feb. 1.
- Anchor. W. O. Isaacson. 1,649,407; Nov. 15.
- Anchor. C. W. Kucher. 1,617,528; Feb. 15.
- Anchor. C. B. Scott. 1,636,617; July 9.
- Anchor block. C. S. Betts. 1,637,210; July 26.
- Anchor block. G. F. A. Ochs. 1,634,268; July 5.
- Anchor, Bolt. J. K. Fisher. 1,649,160; Nov. 15.
- Anchor, Bolt. J. E. Goewey. 1,633,359; Dec. 20.
- Anchor, Bolt. J. E. Ogden. 1,639,231; Aug. 16.
- Anchor, Bolt. R. E. Ogden. 1,654,346; Dec. 27.
- Anchor, Bolt. R. E. Ogden and C. C. Tomkinson. 1,648,420; Nov. 8.
- Anchor, Bolt. R. E. Ogden and C. C. Tomkinson. 1,650,957-8; Nov. 29.
- Anchor, Bolt. R. E. Ogden, C. Tomkinson, and A. R. Van Tassel. 1,650,956; Nov. 29.
- Anchor, Bolt. C. C. Tomkinson. 1,648,431; Oct. 25.
- Anchor-bolt sleeve. C. N. Garber. 1,645,903; Oct. 18.
- Anchor, Brake. L. E. La Brie. 1,648,185; Nov. 8.
- Anchor, Davit. B. M. Schauman. 1,636,944; July 26.
- Anchor, Davit. B. M. Schauman. 1,640,672; Aug. 30.
- Anchor for crown blocks. L. A. Rawson. 1,642,170; Sept. 13.
- Anchor for floor sleepers. H. H. Lampert. 1,652,174; Dec. 13.
- Anchor, Ground. M. Isaacs. 1,640,504; Aug. 30.
- Anchor, Ground. J. R. Kearney. 1,620,896; Mar. 15.
- Anchor, Ground. J. R. Kearney. 1,624,871; Apr. 12.
- Anchor, Guy. F. N. Bierce. 1,644,103; Oct. 4.
- Anchor, Railway-rail. J. B. Smith. 1,647,376; Nov. 1.
- Anchor, Rail. H. P. Blum. 1,613,869; Jan. 11.
- Anchor, Rail. W. M. Osborn. 1,612,878; Jan. 25.
- Anchor, Rail. R. T. Scholes. 1,615,313; Jan. 4.
- Anchor, Rail. H. G. Warr. 1,619,902; Mar. 8.
- Anchor, Railway-rail. J. B. Smith. 1,647,376; Nov. 1.
- Anchor-shell drill, Expansion-. J. H. Phillips. 1,621,598; Mar. 22.
- Anchor, Tubing. R. B. Simons and J. Penrod. 1,626,162; Apr. 26.
- Anchorage. J. E. Ogden. 1,646,457; Oct. 25.
- Anchoring device. M. C. Lyddane. 1,637,253; May 10.
- Anchoring device. J. O. and G. Meredith. 1,628,550; May 10.
- Anchoring device. F. Michalcek. 1,629,353; May 17.
- Anchoring device. R. E. Sheal. 1,613,965; Jan. 11.
- Anchoring flange. H. C. Thiem. 1,624,121; Apr. 12.
- Anchoring means between cushioning springs and a surrounding frame. D. Hanauer. 1,638,544; June 21.
- Anchor, Tamping bar for expanding earth. J. Blackburn. 1,639,836; Aug. 23.
- Angle-cock holder. T. L. Burton. 1,636,805; July 26.
- Angle divider or bisecting bevel. J. Moreshead. 1,651,830; Dec. 6.
- Angle float. J. P. Kriegel. 1,646,649; Oct. 25.
- Angle pattern. Universal. L. Mears. 1,647,707; Nov. 1.
- Angle piece, Precision contra-. R. W. Brown. 1,621,190; Mar. 15.
- Angle split ring. M. Stringer. 1,621,961; Mar. 22.
- Angular motion, Reproducing relative. E. M. Hewlett and W. W. Willard. 1,628,463; May 10.
- Anhydrous salts of fatty acids, Making. H. van Hochstetter. 1,645,265; Oct. 11.
- Anhydrous salts of fatty acids, Making. H. von Hochstetter. 1,648,516; Nov. 8.
- Anhydrous sodium bisulphite, Production of. N. A. Laury. 1,638,492; Aug. 9.
- Animal and bird trap. D. Gonzalez. 1,633,857; June 28.
- Animal fibers, Treatment of. M. Bergmann, E. Immen-dörfer, and H. Loewe. 1,615,783; Jan. 25.
- Animal marker. F. Latagliata. 1,619,424; Mar. 1.
- Animal pens, Panel for. R. B. Loudon. 1,629,719; May 24.
- Animal traps. E. W. Pendergraft. 1,617,497; Feb. 15.
- Animal tissues and products obtained therefrom, Treating. F. W. Weber. 1,642,054; Sept. 13.
- Animal trap. E. W. Althurtis. 1,614,450; Jan. 18.
- Animal trap. H. J. Boedecker. 1,648,160; Nov. 8.
- Animal trap. B. M. Bond. 1,617,987; Feb. 15.
- Animal trap. C. W. Borg. 1,629,649; May 24.
- Animal trap. A. Brzycki. 1,645,225; Oct. 16.
- Animal trap. W. C. Bush. 1,652,606; Dec. 13.
- Animal trap. W. Catlin. 1,630,607; May 31.
- Animal trap. C. W. Coghill. 1,618,513; Feb. 22.
- Animal trap. H. S. Earle. 1,613,652; Jan. 11.
- Animal trap. D. Glasshoffer. 1,624,548; Apr. 12.
- Animal trap. Goodknight. 1,614,788; Jan. 18.
- Animal trap. H. Griffin. 1,648,765; Nov. 8.
- Animal trap. W. I. Harmon. 1,638,767; Aug. 9.
- Animal trap. T. W. Hulse. 1,625,027; Apr. 19.

- Animal trap. A. E. Johnson. 1,636,745; July 26.
 Animal trap. K. P. Kvalvik. 1,652,444; Dec. 13.
 Animal trap. M. G. Moore. 1,645,444; Oct. 11.
 Animal trap. S. Morelli. 1,630,798; May 31.
 Animal trap. E. A. Nerby. 1,620,777; Mar. 15.
 Animal trap. J. H. Peck. 1,614,595; Jan. 18.
 Animal trap. H. Robichaux. 1,618,334; Feb. 1.
 Animal trap. J. E. Ruby. 1,630,969; May 31.
 Animal trap. G. A. Samouce. 1,634,270; July 5.
 Animal trap. G. A. Samouce. 1,647,416; Nov. 1.
 Animal trap. J. E. Sapp. 1,634,688; July 5.
 Ankle brace. M. Linder. 1,624,266; Apr. 12.
 Anklet protector. C. F. Hogan. 1,634,576; July 5.
 Annealing boxes, Method of and apparatus for straightening. A. R. McArthur. 1,647,706; Nov. 1.
 Annealing copper articles. S. S. Meek. 1,617,859; Feb. 15.
 Annealing furnace, Nonoxidizing. V. E. Lane. 1,624,258; Apr. 12.
 Annealing hood, Electric. F. Bailly. 1,643,600; Sept. 27.
 Annealing machine. T. F. Bailly. 1,624,204; Apr. 12.
 Annealing or heating furnace. J. K. Coe. 1,630,784; May 31.
 Annular articles, Machine for cutting. C. R. Hubbard. 1,647,358; Nov. 1.
 Annular rings, Apparatus for covering. H. V. Lough and G. B. Mix. 1,635,187; July 12.
 Annunciator drop. C. Auth. 1,623,376; Apr. 5.
 Annunciator drop, Rotary. F. W. Wood. 1,651,238; Apr. 20.
 Antenna arrangement for short-wave apparatus. A. Esau. 1,633,775; June 28.
 Antenna array, Directive. J. S. Stone. 1,643,323; Sept. 27.
 Antenna construction. F. Orne. 1,644,268; Oct. 4.
 Antenna device. A. R. Nelson. 1,650,441; Nov. 22.
 Antenna, Loop. F. Graue. 1,615,755; Jan. 25.
 Antenna, Loop. M. W. Stavrum. Des. 72,118; Mar. 1.
 Antenna, Loop. E. Vroom. 1,642,522; Sept. 13.
 Antenna reel. K. Rottgardt. 1,637,353; Aug. 2.
 Antenna regulation, Automatic. W. W. Brown. 1,620,449; Apr. 26.
 Antenna structure. A. A. Oswald and E. L. Nelson. 1,632,039; June 14.
 Antenna-switching relay. A. Haddock. 1,647,290; Nov. 1.
 Antenna system, Automatic. J. H. Hammond, jr. 1,614,671; Jan. 18.
 Antenna system for radiocommunication, Multiple. L. Espenschied. 1,622,370; Mar. 29.
 Antenna system, Wireless. F. Conrad. 1,640,534; Aug. 30.
 Antenna, Underground. A. L. Moburg. 1,638,699; Aug. 9.
 Anthelmintic. H. Weyland. 1,616,291; Feb. 1.
 Anthraquinone derivatives, Manufacture of. W. H. Perkins. A. W. Fyfe, and M. Mendoza. 1,636,485; July 19.
 Anthraquinone nitrosamine compound. H. Tesche and J. Job. 1,643,428; Sept. 27.
 Anthraquinone paste and making the same. W. M. Grosvenor and V. P. Gershon. 1,631,589; June 7.
 Anthraquinone, Producing. A. E. Craver. 1,636,856; July 26.
 Anthrax aggressin, Producing. H. Jensen. C. E. Salsbery, and G. G. Grahn. 1,615,876; Feb. 1.
 Antichattering device. D. G. Taylor. 1,619,444; Mar. 1.
 Anticlimb device. R. M. Cutts, jr. 1,636,357; July 19.
 Anticreper. H. G. Gillmor. 1,636,506; July 19.
 Anticreper. H. G. Gillmor. 1,647,350; Nov. 1.
 Anticreeping joint. C. Pascal. 1,639,960; Aug. 23.
 Antidiabetic material from pancreas, Preparation of. J. R. Murlin. 1,646,553; Oct. 25.
 Antidiabetic substance. F. S. Macy. 1,626,044; Apr. 26.
 Antifreeze composition, Noncorroding. R. S. Wright. 1,626,998; May 3.
 Antifreezing device. J. F. Struble. 1,626,763; May 3.
 Antifreezing solutions, Producing. G. A. Schultheiss. 1,649,261; Nov. 15.
 Antifrost vision appliance. R. Tichota. 1,636,879; July 26.
 Antigen, Scarlet-fever. W. P. Larson. 1,621,119; Apr. 15.
 Antiglare attachment. A. A. Ehrlichman. 1,637,608; Aug. 2.
 Antiglare device. E. C. Gray. 1,653,208; Dec. 20.
 Antiglare device. B. L. Noyes. 1,628,551; May 10.
 Antiglare device. C. R. Snyder. 1,640,299; Aug. 23.
 Antiholup device. A. Goodman. 1,635,121; July 5.
 Antiskidding device. J. Dewey. 1,624,861; Apr. 12.
 Antimony compounds and making same, Complex. H. Hahl. 1,628,838; May 17.
 Antimony sulphide, Making precipitated. R. E. Stark. 1,633,754; June 28.
 Antimouth-breathing device. R. B. Storms. 1,629,892; May 24.
 Antirattler. A. M. Mobley. 1,614,845; Jan. 18.
 Antirattling device. S. Baruch. 1,619,913; Mar. 8.
 Antirattling device. S. Baruch. 1,634,349; July 5.
 Antirodent preparation. J. K. Kitchin. 1,653,710; Dec. 27.
 Antiskid chain. E. E. Cronenweth. 1,621,398; Mar. 15.
 Antiskid chain. H. T. Vulté. 1,619,592; Mar. 1.
 Antiskid device. G. R. Anderson. 1,615,154; Jan. 18.
 Antiskid device. G. Bonaccorse. 1,629,432; May 17.
 Antiskid device. G. P. Foster. 1,618,156; Feb. 15.
 Antiskid device. F. M. Hamann. 1,620,995; Mar. 15.
 Antiskid device. H. E. Hodgson. 1,631,883; Mar. 22.
 Antiskid device. W. J. J. Miley. 1,643,167; Sept. 20.
 Antiskid device. A. A. Sundé. 1,635,017; July 5.
 Antiskidding device. C. W. Erwin. 1,618,869; Feb. 22.
 Antiskidding device. S. D. Jacobson. 1,631,207; June 7.
 Antiskidding device. E. Sack. 1,615,235; Jan. 25.
 Antiskidding device. A. R. Thomson. 1,628,929; May 17.
 Antiskidding devices, Thread member for. A. R. Thomson. 1,628,930; May 17.
 Antispasmodic. F. Leuchs. 1,640,506; Aug. 30.
 Antispasmodics. F. Seydel. 1,621,757; Mar. 22.
 Antistuff device. I. M. Glick. 1,637,558; Aug. 2.
 Antithumb-sucking device. W. F. MacLachlan. 1,652,867; Dec. 13.
 Antivibrating device. E. E. Clark. 1,637,604; Aug. 2.
 Antiproof self bracket. H. E. De Pew. 1,633,438; Apr. 12.
 Antrum burr. R. S. Binkley, L. E. Stutsman, and T. E. Grove. 1,630,239; May 24.
 Ant trap. A. A. Edwards and R. L. McDonald. 1,621,318; Mar. 15.
 Ant trap. W. E. Rawlings. 1,623,439; Apr. 5.
 Apparatus for and method of applying tips to cores. B. K. Ford. 1,629,694; May 24.
 Apparatus for application of powdered disinfectants. W. B. Smith. 1,636,331; July 19.
 Apparatus for applying vapors to the human body. J. F. Class. 1,650,010; Nov. 22.
 Apparatus for automatic charging containers with predetermined and adjustable amounts of liquids or the like. C. Kobau. 1,653,106; Dec. 20.
 Apparatus for coating articles. O. J. Allerton. 1,651,939; Dec. 6.
 Apparatus for counting and packing rings. A. F. Thener and M. Kunitzman. 1,654,023; Dec. 27.
 Apparatus for delivering measured quantities of a fluent material. B. Jiroka. 1,635,126; July 5.
 Apparatus for mixing and proportioning materials. E. P. Halliburton. 1,649,062; Nov. 15.
 Apparatus for pressing dents in bakery rolls. H. Bill. 1,620,462; Dec. 20.
 Apparatus for preventing grade-crossing accidents. L. H. Hopewell. 1,651,955; Dec. 6.
 Apparatus for releasing step by step single-chamber pressure brakes. J. Rihosek and R. L. Leuchter. 1,649,876; Dec. 13.
 Apparatus for serving out beer. G. Lamarque and C. Recuero. 1,646,916; Oct. 25.
 Apparatus for teaching by ear the rendition of musical compositions. J. A. Green. 1,653,458; Dec. 20.
 Apparatus for the separation of volatile products from solid carbonaceous material. B. E. Cotterman. 1,650,191; Nov. 22.
 Apparel. I. Lesson. 1,649,711; Nov. 15.
 Apparel garment. W. Kops. 1,622,873; Mar. 29.
 Apparel ornaments, Producing. A. Roseberg. 1,624,805; Apr. 12.
 Apparel. C. F. S. Saxton. 1,651,969; Dec. 6.
 Apparel, Wearing. A. Witz. 1,628,213; May 10.
 Appliance for producing dimples. E. I. Gilbert. 1,648,221; Nov. 8.
 Appliance for removing facial defects. I. Bliss. 1,641,471; Sept. 6.
 Appliance. F. C. Dorment. 1,635,176; July 12.
 Applicator cap. R. H. Van Sant. 1,621,567; Mar. 22.
 Applicator for liquids. T. S. Harris. 1,615,581; Jan. 25.
 Applicator, Liquid. E. Themak. 1,633,424; June 21.
 Applicator, Vaginal. F. H. Newton. 1,636,482; July 19.
 Appliance, trimming. W. W. Hobe. Des. 72,947-9; June 28.
 Applying apparatus. J. W. Cosgrove. 1,620,802; Mar. 15.
 Apron. M. Baxter. 1,620,426; Mar. 8.
 Apron. A. M. H. Bliss. 1,632,873; June 21.
 Apron. M. Katz. 1,628,670; May 17.
 Apron. M. Mercala. 1,643,311; Sept. 27.
 Apron. Child's. C. E. Bowman. Des. 72,665; May 17.
 Apron, Worker's. M. Lichter. 1,618,208; Feb. 22.
 Aquarium. L. H. Burlin. 1,620,006; Mar. 8.
 Aquarium. H. A. Stone. 1,643,627; Sept. 27.
 Aquarium, Illuminated. J. A. Schrimp. 1,634,305; July 5.
 Arc converter, High frequency. R. R. Beal and H. F. Elliott. 1,620,318; Mar. 8.
 Arc cutting and welding apparatus, Transformer for electric. F. C. Owen. 1,644,604; Oct. 4.
 Arc cutting, repairing, and welding apparatus, Transformer for electric. F. C. Owen. 1,634,959; July 5.
 Arc-extinguishing device. E. A. Hester. 1,617,390; Feb. 15.
 Arc for melting and pulverizing metals, Electric. W. Miller. 1,615,995; Feb. 1.
 Arc generator. R. Herzog. 1,636,094; July 19.
 Arc lamps, Feed for. P. Moie, jr. 1,626,472; Apr. 26.
 Arc lamps of the sealed type. F. Bahr. 1,632,578; June 14.
 Arc light. A. Ihn. 1,640,450; Aug. 30.
 Arc-light electrodes, Production of. L. Kahl. 1,654,046; Dec. 27.
 Arc shield. C. T. Evans. 1,617,515; Feb. 15.
 Arc-welding generator. S. Hancock. 1,652,526; Dec. 13.
 Arc welding machine. T. E. Murray and H. R. Woodrow. 1,636,104; July 19.
 Arc-welding system. H. D. Morton. 1,620,219; Mar. 8.

- Arch-welding system. P. P. Pipes. 1,618,672; Feb. 22.
- Arch. J. C. Gordon. 1,640,932; Aug. 30.
- Arch and ankle support. I. M. Pease. 1,639,198; Aug. 16.
- Arch and siphon. Steel water. G. D. McLeod, T. F. Pokorski, and J. J. Hewitt. 1,646,304; Oct. 18.
- Arch and tile for forming same. G. P. Reintjes. 1,618,780; Feb. 22.
- Arch disk adjustment. Jockey-. L. W. Chase and J. C. Brand. 1,616,886; Feb. 8.
- Arch sling, Multiple. E. D. George. 1,638,842; Aug. 16.
- Arch support. C. G. Bergmann. 1,633,513; June 21.
- Arch support. F. E. Boehlke. 1,648,633; Nov. 8.
- Arch support. B. S. Bonaventure. 1,620,797; Mar. 15.
- Arch support. H. R. Levick. 1,651,285; Nov. 29.
- Arch support. D. Livignano. 1,646,920; Oct. 25.
- Arch support, Athletic. F. T. Cutshaw. 1,627,596; May 10.
- Arch support, Detachable. F. J. Gibbons. 1,641,886; Sept. 6.
- Arch supporter. P. Iacovino. 1,648,812; Sept. 27.
- Arch supporter. O. J. Le Boeuf. 1,628,161; May 10.
- Arch supporter, Instep-. W. S. Duffield. 1,626,725; May 3.
- Arching contact. O. H. Eschholz. 1,622,630; Mar. 29.
- Arctic. J. M. Dietz. 1,632,390; June 14.
- Arctic or gaiter. G. C. Thomas. 1,626,587; Apr. 26.
- Arctics, Attachment for. J. H. Webber. 1,621,342; Mar. 15.
- Areaways and the like, Protecting device for. C. K. Ernst. 1,643,207; Sept. 20.
- Areaways, Closure for. C. K. Ernst. 1,632,827; June 21.
- Arm. H. S. Best. 1,626,502; Apr. 26.
- Arm, Automatic. P. von Király and J. Lovász. 1,637,400; Aug. 2.
- Armchair, Adjustable. A. C. Beech. 1,628,764; May 17.
- Armlet for infants. S. Stanciu. 1,638,601; Aug. 9.
- Arm mount with accessible gear unit. D. C. Klausmeyer. 1,622,725; Mar. 29.
- Arm rest. L. D. Houck. 1,620,816; Mar. 15.
- Arm rest. F. O'Brien. 1,644,441; Oct. 4.
- Arm rest. H. Payton. 1,650,355; Nov. 22.
- Arm rest. J. T. Scully. 1,652,501; Dec. 13.
- Armrest. P. Wiese. 1,633,422; June 21.
- Arm sling. E. M. Horn. 1,621,323; Mar. 15.
- Armament. E. A. Gross. 1,642,855; Sept. 20.
- Armament, System of mobile. L. W. Luellen. 1,628,165; May 10.
- Armature. V. G. Apple. 1,642,057; Sept. 13.
- Armature. P. J. Fitzgerald. 1,644,718; Oct. 11.
- Armature-coil winding and shaping device. G. Bender. 1,616,947; Feb. 8.
- Armature-core insulation. A. B. Gomory. 1,619,415; Mar. 1.
- Armature for distant-control indicators for continuous and alternating current. H. Usener. 1,630,503; May 31.
- Armature securing and centering means. M. Camors. 1,637,173; July 26.
- Armature suspension, Relay. H. Thoma. 1,629,324; May 17.
- Armature-winding machine. R. G. Jones and C. Zwiebel. 1,635,677; July 12.
- Armature windings, Machine and method for positioning. P. H. White. 1,650,558; Nov. 22.
- Armatures, Manufacture of. F. G. Dewey. 1,622,185; Mar. 22.
- Armor. Diving. E. Levy. 1,643,667; Sept. 27.
- Aromatic aldehydes, Production of. A. E. Craver. 1,636,855; July 26.
- Arranging and feeding articles, Apparatus for. Goebel and W. V. Derby. 1,641,672; Sept. 6.
- Arranging device, Article-. J. S. Hardiman. 1,644,999; Oct. 11.
- Arrows, Clamp for feathering. G. W. Blodgett. 1,648,376; Nov. 8.
- Arsenic acid, Making. W. C. Piver. 1,615,193; Jan. 18.
- Arsenic compounds, Manufacture of new derivatives of organic. J. Pfeiffer, F. O. Main, and A. Albert. 1,653,227; Dec. 20.
- Arsenic compounds, Manufacture of organic. J. Pfeiffer and A. Albert. 1,647,662; Nov. 1.
- Arsenic compounds, Producing. E. R. Rushton. 1,624,281; Apr. 12.
- Arsenical product and making same. J. F. Blyth and C. Ellis. 1,649,562; Nov. 15.
- Arsenical solutions and preparing same. O. Lowy. 1,621,121; Mar. 15.
- Arsenobenzene compounds and making same. Complex metallic. K. Streitwolf and J. Hallensleben. 1,616,204; Feb. 1.
- Art needlework. A. H. Shillman. 1,649,988; Nov. 22.
- Art subjects, Reproducing pictures of. G. E. Buzza. 1,635,173; July 12.
- Article clip. W. E. Beck. 1,652,972; Dec. 13.
- Article-feeding mechanism. E. Nordstrom. 1,623,066; Apr. 5.
- Article-handling mechanism. H. A. House. 1,627,391; May 3.
- Article holder. M. G. Grundmann. 1,649,225; Nov. 15.
- Article lifter. F. W. Skroch. 1,634,856; July 5.
- Article of bonded granular material and making the same. H. C. Martin. 1,626,246; Apr. 26.
- Article of manufacture. C. A. Hatcher. 1,648,344; Nov. 8.
- Articles by extrusion, Forming. W. T. Davis and J. A. McGinnis. 1,646,854; Oct. 25.
- Articles, Feeding. C. Thyssen. 1,637,030; July 26.
- Articles from comminuted material, Forming. H. Buel. 1,624,471; Apr. 12.
- Articles from sheet metal, Method and apparatus for forming. H. E. Ruckert. 1,627,412; May 3.
- Articles from sheets of material, Apparatus for forming. A. A. MacLaren. 1,619,210; Mar. 1.
- Articulator. W. G. Bridge. 1,644,106; Oct. 4.
- Articulator. W. M. Gambill. 1,637,934; Aug. 2.
- Articles from. P. A. Gould. 1,617,590; Feb. 15.
- Articulators, Occlusal grinding device for. M. M. House. 1,636,304; July 19.
- Artificial flower. A. C. Matlack. 1,647,533; Nov. 1.
- Artificial horn, Manufacture of. J. Ellenberger. 1,649,675; Nov. 15.
- Artificial knee joint. H. Rehm. 1,619,485; Mar. 1.
- Artificial Hmb. O. H. Erickson. 1,644,822; Oct. 11.
- Artificial materials, Manufacture of. L. Lillienfeld. 1,642,588; Sept. 13.
- Artificial tree. H. L. Berman. 1,636,981; July 26.
- Artificial tree. A. Ekdahl. 1,613,386; Jan. 4.
- Artillery projectiles, Clockwork for mechanical fuses for. A. Varaud. 1,616,703; Aug. 16.
- Artillery projectiles, Mechanical fuse for. A. Varaud. 1,641,939; Sept. 6.
- Artillery projectiles, Mechanical fuse for. A. Varaud. 1,642,520; Sept. 13.
- Arylesters of nitro amino benzene sulphonic acids. W. Duisberg, W. Hentrich, and L. Zeh. 1,646,785; Oct. 25.
- Asbestos, Cleaning. E. F. Nanfeldt. 1,632,620; June 14.
- Asbestos cloth, Apparatus for weaving. E. J. Trainor. 1,629,850; May 24.
- Asbestos, Treatment of amosite. J. Gow. 1,617,803; Feb. 15.
- Ash and dust pan, Combined. W. I. Clements. 1,620,536; May 17.
- Ash and garbage receptacle, Combination. A. F. Culling. 1,618,366; Feb. 22.
- Ash bowl. W. L. Orme. 1,650,382; Nov. 22.
- Ash-can carrier. L. G. McConnell. 1,646,623; Oct. 25.
- Ash carrier, Elevated. J. S. Woodahl. 1,627,262; May 3.
- Ash-conveyor systems, Wash vent for. C. F. Zimmerman. 1,623,079; Apr. 5.
- Ash gate. F. H. Dunbar. 1,630,378; May 31.
- Ash gate. G. J. Oldroyd. 1,641,823; Sept. 6.
- Ash gate. J. Van Brunt. 1,636,398; July 19.
- Ash-handle equipment. O. S. Bowman. 1,624,909; Apr. 19.
- Ash-handling equipment. F. B. Allen. 1,634,228; June 28.
- Ash pan. R. B. Farrar. 1,627,023; May 3.
- Ash receiver. C. J. Boe. 1,635,395; July 12.
- Ash receiver. J. Y. Tice. 1,634,761; July 5.
- Ash receiver and match box, Combined. A. W. Rosen. 1,625,780; June 7.
- Ash receptacle. H. G. Jorgensen. 1,627,907; May 10.
- Ash receptacle, Sectional concrete. M. A. Marsh. 1,620,670; Mar. 15.
- Ash sifter. M. Citrin. 1,629,149; May 17.
- Ash sifter. A. Papenfuss. 1,629,729; May 24.
- Ash-sifting shovel. A. H. Miller. 1,619,266; Mar. 1.
- Ash-spraying apparatus. H. W. Minnick. 1,617,921; Feb. 15.
- Ash stand. R. G. Fleming. 1,646,086; Oct. 18.
- Ash system, Dustless. H. P. Banniga. 1,637,982; Aug. 2.
- Ash tray. O. B. Bach. 1,637,471; Sept. 20.
- Ash tray. O. B. Bach. 1,637,553; Oct. 4.
- Ash tray. J. W. Dillion. 1,616,117; Feb. 1.
- Ash tray. A. Jenkins. 1,641,112; Dec. 20.
- Ash tray. S. Kirzner. 1,647,006; Oct. 25.
- Ash tray. E. J. McGuirk. 1,627,906; June 21.
- Ash tray. A. Rosenshine. 1,638,720; Aug. 2.
- Ash tray. J. A. Smith. 1,638,984; Nov. 29.
- Ash tray. E. A. Sina. 1,631,931; Jan. 25.
- Ash tray. M. M. Whitaker. 1,637,394; Aug. 30.
- Ash tray and cigarette and cigar extinguisher, Combined. J. F. Thiessen. 1,640,584; Aug. 30.
- Ash tray and lamp cap, Combination. L. Baskin and M. Sternberg. 1,627,468; Apr. 19.
- Ash tray and like receptacle, Smoker's. R. M. Davis. 1,625,884; Apr. 26.
- Ash tray and pipe holder, Combined. E. G. Forbes. 1,627,062; Feb. 22.
- Ash tray and match-box lock, Combined emergency. A. Moore. 1,636,147; July 19.
- Ash tray and stand. E. L. Farr. 1,653,897; Dec. 27.
- Ash tray, cigarette and pipe holder, Combination. L. A. Vanden. 1,627,023; Feb. 15.
- Ash tray, Cigarette-extinguishing. W. H. J. Hipple, Jr. 1,639,036; Aug. 16.
- Ash tray, matches support, and pipe rest, Combination. R. E. McEldowney. 1,627,273; Mar. 22.
- Ash tray of article of similar nature. V. Allalouf. 1,627,540; May 3.
- Ash tray with pedestal. F. Knab. 1,638,295; Aug. 9.
- Asphalt and producing the same, Cellular body of. J. H. Young. 1,630,103; May 24.
- Asphalt or bitumen substitute. F. G. Renou. 1,649,545; Nov. 15.

- Asphalt slabs and sheets, Preparing. F. C. J. de Both. 1,618,059; Sept. 20.
- Asphalt spreader. H. G. Richardson. 1,642,747; Sept. 20.
- Asphalt, Storing and handling apparatus for. H. W. Ash. 1,637,589; Sept. 20.
- Asphalt tanks, Apparatus for heating and emptying. H. W. Ash. 1,654,359; Dec. 27.
- Assembling and lashing machine. B. Jorgensen. 1,634,502; July 5.
- Assembling articles to be packed, Apparatus for. M. J. Almoe. 1,628,596; May 10.
- Assembling machine. M. Buckmiller. 1,617,371; Feb. 15.
- Assembling machine. J. M. Lobit. 1,641,542; Sept. 6.
- Assembling machine, Leaf spring. E. S. Kolbeck. 1,648,405; Nov. 8.
- Assembling machine, Stepladder-support-. J. E. Kalgren. 1,647,365; Nov. 1.
- Assembling parts, Apparatus for. G. M. Fullarton. 1,642,771; Sept. 20.
- Assembling tool. R. W. Smith. 1,618,558; Feb. 22.
- Assembly elevators, Device for lifting. C. E. J. Simkins. 1,624,119; Apr. 12.
- Assembly plate and die-holding clamp. E. G. Bates and R. C. Bates. 1,638,180; Aug. 9.
- Associating and delivery mechanism. A. M. Zuckerman. 1,637,170; July 26.
- Assorting machine. F. J. Cook. 1,646,951; Oct. 25.
- Astronomic navigation, Method and device for rapidly solving ordinary problems of. W. A. Loth. 1,629,369; Apr. 19.
- Astronomical device. D. Philips. 1,634,207; June 29.
- Astronomy device. M. Evannuk. 1,643,007; Sept. 20.
- Asynchronous induction electric machine. V. Martinetto. 1,614,008; Jan. 11.
- Asynchronous machine. V. Martinetto. 1,614,009; Jan. 11.
- Atmospheric cooling tower. J. S. Fluor. 1,624,324; Apr. 12.
- Atmospherically-controlled switch. J. E. Bolling. 1,642,718; Sept. 20.
- Atomization of fluids, Method and apparatus for. C. L. Riley. 1,624,847; Apr. 12.
- Atomizer. R. T. Brewster. Des. 72,887-8; June 21.
- Atomizer. H. S. F. R. O'Brien. 1,652,372; Dec. 13.
- Atomizer. G. Gallery. Des. 73,802; Nov. 8.
- Atomizer. S. M. Salpas. 1,625,545; Feb. 15.
- Atomizer. J. Striss. 1,623,504; Apr. 5.
- Atomizer. V. E. Wiechmann. 1,642,757; Sept. 20.
- Atomizer, Liquid. C. Hurley. 1,637,113; July 26.
- Atomizer or article of similar nature, Perfume. A. L. Wagner. Des. 73,113-16; July 19.
- Atomizer. Perfume. G. M. Minton, jr. Des. 73,535; Sept. 27.
- Atomizing cleaner. W. J. Rudolph. 1,625,098; Apr. 19.
- Atomizing device. W. J. Gates. 1,617,681; Feb. 15.
- Atomizing liquid fuels or other liquids, Method and apparatus for. O. R. Grönkvist. 1,625,997; Apr. 26.
- Atomizing means. F. B. Comins. 1,650,821; Nov. 29.
- Atomizers and the like, Control means for regulating the output of. F. B. Comins. 1,631,475; June 7.
- Attaching device. H. Plomp. 1,636,109; July 19.
- Attaching machine. W. E. Elliott. 1,627,889; May 10.
- Attaching means. G. G. Fox. 1,636,222; July 19.
- Attaching means. D. T. Moats. 1,627,802; May 10.
- Attachment device. F. J. Shook. 1,627,676; May 10.
- Attachment arrestor. J. H. Northrop. 1,628,903; May 17.
- Attrition mill. W. Loken. 1,631,422; June 7.
- Audible alarm. C. Denser. 1,633,374; June 21.
- Audion amplifier circuits, Preventing retroactive effects in. G. A. Somersalo. 1,633,421; June 21.
- Auditorium, Convertible. J. S. Dean. 1,623,619; Apr. 5.
- Auger, Posthole. A. C. Coger. 1,642,647; Sept. 13.
- Auger stems, spiral bits, and spiral substitutes, Making spiral. F. H. Leldecke. Re16,768; Oct. 11.
- Auto-sodium-thiosulphate solutions, Production of stable, sterilizable, complex. L. Benda. 1,648,213; Nov. 8.
- Autothiosulphate compounds, Production of complex. E. and J. Keiding. 1,640,775; Aug. 30.
- Auto body construction, Separable. G. E. Goddard. 1,644,826; Oct. 11.
- Auto chain fastener. H. I. Willis. 1,643,043; Sept. 20.
- Auto condensation pad, Electric. W. R. Beckley. 1,622,244; Mar. 22.
- Auto crank, Antikick. N. Salo. 1,631,649; June 7.
- Auto fender. S. Rubin. 1,647,933; Nov. 1.
- Auto heel protector. V. Christensen. 1,622,859; Mar. 29.
- Auto key case. D. J. Wulfinck. 1,641,110; Aug. 30.
- Auto, Land and water. J. W. Julich. 1,615,389; Jan. 25.
- Auto loading buck. G. C. Pedderman. 1,651,517; Dec. 6.
- Auto lock. L. R. Fulton. 1,634,099; June 21.
- Auto signal. W. P. Rabb. 1,654,015; Dec. 27.
- Auto signal. F. W. Stull. 1,647,588; Nov. 1.
- Auto signal. C. Van Allen. 1,649,936; Nov. 22.
- Auto signal, Road. D. Hohlday. 1,647,598; Nov. 1.
- Auto spring suspension. P. O. Solon. 1,618,559; Feb. 22.
- Autostart motor. C. E. Johnson. 1,647,438; Nov. 1.
- Auto top. F. V. Miller and F. M. Crawford. 1,644,025; Oct. 4.
- Auto traffic signal. E. C. Beecher. 1,646,895; Oct. 25.
- Autotransformer. F. F. Brand. 1,641,650; Sept. 6.
- Auto tray holder. C. D. Brown. 1,618,567; Feb. 22.
- Auto truck and sprayer, Combined. R. Weimer. 1,623,221; Apr. 5.
- Auto vehicles, Transmission gear for. G. O. Howeth. 1,642,609; Sept. 13.
- Auto wheel. C. N. Swan. 1,646,635; Oct. 25.
- Auto wheel puller. J. V. Ray. 1,623,440; Apr. 5.
- Auto wheel sleigh runner. J. A. Barrett. 1,642,714; Sept. 20.
- Autos, Attachment for. E. H. Oakman. 1,626,746; May 3.
- Autos, Attachment for. J. A. Rugroden. 1,617,651; Feb. 15.
- Autos, Foot scraper for. M. M. Lewis. 1,652,312; Dec. 13.
- Auto headlight adjuster for. J. A. Piper. 1,629,360; May 17.
- Autos, Motor brake for. J. Kirchensteiner. 1,637,118; July 26.
- Autoboggan. L. Hofmeister. 1,622,719; Mar. 29.
- Autographic register. W. B. Barker and L. Jensen. 1,648,433; Nov. 8.
- Autographic register. P. A. Jackson. 1,621,955; Mar. 22.
- Autographic register. P. A. Jackson. 1,622,148; Mar. 22.
- Autographic register. P. A. Jackson. 1,630,298; May 31.
- Autographic register. P. A. Jackson. 1,632,443; May 31.
- Autographic register. P. A. Jackson. 1,633,103; June 21.
- Autographic register. P. A. Jackson. 1,636,961; July 26.
- Autographic register. P. A. Jackson. 1,650,892; Nov. 29.
- Autographic register. L. Jensen. 1,648,549; Nov. 8.
- Autographic register. L. Jensen. 1,651,455; Dec. 6.
- Autographic register. A. A. Johnson. 1,649,234; Nov. 15.
- Autographic register. C. L. Johnston. 1,649,599; Nov. 15.
- Autographic register. G. J. Neth. 1,615,953; Feb. 1.
- Autographic register. F. E. Pfeiffer. 1,640,980; Aug. 30.
- Autographic register. J. Q. Sherman. 1,617,032; Feb. 8.
- Autographic register. J. Q. Sherman. 1,644,955; Oct. 11.
- Automatic alarm. J. W. Johnson. 1,641,278; Sept. 8.
- Automatic closure. N. A. and G. A. Stathes. 1,629,747; May 24.
- Automatic gate. E. S. Coyle. 1,613,872; Jan. 11.
- Automatic gate. R. I. Farrell. 1,634,025; June 28.
- Automatic gate. H. M. Hirsch and P. A. Harris. 1,629,790; May 24.
- Automatic gate. E. L. Manstad. 1,614,993; Jan. 18.
- Automatic gate. T. A. Matthews. 1,648,691; Nov. 8.
- Automatic gate. F. Swearingen. 1,624,813; Apr. 12.
- Automatic handle. W. E. Baxter. 1,627,880; May 10.
- Automatic heater. W. J. Hawkins. 1,637,820; Aug. 2.
- Automatic lubricator. P. A. Nelson. 1,650,091; Nov. 22.
- Automatic register. L. K. Aldrich. 1,618,625; Feb. 22.
- Automatic register. P. A. Jackson. 1,622,147; Mar. 22.
- Automatic register. P. A. Jackson. 1,626,574; Apr. 26.
- Automatic regulator. L. Dana. 1,624,039; Apr. 12.
- Automatic regulator. E. Roucka. 1,630,314; May 31.
- Automatic regulator. A. M. Sjöb. 1,623,444; Apr. 5.
- Automatic signal. P. C. Enns. 1,626,797; May 3.
- Automatic signal. W. E. Wulfsberg. 1,629,982; May 24.
- Automatic sprinkler. J. H. Jones. 1,613,035; Jan. 4.
- Automatic sprinkler. G. F. Newton. 1,623,887; Apr. 5.
- Automatic switch. F. Aldendorff. 1,629,646; May 24.
- Automatic switch. J. D. Collins. 1,620,443; Mar. 8.
- Automatic switch. W. Edwards. 1,633,521; June 21.
- Automatic switch. L. W. Gilbert. 1,635,078; July 5.
- Automatic switch. C. L. Melnhine. 1,619,877; Mar. 8.
- Automatic switch. C. R. Sipe. 1,631,506; June 7.
- Automobile accelerators, Footrest for. E. L. Gibson. 1,635,473; July 12.
- Automobile accessory. J. Bindon. 1,651,943; Dec. 6.
- Automobile accessory. A. A. Mayer. 1,621,849; Mar. 22.
- Automobile and truck traction attachment. W. and M. H. Paterson. 1,652,133; Dec. 6.
- Automobile apparatus. J. A. Tonne. 1,628,374; May 10.
- Automobile appliance. J. R. Snyder. 1,615,599; Jan. 25.
- Automobile arm rest. J. Finn. Des. 73,286; Aug. 23.
- Automobile attachment. J. Bueck. 1,645,814; July 12.
- Automobile attachment. A. and J. W. Roth. 1,648,784; Nov. 8.
- Automobile attachment. W. H. Ruth. 1,649,083; Nov. 15.
- Automobile bed. O. C. Harper. 1,620,346; Mar. 8.
- Automobile bodies, Glass partition for closed. W. Brewster. 1,626,074; Apr. 26.
- Automobile body. J. A. Brent. Des. 72,818; June 14.
- Automobile body. P. Bunevac. 1,618,918; Mar. 8.
- Automobile body. C. A. Frick and R. W. Dwight. 1,623,946; Apr. 5.
- Automobile body. O. J. Groehn. 1,642,730; Sept. 20.
- Automobile body. J. E. Larson. Des. 72,374; Apr. 5.
- Automobile body. J. Ledwinka. 1,615,177; Jan. 18.
- Automobile body. J. Ledwinka. 1,652,865; Dec. 13.
- Automobile body. J. Ledwinka. 1,643,740; Sept. 27.
- Automobile body. D. S. Miller. Des. 72,561; May 3.
- Automobile body. C. Spurge. Des. 73,212; Aug. 2.
- Automobile body. W. O. Underwood. 1,644,405; Oct. 4.
- Automobile body and making same. J. Ledwinka. 1,643,739; Sept. 27.
- Automobile body and making same. J. Ledwinka. 1,643,743; Sept. 27.
- Automobile body construction. K. L. Childs. 1,641,319; June 28.
- Automobile body construction. G. Fausser. 1,633,729; June 28.

- Automobile body construction. H. Ford. 1,629,493; May 24.
- Automobile body construction. A. J. Hollingshead. 1,639,097; Aug. 16.
- Automobile body, Convertible. F. Bunevac. 1,637,101; July 26.
- Automobile body, Convertible. G. Obergfell and E. Patzwahl. 1,632,672; June 14.
- Automobile body fronts, Hood for. J. S. Booth. Des. 73,890; Nov. 22.
- Automobile body spring control apparatus. J. B. Drennan. 1,632,728; June 14.
- Automobile body-ventilating system. B. W. Twyman and S. Paul. 1,626,893; May 8.
- Automobile brake. J. E. Beard. 1,618,748; Feb. 22.
- Automobile brake. W. B. Fageol. 1,633,776; June 28.
- Automobile brake. H. Hargreaves. 1,643,890; Sept. 27.
- Automobile brake. P. A. Quinn. 1,626,151; Apr. 26.
- Automobile brake mechanism. E. Garcia. 1,644,671; Oct. 11.
- Automobile brake mechanism. H. S. Hart. 1,653,277; Dec. 20.
- Automobile buffer and attachment therefor. G. A. Lyon. 1,626,347; Apr. 26.
- Automobile buffer construction. G. A. Lyon. 1,650,635; Nov. 29.
- Automobile bumper. P. Breuer and P. Leschnik. 1,615,565; Jan. 25.
- Automobile bumper. C. Giral. 1,623,404; Apr. 5.
- Automobile bumper. O. H. Goetz. 1,623,471; Apr. 5.
- Automobile bumper. H. S. Jandus. 1,623,412; Apr. 5.
- Automobile bumper. M. Juhlonsky. 1,620,357; Mar. 8.
- Automobile bumper. A. L. Kerna. 1,643,776 Sept. 27.
- Automobile bumper. F. J. Laher. 1,613,837; Jan. 11.
- Automobile bumper. F. J. Laher. 1,616,333; Jan. 25.
- Automobile bumper. F. J. Laher. 1,617,716; Feb. 15.
- Automobile bumper. N. Littell. 1,616,695; Feb. 8.
- Automobile bumper. M. H. Loughbridge. 1,616,455; Feb. 8.
- Automobile bumper. J. Markonich. 1,613,043; Jan. 4.
- Automobile bumper. W. G. Pancoast. 1,621,081; Mar. 15.
- Automobile bumper. W. Rahe. 1,644,032; Oct. 4.
- Automobile bumper. W. A. Starck. Des. 71,852; Jan. 11.
- Automobile bumper. J. S. Wernig. 1,627,218; May 3.
- Automobile bumper. F. G. Whittington. Des. 71,817; Jan. 4.
- Automobile bumper and clamp. J. J. Mascuch. 1,613,668; Jan. 11.
- Automobile can holder. C. W. Beck. 1,644,665; Oct. 11.
- Automobile chassis-greasing preparation. G. G. Fairchild. 1,645,097; Oct. 11.
- Automobile chassis-lubricating device. F. H. Gleason. 1,629,453; May 17.
- Automobile chassis, Lubricating means for. E. M. Six. 1,631,630; June 7.
- Automobile chassis lubrication. J. Bijur. 1,618,122; Feb. 15.
- Automobile, Child's foot-power. J. A. Bried. 1,634,486; July 5.
- Automobile circuits, Indicator for. H. I. Shire. 1,630,807; May 31.
- Automobile cleaning device. J. W. Carrington. 1,625,792; Apr. 26.
- Automobile construction. C. R. Paton. 1,638,782; Aug. 9.
- Automobile curtain. W. C. Loud. 1,652,447; Dec. 13.
- Automobile cushions, Retainer for. W. Brewster. 1,619,916; Mar. 8.
- Automobile door. G. W. Becker. 1,643,935; Oct. 4.
- Automobile doors, Connecting means for two-part. R. W. Hull. 1,616,803; Feb. 8.
- Automobile doors, Shield attachment for. F. H. Campbell. 1,625,791; Apr. 19.
- Automobile doors, Ventilator fastener for. A. T. Meyer. 1,636,479; July 9.
- Automobile driving mechanism. F. S. Hudson. 1,629,707; May 24.
- Automobile enclosure. G. E. Bishop. 1,646,722; Oct. 25.
- Automobile engine. S. I. Fekete and S. G. Baits. 1,625,718; Apr. 19.
- Automobile engines. Heater for. A. H. Sargent. 1,641,011; Aug. 30.
- Automobile fender. G. E. Elliott. 1,642,233; Sept. 13.
- Automobile fender. J. Ledwinka. Des. 72,266; Mar. 22.
- Automobile fenders, Combined lamp and supporting bracket for. A. Halliwell. Des. 73,375; Aug. 30.
- Automobile, Foot-propelled juvenile. J. A. Bried. 1,618,507; Feb. 22.
- Automobile frame and tubular crossbar therefor, Flexible. L. R. Smith. 1,630,036; May 24.
- Automobile frames, Attaching spring hanger to the side bars of. B. T. Andren. 1,643,232; Sept. 20.
- Automobile frames, Cushioned spring-hanger connection for. W. E. Ritter. A. 1,643,235; Sept. 20.
- Automobile frames, Torsion-resisting cross bar for. B. T. Andren. 1,654,107; Dec. 27.
- Automobile fuel tanks, Lockable cover for. A. M. Malluk. 1,624,840; Apr. 12.
- Automobile fuel tanks, Protective device for. G. G. Heurn. 1,626,822; May 3.
- Automobile gate. J. A. Bailey. 1,650,814; Nov. 29.
- Automobile heater. C. M. Rowers. 1,638,317; Aug. 9.
- Automobile heater. J. R. Frushour. 1,623,963; Apr. 12.
- Automobile heater. F. W. Gerlinger. 1,616,792; Feb. 8.
- Automobile heater. E. P. Gray. 1,619,116; Mar. 1.
- Automobile heater. L. C. Karcher and L. Asman. 1,632,974; June 21.
- Automobile heater. W. E. Stevens. 1,642,631; Sept. 13.
- Automobile heater. H. B. Tyler. 1,633,717; June 28.
- Automobile heaters, Casing for. T. Bovey. 1,635,701; July 12.
- Automobile heaters, Control device for. T. Bovey. 1,615,063; Jan. 18.
- Automobile heaters, Control for. T. Bovey and S. J. V. Bovey. 1,617,099; Feb. 8.
- Automobile hood. D. H. Abell. 1,617,661; Feb. 15.
- Automobile hood. J. Watson. 1,648,068; Nov. 8.
- Automobile hood clamp. R. G. Moore. 1,637,530; Aug. 2.
- Automobile hoods and radiators, Emblem for. G. W. Derulinsky. Des. 73,161; Aug. 2.
- Automobile hoods, Attachment for. A. J. Smith. 1,613,812; Jan. 11.
- Automobile hoods, Louver covering for. O. A. Larsen. 1,616,810; Feb. 8.
- Automobile hoods, Rain guard for. M. P. Fishburn. 1,635,746; July 12.
- Automobile hoods, Water drain for. R. C. Farr. 1,639,479; Aug. 9.
- Automobile horn blower. C. Bendtsen. 1,614,840; Jan. 11.
- Automobile hotel and garage. R. C. Hecox. 1,634,498; July 5.
- Automobile inclosure. G. E. Bishop. 1,620,003; Mar. 8.
- Automobile inclosure, structure. J. B. Zimmers and O. L. Herron. 1,637,367; Aug. 2.
- Automobile inhaler. W. S. Brown. 1,613,220; Jan. 4.
- Automobile instrument panel. A. F. Draper. Des. 73,073; July 19.
- Automobile instrument panel. P. J. Kent. Des. 73,087; July 19.
- Automobile instrument panel. P. J. Kent. Des. 73,527; Sept. 27.
- Automobile instrument-panel rim. E. N. Jacobi. Des. 73,915; Nov. 22.
- Automobile jack. J. T. Amis. 1,634,391; July 5.
- Automobile jack. O. W. Hahn. 1,630,792; May 31.
- Automobile jack. R. F. Johnson. 1,650,018; Nov. 22.
- Automobile jack. G. P. Lee. 1,619,942; Mar. 8.
- Automobile jack. G. L. Pitt. 1,640,293; Aug. 23.
- Automobile jack. B. W. Twyman. 1,618,206; Feb. 1.
- Automobile ladder. G. Millward. 1,620,377; Mar. 8.
- Automobile lens. L. B. Rice. 1,619,038; Mar. 1.
- Automobile levers, Wind guard for. U. S. Klotz. 1,635,329; July 12.
- Automobile license plate and theft indicator. J. Nelson. 1,629,959; May 24.
- Automobile license-plate holder. G. F. Edwards. 1,629,688; May 24.
- Automobile license plates, Manufacturing. S. S. Adams. 1,629,944; May 24.
- Automobile license tags, Identification seal for. L. J. Kiger. 1,636,778; July 26.
- Automobile lifting device. E. Karow. 1,628,013; Mar. 29.
- Automobile light. J. Medlock. 1,646,828; Oct. 25.
- Automobile light. G. M. Rosemer. 1,624,436; Apr. 12.
- Automobile light. H. R. Shearer. 1,627,669; May 10.
- Automobile lights, Electric time switch for. A. L. N. Cremo and A. J. Gordon. 1,624,539; Apr. 12.
- Automobile lock. H. E. Andrew. 1,623,455; Apr. 5.
- Automobile lock. M. Farah. 1,625,249; Apr. 19.
- Automobile lock. W. F. Fipps. 1,638,688; Aug. 9.
- Automobile lock. F. C. Fisher. 1,627,081-2; May 3.
- Automobile lock. F. M. Furber. 1,617,840; Feb. 15.
- Automobile lock. V. L. Gilpin and C. R. Wells. 1,635,079-80; July 5.
- Automobile lock. O. S. Hershey. Re16,612; Apr. 26.
- Automobile lock. O. S. Hershey. 1,641,811; Sept. 6.
- Automobile lock. O. S. Hershey. 1,644,922; Oct. 11.
- Automobile lock. O. S. Hershey. 1,645,382; Oct. 11.
- Automobile lock. O. S. Hershey. 1,653,567; Dec. 20.
- Automobile lock. H. G. Hughes. 1,637,348; Aug. 2.
- Automobile lock. C. L. Johnson. 1,632,655; June 14.
- Automobile lock. G. B. Kissinger. 1,634,583; July 5.
- Automobile lock. E. J. Martel. 1,616,592; Feb. 8.
- Automobile lock. E. J. Martel. 1,645,970; Oct. 25.
- Automobile lock. J. A. Preston. 1,650,551; Nov. 29.
- Automobile lock. K. Scherer. 1,638,062; Aug. 9.
- Automobile lock. F. P. Vogt and E. C. Dorn. 1,625,109; Apr. 19.
- Automobile lock. R. G. Weissel. 1,640,631; Aug. 30.
- Automobile lock. J. M. White. 1,646,227; Oct. 18.
- Automobile lock, Automatic. F. Matthiesen. 1,614,623; Jan. 18.
- Automobile locking apparatus. T. Miller. 1,628,469; May 10.
- Automobile locking means. W. Hemingway, jr. 1,631,267; June 7.
- Automobile memo. A. H. Muscate. 1,629,201; May 17.
- Automobile mirror system. C. W. Paul. 1,617,270; Feb. 8.
- Automobile oil-drain device. E. E. and C. I. Hiscoc. 1,631,129; June 7.
- Automobile operating gate. E. I. Martin. 1,653,716; Dec. 27.
- Automobile parking device. J. E. Desmond. 1,614,233; Jan. 11.
- Automobile parking device. E. Wisroth and A. J. Hirschfeld. 1,619,555; Mar. 1.

- Automobile parts and the like, Surfacing for. J. C. Carlson. 1,626,508; Apr. 26.
- Automobile pedal. W. H. Hill. 1,629,381; May 17.
- Automobile pluses, Fastening device for. J. N. Griffith. 1,613,054; Jan. 11.
- Automobile power transmission. T. Jacobs. 1,614,614; Jan. 18.
- Automobile power-transmission attachment. W. H. Heaton. 1,617,638; Feb. 15.
- Automobile radiators. P. Bastien and C. S. Crawford. Des. 72,545; May 3.
- Automobile radiator attachment. J. F. White. 1,613,148; Jan. 4.
- Automobile radiator cap. F. C. Ruppel. Des. 73,509; Sept. 20.
- Automobile radiator-cap ornament. J. N. Pomeroy. Des. 73,865; Nov. 15.
- Automobile radiator caps, Ornament for. W. H. Billingsley. Des. 71,775; Jan. 4.
- Automobile radiator casing. A. O. Holtom. Des. 72,479; Apr. 19.
- Automobile radiator casing. E. W. Seaholm. Des. 72,746; May 24.
- Automobile radiator emblem. F. J. Kindsvater. Des. 73,847; Nov. 15.
- Automobile radiator ornament. F. W. Ehrlich. Des. 71,865; Jan. 18.
- Automobile radiator ornament. G. J. Zels. Des. 73,548; Sept. 27.
- Automobile radiator or the like. F. de Causse. Des. 72,821; June 14.
- Automobile radiator shield. H. L. Curran. 1,631,948; June 7.
- Automobile radiators and the like, Closure for. J. Jacques and A. W. Oswald. 1,630,897; May 31.
- Automobile radiators, Cap for. J. W. Sealock. 1,643,133; Sept. 20.
- Automobile radiators, Condenser for. G. D. Roberts. 1,634,211; June 28.
- Automobile radiators, Condensing attachment for. V. Paone. 1,652,045; Dec. 6.
- Automobile radiators, Drain cock for. G. M. Kendall. 1,616,873; Feb. 1.
- Automobile radiators, Ornament for. C. H. Hodge and F. Schultz. Des. 73,978; Nov. 29.
- Automobile radiators, Water gauge for. L. A. Jarvis. 1,630,388; May 31.
- Automobile rebound-checking device. C. O. Fountain. 1,627,379; May 3.
- Automobile rim and fastening means. J. H. Wagenhorst. 1,646,777; Oct. 25.
- Automobile roadster body. M. C. Tunison. Des. 73,214; Aug. 2.
- Automobile safety attachment. M. Doujak. 1,619,709; Mar. 1.
- Automobile safety device. A. D'Aguzzano. 1,646,139; Apr. 18.
- Automobile safety fender. C. Leone. 1,630,951; May 31.
- Automobile safety signal. O. Fairless. 1,641,325; Sept. 6.
- Automobile sander. E. P. Robinson. 1,622,165; Mar. 22.
- Automobile sander. E. P. Robinson. 1,648,623; Nov. 8.
- Automobile seat. J. J. Bell. 1,643,236; Sept. 20.
- Automobile seat. F. A. Huff. 1,644,528; Oct. 4.
- Automobile seat. W. Sheets. 1,647,057; Oct. 25.
- Automobile seat. W. B. South. 1,640,968; Aug. 30.
- Automobile seat construction. P. G. Burdine. 1,646,610; Oct. 25.
- Automobile seat, Convertible. G. De Petris. 1,640,984; Aug. 30.
- Automobile-seat-cover fastener. H. A. Sallop. 1,647,934; Nov. 1.
- Automobile seat-cushion cover. M. F. Aaron. 1,619,556; Mar. 1.
- Automobile seats, Cushioning means for tiltable. C. C. Davis and G. I. Clarke. 1,633,697; June 28.
- Automobile semaphore signal. C. C. Lovejoy. 1,629,400; May 17.
- Automobile side curtains, Storage sling for. M. Rahr, Jr. 1,648,961; Nov. 15.
- Automobile side light. J. Rall and H. E. Sprow. 1,624,433; Apr. 12.
- Automobile signal. W. L. Baldwin. 1,618,907; Feb. 22.
- Automobile signal. F. Barnes. 1,646,678; Oct. 25.
- Automobile signal. E. E. Bower. 1,624,468; Apr. 12.
- Automobile signal. J. T. Christian. 1,631,471; June 7.
- Automobile signal. R. L. Dickson. 1,622,096; Mar. 22.
- Automobile signal. M. Friedland. 1,614,427; Jan. 11.
- Automobile signal. Y. Harada. 1,613,456; Jan. 4.
- Automobile signal. G. E. Hitchcock. 1,640,275; Aug. 23.
- Automobile signal. J. N. Korvallis. Des. 73,705; Oct. 25.
- Automobile signal. G. Kuelpack. 1,639,192; Aug. 16.
- Automobile signal. N. Lawson. 1,613,175; Jan. 4.
- Automobile signal. G. W. Michael. 1,640,794; Aug. 30.
- Automobile signal. G. Miller. 1,652,039; Dec. 6.
- Automobile signal. E. P. Sebesta. 1,638,414; Aug. 9.
- Automobile signal. H. H. Thiele. 1,629,057; May 17.
- Automobile signal. C. Von Glinsky. 1,641,910; Sept. 6.
- Automobile signal. S. A. Wall and E. A. Boyd. 1,622,361; Mar. 29.
- Automobile signal. F. C. Whitmore. 1,646,332; Oct. 18.
- Automobile signal accessory. J. E. Liebrich. 1,637,528; Dec. 40.
- Automobile signal casing. V. P. Carter. Des. 73,895-6; Nov. 22.
- Automobile signal casing. J. W. Gunn. Des. 73,257; Aug. 16.
- Automobile signal casing. P. Vonfelt. Des. 72,743; May 24.
- Automobile signal, Casing for. A. Hartman. Des. 73,698; Oct. 25.
- Automobile signal-control switch. W. H. Krauser. 1,621,372; Mar. 15.
- Automobile signal device. J. Granter and J. Davis. 1,638,638; Aug. 9.
- Automobile signal device. F. A. Purcell. 1,633,677; June 28.
- Automobile signal device. A. Sanchez. 1,637,962; Aug. 2.
- Automobile signal device. L. Van Gale. 1,623,450; Aug. 9.
- Automobile signaling apparatus. H. Hansen. 1,616,221; Feb. 1.
- Automobile signals, Switch mechanism for. C. P. Wicks. 1,614,511; Jan. 18.
- Automobile sled attachment. G. C. Graves. 1,638,195; Aug. 9.
- Automobile speed control. A. E. Willsbushen. 1,653,687; Dec. 27.
- Automobile speedway device. C. F. Thuss. 1,630,229; May 24.
- Automobile springs, Assembling. F. J. Morissette and A. Sinkov. 1,652,791; Dec. 13.
- Automobile stand. C. R. Coleman and C. M. Johnston. 1,648,474; Nov. 8.
- Automobile steering knee control. J. H. Cresmer. 1,626,331; Apr. 26.
- Automobile steering mechanism. E. C. Renaud. 1,617,458; Feb. 1.
- Automobile steering stabilizer. J. E. McCrillis. 1,616,429; Feb. 1.
- Automobile stop lights, Switch for. B. V. Ogden. 1,627,061; May 3.
- Automobile supply tank and holder. E. S. Johnson. 1,613,111; Jan. 4.
- Automobile suspension. E. Martin. 1,631,103; May 31.
- Automobile tag. E. D. Dolloff. Des. 74,049; Dec. 13.
- Automobile theft detector. J. D. E. Hughes. 1,636,613; July 19.
- Automobile theftproof device. H. D. Geyer. 1,622,141; Mar. 22.
- Automobile tire. P. H. Ober. Des. 72,382; Apr. 5.
- Automobile tire-alarm mechanism. U. G. Replogle. 1,618,352; Feb. 22.
- Automobile top. E. H. Alvey. 1,613,429; Jan. 4.
- Automobile top. J. E. Hill. 1,652,353; Dec. 13.
- Automobile top. C. C. and M. R. Hull. 1,637,112; July 26.
- Automobile top. M. R. Hull. Re16,581; Mar. 29.
- Automobile top and curtain construction. R. H. Stobbe. 1,629,935; May 24.
- Automobile top and curtain structure. E. Yost and R. B. Holthaus. 1,616,294; Feb. 1.
- Automobile top and support, Combined. H. E. Foltz. Des. 72,009; Feb. 15.
- Automobile top dressing. C. C. Davis. 1,614,232; Jan. 11.
- Automobile tops, Curtain for. M. Martinov. 1,614,010; Jan. 11.
- Automobile torpedo. W. Dieter. 1,623,099; Apr. 5.
- Automobile torpedo. W. Dieter. 1,627,154-5; May 3.
- Automobile torpedo. W. Dieter. 1,640,889; Aug. 30.
- Automobile torpedo and contact mine. W. Dieter. 1,626,704; Mar. 3.
- Automobile traffic-signaling apparatus. B. Meyrowitz. 1,627,545; May 3.
- Automobile train. L. R. Culver. 1,613,345; Jan. 4.
- Automobile transmission. J. M. Simpson. 1,631,938; June 7.
- Automobile trucks or tractors, Power-delivering attachment for. L. Haubert. 1,633,208; June 21.
- Automobile trunk and table Combination. T. J. Bricea and J. C. Favilla. 1,619,186; Mar. 1.
- Automobile trunk rack. S. J. Levy. Des. 72,025; Feb. 15.
- Automobile turning device. M. D. Dominguez. 1,614,289; Aug. 11.
- Automobile vehicles, Brake for. J. C. Huck and M. Twilight. 1,652,479; Dec. 13.
- Automobile vehicles, Electric lighting of. E. Friedrichs. 1,649,680; Nov. 15.
- Automobile ventilator. G. A. Burkholder. 1,623,383; Apr. 5.
- Automobile visor. R. F. Anderson. 1,644,662; Oct. 11.
- Automobile visor. C. R. Atwood, H. Berg, and O. R. Jenkins. 1,615,563; Jan. 25.
- Automobile wheel. S. Kaplan. 1,635,325; July 12.
- Automobile wheel. J. H. Partridge. 1,632,500; June 14.
- Automobile wheel. A. T. Sacre. 1,632,382; June 14.
- Automobile wheel. G. Van Daam. 1,623,645; Apr. 5.
- Automobile wheel brake. H. W. Lutes. 1,643,389; Sept. 27.
- Automobile wheel, Resilient. W. D. Thomas. 1,641,909; Apr. 5.
- Automobile wheel structure. E. A. Nelson. 1,627,193; May 3.
- Automobile wheels, Nonslip attachment for. J. D. Ross. 1,627,806; May 10.
- Automobile wheels, Power take-off shaft for. E. Purtle. 1,645,401; Oct. 11.
- Automobile wheels, Reel attachment for. F. V. Sjolander. 1,642,630; Sept. 13.

- Automobile window and warning signal, Combined rear. H. Koller. 1,646,617; Oct. 25.
- Automobile winter top. J. W. Osten. 1,617,542; Feb. 15.
- Automobiles, All-weather top for. G. M. Bailey. 1,638,453; July 19.
- Automobiles and making the same, Axle housing and gear casing for. F. Palm. 1,638,873; Aug. 16.
- Automobiles and method of manufacturing same, Rear-axle housing and gear casing for. C. S. Smith. 1,618,592; Jan. 4.
- Automobiles and other vehicles, Spring wheel for. H. Hill. 1,628,594; May 10.
- Automobiles and other vehicles, Suspension of. G. H. E. de Ram. 1,626,158; Apr. 26.
- Automobiles and the like, Air cleaner for. F. S. Orem. 1,635,007; July 5.
- Automobiles and the like, Combination brace and nut lock for. M. C. Skaggs. 1,651,559; Dec. 6.
- Automobiles and the like, Front-wheel brake for. H. S. Cassel. 1,635,708; July 12.
- Automobiles and the like, Light detector for. W. F. Lautenschlager. 1,648,278; Nov. 8.
- Automobiles and the like, Movable seat for. C. W. Jackson. 1,613,893; Jan. 11.
- Automobiles and the like, Window ventilator for. A. D. Dighie. 1,628,055; May 10.
- Automobiles, Antiskid chain for. R. O. Frontz. 1,636,990; July 26.
- Automobiles, Antiskid device for. R. D. Allemang. 1,618,161; Feb. 22.
- Automobiles, Antitheft device for. J. Fares. 1,615,364; Jan. 25.
- Automobiles, Apparatus for cleaning and polishing. L. J. Wilde and B. K. Gillespie. 1,613,213; Jan. 4.
- Automobiles, Apparatus for tilting. J. R. Holcombe. 1,638,931; Aug. 16.
- Automobiles, Automatic stop device for. H. E. Christensen and L. Lehmis. 1,653,945; Dec. 27.
- Automobiles, Automatic gear shift for. F. S. Cartwright. 1,629,654; May 24.
- Automobiles, Automatic shaft lock for. W. B. Uffert. 1,631,843; June 7.
- Automobiles, Axle gauge for. H. Wochner. 1,641,243; Sept. 6.
- Automobiles, Baby chair for. M. J. Miller. 1,629,834; May 24.
- Automobiles, Brake for. H. W. Alden and G. Hufferd. 1,631,448; June 7.
- Automobiles, Brake mechanism for. E. D. Brown. 1,645,124; Oct. 13.
- Automobiles, Brake mechanism for. E. L. Kulick. 1,613,397; Jan. 4.
- Automobiles, Brake mechanism for. E. L. Kulick. 1,613,589; Jan. 4.
- Automobiles, Buffer or bumper for. F. Mische and K. Roschitsch. 1,633,501; Aug. 9.
- Automobiles, Bumper bar and rear fender for. F. Peacock. 1,637,454; Aug. 2.
- Automobiles, Bumper for. G. Nigro. 1,621,997; Mar. 22.
- Automobiles, Card-display receptacle for. H. H. Dedmon. 1,628,954; May 17.
- Automobiles, Closed body structure for. J. Ledwinka. 1,652,947; Dec. 13.
- Automobiles, Coach body of. R. A. Fatoux. 1,634,656; July 5.
- Automobiles, Combination brake and jack mechanism for. E. F. and C. F. 1,626,938; Apr. 26.
- Automobiles, Combined glare, wind, rain, and insect shield for. W. I. Clements. 1,631,010; May 31.
- Automobiles, Combined side wing and sun and rain shield for. S. Nakagawa. 1,619,879; Mar. 8.
- Automobiles, Cooling apparatus for. H. H. Crawford. 1,649,359; Nov. 15.
- Automobiles, Cooling system for. H. S. Burgess. 1,632,994; June 21.
- Automobiles, Cranking device for. T. H. LeFever. 1,632,300; June 14.
- Automobiles, Cushion device for. J. A. O'Neill. 1,625,146; Apr. 19.
- Automobiles, Device for holding registration cards on. P. M. Ullrich. 1,626,107; Apr. 26.
- Automobiles, Differential for. C. Bittner. 1,648,753; Nov. 8.
- Automobiles, Direction indicator for. S. Angelo. 1,641,950; Sept. 13.
- Automobiles, Direction indicator for. R. Wardhaugh. 1,629,425; May 17.
- Automobiles, Direction signal for. A. Stipech. 1,617,035; Feb. 8.
- Automobiles, Dirigible headlight for. J. W. Dell. 1,612,802; Jan. 4.
- Automobiles, Electric starting system for. S. C. Spivey. 1,618,688; Feb. 22.
- Automobiles, Emergency brake for. H. W. Muhleisen. 1,612,982; Jan. 4.
- Automobiles, Etc., Tire-carrying means for. C. Uebelmeier. 1,616,155; Feb. 1.
- Automobiles, Extractor for. W. A. Brightman. 1,644,509; Oct. 4.
- Automobiles, Fan attachment for. E. N. Nolan. 1,652,873; Dec. 13.
- Automobiles, Fender attachment for. H. H. Irwin and W. A. Carpenter. 1,631,417; June 7.
- Automobiles, Filling attachment for gasoline tanks of. O. Creed. 1,626,789; May 3.
- Automobiles, Flag holder for the motometers and similar devices of. M. A. Kane. 1,620,820; Mar. 15.
- Automobiles, Foldable sun shade for. J. W. Collier. 1,645,416; Oct. 11.
- Automobiles, Folding towing device for. J. R. Sandberg. 1,649,084; Nov. 15.
- Automobiles, Foot scraper for. L. J. Crowe. 1,619,404; Mar. 1.
- Automobiles, Glass cover for. L. W. Colby. 1,623,718; Apr. 5.
- Automobiles, Heat distributor for. H. P. Hanson. 1,648,269; Nov. 8.
- Automobiles, Heater attachment for. T. Kress and L. J. de Ram. 1,643,279; Sept. 20.
- Automobiles, Heater for. J. W. Kelch and J. J. Sunday. 1,651,029; Nov. 29.
- Automobiles, Heating device for. R. J. Neal. 1,615,580; Jan. 4.
- Automobiles, Holddown device for. G. G. Fedderman. 1,621,552; Oct. 15.
- Automobiles, Illuminated license-tag holder for. J. R. Kerns. 1,619,520; Mar. 1.
- Automobiles in highways, Device for preventing theft of. G. A. Wettengel. 1,630,284; May 31.
- Automobiles, Knockdown bed frame for. T. E. Carrigan. 1,616,620; June 7.
- Automobiles, Loading and hauling. C. D. Hill. 1,643,885; Sept. 27.
- Automobiles, Lock for. R. Alfisi. 1,632,576; June 14.
- Automobiles, Lock for spare wheels of. F. W. Henke, Jr. 1,625,657; Apr. 19.
- Automobiles, Luggage carrier for. J. W. Bement. 1,624,462; Apr. 12.
- Automobiles, Luggage carrier for. F. J. Laher. 1,640,779; Aug. 30.
- Automobiles, Luggage carrier for. C. B. Leffert. 1,640,360; Aug. 30.
- Automobiles, Luggage carrier for. F. J. Werneth. 1,617,828; Feb. 15.
- Automobiles, Mud pulper for. G. W. Smith. 1,635,645; July 12.
- Automobiles, Nonskid chain for. F. Bond. 1,636,846; July 26.
- Automobiles, Nonskid device for. H. Sebrell. 1,643,959; Oct. 4.
- Automobiles, Nonskidding device for. A. Varga. 1,617,729; Feb. 15.
- Automobiles, Oiling system for. C. S. Crawford and W. G. Wall. 1,649,841; Nov. 8.
- Automobiles, Paint stick for. R. T. Romine. 1,634,341; July 5.
- Automobiles, Planetary-gear drive for. C. L. Culver. 1,629,021; May 17.
- Automobiles, Portable hand pulper for. E. R. Long. 1,643,355; Nov. 8.
- Automobiles, Power take-off for. W. E. Wuelker. 1,636,087; July 19.
- Automobiles, Power transmission for. D. L. McClintock. 1,618,301; Feb. 22.
- Automobiles, Protective means for. B. Jacobson. 1,616,036; Feb. 15.
- Automobiles, Radiator casing for. H. H. Bassett. Des. 73,736; Nov. 1.
- Automobiles, Rear signal light for. P. A. Stover. 1,629,231-32; May 17.
- Automobiles, Route indicator for. A. J. Ravetti. Des. 73,736; Nov. 1.
- Automobiles, Safety crank for. N. J. Sarnicky. 1,618,872; Feb. 8.
- Automobiles, Safety device for. H. Brown. 1,619,697; Mar. 1.
- Automobiles, Safety fender for. W. H. Mulloy. 1,652,872; Dec. 13.
- Automobiles, Safety steering wheel for. V. C. Doerschuk. 1,650,499; Nov. 22.
- Automobiles, Screen for. N. L. Colliton. 1,639,589; Aug. 16.
- Automobiles, Screen for. R. W. Evans. 1,619,501; Aug. 16.
- Automobiles, Selective four-wheel drive and steering and brake mechanism for. R. H. Lewis. 1,621,211; Mar. 15.
- Automobiles, Side light for. J. F. Styer and T. W. Jones. 1,643,593; Sept. 27.
- Automobiles, Signal apparatus for. E. W. Vose. 1,636,024; July 19.
- Automobiles, Signal-control mechanism for. W. A. Eckert. 1,637,218; July 26.
- Automobiles, Signal-controlling mechanism for. W. A. Eckert. 1,638,091; Aug. 9.
- Automobiles, Signal light for. O. E. Uhlmann. Des. 72,185; Mar. 8.
- Automobiles, Signal-viewing attachment for. B. W. David. 1,637,309; July 26.
- Automobiles, Signaling and direction-indicating apparatus for. A. A. Rosenberg and W. Ollinger. 1,625,565; Apr. 19.
- Automobiles, Signaling apparatus for. J. Weech. 1,620,049; Mar. 8.
- Automobiles, Signaling device for. S. L. Jones. 1,632,181; June 14.
- Automobiles, Signaling means for. C. P. Wicks. 1,614,509; Jan. 18.
- Automobiles, Sled attachment for. E. R. Armstrong. 1,629,061; May 17.

- Automobiles, Sleeve puller for. E. O. Kroells. 1,632,482; June 14.
- Automobiles, Slip-on repair top for. H. Glover. Feb. 1, 1,613,270; Jan. 4.
- Automobiles, Snubber for. W. N. Dunn, sr. 1,651,679; Dec. 6.
- Automobiles, Stabilizer for. B. D. Gibbs. 1,618,851; Feb. 22.
- Automobiles, Starter for. W. C. Starkey. 1,617,775; Feb. 15.
- Automobiles, Steering connecting rod for. M. C. Ridenour. 1,628,914; May 17.
- Automobiles, Steering range for. C. W. Anderson. 1,651,174; Nov. 29.
- Automobiles, Steering stabilizer for. J. F. Cavanagh. 1,633,944; Dec. 12.
- Automobiles, Stop signal for. G. May. 1,627,659; May 10.
- Automobiles, Stop signal for. C. A. Michel. 1,643,465; Sept. 27.
- Automobiles, Storm shield for. C. M. Paulson. 1,638,508; Aug. 9.
- Automobiles, Switch or circuit closer for. C. P. Wicks. 1,614,510; Jan. 18.
- Automobiles, Temperature indicator for. C. A. Dunham. 1,613,745; Jan. 11.
- Automobiles, Theft alarm for. I. L. Ridge. 1,630,968; May 31.
- Automobiles, Theft alarm for. G. H. Stange. 1,648,202; Nov. 8.
- Automobiles, Theft-preventing device for. B. Golembiewski. 1,644,334; Oct. 4.
- Automobiles, Thermally-controlled radiator shutter for. J. F. Raleigh. 1,634,301; July 5.
- Automobiles, Timer for. C. L. Shelton. 1,615,101; Jan. 18.
- Automobiles, Traction appliance for. E. R. Armstrong. 1,613,598; Jan. 11.
- Automobiles, Traction attachment for. F. Fennel. 1,638,329; Aug. 9.
- Automobiles, Traffic signal for. T. M. Campos. 1,642,941; Sept. 20.
- Automobiles, Trailer hitch for. A. L. Coffey. 1,650,189; Nov. 22.
- Automobiles, trucks, trailers, and the like, Automatic controlling mechanism for. W. M. Moxley. 1,636,064; July 19.
- Automobiles, Trunk carrier for. C. S. McKenney. 1,650,527; Nov. 22.
- Automobiles, Tube-repairing attachment for. E. R. Justice. 1,640,327; Aug. 23.
- Automobiles, Ventilating screen for. C. A. Baker. 1,638,610; Aug. 9.
- Automobiles, Vibration absorber for. H. R. Lloyd and J. W. Ellis. 1,641,856; Sept. 6.
- Automobiles, Vibration check for. J. P. Thomason. 1,632,840; Jan. 4.
- Automobiles, Visor for. O. E. Grigsby. 1,615,079; Jan. 18.
- Automobiles, Wind deflector for. B. Jassen. 1,634,290; July 6.
- Automobiles, Wood-saw attachment for. W. P. Mathews. 1,616,815; Dec. 13.
- Automotive brake. A. J. Chapin. 1,622,419; Mar. 29.
- Automotive brake. H. B. Elliott. 1,636,686; July 26.
- Automotive brake. F. P. Livingston. 1,650,286; Nov. 22.
- Automotive equipment. P. M. Krantz. 1,642,960; Sept. 20.
- Automotive tool. H. A. Girard. 1,623,786; Apr. 5.
- Aviation. C. L. Anderson. 1,639,833; Aug. 23.
- Aviation device. E. G. Still. 1,634,239; June 28.
- Aviator's suit. W. R. Furlman. 1,640,270; Aug. 23.
- Awning. B. J. Bliss. 1,622,245; Mar. 22.
- Awning. M. Bretos y Clavero. 1,635,608; July 12.
- Awning. C. L. Clement and E. W. Hildebrandt. 1,630,416; May 31.
- Awning. J. L. Emig. 1,652,566; Dec. 13.
- Awning. O. T. Gregory. 1,645,697; Oct. 18.
- Awning. W. R. Torbert. 1,620,045; Mar. 8.
- Awnings and side wall panel for summer or outing houses or cottages, Combination. C. B. Leffert. 1,631,214; June 7.
- Awning, Automobile. F. F. Ashmore and M. W. Crum. 1,653,106; Dec. 20.
- Awning, Automobile. L. O. Struble and C. E. Hanly. 1,637,971; Aug. 2.
- Awning bracket. R. C. Campbell. 1,645,737; Oct. 18.
- Awning construction. S. G. Gist. 1,618,184; Feb. 22.
- Awning fabric and making the same, Ornamental. A. Swanfeldt. 1,625,690; Apr. 19.
- Awning fastener. J. H. Stone. 1,613,855; Jan. 11.
- Awning for automobile doors. G. V. Blackford. 1,625,788; Apr. 26.
- Awning for automobile windows. J. K. Schwinger. 1,651,160; Nov. 29.
- Awning for windows. R. W. Richards. 1,633,275; June 21.
- Awning frame. T. C. Glrton and F. J. P. Kuhlmann. 1,620,958; Mar. 15.
- Awning. Metal. H. D. Cloud and C. Bitterman. 1,615,214; Jan. 25.
- Awning. Metal. H. D. Cloud and C. Bitterman. 1,643,334; Nov. 8.
- Awning-operating device. H. J. and J. F. Baumann. 1,643,281-2; Sept. 20.
- Awning-raising mechanism. E. H. Schane and E. Durant. 1,616,917; Feb. 1.
- Awning-roller center support. J. Derus. 1,615,830; Feb. 1.
- Awning structure. E. S. Johnson. 1,640,660; Aug. 30.
- Awning structure. W. R. Torbert. 1,620,500; Mar. 8.
- Awning support. E. E. McGrew. 1,621,941; Mar. 22.
- Awning, Window. H. Greenspoon. 1,646,910; Oct. 25.
- Awning, Window. W. A. Whitehead. 1,633,467; June 21.
- Awnings, Clamping member for. E. H. Schane. 1,628,687; May 17.
- Ax sheath. E. O. Estwing. 1,633,319; June 21.
- Axial thrust of rotatable shafts, Device suitable for measuring the. C. A. Parsons and S. S. Cook. 1,645,450; Apr. 12.
- Axle-aligning gauge. C. C. Bennett. 1,653,249; Dec. 20.
- Axle-alignment gauge. A. O. Wanger. 1,652,848; Dec. 13.
- Axle and bearing arrangement. T. V. McDonald. 1,617,293; Feb. 8.
- Axle and spindle assembly, Front. J. A. and K. A. Pedersen. 1,653,061; Dec. 20.
- Axle arrangement. C. M. Ebel. 1,653,156; Dec. 20.
- Axle assembly, Front. E. R. Carey. 1,635,706; July 12.
- Axle assembly, Road-grader. F. E. Arndt. 1,624,127; Apr. 12.
- Axle attachment. O. Olsen. 1,624,278; Apr. 12.
- Axle wedge mechanism. R. C. Shipley and J. R. Quigg. 1,623,640; Apr. 5.
- Axle construction, Drive. L. Blackmore. 1,644,707; Oct. 11.
- Axle construction, Front. T. H. Oppenheim and B. Schorst. 1,636,953; Aug. 16.
- Axle drive. J. J. Balaun. 1,613,371; Jan. 4.
- Axle drive, Balanced rear. A. H. Asprooth and A. M. Leoni. 1,619,051; Mar. 1.
- Axle for tramway, railway and other vehicles. P. Algrain. 1,618,040; Feb. 15.
- Axle housing. H. S. Holmes. 1,615,083; Jan. 18.
- Axle housings, Making. H. Ford. 1,621,007; Mar. 15.
- Axle housings, Making. A. L. Lambert. 1,620,616; Mar. 8.
- Axle housings, Making. C. S. Smith. 1,643,225; Sept. 20.
- Axle housings, Preventing leaking of oil from. G. F. Benson. 1,645,578; Oct. 18.
- Axle housings, Making. A. G. M. Michell. 1,617,686; Feb. 15.
- Axle-measuring instrument. T. F. Segers. 1,650,770; Nov. 29.
- Axle mount, Stub. A. D. Robbins. 1,654,142; Dec. 27.
- Axle transmission. R. B. McCormick. 1,641,859; Sept. 6.
- Axle transmission mechanism, Rear. N. L. Olson. 1,630,210; May 24.
- Axle, Vehicle. A. I. Marcum. 1,653,114; Dec. 20.
- Axles, Gauge for. L. B. Halphen. 1,647,864; Nov. 1.
- Axles, Lubricating device for railway vehicle. E. Mooney. 1,638,640; Aug. 9.
- Axles, Wheel attachment for automobile rear. W. C. Nabors. 1,613,900; Jan. 11.
- Azodyestuffs and vat dyestuffs on the vegetable fiber and in materials dyed or printed according to such process, Producing combined shades of. G. Petzold and H. Bittner. 1,640,803; Aug. 30.
- Azodyestuffs, Copper. T. H. Leaming. 1,618,762; Feb. 22.
- Azodyestuffs derived from formaldehyde sulphuric acid and nitrated 1-(azo-naphthol)-2-hydroxy-naphthalene-4-sulphonic acid and making same, Chromable. F. Straub and H. Schneider. 1,633,874; June 28.
- B batteries, Switch for. A. P. Fahnstock and A. A. Danda. 1,649,107; Nov. 15.
- Babbling frame. C. J. Kuschel. 1,624,605; Apr. 12.
- Baby carriage. S. J. Bens. 1,616,676; Feb. 8.
- Baby carriage, Collapsible. M. Hartenstein. 1,636,093; July 19.
- Baby carriage, Collapsible. W. R. Oyston. 1,620,281; Mar. 8.
- Baby-carriage rocking and rolling mechanism. J. J. Vleck. 1,617,037; Feb. 8.
- Baby carriage, Twin. J. A. Mahr. 1,617,215; Feb. 8.
- Baby holder. D. Cagle. 1,616,349; Feb. 1.
- Baby jumper. D. H. Hawkins. 1,613,657; Jan. 11.
- Baby suit. E. M. Zichy. 1,653,246; Dec. 20.
- Baby-suit. Convertible. F. A. Abraham. 1,641,952-3; Sept. 13.
- Baby walker. J. D. Brand. 1,613,436; Jan. 4.
- Baby walker. A. W. Hawkinson. 1,622,108; Mar. 22.
- Baby walker. J. O. Wilson. 1,638,426; Aug. 9.
- Baby's chair. W. C. Schneider. 1,647,200; Nov. 1.
- Back adjustment. R. H. Irvine. 1,642,150; Sept. 13.
- Back-riding brake. F. J. Olsen. 1,648,421; Nov. 8.
- Back-up post, Rotary. C. W. Perkins. 1,621,467; Mar. 15.
- Bacon or ham, Preservation of. T. W. Morris. 1,627,057; May 3.
- Bacterium specific for rheumatic fever and utilizing the same in the prevention and treatment of rheumatic fever. J. C. Small. 1,626,445; July 19.
- Badge. J. Bloom. Des. 73,687; Oct. 25.
- Badge. J. C. Day. 1,626,133; Apr. 26.
- Badge. M. I. Gerson. Des. 73,403; Sept. 6.
- Badge. S. O. Fraser. Des. 71,963; Feb. 8.
- Badge. W. H. Harris. Des. 72,266; Mar. 22.
- Badge. J. Harsett. Des. 74,054; Dec. 13.
- Badge. D. F. Lybarger. Des. 71,875; Jan. 18.
- Badge or like article. S. Zubrow. Des. 72,509; Apr. 19.

- Badge or similar article. J. G. Agnew and R. K. Pond. Des. 72,339; Apr. 5.
- Badge or similar article. B. J. De Passe. Des. 72,764; May 31.
- Badge or similar article. L. Edwards. Des. 72,006; Feb. 15.
- Badge, Sesquicentennial. M. Newrock. Des. 71,847; Jan. 11.
- Baffle plate in valve chamber. A. Taub. 1,623,322; Apr. 5.
- Baffle, Superheater. B. Broido. 1,633,975; June 28.
- Baffle to be set automatically. B. Goldman. 1,651,816; Dec. 6.
- Baffle wall. E. W. Ashenden. 1,652,157; Dec. 13.
- Baffle-wall form. M. Liptak. 1,646,096; Oct. 18.
- Baffle wall. J. A. Macdowell. 1,610,458; Feb. 8.
- Baffling and separating structure. O. H. Eschholz. 1,637,372; Aug. 2.
- Bag. *See*—
- Air bag. Paper bag.
- Brief bag. Punching bag.
- Clothspin bag. Sand bag.
- Fruit-picker's bag. Shopping bag.
- Garment bag. Siftproof bag.
- Golf bag. Sleeping bag.
- Hand bag. Swimming bag.
- Hot-water bag. Tea bag.
- Mattress and sleeping bag. Travel bag.
- Moth bag. Traveling bag.
- Mothproof bag. Vanity hand bag.
- Multiply bag. Water bag.
- Neck bag.
- Bag, M. Pomeranz. 1,649,976; Nov. 22.
- Bag and making it. Multiplex. W. L. Taylor. 1,632,521; June 14.
- Bag and twine holder. Paper. E. A. Carlson. 1,630,606; May 31.
- Bag clasp and catch, Combined. W. C. Hiering. 1,623,595; Apr. 5.
- Bag closure. J. Tamassy. 1,617,508; Feb. 15.
- Bag construction. E. O. Nelson. 1,652,679; Dec. 13.
- Bag-delivering machine. E. Blacker. 1,628,301; May 10.
- Bag-delivery mechanism. T. M. Avery. 1,618,042; Feb. 15.
- Bag expander. E. L. Kischel and W. M. Seitzinger. 1,615,014; Jan. 18.
- Bag fastener. W. C. Hiering. 1,639,293; Aug. 16.
- Bag-filling apparatus. D. Belcher. 1,653,200; Dec. 20.
- Bag-filling device. P. Lassen. 1,639,517; Aug. 16.
- Bag-filling machine. E. L. Bushman, K. L. Curtis, and J. Ward. 1,629,860; May 24.
- Bag-filling machine. N. M. Fegely. 1,634,538; July 5.
- Bag-filling machine. L. D. Nelson. 1,628,179; May 10.
- Bag-filling machine. L. D. Nelson. 1,628,289; May 10.
- Bag for ladies. Hand. T. J. Lewis. 1,617,855; Feb. 15.
- Bag frame. A. Bellingrath. 1,639,977; Aug. 23.
- Bag frame. W. C. Hiering. 1,619,919; Jan. 4.
- Bag frame. F. T. Stuart. 1,616,705; Feb. 8.
- Bag frame. F. T. Stuart. 1,617,553; Feb. 15.
- Bag frame, Collapsible. W. C. Hiering. 1,622,716; Mar. 29.
- Bag-frame fastener. W. C. Hiering. Des. 71,873-4; Jan. 18.
- Bag frame, Hand-. E. B. and E. Poeter. Des. 73,333; Aug. 23.
- Bag frames, Hinge for. F. T. Stuart. 1,636,019; July 19.
- Bag-handle connection. W. A. Lotz. 1,621,076; Mar. 15.
- Bag holder. J. L. Hayer. 1,650,447; Nov. 22.
- Bag holder. F. L. Johnson. 1,620,819; Mar. 15.
- Bag holder. J. Leicht, jr. 1,640,084; Aug. 23.
- Bag holder. C. C. Ludy. 1,625,480; Apr. 19.
- Bag holder. J. Sztogryn. 1,632,808; June 21.
- Bag holder. J. Rigby. 1,637,131; July 26.
- Bag holder, Paper-. H. L. Snyder. 1,619,547; Mar. 1.
- Bag holder, Tobacco-. P. E. Hart. 1,640,236; Aug. 23.
- Bag liner. F. E. Roethermel. 1,614,993; Jan. 18.
- Bag lock. W. C. Hiering. 1,654,079; Dec. 27.
- Bag lock. F. T. Stuart. 1,620,171; Mar. 8.
- Bag machines, Decorating device for automatic. D. A. Sandin. 1,641,828; Sept. 6.
- Bag making and printing machine. T. M. Avery. 1,618,041; Feb. 15.
- Bag or envelope, Paper. W. G. Thomlinson. 1,644,095; Oct. 4.
- Bag or lining. F. T. Robinson. 1,624,626; Apr. 12.
- Bag or sack counter. E. Armstrong. 1,613,552; Jan. 4.
- Bag rack. J. Medlock. 1,642,619; Sept. 13.
- Bag-sealing machine. J. Frank. 1,646,397; Oct. 25.
- Bag-valving apparatus. C. G. Kronmiller and J. E. Cornell. 1,650,895; Nov. 29.
- Bags and the like, Handle for hand. D. I. Reiter. 1,639,574; Aug. 16.
- Bags and the like, Loop or ring fastener for. W. Brauns and W. J. Walker. 1,636,121; July 19.
- Bags, Attachment for ladies'. M. Asherman. 1,627,224; May 3.
- Bags, Fabric material and obtaining same from cement. J. Laro. 1,628,201; Apr. 26.
- Bags, Hanger for wardrobe. D. London. 1,638,945; Aug. 16.
- Bags, Latch device for hand. S. Steinman. 1,634,918; July 5.
- Bags, Machine for making paper. D. Appel. 1,631,452; June 7.
- Bags, Machine for stapling handles on. T. M. Avery. 1,624,854; Apr. 12.
- Bags, Making. A. M. Bates. 1,636,545; July 19.
- Bags, Making paper. D. Appel. 1,621,076; Mar. 15.
- Bags, Method and apparatus for compressing loose material in. C. Nagel. 1,649,362; Nov. 15.
- Bags or the like, Safety means for hand. J. P. Williams. 1,643,106; Sept. 20.
- Bagasse board and making the same. C. W. Mason. 1,627,103; Mar. 5.
- Bagasse, Process and apparatus for treating. H. Istelli. 1,645,242; Oct. 11.
- Baggage carrier. G. H. Wheary. 1,624,297; Apr. 12.
- Baggage carrier. G. H. Wheary. 1,652,653; Dec. 13.
- Baggage-check holder. R. M. Bunce. 1,624,472; Apr. 12.
- Bagging apparatus. H. S. Johns. 1,647,767; Nov. 1.
- Bagging, Carrying. G. G. Westerfield. 1,648,859; Oct. 18.
- Ball-securing means. M. Hänel. 1,626,529; Apr. 26.
- Ballier dump. S. A. Rutner. 1,625,686; Apr. 19.
- Ballier top, Swivel. F. J. Hinderliter. 1,624,948; Apr. 19.
- Ballier, Well. G. W. Clarke. 1,621,627; Mar. 22.
- Bait. H. E. Heimburger. 1,618,083; Feb. 15.
- Bait. J. C. Jeffries. 1,653,400; Dec. 20.
- Bait and the like, Container for artificial. G. B. Griffin. 1,624,116; Apr. 12.
- Bait, Artificial. S. F. Davenport. 1,645,644; Oct. 18.
- Bait, Artificial. G. E. Fenner. 1,615,747; Jan. 25.
- Bait, Artificial. C. H. Hughes and B. E. Kothe. 1,627,512; May 3.
- Bait, Artificial. J. E. Pfueger. 1,615,803; Jan. 25.
- Bait, Artificial. A. J. Putnam and J. W. Wilson. 1,624,233; Apr. 12.
- Bait, Artificial. C. M. Rodgers. 1,644,151; Oct. 4.
- Bait, Artificial fish. J. T. Welch. 1,635,518; July 12.
- Bait, Artificial fish. T. J. Carter. 1,616,485; Feb. 8.
- Bait box. H. A. Roat. 1,619,634; Mar. 1.
- Bait box. J. M. Wattawa. 1,625,006; Apr. 19.
- Bait, Fish. W. Stanley. 1,615,963; Feb. 1.
- Bait, Fishing. J. B. Pagnin. 1,636,832; July 26.
- Bait, Fishing. J. B. Pagnin. 1,636,832; July 26.
- Bait, Lure. 1,617,001; Feb. 8.
- Bait or lure and finishing the same, Artificial. C. C. Sinclair and F. A. Phelps. 1,639,863; Aug. 23.
- Bait trap and carrier, Fisherman's. L. Marsh and O. J. Dufresne. 1,620,617; Mar. 8.
- Baking crumb, Support for. M. A. Miller. 1,641,090; Aug. 30.
- Baking outfit. C. Pleischer. 1,652,325; Dec. 13.
- Baking pan. H. B. Cramer. 1,625,525; Apr. 19.
- Baking pan. E. D'Evelyn. 1,621,315; Mar. 15.
- Baking pan. H. A. Lockwood. 1,623,692; Apr. 5.
- Baking pan. W. Ziegler. 1,627,192; May 12.
- Baking pan, cooking utensil, and mold, Combined. W. von Elm. 1,627,757; May 10.
- Baking pan, Covered. J. G. Jackson. 1,628,885; May 17.
- Baking pan, Covered. A. Katzinger. 1,631,734; June 7.
- Baking pan, Metal. C. A. Massing. Des. 73,326; Aug. 23.
- Baking pan, Reinforced. A. Katzinger. 1,627,542; May 3.
- Baking pan, Reinforced. A. Katzinger. 1,634,248; June 28.
- Baking pan, Reinforced drawn. A. Katzinger. 1,627,650; May 10.
- Baking powder. H. Schneider and F. Rahn. 1,641,013; Aug. 30.
- Baking receptacle. H. G. Sibbald. 1,630,140; May 24.
- Balance indicator. R. D. Evans. 1,624,484; Apr. 12.
- Balanced wheel drive. A. H. Asprooth and A. M. Leoni. 1,616,343; Feb. 1.
- Balancing block. H. J. Sargent. 1,648,199; Nov. 8.
- Balancing device. C. H. Hagood. 1,651,272; Nov. 29.
- Balancing machine. G. T. Johnson. 1,625,259; Apr. 19.
- Balancing machine. C. R. Soderberg. 1,649,148; Nov. 15.
- Balancing machine. C. R. Soderberg. 1,652,502; Dec. 13.
- Balancing machine. M. C. Torrey. 1,639,444; Aug. 16.
- Balancing machine. W. E. Trumpler. 1,649,143; Nov. 15.
- Balancing machine. W. E. Trumpler. 1,652,505; Dec. 13.
- Balatas and gutta-perchas, Treating. C. H. Smith. 1,614,541; Jan. 18.
- Balquettes, Round. J. A. Taft. 1,648,248; Nov. 8.
- Bale-dividing device. A. C. Barrows. 1,637,543; Aug. 2.
- Bale-tearing machine. F. Colley. 1,623,936; Apr. 5.
- Bale-tie machine. R. Hewitt. 1,627,533; May 3.
- Baling machine. L. W. Hurff. 1,627,904; May 10.
- Baling press. H. Hill. 1,646,355; Oct. 18.
- Baling press. G. W. Langford. 1,650,992; Nov. 29.
- Baling press. T. Williams and C. A. Swart. 1,650,677; Nov. 29.
- Baling press, Duplex. M. Hickman. 1,627,327; May 3.
- Bales, Piling cotton. E. L. Barnes. 1,617,743; Feb. 15.
- Ball. *See*—
- Cricket, hockey, and the Playing ball.
- Game ball. Rubber ball.
- Game ball. Signal ball.
- Gear-shift-lever ball. Tank ball.
- Indefatible ball. Toy ball.
- Play ball. Whistling ball.
- Ball, F. Scholly. 1,629,364; May 17.
- Ball, L. Schwartz. 1,614,853; Jan. 18.
- Ball and making same, Playing. A. H. Adams. 1,641,144; Sept. 6.
- Ball and seat. J. F. Larkin. 1,617,603; Feb. 15.
- Ball-and-socket joint. F. Faudl. 1,653,352; Dec. 20.
- Ball-bearing mounting. A. Master. 1,626,092; Apr. 26.

- Ball-bearing rail. M. Snee. 1,652,461; Dec. 13.
 Ball-bearing spindle. Self-oiling. F. H. Chapman. 1,638,394; Aug. 9.
 Ball bearings. Ball retainer for. D. F. Chambers. 1,627,232; May 3.
 Ball bearings, Cage for. A. H. Linde. 1,638,537-8; Aug. 9.
 Ball bladder, Game. G. L. Lawrence, jr. 1,631,740; June 7.
 Ball catcher. W. H. Jones and A. Eberle. 1,623,543; Apr. 5.
 Ball cleaner. J. E. Lawler. 1,639,740; Aug. 23.
 Ball cock. C. H. Gunn. 1,645,558; Sept. 27.
 Ball cock. J. A. Sherman and W. H. Sheppard. 1,629,546; May 24.
 Ball-cone elements, Making. B. G. Nice. 1,630,715; May 31.
 Ball cover. T. J. Hartman. 1,649,063; Nov. 15.
 Ball-grinding machine. W. B. Gardiner. 1,629,864; May 24.
 Ball holder or similar article. K. H. Ober. Des. 72,027; Feb. 15.
 Ball joint. A. Y. Dodge. 1,635,468; July 12.
 Ball-joint case, Separable cover for universal. A. A. Linley. 1,624,262; Apr. 12.
 Ball lights, Detachable stencil for. L. H. Buchanan. 1,636,679; Aug. 9.
 Ball-making machine, Metallic. M. W. Magann. 1,629,464; May 17.
 Ball mill. W. M. Barker. 1,636,585; July 19.
 Ball mill. P. L. Crowe. 1,627,487-8; May 3.
 Ball mill, Air swept. H. H. Waterman. 1,630,992; May 31.
 Ball mills and making same, Grate for. F. E. Marcy. 1,629,803; May 24.
 Ball mills, Screen grate for. W. Currie. 1,637,986; Aug. 2.
 Ball or tube mill. W. B. Koppen and C. Pfeiffer. 1,630,138; July 19.
 Ball race. F. T. Farmer. 1,643,156; Sept. 20.
 Ball retainers, Making. H. N. Parsons. 1,629,173; May 17.
 Ball rocketing and catching device. J. H. French. 1,615,266; Jan. 25.
 Ball transmission. G. S. Morison. 1,634,507; July 5.
 Ball-turning device. W. E. Ingham. 1,626,936; May 3.
 Balls, Making inflated. F. T. and W. E. Roberts. 1,649,734; Nov. 15.
 Balls of any kind, Device for closing the air bladders of sport. A. W. Turner. 1,620,245; Mar. 8.
 Ballast-cleaning machine. W. J. Shannon. 1,632,045; June 14.
 Ballast digging and cleaning machine. G. C. Melin. 1,625,864; Apr. 26.
 Ballast plate. J. H. Christie. 1,650,819; Nov. 29.
 Ballast-screening machine. H. G. Warr. 1,613,420; Jan. 4.
 Balloon. J. F. Cooper. 1,617,011; Feb. 8.
 Balloon capable of being employed as a captive observation balloon and as a dirigible. L. Avorio. 1,629,374; May 17.
 Balloon, Dirigible. L. M. Campau. 1,648,935; Nov. 15.
 Balloot box, Registering and indorsing. R. D. Tolman. 1,618,691; Feb. 22.
 Balloting system and the like. J. B. Fischer. 1,624,045; Apr. 12.
 Bandage and the like, Massage. J. Mildeberg. 1,646,590; Oct. 25.
 Bandage compress. R. W. Johnson. 1,622,948; Mar. 29.
 Bandage-dispensing device. J. A. Swanson and A. A. Pollak. 1,626,257; Apr. 26.
 Bandage, Eye. J. L. Robinson. 1,642,661; Sept. 13.
 Bandage, Surgical. E. W. Blake. 1,644,508; Oct. 4.
 Bandage, Suspensory. A. R. Chisholm. 1,638,525; Aug. 9.
 Bandages, Fastener particularly for. R. Schuftan. 1,633,681; June 28.
 Bandeau. N. Bichel. 1,637,177; July 26.
 Bandeau and permanent wave, Lady's. W. J. Gaskell. 1,652,933; Dec. 13.
 Banding machine. V. D. Barker. 1,621,052; Mar. 15.
 Banding machine. J. O. Hunt. 1,618,712; Feb. 22.
 Banding machine. F. X. Malocay. 1,653,646; Dec. 27.
 Banding machine. O. Muller. 1,640,465; Aug. 30.
 Banding machine. A. C. Parker. 1,652,494; Dec. 13.
 Banding mechanism. E. P. Sheldon. 1,649,327; Nov. 15.
 Band-saw wheel. C. E. Tannewitz. 1,645,552; Oct. 18.
 Band-tying gauge. A. Cook. 1,644,414; Oct. 4.
 Band-wheel mechanism, Oiling apparatus for. F. J. Senwimmer and C. S. Wright. 1,648,066; Nov. 8.
 Bands or belts in motion, Apparatus for guiding flexible. M. Landraud. 1,644,927; Oct. 11.
 Band. P. Arthur. Des. 74,133; Dec. 27.
 Banjo. F. J. Bacon. 1,649,559; Nov. 15.
 Banjo. F. J. Bacon and D. L. Day. 1,653,424; Dec. 20.
 Banjo. A. J. Bouchard. 1,625,387; Apr. 19.
 Banjo. J. Dopyera. 1,649,101; Nov. 15.
 Banjo. W. L. Lange. 1,623,735; Apr. 5.
 Banjo. W. L. Lange. 1,625,811; Apr. 26.
 Banjo. H. E. Menzemer and M. Cambre. 1,621,735; Mar. 22.
 Banjo. H. H. Slingerland. 1,631,293; June 7.
 Banjo. C. H. Strupe. 1,653,593; Dec. 20.
 Banjo and the like. C. H. Richter. 1,636,244; July 19.
 Banjo bridge. F. J. Bacon and D. L. Day. 1,649,376; Nov. 15.
 Banjo construction. A. D. Grover. 1,636,091; July 19.
 Banjo resonator. H. F. Metz. 1,623,854; Apr. 5.
 Banjo, Ring for a. V. E. Adler. Des. 73,154; Aug. 2.
 Banjo tailpiece, Top adjustable. R. R. Page. 1,626,094; Apr. 26.
 Banjos, Armrest for. A. D. Grover and L. H. Bertram. 1,649,815; Sept. 20.
 Banjos, Tone-modifying device for. W. L. Lange. 1,615,460; Jan. 25.
 Bank and method of protecting money. C. G. Beersman. 1,648,891; Nov. 15.
 Bank, Calendar. W. E. Smily. T. Hannah, and M. E. Winters. 1,633,873; June 28.
 Bank check. A. B. Schilling. Des. 73,359; Aug. 30.
 Bank, Coin. J. Habart. 1,635,664; July 12.
 Bank, Coin. E. Schultz. 1,648,425; Nov. 8.
 Bank, Coin. J. B. Ingalls. 1,619,073; Mar. 1.
 Bank, Coin. J. Kusel. 1,639,344; Aug. 16.
 Bank fortification. A. G. Schwartz. 1,648,365; Nov. 8.
 Bank guard shield. E. A. Hawks. 1,622,034; Mar. 22.
 Bank, Home savings. V. P. Alexander. 1,627,822; May 10.
 Bank ledger. A. J. Norman. 1,621,806; Mar. 22.
 Bank, Metallic. J. Slinko and D. Szantay. 1,647,547; Nov. 15.
 Bank protector. J. C. Lucas. 1,619,982; Mar. 8.
 Bank, Receiving. E. M. Hawkins. 1,626,933; May 3.
 Bank Savings. H. S. Goodman. 1,626,408; Apr. 26.
 Bank Savings. B. F. Greer. 1,624,335; Apr. 12.
 Bank Savings. H. J. Halverson and W. H. Youngstrom. 1,640,569; Aug. 30.
 Bank Savings. S. J. Mirosav. 1,638,404; Aug. 9.
 Bank Savings. M. Morris. 1,653,653; Dec. 27.
 Banks and the like, Protecting. E. J. Buckman. 1,642,641; Sept. 13.
 Banks, Protective apparatus for. A. E. Bergquist. 1,646,344; Oct. 18.
 Bar: See—
 Boring bar. Steel bar.
 Core bar. Stop bar.
 Grate bar. Tracker bar.
 Lining bar. Tractor draw bar.
 Metal bar. Type bar.
 Musical bar. Wheel-spoke bar.
 Spiral bar.
 Bar and making same, Connecting. H. T. Anderson. 1,615,821; Feb. 1.
 Bar and method of manufacture, Splice. E. S. Seavey. 1,646,170; Oct. 18.
 Bar and shelf bracket. R. E. Jordan. Des. 73,038; July 12.
 Bar cuff link. E. F. Clark. 1,631,246; June 7.
 Bar for foundry flasks. C. H. Estes. 1,627,165; May 3.
 Bar joist, Support for. G. F. Pawling. 1,614,570; Jan. 18.
 Bar mills, Roller-nozzle guide for. E. W. Auer and S. Pastorius. 1,615,608; Jan. 25.
 Bar structure, Connected. H. Nagin. 1,631,691; June 7.
 Bar support. W. C. Burrell. 1,651,946; Dec. 6.
 Bar support. H. H. Lampert. 1,648,952-3; Nov. 15.
 Bar support, Twin. W. E. White. 1,621,184; Mar. 15.
 Bars, Gauge and support for. W. E. White. 1,631,609; June 7.
 Bars, Machine for cutting or severing metallic. F. Schies. 1,625,748; Apr. 19.
 Bars, Making hollow. T. S. Wheelwright. 1,618,142; Feb. 15.
 Bars, Support and spacer for. W. E. White. 1,625,838; Apr. 26.
 Barber pole. R. Dixon. Des. 73,425; Sept. 13.
 Barber's chair, Seat for. R. Hyndron and D. Forsyth. 1,630,432; May 31.
 Barber's comb. J. W. Burke. 1,628,577; May 10.
 Barber's hair cloths, Clasp for. A. Vedetta. 1,617,089; Feb. 8.
 Barb-wire support. J. E. Hunt and C. Ashton. 1,618,929; Feb. 22.
 Barge, Air floated. V. F. Casey. 1,621,625; Mar. 22.
 Barge, Air-propelled. H. Sundstedt. 1,641,937; Sept. 6.
 Barge-unloading apparatus. I. A. Ryan. 1,631,065; May 31.
 Barium carbonate and barium sulphhydrate, Making precipitated. J. E. Pierce, jr. 1,634,338; July 5.
 Barium carbonate, Making. J. E. Marwedel and J. Looser. 1,615,515; Jan. 25.
 Barium carbonate, Manufacture of pure. F. Falco. 1,640,652; Aug. 30.
 Barium chloride, Production of. H. S. McQuaid. 1,648,143; Nov. 8.
 Barium sulphide, Manufacturing. G. Richardson. 1,648,870; Nov. 8.
 Bark peeler. H. R. Hills. 1,627,901; May 10.
 Bark scutten. L. T. Peterson. 1,644,028; Oct. 4.
 Barometer. H. Long. Des. 72,323-4; Mar. 29.
 Barometer. H. Long. Des. 72,715; May 24.
 Barometer, Mercurial. P. E. Klopsteg and H. P. Sachse. 1,632,084; June 14.
 Barometer-setting means. P. R. Jameson. 1,632,736; June 14.
 Barrel. R. J. Bell. 1,651,317; Nov. 29.
 Barrel. E. C. Walker. 1,652,962; Dec. 13.
 Barrel and the like hoop and the joining the ends. J. F. Watt. 1,653,829; Dec. 27.

- Barrel bung. F. J. Nagel. 1,653,818; Dec. 27.
 Barrel closure. G. H. Ames. 1,630,510; May 31.
 Barrel. Core. O. M. Carter. 1,640,264; Aug. 23.
 Barrel. Core. J. T. Phipps. 1,644,947; Oct. 11.
 Barrel. Core. W. N. Thompson. 1,636,084; July 19.
 Barrel cover. E. S. Hopson. 1,649,032; Nov. 15.
 Barrel. Knockdown. J. W. and G. F. Smoak. 1,648,786; Nov. 8.
 Barrel-lining machine. W. A. Lorenz. 1,653,434-5; Dec. 20.
 Barrel-reversing mechanism. E. F. Beugler. 1,632,110; June 14.
 Barrel staves and the like. Machine for cutting tongues and grooves in. W. W. Trevor and H. L. Abbott. 1,649,373; Nov. 15.
 Barrels and the like. Machine for operating on. W. W. Trevor and D. A. Berean. 1,648,372; Nov. 8.
 Barrels. Making sheet-metal. C. H. Riegel. 1,645,971; Oct. 18.
 Barrels or other containers. Machine for operating on. D. A. Berean and W. W. Trevor. 1,647,980; Nov. 8.
 Barrels. Stirrer for. S. Richman. 1,621,277; Mar. 15.
 Barrette. W. T. Battle. 1,625,587; Apr. 19.
 Barrette. F. Sokol. 1,633,616; June 28.
 Barrette. D. L. Van Sickle and W. H. Cavin. 1,624,449; Apr. 12.
 Barrier. Highway. G. T. O'Maley. 1,651,221; Nov. 29.
 Barrier or fence against locusts. N. G. Marengo. 1,641,709; Sept. 6.
 Barytes. Refining. W. J. O'Brien. 1,633,347; June 21.
 Base-attached plotting instrument. A. C. White. 1,620,311; Mar. 8.
 Base. Automatically-adjustable. U. J. Dages. 1,650,433; Nov. 22.
 Baseball center. S. Lannom, jr. 1,636,518; July 19.
 Baseball center and producing the same. W. H. Fox. 1,631,317; June 7.
 Baseball game. H. C. Franke and C. C. Bangs. 1,625,200; Apr. 19.
 Baseball game. Automatic. E. B. Ropp. 1,643,522; Sept. 27.
 Baseball machine. Mechanical. W. J. Schmid. 1,617,546; Feb. 15.
 Base or support. Folding. S. M. Dover. 1,642,231; Sept. 13.
 Bed plate for a drawer pull. E. Burton. Des. 74,095; Dec. 20.
 Basin. Washing. R. O. Krasselt. 1,636,865; July 26.
 Basket. A. L. Kelley. Des. 73,260; Aug. 16.
 Basket. C. R. Mori. 1,628,176; May 10.
 Basket. H. J. O'Brien and A. E. Page. 1,616,983; Feb. 8.
 Basket. A. P. Smith. 1,642,181; Sept. 13.
 Basket-ball goal. A. E. Sandeberg. 1,614,970; Jan. 18.
 Basket. Berry. R. M. Oliver and G. R. Penn. 1,652,251; Dec. 13.
 Basket. Clothes. I. E. Lobeck. 1,640,280; Aug. 23.
 Basket. Collapsible. R. W. Birch. 1,639,921; Aug. 23.
 Basket. Fireplace. E. H. Sholar. 1,650,903; Nov. 22.
 Basket. Folding wire. V. B. Nuckols. 1,617,494; Feb. 15.
 Basket. Fruit packing. W. A. Breckon. 1,631,005; May 31.
 Basket. Frying. W. B. Willis. 1,634,733; July 5.
 Basket handle. F. J. Bralnard. 1,620,941; Mar. 15.
 Basket handle. Attachable wire. F. E. Comstock. 1,614,105; Jan. 11.
 Basket. Laundry. N. Carruth. 1,642,643; Sept. 13.
 Baskets and the like. Cover for. J. Armstrong. 1,650,003; Nov. 22.
 Baskets. Backing for centrifugal. E. Roberts. 1,625,377; Apr. 19.
 Baskets. Handle for shipping. F. A. Reiss. 1,622,674; Mar. 29.
 Baskets. Handle for wooden. H. W. Kramer. 1,644,478; Oct. 4.
 Baskets. Handy top for fish. R. E. Eaton. 1,617,994; Feb. 15.
 Baskets. Machine for making. W. F. Newhouse. 1,643,287; Sept. 20.
 Baskets. Screen for centrifugal. E. Roberts. 1,625,376; Apr. 19.
 Bathing apparatus. W. M. Venable. 1,624,122; Apr. 12.
 Bathing apparatus. W. M. Venable. 1,624,376; Apr. 12.
 Bathing apparatus. W. M. Venable. 1,650,249; Nov. 22.
 Bath. See—
 Hot-air bath.
 Bath appliance. V. E. Schmiedeknecht. 1,639,705; Aug. 23.
 Bath-brush holder. W. M. Brown. 1,639,366; Aug. 16.
 Bath cabinet. Light, color, and radiant ray. G. L. Abell. 1,618,158; Feb. 22.
 Bath hood. Facial-. W. Hamlet. 1,650,270; Nov. 22.
 Bathroom for cage birds. E. D. Hooey. 1,616,223; Feb. 1.
 Bath mat. A. A. Boschelli. 1,618,165; Feb. 22.
 Bath mit. A. Benussi. 1,619,180; Mar. 1.
 Bathroom fixture. L. Block. 1,647,983-4; Nov. 8.
 Bathroom fixture. S. A. Frolking. Des. 72,866-7; Apr. 5.
 Bathroom fixture. J. G. Zolleis. 1,639,248; Aug. 16.
 Bathroom fixture. Combination. J. H. Balmer. Des. 72,543-44; May 3.
 Bathroom fixture. Combination. J. H. Balmer. Des. 72,591; May 24.
 Bathroom. Portable. J. F. Murphy. 1,632,668; June 14.
 Bathroom unit. A. K. White. 1,628,945; May 10.
 Bathroom wall fixture. S. E. Sharwood. Des. 72,804; June 7.
 Bathub. C. T. E. Gould. 1,633,582; June 28.
 Bathub. H. E. Henricks. Des. 73,911; Nov. 22.
 Bathub. M. Mirkin. 1,650,720; Nov. 29.
 Bathub and shower casing. Combined. F. Fort. Des. 72,942; June 28.
 Bathub appliance. R. Graves. 1,650,067; Nov. 22.
 Bathub cover. H. Levy. 1,638,346; Aug. 9.
 Bathub mat. S. Johnstone. 1,615,706; Jan. 25.
 Bathub seat. W. H. Pozarth. 1,633,310; June 21.
 Bathub and shower. Chain and plug holder for. A. C. Crocker. 1,645,986; Oct. 18.
 Bathubs and lavatories. Waste valve for. J. N. Mortimer. 1,630,352; May 31.
 Bathubs. Cover attachment for. J. E. Tierney. 1,615,351; Jan. 25.
 Bathubs. Drying rack for. F. M. Turner. 1,628,936; May 17.
 Bathubs. Steaming appliance to be attached to. E. Lander. 1,650,798; Nov. 29.
 Bathubs. Step for. A. Webner. 1,641,514; Sept. 6.
 Bathubs. Vapor-bath attachment for. D. Handlan. 1,652,437; Dec. 13.
 Bath's safety appliance. A. J. La Pierre. 1,617,061; Feb. 8.
 Bathing apparatus. Electromagnetic light. G. von Hütchen. 1,615,295; Jan. 25.
 Bathing suit. T. Davis. Des. 72,310; Mar. 29.
 Bathing suit. C. C. Jantzen. Rel. 783; Nov. 8.
 Bathing suit. W. Osborne, jr. 1,637,157; July 26.
 Bathing suit. E. A. Phillips. 1,650,386; Nov. 22.
 Bathing suit. Buttonless. A. J. Barnett. 1,632,723; June 14.
 Bathing apparatus for giving mud. J. N. Weber. 1,638,401; July 19.
 Baths. Headrest for. E. Seckbach. 1,650,743; Nov. 29.
 Batteries. Antisplash device for storage. A. Halikman. 1,633,407; June 21.
 Batteries. Depolarizer for primary. G. W. Armstrong. 1,638,460; Apr. 12.
 Batteries for leaks. Testing. G. L. Kyle. 1,643,949; Oct. 4.
 Batteries. Making storage. C. W. Hazelett. 1,645,424; Oct. 11.
 Batteries. Manufacturing electrodes for. D. Pepper. 1,653,172; Dec. 27.
 Batteries. Positive electrode for electric. R. Oppenheim. 1,631,642; June 7.
 Batteries. Self-centering core for dry. H. M. Kozetzky. 1,654,177; Dec. 27.
 Battery. See—
 Dry battery. Secondary battery.
 Electric lantern battery. Storage battery.
 Primary battery.
 Battery and battery charger for radio apparatus. Casing for combined. J. L. Rupp. Des. 72,576; May 3.
 Battery. Casing and connector. S. G. and P. L. Breeden. 1,632,535; June 21.
 Battery attachment. Storage. P. M. Marko. 1,653,579; Dec. 20.
 Battery binding post. L. G. Bowen. 1,642,224; Sept. 13.
 Battery box. C. J. Bender. 1,644,641; Oct. 4.
 Battery. Casing. Multicell. J. K. Robinson, jr. 1,633,036; June 21.
 Batteries. Loading. H. Trefzger. 1,631,658; June 7.
 Battery-carrying device. Miner's. J. Metcalfe, sr. 1,653,582; Dec. 20.
 Battery case. C. E. Bobbitt. 1,624,131; Apr. 12.
 Battery case. W. Meyer. 1,647,141; Nov. 1.
 Battery casing. R. H. Wappler. 1,634,475; July 5.
 Battery cell. C. C. Carpenter. 1,632,364; June 14.
 Battery cell. F. A. Keller. 1,640,039; Aug. 23.
 Battery-cell unit and making the same. Electric. H. M. E. Dam. 1,653,000; Dec. 20.
 Battery chargers. Method of and apparatus for controlling. C. Pfansthil. 1,645,720; Oct. 18.
 Battery charging and voltage-regulating system. Automatic. E. D. Smith and W. H. Perkins. 1,649,136; Nov. 15.
 Battery-charging apparatus. E. W. Engle. 1,638,478; Aug. 9.
 Battery-charging apparatus. N. R. Haas. 1,638,305; Aug. 9.
 Battery-charging system. J. H. Hunt. 1,641,386; Sept. 6.
 Battery-charging system. W. E. Menzies. 1,624,420; Apr. 12.
 Battery clamp. H. J. Hick. 1,636,562; July 19.
 Battery clamp and support. F. E. Dayes. 1,651,753; Dec. 6.
 Battery connector. J. O. Luthy. 1,627,442; May 3.
 Battery connector. J. J. Witkowski. 1,645,033; Oct. 11.
 Battery connection. W. E. Gill. 1,624,047; Apr. 12.
 Battery connection. W. E. Goodwin. 1,653,999; Dec. 27.
 Battery connection. S. Osterman. 1,651,726; Dec. 6.
 Battery connection. A. W. Weimer and J. Smith. 1,613,070; Jan. 4.
 Battery connection. Dry-. E. E. Melsekoth. 1,636,478; July 19.
 Battery construction. Dry. E. E. Melsekoth. 1,641,685; Sept. 6.
 Battery container. Storage. C. J. Dunzweiler and M. W. Severance. 1,634,254; July 5.
 Battery filler. J. S. Hooper. 1,624,890; Apr. 12.

- Battery filler. J. Taylor. 1,628,564; May 10.
 Battery-filling device, Liquid. D. C. Sowell. 1,635,444; July 12.
 Battery fluid, Storage-. J. J. Klain. 1,652,945; Dec. 13.
 Battery grid. W. Morrison. 1,650,530; Nov. 22.
 Battery grid-pasting machine, Storage-. B. H. Kraft. 1,626,200; Apr. 26.
 Battery grids, Art of and apparatus for making storage-. T. S. Cole. 1,639,641; Aug. 16.
 Battery holding and carrying means. M. L. Martus, E. H. Becker, and J. G. Ross. 1,624,795; Apr. 12.
 Battery-jar closure, Electric. C. A. Bornarth. 1,649,213; Nov. 15.
 Battery light. L. B. Fish. 1,651,451; Dec. 6.
 Battery light. E. St. John. 1,651,480; Dec. 6.
 Battery of electric accumulators, Portable. A. Dinin. 1,653,949; Dec. 27.
 Battery-plate filling machine. C. M. Angell. 1,627,763; May 10.
 Battery-plate-filling machine. C. M. Angell. 1,644,859; Oct. 11.
 Battery-plate pasting machine. C. M. Angell. 1,627,764; May 10.
 Battery-plate puller. J. Taylor. 1,628,563; May 10.
 Battery plates, Art of and apparatus for making. T. S. Cole and S. Johnson. 1,639,640; Aug. 16.
 Battery plates, Device for joining or burning. W. T. Woodall and C. E. Girtton. 1,625,384; Apr. 19.
 Battery plates, Rack for. S. A. Lehman. 1,621,327; Mar. 15.
 Battery plates, Treating discarded lead. A. Stewart. 1,627,351; May 3.
 Battery-sealing construction. L. J. Pearson. 1,651,226; Nov. 29.
 Battery separator, Wooden. E. S. Humboldt. 1,631,867; June 7.
 Battery support. R. K. Jack. 1,629,665; May 24.
 Battery switch. P. H. Bethe. 1,615,103; Jan. 18.
 Battery terminal. J. Rumore. 1,651,294; Nov. 29.
 Battery terminal. A. W. Welmer and J. Smith. 1,622,362; Mar. 29.
 Battery-terminal connector. E. F. Goeller. 1,633,176; June 21.
 Battery terminal for upright posts. E. E. Ness. 1,614,382; Jan. 11.
 Battery-terminal lifter. C. C. Eichelberger. 1,637,687; Aug. 2.
 Battery terminals and other electrical conductors, Connector for. H. E. Atkinson. 1,653,833; Dec. 27.
 Battery terminals, Puller for. H. J. Noack. 1,641,599; Sept. 6.
 Battery unit and producing same. C. P. Deibel and W. G. Waitt. 1,625,848; Apr. 26.
 Batting process. W. B. Wescott. 1,646,605; Oct. 25.
 Beach chair. N. G. Perry and L. L. Hanson. 1,628,472; May 10.
 Beacon, Day and night. A. V. Conover. 1,613,938; Jan. 11.
 Beacon-light casing. J. R. Townsend. Des. 72,916; June 21.
 Bead and weather strip, Combined parting. W. F. Koelling. 1,653,632; Dec. 27.
 Bead-building machine. A. H. Marletta. 1,615,025; Jan. 18.
 Bead flipper, Horizontal. E. Hutchens. 1,623,730; Apr. 5.
 Bead mold. C. H. Desautels. 1,619,102; Mar. 1.
 Bead-placing device. W. C. Stevens. 1,630,722; May 31.
 Bead-placing ring. H. A. Dennire. 1,635,073; July 5.
 Bead ring. J. Scherner. 1,642,561; Sept. 13.
 Bead-wire-covering machines, Fabric-feeding device for. C. H. Desautels. 1,624,544; Apr. 12.
 Beading and the like. C. Desoutter. 1,632,277; June 14.
 Beam adjusted. J. P. Ratigan. 1,619,216; Mar. 1.
 Beam adjuster. J. P. Ratigan. 1,643,588; Sept. 27.
 Beam and joist chair. J. Reynolds and J. Wilson. 1,615,651; Jan. 25.
 Beam and post connecting bracket. J. F. Ernst. 1,614,722; Jan. 18.
 Beam-bearing lock. C. H. Ramsey. 1,649,077; Nov. 15.
 Beam hanger. J. P. Ratigan. 1,646,558; Oct. 25.
 Beam hanger, Adjustable. F. P. Jones. 1,639,735; Aug. 23.
 Beam hanger, Adjustable. F. P. Jones. 1,644,434; Oct. 4.
 Beam-hanger cable eye. J. P. Ratigan. 1,613,847; Jan. 11.
 Beam-locking device. H. W. Hem. 1,640,079; Aug. 23.
 Beams, Attachment clamp for. H. E. Barber. 1,652,695; Dec. 13.
 Beams, Manufacture of flanged. N. C. Rendleman. 1,623,271; Apr. 5.
 Beams, Rolling flanged. N. C. Rendleman. 1,623,273; Apr. 5.
 Beams, with thin webs, Manufacture of flanged. N. C. Rendleman. 1,623,272; Apr. 5.
 Beams-separating machine. J. H. Ruttle. 1,623,275; Apr. 5.
 Bean stringer. J. H. Carter. 1,621,968; Mar. 22.
 Beans and other pulse foods, Apparatus for treating. H. F. Oble. 1,653,506; Dec. 20.
 Bean device for sorting. J. W. Wright. 1,627,221; May 3.
 Bearer. C. B. Johnson. 1,653,912; Dec. 27.
 Bearing. C. Bethel. 1,630,369-70; May 31.
 Bearing. R. R. Bloss. 1,628,571; May 10.
 Bearing. T. V. Buckwalter. 1,649,285; Nov. 15.
 Bearing. J. P. Catlin. 1,652,468; Dec. 13.
 Bearing. T. C. Delaval-Crow. 1,643,982; Oct. 4.
 Bearing. C. P. Eisenhauer. 1,641,377; Sept. 6.
 Bearing. E. Flintermann. 1,640,352; Aug. 30.
 Bearing. C. Fraesch. 1,633,580; June 28.
 Bearing. E. Gauthier. 1,639,692; Aug. 23.
 Bearing. H. W. Henry. 1,618,877; Feb. 22.
 Bearing. M. P. Holmes. 1,624,837; Apr. 12.
 Bearing. A. M. Hunt. 1,647,523; Nov. 1.
 Bearing. H. L. Kutter. 1,623,624; Apr. 5.
 Bearing. E. Pruger. 1,627,761; Mar. 22.
 Bearing. C. H. Reynolds. 1,629,413; May 17.
 Bearing. C. B. Rogers. 1,616,002; Feb. 1.
 Bearing. W. J. Shaw. 1,625,568; Apr. 19.
 Bearing. G. A. Shoemaker. 1,637,317; July 26.
 Bearing. L. H. Vervoort. 1,622,618; Mar. 29.
 Bearing. H. M. Williams. 1,618,853; Feb. 22.
 Bearing. H. M. Williams and A. L. Boegehold. 1,642,347; Sept. 13.
 Bearing, Adjustable. M. Jones and T. H. Forehand. 1,652,014; Dec. 6.
 Bearing, Adjustable end-thrust. H. Yeager. 1,653,528; Dec. 20.
 Bearing, Adjustable roller. J. J. Stremple. 1,650,728; Nov. 29.
 Bearing-adjusting means, External. G. W. Sporable. 1,631,557; June 7.
 Bearing and assembling the same, Antifriction. J. A. Ganster. 1,630,339; May 31.
 Bearing and assembling the same, Roller. T. V. Buckwalter. 1,617,319; Feb. 15.
 Bearing and automatic tightening means therefor. R. H. McCoy. 1,613,762; Jan. 11.
 Bearing and bushing remover. C. M. McCord. 1,621,733; Mar. 22.
 Bearing and direction indicator with section map for vehicle. R. Thiedem. 1,644,454; Oct. 4.
 Bearing and forming the same, Antifriction. C. Claus. 1,654,503; Dec. 27.
 Bearing and making same. G. A. Shoemaker. 1,646,371; Oct. 18.
 Bearing and making the same, Self-aligning. C. Claus. 1,658,797; Aug. 9.
 Bearing and shim, Adjustable. T. H. Forehand. 1,618,649; Feb. 22.
 Bearing and the like, Chain roller. W. A. Mitchell. 1,615,809; Jan. 25.
 Bearing and transmission, Combined resilient. B. F. Seymour. 1,643,682; Sept. 27.
 Bearing, Antifriction. W. Blake. 1,617,700; Feb. 15.
 Bearing, Antifriction. W. H. Chapman. 1,651,807; Dec. 6.
 Bearing, Antifriction. W. A. Geiger. 1,648,265; Nov. 8.
 Bearing, Antifriction. W. A. Geiger. 1,648,302; Nov. 8.
 Bearing, Antifriction. H. R. Gibbons. 1,651,815; Dec. 6.
 Bearing, Antifriction. S. B. Haseltine. 1,648,271; Nov. 8.
 Bearing, Antifriction. S. B. Haseltine. 1,648,272; Nov. 8.
 Bearing, Antifriction. G. W. Nordstrum. 1,638,271; Aug. 9.
 Bearing, Antifriction. J. F. O'Connor. 1,620,680; Mar. 15.
 Bearing, Antifriction. J. F. O'Connor. 1,640,207-8; Aug. 23.
 Bearing, Antifriction. W. A. Pitt. 1,630,310; May 31.
 Bearing, Antifriction. O. W. Young. 1,617,660; Feb. 15.
 Bearing application, Antifriction. F. H. Gibbs. 1,631,318; June 7.
 Bearing-assembling device, Ball. R. E. Gamble. 1,627,965; May 10.
 Bearing, Automatic adjusting and thrust. F. S. Russell. 1,636,283; July 19.
 Bearing, Automatic take-up. J. A. Anderson. 1,642,476; Sept. 13.
 Bearing, Automatic thrust. G. C. Monckmeier. 1,646,416; Oct. 25.
 Bearing, Ball. F. Ellwein. 1,622,578; Mar. 29.
 Bearing, Ball. B. Okner. 1,646,345; Oct. 11.
 Bearing, Ball. W. Rieffert. 1,644,611; Oct. 4.
 Bearing, Ball. L. J. Sauer and C. H. Joy, Jr. 1,613,058; Jan. 4.
 Bearing box, Self-aligning pitman. V. L. Forsyth. 1,615,940; Feb. 1.
 Bearing, Breech-lock. E. G. du Mazuel. 1,615,810; Jan. 25.
 Bearing cages by spot welding, Device for assembling two-piece ball. J. Rouinet. 1,651,779; Dec. 6.
 Bearing cap and work holder. L. E. Westover. 1,639,245; Aug. 16.
 Bearing, Caraxide. W. C. Sanders. 1,617,349; Feb. 15.
 Bearing, Carster, Top. W. H. Nordling. E. A. Smithfield, and C. B. Noelting. 1,622,734; Mar. 29.
 Bearing, Combined radial and thrust. 1,651,073; Nov. 29.
 Bearing, Connecting-rod. V. E. Ankarlo. 1,644,974; Oct. 11.
 Bearing, Connecting-rod. J. Kuhne. 1,612,824; Jan. 4.
 Bearing, Connecting-rod. C. J. Scudder. 1,619,588; Mar. 1.
 Bearing, Counterbalanced side. S. B. Haseltine. 1,640,034; Aug. 23.

- Bearing cups, Mounting roller. T. V. Buckwalter. 1,543,977; Oct. 4.
- Bearing, Cylinder. W. Evensen. 1,646,056; Oct. 18.
- Bearing drive and hanger box, Antifriction. G. L. Miller. 1,632,495; June 14.
- Bearing for band-saw mills, Shaft. G. E. Campbell. 1,614,421; Jan. 11.
- Bearing for grain separators. P. F. Gruver. 1,631,810; June 7.
- Bearing for link chains and belts. S. J. Bens. 1,634,641; July 5.
- Bearing for locomotives, Driving rod. J. E. Allen. 1,643,760; Sept. 27.
- Bearing for looms, Rocker-shaft. A. Harris. 1,618,125; Feb. 15.
- Bearing for movements and driving gears. O. Janzen. 1,625,536; Apr. 26.
- Bearing for oil wells, Crown-block. W. G. Black. 1,651,663; Dec. 6.
- Bearing for radial and axial loads, Roller. K. O. Leon. 1,625,812; Apr. 26.
- Bearing for railway axle journals. G. F. Endicott and G. H. Goodell. 1,633,852; June 28.
- Bearing for railway cars, Side. E. G. Jackson. 1,645,909; Oct. 18.
- Bearing for revolving shafts, Combined packing and thrust. O. G. Halvorsen. 1,618,655; Feb. 22.
- Bearing for turbine pump shafts. A. G. McKenna. 1,646,624; Oct. 25.
- Bearing, Journal. W. A. Pitt. 1,638,957; Aug. 16.
- Bearing, Journal. A. Fowelski. 1,650,967; May 31.
- Bearing hp remover. L. G. Shook. 1,641,555; Sept. 6.
- Bearing lubrication, Antifriction. H. E. Brunner. 1,638,521; Aug. 9.
- Bearing, Magnet-power-transmission. J. G. Frank. 1,623,669; Apr. 5.
- Bearing material and making same. C. Claus. 1,648,722; Nov. 8.
- Bearing mechanism. J. M. Howe. 1,636,565; July 19.
- Bearing mechanism. J. M. Howe. 1,640,356; Aug. 30.
- Bearing metal. P. Kemp and T. Kilti. 1,632,604; June 14.
- Bearing mounting. I. J. McCullough. 1,633,994; June 28.
- Bearing, Mounting for antifriction. J. O. Bailey. 1,622,483; Mar. 29.
- Bearing roller, Automatic. J. J. Goodrich. 1,649,467; Nov. 15.
- Bearing or like sections, Machine for trimming the edges of. C. W. Eggenweiler and W. J. Fiegl. 1,626,924; May 3.
- Bearing pin lubricator and obstruction ejector. M. A. Frank. 1,628,833; May 17.
- Bearing plane. J. J. Johnston. 1,649,703; Nov. 15.
- Bearing plate for wire-line pumping jacks, Adjustable. J. R. Cobb. 1,652,048; Dec. 6.
- Bearing protector. A. F. Polier. 1,618,947; Feb. 22.
- Bearing puller. R. B. Noble. 1,640,904; Aug. 30.
- Bearing, Pump. I. A. Oliver. 1,633,188; June 21.
- Bearing race and bushing remover. C. M. McCord. 1,621,734; Mar. 22.
- Bearing, Radial. E. A. Perkins. 1,622,880; Mar. 29.
- Bearing, Radial. A. B. Schein. 1,629,314; May 17.
- Bearing, Railway-car side. L. Richardson. 1,645,871; Oct. 18.
- Bearing, Roller. J. G. Ayers. 1,651,798; Dec. 6.
- Bearing, Roller. M. Oulien. 1,638,029; Aug. 16.
- Bearing, Roller. G. F. Honold and F. Leicht. 1,617,907; Feb. 15.
- Bearing, Roller. D. W. Tietjen. 1,629,600; May 24.
- Bearing, Roller. A. W. Ward. 1,653,073; Dec. 20.
- Bearing, Roller. E. H. W. Weibull. 1,622,985; Mar. 29.
- Bearing, Roller. R. E. Wells. 1,617,613; Feb. 15.
- Bearing, Roller and like. N. H. Crouse. 1,652,766; Dec. 13.
- Bearing, Roller side. W. C. Rockenstire. 1,649,189; Nov. 15.
- Bearing, Rolling mill. G. Cooke. 1,621,711; Mar. 22.
- Bearing, Sandproof. J. P. Whann. 1,642,914; Sept. 20.
- Bearing, Sand-reel. F. Redick. 1,632,678; June 14.
- Bearing, Self-adjusting. W. H. Ogden. 1,653,407; Dec. 20.
- Bearing, Self-adjusting connecting-rod. M. D. Greenig. 1,634,992; July 5.
- Bearing, Self-lubricating. A. H. Singelmann. 1,637,966; Aug. 2.
- Bearing, Self-oiling. H. J. and B. A. Smith. 1,653,377; Dec. 20.
- Bearing shaft. M. Hemle. 1,631,962; June 14.
- Bearing, Shaft. O. Poulsen. 1,623,207; Apr. 5.
- Bearing, Shaft. J. Rummis. 1,649,258; Nov. 15.
- Bearing, Side. E. G. Goodwin. 1,627,432; May 3.
- Bearing, Side. J. F. O'Connor. 1,648,321; Nov. 8.
- Bearing, Side. A. B. Severn. 1,646,769; Oct. 25.
- Bearing, Side. W. E. Wyle. 1,653,077; Dec. 20.
- Bearing sleeves and bearings. Tool for removing and inserting. F. Meridan. 1,641,895; Sept. 6.
- Bearing sleeves. Tool for inserting and removing. F. Meridan. 1,619,625; Mar. 1.
- Bearing, Spindle. J. Serra Sile. 1,653,475; Dec. 20.
- Bearing surface. Method of and apparatus for finishing cylindrical. G. R. Maupin. 1,619,479; Mar. 1.
- Bearing, Thrust. S. H. Libby. 1,626,470; Apr. 26.
- Bearing, Thrust ball. F. Symanzik. 1,622,065; Mar. 22.
- Bearing, Truck center. T. W. Hawley. 1,653,564; Dec. 20.
- Bearing, Underground. A. E. Bergloff. 1,628,022; May 10.
- Bearing with rolling members. L. Rouanet. 1,631,763; June 7.
- Bearing, Wrist-pin. C. C. Crowder. 1,654,210; Dec. 27.
- Bearings and the like, Machine for boring. W. J. Fiegl. 1,615,372; Jan. 25.
- Bearings, Automatic take-up for shaft. R. W. Johnson. 1,650,629; Nov. 29.
- Bearings, Burnishing and refitting tool for. C. E. De Witt. 1,627,152; May 3.
- Bearings, Cage for ball. H. Styrl. 1,654,101; Dec. 27.
- Bearings, Cap for. J. L. Brown. 1,621,709; Mar. 22.
- Bearings, Cooling system for thrust. H. A. S. Howarth. 1,648,049; Nov. 8.
- Bearings, Lubricating device for axle. G. Duffing. 1,641,417; Sept. 6.
- Bearings, Lubricating system for. S. I. Fekete. 1,645,299; Nov. 8.
- Bearings, Making cages for roller. M. T. Lothrop. 1,645,866; Oct. 18.
- Bearings, Making roller. C. E. Robson. 1,639,351; Aug. 16.
- Bearings, Manufacturing cages for ball or roller. L. Rouanet. 1,631,852-4; Nov. 29.
- Bearings, Mounting for antifriction. G. R. Bott. 1,639,684; Aug. 29.
- Bearings of connecting rods, Machine for boring the. A. H. Wadell. 1,634,389; July 5.
- Bearings, Oil-returning device for axle. O. E. Hoffmann. 1,654,424; Dec. 27.
- Bearing, Oiling system for. P. E. Matthews. 1,631,217; June 7.
- Bearings, Preventing displacement in rollers for roller. P. A. E. Armstrong. 1,646,947; Oct. 25.
- Bearings, Sheet-metal cage for roller. R. F. Runge. 1,646,827-8; Feb. 8.
- Bearings, Supporting frame for. R. Bernhard. 1,642,482; Sept. 13.
- Beater. C. Andrews, Jr. 1,617,787; Feb. 15.
- Beater. A. S. White and M. A. Wiseman. 1,650,777; Nov. 28.
- Beater. G. S. Witham, Jr. 1,639,917; Aug. 23.
- Beater, Carpet. F. P. Johnson. 1,644,020; Oct. 4.
- Beater or mixer. O. R. Boynton. 1,627,315; May 3.
- Beater, Pulp. L. A. and L. A. Barry. 1,647,982; Nov. 8.
- Beater-roll raiser. H. C. Cladin. 1,614,826; Jan. 18.
- Beating engine. J. T. Murphy and E. J. Raney. 1,614,486; Jan. 18.
- Beating engine. L. Shlick. 1,623,364; Apr. 5.
- Beautifying set for ladies' hand bags. K. Deubel. 1,652,771; Dec. 13.
- Bed. C. D. McDonald. 1,648,652; Nov. 8.
- Bed. J. L. Moore. 1,624,965; Apr. 19.
- Bed. E. B. Ramsey. 1,641,991; Sept. 13.
- Bed, Adjustable sick. W. B. Gardiner. 1,625,534; Apr. 19.
- Bed and chifforobe, Combination. L. Diamond. 1,618,642; Feb. 22.
- Bed and couch, Combination. H. Manott and J. H. McGrath. 1,637,493; Aug. 2.
- Bed and couch, Combined folding. W. W. Brown. 1,622,702; Mar. 29.
- Bed and spring therefor. A. B. Sprague. 1,620,404; Mar. 8.
- Bed and the like, Day. S. J. Lavezz. 1,627,609; May 10.
- Bed and trunk, Convertible. C. D. MacDonald. 1,619,353; Mar. 1.
- Bed attachment. T. B. Smith. 1,630,455; May 31.
- Bed, Automobile. W. R. Bailey. 1,625,518; Apr. 19.
- Bed, Automobile. L. E. Ike. 1,649,233; Nov. 15.
- Bed, Baby's. W. L. Summerson. 1,649,754; Nov. 15.
- Bed bottom. L. P. Armstrong. 1,641,826; Sept. 6.
- Bed bottom. F. C. Marquardt. 1,628,817; Apr. 26.
- Bed-bottom fabric. R. Bradshaw. 1,631,852; June 6.
- Bed bottoms, Adjustable support for. C. B. Platt and W. S. Brown. 1,629,410; May 17.
- Bed brace. J. D. King. 1,643,502; Sept. 27.
- Bed, Camp. R. C. Johnston and J. R. Estey. 1,621,841; Mar. 22.
- Bed, Camping. L. Efw. 1,651,681; Dec. 6.
- Bed, Chair. M. Gursky. 1,617,108; Feb. 8.
- Bedclothes holder. A. W. Brater. 1,638,912; Aug. 16.
- Bedclothes holder. E. M. Ware. Des. 74,039; Dec. 6.
- Bedclothes, Means or device for the retention of. S. H. Barlow. 1,627,005; May 3.
- Bed, Collapsible camp. M. M. Larsen. 1,625,476; Apr. 19.
- Bed couch, Foldable. O. Konrad. 1,623,251; Apr. 5.
- Bed cover, double. C. W. Wilmet. 1,639,156; Aug. 16.
- Bed davenport. D. F. Dyke. 1,620,966; Mar. 8.
- Bed, Davenport. T. S. Morrison. 1,631,600; June 7.
- Bed elevator, Invalid. E. H. Hutchins. 1,645,908; Oct. 18.
- Bed, Emergency. A. F. Yuhasz. 1,640,743; Aug. 30.
- Bed, Exercising. W. W. Everts. 1,638,025; Aug. 9.
- Bed, Foldable. S. Abrams. 1,637,845; Aug. 2.
- Bed, Folding. W. J. Broome. 1,624,307; Apr. 12.
- Bed, Folding. W. A. Burr. 1,639,153; Aug. 16.
- Bed, Folding. A. Pitton. 1,649,323; Nov. 15.
- Bed, Folding. W. M. Simon. 1,615,412; Jan. 25.
- Bed, Folding. G. F. Sisbower and L. E. Pitton. 1,639,237; Aug. 16.
- Bed, Folding. J. S. Young. 1,635,806; July 12.

- Bed, folding bed, or any substitute for beds. E. S. Horwitz. 1,615,580; Feb. 22.
- Bed, Folding camp. L. Edwards. 1,622,188; Mar. 22.
- Bed, Folding portable. F. S. Inco. 1,636,097; July 19.
- Bed for automobiles, Folding. J. H. McManus. 1,622,462; Mar. 29.
- Bed for invalids. C. E. Sparhawk. 1,643,793; Sept. 27.
- Bed frame, Knockdown. T. E. Carrigan. 1,631,621; June 7.
- Bed, Hospital. J. C. Pow. 1,631,888; June 7.
- Bed, Metal folding. W. J. Duval. 1,624,222; Apr. 12.
- Bed, Obstetrical. G. Gellhorn. 1,622,313; Mar. 29.
- Bed or couch, Folding. O. Fichtenbaum. 1,626,801; Apr. 26.
- Bed or couch spring organization. C. Lofman. 1,626,140; July 19.
- Bedpan. F. L. Bonds. 1,651,324; Nov. 29.
- Bedpan. A. O. Breaux. 1,632,021; June 14.
- Bedpan. G. A. Burd. 1,652,467; Dec. 13.
- Bedpan. S. Lowenstein. 1,642,255; Sept. 13.
- Bedpan. M. E. Northrop. 1,627,571; May 10.
- Bedpan and pad. C. Riedeman. 1,649,419; Nov. 15.
- Bedpan cleaner and sterilizer. W. B. Underwood. 1,653,242; Dec. 20.
- Bedpan, Sanitary. A. de Luna. 1,632,645; June 14.
- Bedpan shield. D. Smith. 1,623,602; Apr. 5.
- Bed, Pneumatic. R. L. Combs. 1,627,855; May 10.
- Bed, Portable folding. A. M. Smith. 1,646,116; Oct. 18.
- Bedpost lock. W. Silber. 1,626,121; Apr. 26.
- Bed rails, Connecting means for. C. H. Ruth. 1,644,281; Oct. 4.
- Bed rest. A. J. Updegrove. 1,619,685; Mar. 1.
- Bed sander. Endless. P. A. Solem. 1,653,741; Dec. 27.
- Bed, Sliding. M. M. Hampton. 1,621,163; Mar. 15.
- Bedsread. D. Kemp. Des. 72,265; Mar. 22.
- Bedsread. D. Kemp. Des. 72,429; Apr. 12.
- Bedsread or similar article. W. K. Gunter. Des. 71,870; Jan. 18.
- Bed-spring. D. Hanauer. 1,628,462; May 10.
- Bed-spring. J. Pepernick. 1,631,056; May 31.
- Bed-spring and the like. C. P. Trimble. 1,631,076; May 31.
- Bed-spring attachment. F. J. Vida. 1,630,813; May 31.
- Bed-spring brace. C. Marconi. 1,640,956; Aug. 30.
- Bed-spring construction. B. K. Ford. 1,636,556; Mar. 8.
- Bed-spring fabric. S. Kirschberg. 1,643,623; Sept. 27.
- Bed-spring fabric. W. H. Matthews. 1,630,196; May 24.
- Bed-spring, Foldable. F. Smith. 1,629,317; May 17.
- Bed-spring packages, Opening. C. W. Myers. 1,614,568; Jan. 18.
- Bed-spring support. D. Hanauer. 1,621,111; Mar. 15.
- Bed springs, Attachment for. E. L. Bronstien. 1,619,187; Mar. 1.
- Bedstead. M. Antrobus. Des. 72,127; Mar. 8.
- Bedstead. M. H. Covey. 1,640,754; Aug. 30.
- Bedstead. R. C. Erskine. Des. 72,994; July 5.
- Bedstead attachment. W. E. R. Scherbarth. 1,647,199; Nov. 1.
- Bedstead corner lock. A. J. Schultz. 1,634,306; July 5.
- Bedstead end frame. C. A. Stuart. 1,723,340; May 24.
- Bedstead, Metallic. W. Greenman. 1,639,847; Aug. 23.
- Bedsteads, Corner lock for. H. Richardson. 1,617,865; Feb. 15.
- Bedsteads, Slip joint for. H. Rubla. 1,653,665; Dec. 27.
- Bed structure, Folding. G. G. Powers. 1,636,532; July 19.
- Bed table. E. Pretsch. 1,653,657; Dec. 27.
- Bed, Tourist's combination. F. Ness. 1,644,852; Oct. 11.
- Bed, Unpadding and collapsing portable. A. Santerre. 1,641,459; Sept. 6.
- Bed, Wall. M. F. Bayer. 1,628,763; May 17.
- Bed, Wall. B. L. Jones. 1,621,885; Mar. 22.
- Bed warmer, Electric. A. T. Lister. 1,622,326; Mar. 29.
- Bed with means for easing nature, Sick. V. Prettenhaler. 1,638,705; July 26.
- Bedding and the like, Preparing feathers for. W. H. Uhrig. 1,620,303; Mar. 8.
- Bedding clamp, Adjustable. F. M. Correa. 1,619,853; Mar. 8.
- Beds, Apartments with companion. H. B. Littlefield. 1,647,973; Nov. 1.
- Beds, Envelope shield for crib. M. B. Houston. 1,620,660; Mar. 15.
- Beds, Foot-frame lock for foldable. G. E. Bennett. 1,631,081; May 31.
- Beds, Manufacturing metal. A. Welsman. 1,632,524; June 14.
- Beds, Stabilizer for folding. R. B. Page. 1,618,467; Feb. 22.
- Beds, Supporting and concealing folding. H. L. Monroe and W. Cramer. 1,628,418; May 10.
- Bee escape. H. A. Holmes. 1,636,635; July 19.
- Bee frames, Spacing arrangement for. H. Koepf. 1,637,002; July 26.
- Beehives, Brood frame for. F. F. Weaver. 1,650,170; Nov. 22.
- Beehives, Portable lifter for. D. G. Little. 1,622,201; Mar. 22.
- Beehives, Ventilator for. A. R. Kelly. 1,654,464; Dec. 27.
- Beehives, Wire queen excluder for. G. Markle. 1,630,856; May 31.
- Bees, Combination introducing device for queen. R. Anderson. 1,613,752; Jan. 11.
- Beet and cotton thinner. L. C. Hall. 1,643,242; Sept. 20.
- Beet carcasses, Method of and apparatus for treating. G. H. Miller. 1,614,312; Jan. 11.
- Beet-handling apparatus. G. W. Yanney. 1,632,574; June 14.
- Beet puller. H. T. Lindgren. 1,623,737; Apr. 5.
- Beet puller. W. Yermak. 1,631,180; June 7.
- Beet topper. A. Kowalsky. 1,651,030; Nov. 29.
- Beet-topping machine. G. Isago. 1,637,644; Aug. 2.
- Beet-topping machine. A. J. Scritchfield. 1,649,617; Nov. 15.
- Bell. A. F. Lake. 1,628,367; May 10.
- Bell. M. Thaden. 1,651,303; Nov. 29.
- Bell and buzzer alternator. V. E. Larsen. 1,618,154; Feb. 15.
- Bell, Electric. W. F. Hendry. 1,633,583; June 28.
- Bell, Electric. L. E. Richmond. 1,633,288; June 21.
- Bell-ringing machinery. G. H. Schieferstein. 1,645,822; Oct. 18.
- Bell support. G. M. Thaden. 1,651,304; Nov. 29.
- Bellows, Making. E. J. Leach and W. C. Lagerman. 1,614,563; Jan. 18.
- Bellows, Making metallic. H. B. Fay. 1,644,823; Oct. 11.
- Bellows, Manufacture of metallic. J. M. Lea. 1,630,622; May 31.
- Belt. J. T. Griffin. 1,636,602; July 19.
- Belt. C. P. Moretti and E. Mezzera. 1,639,383; Aug. 16.
- Belt and buckle clasp. E. L. James. 1,615,085; Jan. 18.
- Belt and loop fastener used in connection with the same. E. S. Mix. 1,644,845; Oct. 11.
- Belt and making the same. H. J. Martin. 1,612,978; May 31.
- Belt and method and apparatus for forming the same. Round fabric. W. W. Bewick. 1,625,348; Apr. 19.
- Belt buckle. W. Dietrich. Des. 73,688; Oct. 25.
- Belt buckle. R. F. Eichner. Des. 73,690; Oct. 25.
- Belt buckle. M. Mabon. 72,716; May 24.
- Belt buckle. E. C. Vaisey. Des. 73,720-2; Oct. 25.
- Belt buckle, Bathing. J. B. Freysinger. 1,648,015; Nov. 8.
- Belt clamp. C. E. Girten. 1,637,694; Aug. 2.
- Belt clamp. E. Vollrath. 1,643,037; Sept. 20.
- Belt clasp. O. Schwalb. 1,654,096; Dec. 27.
- Belt, combining, cartridge, knife, and ax. M. J. Kirsch. 1,617,600; Feb. 15.
- Belt connector. G. G. Grace. 1,633,939; June 28.
- Belt connector, Expandable. J. E. Alm. 1,639,250; Aug. 16.
- Belt conveyor. G. R. Kyle and B. A. Mitchell. 1,626,041; Apr. 26.
- Belt conveyor. C. S. Wray. 1,633,153; June 21.
- Belt conveyor arrangement. E. T. Cannon. 1,636,680; July 26.
- Belt conveyers and making the same, Roller for. F. E. Smith. 1,648,626; Nov. 8.
- Belt conveyers, Control system for endless. C. R. Fisher. 1,620,532; Mar. 8.
- Belt conveyers, Endless. J. W. Silver. 1,620,168; Mar. 8.
- Belt conveyors, Tripper for duplex. F. B. Caldwell. 1,636,986; July 26.
- Belt, Drive. D. P. Rankin. 1,613,193; Jan. 4.
- Belt, Endless cone. G. B. and E. G. Handley. 1,635,363; Feb. 15.
- Belt fastener. L. J. Andersson. 1,629,983; May 24.
- Belt fastener. R. H. Hassler. 1,613,888; Jan. 11.
- Belt fastener. K. Kovarik. 1,615,176; Jan. 18.
- Belt fastener. D. E. Lewellen. 1,634,034; June 28.
- Belt fastener. M. M. Mitchell. 1,614,761; Jan. 18.
- Belt for personal wear. I. Leibovitz. Des. 72,432; Apr. 12.
- Belt guide, Automatic. B. Ross. 1,628,614; May 10.
- Belt-hook-closing machine. F. W. Knott. 1,619,137; Mar. 1.
- Belt-hook lacing. V. Tobolla. 1,653,791; Dec. 27.
- Belt joint. E. G. Kimlich. 1,635,185; July 12.
- Belt-lacing device. W. Cramer. 1,640,852; Aug. 30.
- Belt, Liquid-holding. M. Marin. 1,650,764; Nov. 29.
- Belt, Life. J. B. Adams. 1,625,971; Apr. 26.
- Belt, Life. L. Mullen and J. Jackevich. 1,629,290; May 17.
- Belt loop. P. W. Smith. 1,613,416; Jan. 4.
- Belt pulley. H. O. Keller. 1,651,063; Nov. 29.
- Belt, Respiration. O. König. 1,647,299; Nov. 1.
- Belt, Sacro-iliac. C. A. Pratt. 1,628,685; May 17.
- Belt, Safety. V. P. Chappel. 1,636,459; July 19.
- Belt sander, Portable. H. A. Swan. 1,631,898; June 7.
- Belt, Sanitary. M. B. Hammond. 1,614,239; Jan. 11.
- Belt, Sanitary. B. Schaffer. 1,646,880; Oct. 25.
- Belt, Self-compensating fan. R. W. Schulte. 1,614,693; Jan. 18.
- Belt, Sheet-metal. R. H. Banks. 1,638,466; Aug. 9.
- Belt, Shifter. A. W. Haines. 1,616,657; Feb. 8.
- Belt shifter. D. C. Klausmeyer. 1,620,214; Mar. 8.
- Belt-shifting mechanism. A. J. Cossen. 1,651,254; Nov. 29.
- Belt-shifting mechanism. J. A. Johnston. 1,653,463; Dec. 20.
- Belt splitter. B. S. T. Bishop. 1,653,250; Dec. 20.
- Belt splitter. D. E. Lewellen. 1,634,033; June 28.
- Belt sprocket chain or link. S. J. Bens. 1,634,647; July 5.
- Belt-tensioning device. E. Roberts. 1,652,799; Dec. 18.
- Belt tightener. C. E. L. Lipman. 1,616,191; Feb. 1.

- Belt tightener. S. F. Stein. 1,640,623; Aug. 30.
 Belt tightening and guiding device. D. G. Ashton. 1,617,982; Feb. 15.
 Belting. W. M. Cavanaugh. 1,631,580; June 7.
 Belting and its manufacture, Round fabric. A. H. De Voe. 1,624,932; Apr. 19.
 Belting Link. H. A. House. 1,625,609; Apr. 19.
 Belts, Closing device for. F. Ravigneaux. 1,636,925; July 26.
 Belts, Making. A. Jewett. 1,630,617; May 31.
 Belts, Making laminated. E. F. Hathaway. 1,634,145; June 28.
 Belts, Pocket attachment for. F. P. Mitchell. 1,629,404; May 17.
 Belts, Propulsion link for endless traction. A. L. Langenfeld. 1,633,259; June 21.
 Bench: See—
 Florist bench. Greenhouse bench.
 Folding bench. Pipe bench.
 Greenhouse or conservatory bench. Wire-drawing bench.
 Bench. P. C. Shapiro. Des. 73,211; Aug. 2.
 Bench and table structure, Knockdown. F. Bokan. 1,618,893; Feb. 22.
 Bench and wardrobe, Combination. W. B. King. Des. 73,704; Oct. 25.
 Bench clamp. H. W. Davis. 1,650,331; Nov. 22.
 Bench clamp. M. E. Olson. 1,631,428; June 7.
 Bench motor stand, Universal. W. M. Drennon. 1,626,923; May 3.
 Bench, waste-paper receptacle, and automat stand, Combined advertising. M. B. Fohey. 1,639,085; Aug. 16.
 Bender, Bus-bar. F. W. Geissenhainer and M. S. Cumner. 1,633,248; June 21.
 Bending and buckle-attaching machine, Band-. M. P. Lutton. 1,619,873; Mar. 8.
 Bending apparatus, Multiple. F. J. L. Dinkel. 1,628,581; May 10.
 Bending machines, Gripping device for. A. Wagenbach. 1,644,555; Oct. 4.
 Bending press. D. Kondakjian. 1,645,865; Oct. 18.
 Bends and coils and for expanding tube, Machine for producing tubular. R. H. Bohling. 1,648,161; Nov. 8.
 Benzanthrone derivatives containing sulphur, Manufacture of. H. Neresheimer and H. Emmer. 1,644,851; Oct. 11.
 Benzanthrone, Making. R. G. Caswell and E. G. Marshall. 1,626,392; Apr. 26.
 Benzidine and derivatives, Production of. R. A. Nelson. 1,633,123; June 21.
 Benzine and oil separator. A. Kutzer. 1,636,866; July 26.
 Benzoxazolone arsine oxides. L. Benda and O. Sievers. 1,635,167; July 12.
 Benzoxazolone arsonic acids. L. Benda. 1,635,168; July 12.
 Benzoxazolone arsonic compounds. L. Benda. 1,648,214; Nov. 8.
 Berries, especially Thompson seedless raisins, Apparatus for processing. T. W. Forrest. 1,626,805; May 3.
 Berries, especially Thompson seedless raisin, Drying. T. W. W. Forrest. 1,645,695; Oct. 18.
 Berry box. H. F. Keeler, Jr. 1,636,806; July 19.
 Berry box, Collapsible. H. Petersen. 1,633,904; June 28.
 Berry-picking machine. S. B. Jenkins. 1,622,117; Mar. 22.
 Beryllium filament. A. Nyman. 1,622,604; Mar. 29.
 Betaine hydrochloride, etc., Manufacture of. D. K. Tressler. 1,634,221; June 28.
 Betaine hydrochloride, Preparing. D. K. Tressler. 1,634,222; June 28.
 Bevel. W. H. Ebert and A. G. Ebert. 1,628,713; May 17.
 Bevel and square. F. P. Cash. 1,636,623; July 19.
 Bevel-edging machine. N. M. Baker. 1,651,501; Dec. 6.
 Beveling and sealing clamp. T. Midgley. 1,624,616-17; Apr. 12.
 Beverage-carbonating machine. H. L. Ferree. 1,649,820; Nov. 22.
 Beverage container. C. M. Cordley. Des. 72,593; May 10.
 Beverage container. N. Weidner. Des. 72,648; May 10.
 Beverage cooler and dispenser, Combined. M. A. Powers. Des. 73,048; July 12.
 Beverage cooler, Bottled. F. J. Beers. 1,652,600; Dec. 13.
 Beverage dispenser. F. Malwurm. 1,632,486; June 14.
 Beverage-dispensing apparatus. E. Ernst. 1,654,249; Dec. 27.
 Beverage-dispensing apparatus. L. W. Hassensall. 1,645,000; Oct. 11.
 Beverage-dispensing apparatus. J. F. Searing. 1,613,248; Jan. 4.
 Beverage-dispensing apparatus, Carbonated. W. E. Doughty. 1,634,457; July 5.
 Beverage-dispensing device. D. Humphrey. 1,623,597; Apr. 5.
 Beverage-dispensing fountain. C. W. Weston. Des. 73,459; Sept. 13.
 Beverage mixer. E. B. Van Houten. Des. 72,119; Mar. 1.
 Beverage-mixer attachment. C. Ferguson. 1,623,535; Apr. 5.
 Beverage, Preparing chocolate. I. S. Hocker. 1,650,355; Nov. 22.
 Beverage-set stand. H. Bronsther. Des. 71,822; Jan. 11.
 Beverage urn or similar article. B. Branstion. 72,696-7; May 24.
 Beverages, Apparatus for preparing infusion. H. E. Eirod. 1,648,983; Nov. 15.
 Beverages, Clarification of. J. Duclaux. 1,619,016; Mar. 1.
 Beverages, Displaying and dispensing apparatus for. W. Matzka. 1,654,379; Dec. 27.
 Beverages, Preparation of nonfermented. F. Hostettler. 1,626,593; Apr. 19.
 Bias-cutting machine. J. W. Brundage. 1,621,152; Mar. 15.
 Bias-cutting machine. P. Gardner. 1,643,157; Sept. 20.
 Bias strips, Machine for cutting. V. V. Messer. 1,623,354; Apr. 5.
 Bib or faucet. E. A. Eckhouse. 1,626,031; Apr. 26.
 Bib or faucet. H. D. Rahling. 1,634,960; July 5.
 Bib pocket. S. A. Sweet. 1,645,502; Oct. 11.
 Bicycle. G. Makris. 1,630,442; May 31.
 Bicycle. M. E. Roe. Des. 73,049; July 12.
 Bicycle wheel. M. Isguerra. 1,635,849; July 12.
 Bicycles, Compressed-air motor for. L. Jochum. 1,650,450; Bicycles, Frame for. H. G. Appellan and J. J. Vanhoren. 1,626,775; May 3.
 Bicycles, Resilient wheel for. L. Balogh. 1,630,920; May 3.
 Bifocal lens. T. B. Drescher. Re1,6541; Feb. 8.
 Billboard, Advertising. H. R. Gottlob. Des. 72,895; June 21.
 Billboard, Automatically-revolving. T. C. Gower and J. H. Williams. 1,650,205; Nov. 22.
 Bill board. A. W. Standing. 1,639,254; July 19.
 Bill fold. F. E. Ryan. 1,638,462; Aug. 9.
 Bill fold. C. L'Enfant. 1,651,396; Dec. 6.
 Bill fold or similar article. L. Mayer. Des. 72,486; Apr. 19.
 Bill folder. R. H. and H. J. Rolfs. 1,619,543; Mar. 1.
 Bill. Sec. C. J. Kortz. 1,639,137; Aug. 16.
 Bill posting. H. Mock. 1,634,333; July 5.
 Billiard-ball rack, Pocket-. C. P. Barker. 1,613,372; Jan. 4.
 Billiard compass. J. A. Kaye. 1,625,770; Apr. 19.
 Billiard cue chalking device. A. K. Peterson. 1,627,573; May 3.
 Billiard-cue, rod, and like article rack hanger and locker. A. Demers. 1,633,004; June 21.
 Billiard cues, Securing leather discs to the ends of. T. Detroyes. 1,630,417; May 31.
 Billiard table. J. G. Bjorkman. 1,615,899; Feb. 1.
 Billiard table. H. C. Burke and A. A. Friberg. 1,640,879; Aug. 30.
 Billiard tables and the like, Bed for. E. F. Hoskin. 1,619,515; Mar. 1.
 Billiard tables. Ductile wire trough for. F. Lanza. Des. 72,622; Apr. 26.
 Billing machines, Aligning and registering device for. R. T. Mannhardt and A. B. Hitzel. 1,621,265; Mar. 15.
 Billing device, Graphic. C. A. Karling and F. E. Howell. 1,648,275; Nov. 8.
 Bimetallic element. W. M. Chace. 1,642,485; Sept. 13.
 Bin: See—
 Sectional bin. Service bin.
 Bin. W. M. Venable. 1,632,103; June 14.
 Bin circulating apparatus, Reversible-draft, individual-. F. P. Mahoney. 1,621,594; Mar. 22.
 Bins, Combination spout and gate for. R. P. Micallef. 1,630,593; May 31.
 Binder. W. Feldmann. 1,624,660; Apr. 12.
 Binder. C. Goldstein. 1,623,339; Apr. 5.
 Binder. E. L. Krag. 1,648,406; Nov. 8.
 Binder. W. J. Steenrod. 1,630,500; May 31.
 Binder cover, Loose-leaf. C. M. Conger. 1,632,434; June 14.
 Binder device, Loose-leaf. A. M. Martin. 1,618,770; Feb. 22.
 Binder for loose-leaf files. N. S. Welk. 1,623,145; Apr. 5.
 Binder, Litch. G. A. Tranger. 1,632,013; June 14.
 Binder, Load. H. Crumbach and J. H. Deal. 1,650,328; Nov. 22.
 Binder, Load. F. A. Jenkins. 1,636,638; July 19.
 Binder lock, Loose-leaf. J. Kahn. 1,647,635; Nov. 1.
 Binder, Loose-leaf. T. V. Bell. 1,648,105; Nov. 8.
 Binder, Loose-leaf. A. L. Boyer. 1,623,524; Apr. 6.
 Binder, Loose-leaf. H. E. D. Cogery and C. F. B. G. Bertrand. 1,640,646; Aug. 30.
 Binder, Loose-leaf. B. Couch. 1,641,662; Sept. 6.
 Binder, Loose-leaf. H. D. Cottrell. 1,653,392; Dec. 20.
 Binder, Loose-leaf. R. Eburne. 1,653,498; Dec. 20.
 Binder, Loose-leaf. C. H. Evans, Jr. 1,640,071; Aug. 23.
 Binder, Loose-leaf. G. M. Gale. 1,651,520; Dec. 6.
 Binder, Loose-leaf. F. J. Hruska. 1,623,314; Apr. 5.
 Binder, Loose-leaf. B. W. Japs. 1,626,280; Apr. 26.
 Binder, Loose-leaf. H. B. Jennings, jr. 1,620,103-5; Mar. 8.
 Binder, Loose-leaf. H. B. Jennings, jr. 1,630,849; May 31.
 Binder, Loose-leaf. C. E. Johnson. 1,618,013; Feb. 15.
 Binder, Loose-leaf. E. A. Koelling, jr. 1,646,697; Oct. 25.
 Binder, Loose-leaf. J. MacLean. 1,617,958; Feb. 15.
 Binder, Loose-leaf. L. M. Martin. 1,618,769; Feb. 22.
 Binder, Loose-leaf. H. B. McBea. 1,624,961; Apr. 19.
 Binder, Loose-leaf. J. L. McMillan. 1,640,087; Aug. 23.
 Binder, Loose-leaf. H. C. Miller. 1,639,305; Aug. 16.
 Binder, Loose-leaf. C. S. Mullins. 1,636,428; July 19.
 Binder, Loose-leaf. G. W. Neuman. 1,614,080; Jan. 11.

- Binder, Loose-leaf. E. L. Persons. 1,627,864; May 10.
 Binder, Loose-leaf. A. B. Plushkell. 1,638,784; Aug. 9.
 Binder, Loose-leaf. J. J. Pott. 1,638,878; Aug. 16.
 Binder, Loose-leaf. W. S. Prouditt and E. F. Graf. 1,641,397; Sept. 6.
 Binder, Loose-leaf. W. A. Ringler. 1,615,850; Feb. 1.
 Binder, Loose-leaf. F. E. Rupp. 1,644,087; Oct. 4.
 Binder, Loose-leaf. W. J. Steenrod. 1,619,589; Mar. 1.
 Binder, Loose-leaf. H. C. Sterling. 1,625,752; Apr. 19.
 Binder, Loose-leaf. C. D. Trussell. 1,634,125; June 28.
 Binder, Loose-leaf. R. M. Van Valkenburgh. 1,641,711; Sept. 6.
 Binder, Loose-leaf. R. M. Van Valkenburgh. 1,646,669; Oct. 25.
 Binder, Loose-leaf. V. B. Whitehouse and L. Pelletiere. 1,617,778-80; Feb. 15.
 Binder, Loose-leaf. W. D. Winders. 1,636,268; July 19.
 Binder, Temporary. F. H. Crump. 1,633,070; June 21.
 Binder, Temporary. J. S. Lacey. 1,628,159; May 10.
 Binder, Temporary. H. C. Miller. 1,631,133; May 31.
 Binder, Tray. J. M. Jones and R. R. Webb. 1,633,023; June 21.
 Binders, Attachment for. C. J. Polchow. 1,648,127; Nov. 8.
 Binders, Chain guide for corn. C. M. Livingston. 1,633,299; Dec. 20.
 Binders, Controlling device for motor-drawn. T. J. Fletcher. 1,621,773; Mar. 22.
 Binders, Flyleaf for loose-leaf. H. C. Sterling. 1,634,345; July 5.
 Binders, Lock for loose-leaf. W. J. Steenrod. 1,632,249; July 14.
 Binders, Locking mechanism for loose-leaf. W. J. Steenrod. 1,623,283; Apr. 5.
 Binders, Platform canvas-adjusting mechanism for grain. H. Hartvikson. 1,634,187; June 28.
 Binders, Tripping mechanism for. L. K. O. Bakke. 1,620,055; Mar. 8.
 Binding device for molds, etc. E. E. Speer. 1,622,889; Mar. 29.
 Binding mechanisms, Combined tucker and stripper for. C. R. Raney. 1,646,459; Oct. 25.
 Binding post. J. J. Crosby. 1,645,854; Oct. 18.
 Binding post. F. E. O'Brien and L. Freeman. 1,643,513; Sept. 27.
 Binding post. W. H. Pumphrey. 1,642,695; Sept. 20.
 Binding post. C. D. Tuska. 1,646,890; Oct. 25.
 Binding strip. A. Freyberg and J. Marcus. 1,638,254; Aug. 9.
 Binding strips, Machine for making metal. J. W. Dixon. 1,626,227; Apr. 26.
 Biped. W. R. Bull. 1,618,966; Feb. 22.
 Bird cage. N. W. Hendryx. Des. 73,784; Nov. 8.
 Bird cage. L. Intieri. Des. 71,797; Jan. 4.
 Bird cage. A. M. Kroccek. 1,620,361; Mar. 8.
 Bird cage. L. J. Leon. Des. 72,482; Apr. 19.
 Bird cage. L. J. Leon. Des. 73,302; July 19.
 Bird cage. O. Lindemann. Des. 72,159; Mar. 8.
 Bird cage. J. V. Johnson. 1,649,902; Nov. 22.
 Bird cage. H. Marcus. 1,632,380; June 14.
 Bird cage. W. F. Schleich. Re16,681; July 19.
 Bird cage. E. W. Sintow. Des. 73,391; Aug. 30.
 Bird cage. R. L. Tullis. Des. 73,677; Oct. 18.
 Bird cage bath. E. Markow. 1,617,492; Feb. 15.
 Bird-cage stand. C. H. Hennings. Des. 73,176; Aug. 2.
 Bird cages, Base for. L. J. Leon. 1,614,927; Jan. 18.
 Bird cages, Wall bracket for. L. J. Leon. Des. 72,522; Apr. 26.
 Bird house. O. C. Reiber. 1,634,209; June 28.
 Bird house. R. W. Tisch. 1,628,597; May 10.
 Bird house. P. Troski. 1,634,763; July 5.
 Bisakyl-xanthogens, Making. A. Rothmann and H. Stein. 1,626,558; Apr. 26.
 Biscuit. G. F. Chambers. Des. 73,067; July 19.
 Biscuit machines, Cutting and embossing device for. A. Alltimes. 1,650,682; Nov. 29.
 Biscuit-making and the like machine. E. L. Vicars. 1,631,441; June 7.
 Biscuit, Milk sugar. B. Dass. 1,635,972; July 12.
 Biscuit-removal means. E. P. Webster. 1,627,364; May 3.
 Biscuits and the like, Machine for stacking. J. H. L. Reichner. 1,649,563; Nov. 15.
 Bismuth, Medical preparation of colloidal. V. A. Lapenta and S. Reislser. 1,615,226; Jan. 25.
 Bit: See—
 Disk bit. Roller bit.
 Drill bit. Rotary bit.
 Driving bit. Rotary drill bit.
 Rock-drill bit. Unpluggable bit.
 Bit-face head. G. Abrahamson. 1,640,020; Aug. 23.
 Bit holder. J. Davis. 1,613,693; Jan. 11.
 Bit holder, Extension-. W. A. Peck. 1,651,777; Dec. 6.
 Bit bolts, Protector for. R. J. Lewis. 1,652,283; Dec. 13.
 Bits, Machine for dressing. C. A. Butler. 1,614,649; Jan. 18.
 Bite meter. M. B. Carter. 1,649,664; Nov. 15.
 Bite tray, Registering. J. E. Psayia. 1,652,910; Dec. 13.
 Bitumen boiler. F. A. Davies. 1,620,952; Mar. 15.
 Bitumen suitable for paving and making the same, Soapy emulsion of. W. T. Hendley. 1,640,544; Aug. 30.
 Bituminiferous material, Process of and apparatus for distilling. J. J. Jakovsky. 1,622,722; Mar. 29.
 Bituminous composition. L. Kirschbraun. 1,620,900; Mar. 15.
 Bituminous composition and making same. L. Kirschbraun. 1,620,899; Mar. 15.
 Bituminous emulsion. J. A. Montgomerie. 1,643,675; Sept. 27.
 Bituminous emulsions, Making. L. Kirschbraun. 1,615,303; Jan. 25.
 Blackboard renovators, Cleaning head for. A. P. Bennington. 1,623,520; Apr. 5.
 Bladder, Inflatable. T. H. Fewless. 1,649,458; Nov. 15.
 Blade-adjustment mechanism, Folding. F. Lamatsch. 1,639,948; Aug. 28.
 Blade attachment, Cutting. J. G. Darling. 1,632,823; June 21.
 Blade-backing machine. H. J. Gaisman and C. Schumacher. 1,632,593; June 18.
 Blade, Cultivator. F. R. Bergsten. 1,634,531; July 5.
 Blade, Cultivator. A. D. Sievers. 1,633,232; June 21.
 Blade, Fastening. A. T. Kasley. 1,619,133; Mar. 1.
 Blade for use in rotary pumps and engines and like machines, Feather. J. Corbett. 1,653,548; Dec. 20.
 Blade holder. H. C. Boig. 1,645,685; Oct. 18.
 Blade holder. L. F. Duff. 1,619,249; Mar. 1.
 Blade holder. H. J. Gaisman. 1,639,535; Aug. 16.
 Blade holder. M. Rosenblum. 1,616,141; Feb. 1.
 Blade lashing. D. C. Davis. 1,618,274; Feb. 22.
 Blade lashing. A. T. Kasley. 1,618,285; Feb. 22.
 Blade-stopping device. A. W. Stoppel. 1,652,647; Dec. 13.
 Blades in cutter heads, Holding. C. T. Rottler. 1,613,732; Feb. 22.
 Blades, Uniting. P. C. Dimberg. 1,641,745; Sept. 6.
 Blank-feeding device. W. Owen. 1,631,150; June 7.
 Blank-feeding mechanism. M. J. Milmo. 1,627,920; May 10.
 Blank-holding means. R. W. Glasner and J. Nelson. 1,619,699; Mar. 1.
 Blank-holding means. R. W. Glasner and O. G. Nilson. 1,625,991; Apr. 26.
 Blank preparing apparatus. F. Ricks. 1,621,602; Mar. 22.
 Blank-shearing apparatus. M. E. Widell and F. Rudolphi. 1,619,227; Mar. 1.
 Blank-shearing means for trimming. R. M. Heames and B. W. Lindquist. 1,636,691; July 26.
 Blanks and the like, Apparatus for handling cloth. G. E. Molyneux. 1,649,319; Nov. 15.
 Blanks, Cross-slide carriage for turning and facing. W. J. Burger. 1,620,868; Mar. 15.
 Blanks, Tool sheet material, Method and apparatus for cutting. F. MacDonald. 1,616,752; Feb. 8.
 Blanks, Machine for preparing box. L. S. Rosenier. 1,613,132; Jan. 4.
 Blanks, Machine for punching and reinforcing. A. Olgay. 1,619,214; Mar. 1.
 Blanks, Machine for separating and feeding. W. W. Davidson. 1,613,984; Jan. 19.
 Blanks, Trimming. R. L. Wilcox. 1,649,634; Nov. 15.
 Blanket. E. R. Spaeth. 1,653,236; Dec. 20.
 Blanket, Electrically-heated. W. H. Turner. 1,615,294; Jan. 25.
 Blast furnace. J. Kennedy. 1,629,508; May 24.
 Blast furnace. J. A. Parker. 1,620,045; May 17.
 Blast furnace. W. C. Parsons. 1,637,350; Aug. 2.
 Blast furnace. W. A. Stuart. Re16,697; Aug. 9.
 Blast-furnace construction. W. Eaton and D. T. Croxton. 1,630,474; May 31.
 Blast-furnace structures, Elevator tower for. J. Kennedy. 1,650,088; May 24.
 Blast release and conveying means. J. Herr. 1,647,519; Nov. 1.
 Blasting. W. O. Owen. 1,627,991; May 10.
 Blasting-bore closure. W. Lindner. 1,642,118; Sept. 13.
 Blasting cap, Safety. N. I. Steers. 1,639,906; Aug. 23.
 Blasting cap, Safety. A. Turk. 1,629,423; May 17.
 Blasting charges, Container for. W. E. Jenkins. 1,635,038; Aug. 9.
 Blasting device. V. L. Holt. 1,616,048; Feb. 15.
 Bleacher, Portable. H. D. Oberdorfer. 1,623,068; Apr. 5.
 Bleaching and like purposes. C. B. Thorne. 1,642,978; Sept. 20.
 Bleaching and the like purposes. C. B. Thorne. 1,643,566; Sept. 27.
 Bleeder. A. Boyd. 1,642,536; Sept. 13.
 Bleeding appliance. E. F. Walker. 1,644,698; Oct. 11.
 Blind or awning construction. W. E. Duncanson. 1,645,947; Oct. 18.
 Blinds and screens, Spring roller for. A. Glenister. 1,623,835; Apr. 5.
 Blinds, Offsetting support for Venetian. A. H. Dodge. 1,625,021; Apr. 19.
 Blister preventive and foot pad. F. Sheehan. 1,637,285; July 26.
 Block: See—
 Anchor block. Fire-arch block.
 Balancing block. Fuse and junction block.
 Boot block. Fuse block.
 Bracing block. Hat block.
 Building block. Hat-crown block.
 Cable block. Lens block.
 Check block. Logging block.
 Cornice block. Marker block.
 Distributing block. Nailing block.
 Electrical connection block. Paving block.

- Block: See—
 Pulley block.
 Railway safety block.
 Reduction block.
 Refractory block.
 Road-paving block.
 Safety block.
 Safety sheave block.
 Sheave block.
 Shuttle block.
 Snatch block.
 Block and kicker structure, Combined log-deck. C. Gross. 1,617,757; Feb. 15.
 Block for wall construction. A. K. Jorgensen. 1,651,893; Dec. 6.
 Block machines, Pneumatic core for. A. Adams. 1,624,704; Apr. 12.
 Block-making machine. F. J. Straub. 1,651,420; Dec. 6.
 Block press. E. G. Loomis. 1,640,949; Aug. 30.
 Block pulley, Crown and traveling. W. S. Evans. 1,615,170; Jan. 18.
 Block system. M. H. Loughbridge. 1,617,402; Feb. 15.
 Blocks, bricks, or the like, Apparatus for use in erecting walls of. L. Liedler. 1,658,863. Dec. 27.
 Blocks, Making refractory. P. G. Willetts. 1,626,261; Apr. 26.
 Blood-coagulation medium. C. A. Mills. Re16,639; May 31.
 Blood-testing device. C. E. Roderick. 1,631,553; June 7.
 Blood transfusion. N. C. Aguilar. 1,630,248; May 31.
 Blood-treating process. A. Sternberg. 1,632,321; June 14.
 Bloomers. E. E. Carlson, J. P. Costello, and R. L. Heilbroner. 1,643,980; Oct. 4.
 Bloomers. R. K. Gershenson. 1,616,688; Feb. 8.
 Bloomers. C. B. Snell. 1,652,914; Dec. 13.
 Bloomers and making the same. F. Chatfield. 1,629,147; May 17.
 Bloomers, Ladies' and children's. E. G. Biberman. 1,645,369; Oct. 11.
 Blotter. C. Bull. 1,622,367; Mar. 29.
 Blotter-edge guard and paper cutter. L. G. Swinington. 1,640,100; Aug. 23.
 Blotter holder. B. A. Smith. 1,617,551; Feb. 15.
 Blouse, Knitted. S. Braunstein. Des. 72,561; May 10.
 Blouse, Knitted. W. A. Keller. Des. 71,947; Feb. 1.
 Blower. G. W. Allen. 1,628,216; May 10.
 Blower and heater, Combination. W. A. Brown. 1,627,229; May 3.
 Blower mechanism. R. C. Osgood. 1,654,485; Dec. 27.
 Blower, Rotary. O. Kay. 1,650,873; Nov. 29.
 Blowing device. F. M. Slater. 1,637,203; July 26.
 Blowing engine. A. T. Kasley. 1,636,001; July 19.
 Blowing machine for the manufacture of felts. E. Brecht and R. Fugmann. 1,649,385; Nov. 15.
 Blow-out boot. J. F. Rogers. 1,637,712; Aug. 2.
 Blow-out packer. J. A. Kammerdiner. 1,650,074; Nov. 22.
 Blow-out patch. A. J. Stephens. 1,618,314; Feb. 22.
 Blow-out preventer. W. A. Trout. 1,621,041; Mar. 15.
 Blowpipe tip. J. H. Buckman. 1,631,007; May 31.
 Blowtorch. H. L. Fish. 1,629,909; May 24.
 Blowtorch and pot. J. D. Kelvie, jr. 1,629,628; May 24.
 Blowtorch attachment, Portable. C. S. Kepler. 1,638,341; Aug. 9.
 Blowtorch, Plumber's. W. F. Pagel. 1,628,739; May 17.
 Blubber-slicing implement. E. C. Norton. 1,642,625; Sept. 18.
 Blue-printing machine. F. J. Trampour. 1,646,331; Oct. 18.
 Board: See—
 Aquatic sign board. Metering panel board.
 Bolt board. Panel board.
 Builder board. Paperboard.
 Cutter board. Plaster board.
 Diving board. Plaster-receiving board.
 Drain board. Plotting board.
 Dry-steam sleeve board. Poster board.
 Educational board. Radio panel board.
 End-dumping hoisting board. Running board.
 End-gate scoop board. Signboard.
 Fabricated board. Sleeve-finishing board.
 Fiber board. Slicing board.
 Game board. Standing board.
 Indicator board. Steam board.
 Insulation board. Switch board.
 Ironing board. Toy-game board.
 Keyboard. Wall board.
 Lath board.
 Board and making the same, Composition. F. J. Hallauer. 1,634,462; July 5.
 Board panel, Instrument. A. L. Knapp. Des. 74,057; Dec. 13.
 Boards or panels, Warp prevention in. E. Freund. 1,646,908; Oct. 25.
 Boat. T. B. Collins. 1,631,400; June 7.
 Boat. E. H. Harper. 1,622,508; Mar. 29.
 Boat. W. A. Hickman. 1,620,349; Mar. 8.
 Boat. W. A. Hickman. 1,621,839; Mar. 22.
 Boat. W. A. Hickman. 1,644,725; Oct. 11.
 Boat. H. Meyer. 1,631,047; May 31.
 Boat. W. Miller. 1,635,854; July 12.
 Boat. L. R. Ruthenburg. 1,636,076; July 19.
 Boat, Aluminum. F. L. and F. F. Frier. 1,625,598; Apr. 19.
 Boat, Bathing. P. N. Walters. 1,625,579; Apr. 19.
 Boat, Car speed. F. Chavez. 1,641,574; Sept. 6.
 Boat, Collapsible. J. F. Boyle. 1,620,867; Mar. 15.
 Boat, Collapsible. E. and G. Kaechele and R. Leidig. 1,649,811; Nov. 15.
 Boat, Collapsible canvas. F. H. Churchill. 1,614,280; Jan. 11.
 Boat construction. D. R. Baribault. 1,643,329; Sept. 27.
 Boat construction. J. Kozelka, jr. 1,616,500; Feb. 8.
 Boat construction, Nonsinkable. G. Arnold. 1,616,404; Feb. 8.
 Boat. Fish. A. Reinhart. 1,619,762; Mar. 1.
 Boat, Flying. L. B. Sperry. 1,629,978; May 24.
 Boat, Foot-propelled. C. Garro. 1,634,257; July 5.
 Boat form. C. E. Chance. 1,626,509; Apr. 26.
 Boat-hull construction. C. J. Thompson. 1,637,973; Aug. 2.
 Boat, Hunting. C. B. Ulrich. 1,651,785; Dec. 6.
 Boat-launching device. F. A. Antonich. 1,626,714; May 3.
 Boat-launching device. H. L. Sorensen. 1,629,419; May 17.
 Boat, Life. S. A. Steurlin. 1,619,001; Mar. 1.
 Boat, Life-saving. H. L. Grundstein. 1,649,403; Nov. 15.
 Boat of the canoe type. J. L. G. Dykes. 1,618,409; Feb. 22.
 Boat-operating mechanism. J. Ford. 1,618,180; Feb. 22.
 Boat, pontoon, seaplane boat, and temporary bridge, Collapsible floating structure such as a. N. Straussler. 1,650,914; Nov. 29.
 Boat propelled by manually-operated mechanism. I. R. Fleming. 1,648,985; Nov. 15.
 Boat-propelling mechanism. G. W. Johnston. 1,626,736; May 3.
 Boat, Retaining and releasing device. G. Menefee. 1,625,736; Apr. 19.
 Boat seat. R. C. Hansen. 1,617,805; Feb. 15.
 Boat, Sectional flying. H. E. Krammer. 1,627,184; May 3.
 Boat, Speed. J. Plum. 1,618,995; Mar. 1.
 Boats, Launch support for. P. Bolles. 1,618,634; Feb. 22.
 Boats, Launching ships'. A. Freudenheil. 1,613,367; Jan. 4.
 Boats, Rudder for. W. J. Snadeckl. 1,639,675; Aug. 23.
 Bobbin. N. E. Lucas. 1,631,043; May 31.
 Bobbin bin and shelf therefor. G. Schlesinger. 1,622,299; Mar. 29.
 Bobbin-braking mechanism. H. J. Tynan. 1,636,158; July 19.
 Bobbin cleaner, Filling-replenishing-loom. W. I. Stimpson. 1,654,473; Dec. 27.
 Bobbin clutching means for rotatable spindles. J. A. Miller. 1,638,058; May 10.
 Bobbin-driving shaft for winding frames and its bearing arrangement. W. Reiners and G. Kahlsch. 1,638,060; Aug. 9.
 Bobbin ferrule and making the same. E. C. Buffington. 1,614,648; Jan. 18.
 Bobbin for dyeing, washing, and like treatment, Quick-treating. H. Krantz. 1,652,992; Dec. 13.
 Bobbin magazine. W. Flett. 1,621,836; Mar. 22.
 Bobbin rack. J. N. Harrod. 1,622,107; Mar. 22.
 Bobbin, Winding. H. V. N. Snyder. 1,627,933; May 10.
 Bobbin-winding machine. L. E. Topham. 1,625,232; Aug. 2.
 Bobbin with rings controlled by box motion, Detector for. W. H. Wakefield. 1,651,565; Dec. 6.
 Bobbin, Wound. R. V. Snyder. 1,649,264; Nov. 15.
 Bobbin, Wound sewing-machine. M. Curry. 1,649,289; Nov. 15.
 Bobbins and the like, Balancing. J. Lock. 1,627,518; May 3.
 Bobbins, Device to prevent rotation of. V. H. Jennings. 1,626,837; May 3.
 Bobbins, Filling wound. L. H. Brown and G. E. Repass. 1,614,420; Mar. 11.
 Bobbins, Making. J. N. Anderson. 1,630,819; May 31.
 Bobbins, Ring-adjusting machine for. C. Rand. 1,649,186; Nov. 15.
 Bochehe. H. H. Wolter. Des. 73,117; July 19.
 Bodies by pressure, Method of and apparatus for forming. C. Claus. 1,624,904; Apr. 12.
 Bodies formed of separate fibers, Method and apparatus for producing. H. B. Lindsay. 1,643,505; Sept. 27.
 Bodies of desensitizing action and making same. R. Schuloff. 1,653,314; Dec. 20.
 Bodily exercise, Appliance for. B. Neumann. 1,638,003; Aug. 2.
 Body adjuster for deceased persons. W. G. Barnes. 1,632,160; June 14.
 Body applicator. J. H. Paul. 1,627,618; May 10.
 Body comb, Electric. O. G. C. L. J. Overbeck. 1,638,407; Aug. 9.
 Body construction. J. H. Bourgon. 1,640,640; Aug. 30.
 Body-forming mechanism. P. H. Lange. 1,639,513; Aug. 16.
 Body lifter and carrier. C. W. Smith. 1,620,298; Mar. 8.
 Body support. M. Tusup. 1,640,586; Aug. 30.
 Boiler: See—
 Bitumen boiler. Linnen boiler.
 Clothes boiler. Locomotive boiler.
 Domestic boiler. Oil-burner boiler.
 Economizer boiler. Sectional heating boiler.
 Eng boiler. Steam boiler.
 Electric steam boiler. Superheater boiler.
 Fire-tube boiler. Waste-heat boiler.
 Ham boiler. Water-tube boiler.

- Boller. J. H. Baker. 1,646,382; Oct. 25.
 Boller. T. W. Dahlquist. 1,648,043; Nov. 8.
 Boller. F. L. Decarie. 1,651,446; Dec. 6.
 Boller. R. L. d'Espujols. 1,647,969; Nov. 1.
 Boller. W. J. Fisher. 1,615,789; Jan. 25.
 Boller. W. G. Hoagland. 1,637,939; Aug. 2.
 Boller. F. B. Howell. 1,633,666-7; June 28.
 Boller. F. B. Howell. 1,651,526; Dec. 6.
 Boller. D. S. Jacobus. 1,629,273; May 17.
 Boller. V. L. Jones. 1,618,829; Feb. 22.
 Boller. H. G. Kraus. 1,633,163; Aug. 9.
 Boller. T. Matson. 1,653,649; Dec. 27.
 Boller. M. Morley. 1,625,046; Apr. 19.
 Boller. T. E. Murray. 1,653,674; Apr. 19.
 Boller. F. O. Pehmeyer. 1,631,325; June 7.
 Boller. M. E. Smith. 1,646,426; Oct. 25.
 Boller. L. D. Summers. 1,636,391; July 19.
 Boller. H. E. Wallis and C. T. Kingston. 1,619,171; Mar. 1.
 Boller and economizer organization. L. D. Summers. 1,642,794; Sept. 20.
 Boller and evaporator. Steam. W. Donald. 1,633,398; June 21.
 Boller and incinerator system. Combined. L. L. Scott. 1,624,681; Apr. 12.
 Boller and like furnaces. Damper for. T. Willis. 1,635,650; Aug. 9.
 Boller and steam. Combination double. W. E. Bailey. 1,647,209; Nov. 1.
 Boller attachment. Steam. C. Z. Alexander and E. S. Alexander. 1,637,721; Aug. 2.
 Boller baffle. G. H. Dickson. 1,619,463; Mar. 1.
 Boller. Blow-off and circulating device. G. Purvis. 1,648,023; Nov. 8.
 Boller-check plug, Fusible. J. A. Mascho. 1,640,611; Aug. 30.
 Boller cleaner. F. Bowers. 1,624,576; Apr. 12.
 Boller cleaner. W. P. Thomas. 1,614,502; Jan. 18.
 Boller cleaner. W. P. Thomas. 1,640,137; Aug. 23.
 Boller cleaner. G. I. Rawson. 1,644,275; Oct. 4.
 Boller cleaner. N. L. Snow. 1,645,307; Oct. 11.
 Boller cleaner. H. M. Varian. 1,644,211; Oct. 4.
 Boller-cleaner construction. S. J. Herman. 1,635,997; July 19.
 Boller-cleaning device. M. R. Bowe. 1,626,385; Apr. 26.
 Boller-cleaning device. E. B. Gers. 1,629,675; May 24.
 Boller-clean-out device. E. Janson. 1,616,372; Feb. 1.
 Boller compound. F. Robinson. 1,628,514; May 10.
 Boller construction. B. N. Broido. 1,640,178; Aug. 23.
 Boller construction. W. F. McPhee. 1,621,374; Mar. 15.
 Boller-control device. M. D. Smith. 1,629,055; May 17.
 Boller elements. Connecting nipple for cast-iron heating. E. Brahm. 1,631,911; June 7.
 Boller feed regulator. A. A. Atkins. 1,641,612; Sept. 6.
 Boller feed trap. S. L. Till. 1,631,708; June 7.
 Boller fire box, Locomotive. C. G. Hawley. 1,637,819; Aug. 2.
 Boller for carbon-black retorts. H. R. Rogers. 1,644,152; Oct. 4.
 Boller furnace. G. Trassenstr. 1,651,646; Dec. 6.
 Boller-gauge glass. S. F. Weston. 1,644,864; Oct. 11.
 Boller headers. Internal mandrel for sectional. J. H. Hinman. 1,638,633; Aug. 9.
 Boller installation. Steam. J. Kennal. 1,645,955; Oct. 18.
 Boller jacket. A. M. Mertzanoff. 1,649,317; Nov. 15.
 Boller or the like. A. H. Kemper. 1,648,988; Nov. 15.
 Boller rack. E. Slowinski and J. Zelasko. 1,652,687; Dec. 13.
 Boller regulator. C. A. French and L. E. Golt. 1,632,125; June 14.
 Boller stand. S. E. Hopper. 1,635,415; July 12.
 Boller stand. O. M. Reddon. 1,622,884; Mar. 29.
 Boller structure. T. F. Earty. 1,622,947; Mar. 29.
 Boller system. Waste-heat. H. Koppers. 1,653,635; Dec. 27.
 Boller-tube cleaner. F. H. Cole. 1,636,355; July 19.
 Boller-tube-cutting device. F. W. Larc. 1,631,495; June 7.
 Boller-tube-cutting device. F. W. Larc. 1,653,186; Dec. 20.
 Boller tube or flue cleaning implement. T. W. Dailey. 1,641,375; Sept. 6.
 Boller-tube stopper. C. S. Hart. 1,647,223; Nov. 1.
 Boller tubes and the like. Apparatus for cleaning. P. G. Handoll. 1,647,291; Nov. 1.
 Boller tubes, condenser tubes, and other surfaces. Apparatus for cleaning. D. Kennedy and A. C. Anderson. 1,618,093; Feb. 15.
 Boller washing and refilling system. F. W. Miller. 1,652,179; Dec. 13.
 Boller-washing system. F. S. Wichman. 1,651,010; Nov. 29.
 Boller-water-level control. C. F. De Corse. 1,617,437; Feb. 15.
 Boller with superheater. B. Broido. 1,650,184; Nov. 22.
 Bollers. Adjustable support for range. L. E. Koontz. 1,645,197; Oct. 11.
 Bollers and furnaces. Lining for. R. F. Burgin. 1,615,785; Jan. 25.
 Bollers, and superheaters, etc. Electric heater for steam. A. A. Patschelder. 1,626,295; Apr. 26.
 Bollers. Antiscale material for. A. G. Doe. 1,639,027; Aug. 16.
 Bollers, Apparatus for changing the water in. S. Otis. 1,622,339; Jan. 29.
 Bollers, Apparatus for use in preventing the incrustation of steam. J. F. Santleben. 1,645,973; Oct. 18.
 Bollers, Attachment for hot-water. S. C. Markatos. 1,646,098; Oct. 18.
 Bollers, Automatic alarm and shut-off for steam. J. M. Barrett. 1,634,392; July 5.
 Bollers, Automatic combustion control for steam. G. C. G. Gray. 1,617,591; Feb. 15.
 Bollers, Auxiliary heater for. R. Schelliga. 1,613,361; Jan. 4.
 Bollers, Baffle for water-tube. D. H. Mayo. 1,634,077; June 28.
 Bollers. Blow-off device for steam. E. Caldwell. 1,625,707; Apr. 19.
 Bollers, Closure means for manhole openings in steam. H. Franke. 1,632,957; June 21.
 Bollers, Control for sub-vacuous condition of periodically-fired. V. T. Brigham. 1,620,005; Mar. 8.
 Bollers. Control system for mechanically-fired. J. Naiman. 1,643,640; Sept. 27.
 Bollers. Draft-regulating device for. H. Praud. 1,654,486; Dec. 27.
 Bollers. Feed-water regulator for steam. G. F. Fenno. 1,649,342; Nov. 15.
 Bollers, Fire box for. R. M. Spencer. 1,622,356; Mar. 29.
 Bollers, Gauge glass for. J. Farragher and J. H. Dundon. 1,615,118; Jan. 18.
 Bollers, Grate for. J. J. Rathgeb, jr. 1,648,424; Nov. 8.
 Bollers, Iron-supporting plate for hot-water. S. C. Markatos. Re16,608; May 3.
 Bollers, Method of and apparatus for automatically regulating the water level in steam. F. Wempe. 1,646,945; Oct. 25.
 Bollers or the like, System for control of. G. H. Seely. 1,641,934; Sept. 6.
 Bollers, Preventing and dissolving scale in steam. P. Schenitzka. 1,617,350; Feb. 15.
 Bollers. Safety attachment for. A. T. Hedrick. 1,650,212; Nov. 22.
 Bollers, Sediment trap for. F. Conrad. 1,625,709; Apr. 19.
 Bollers, Soot-blowing apparatus for water-tube. J. H. Hinman and R. F. Burke. 1,620,762; Mar. 15.
 Bollers, Soot cleaner for. F. W. Linaker and T. M. Bruckack. 1,616,863; Feb. 8.
 Bollers, Steam superheater of low-pressure sectional. W. Hentsch. 1,636,230; July 19.
 Bollers, Superheater arrangement for water-tube. J. N. D. Heenan. 1,621,112; Mar. 15.
 Bollers, Thermal-efficiency casing for fluid-heating. C. A. Ryerson. 1,614,805; Jan. 15.
 Bollers, Thermal-efficiency casing for heating. C. A. Ryerson. 1,614,806; Jan. 18.
 Bollers, Water gauge for. J. C. Shaffer and L. S. Manekin. 1,625,828; Apr. 26.
 Bollers, Water-tube bridge-wall baffle for steam. E. J. Franklin. 1,634,139; June 28.
 Bolling vessel, Safety. J. Radolsky. 1,644,353; Oct. 4.
 Boll extractor. J. Woodridge. 1,653,422; Dec. 20.
 Boll-weevil catcher. R. Weaver. 1,624,773; Apr. 12.
 Boll-weevil exterminator. J. W. Kisselburg. 1,630,016; May 24.
 Bolmer. E. R. Viberg and W. C. Parker. 1,615,857; Feb. 1.
 Bolster cases, Manufacture of. W. O. Aldrich. 1,621,705; Mar. 22.
 Bolster repair stake. O. H. Sumpter and J. G. Sheffer. 1,648,664; Nov. 8.
 Bolster spring seat stop. C. F. Huntoon. 1,617,811; Feb. 15.
 Bolt: See—
 Dumb-bell bolt. Spring surface bolt.
 Lock bolt. Supporting bolt.
 Reciprocating bolt. Take-up bolt.
 Shackle bolt. Tight-preventing bolt.
 Sliding bolt. Wear-compensating bolt.
 Spindle bolt. Weeb.
 Bolt. B. J. Goldsmith and E. Keob. 1,652,621; Dec. 13.
 Bolt. D. Klaus. 1,644,477; Oct. 4.
 Bolt. F. F. Koelin. 1,653,015; Dec. 20.
 Bolt. H. A. Lomason. 1,627,422; May 10.
 Bolt. W. Schweinlein. 1,624,767; Apr. 12.
 Bolt and nut assembly. E. B. Stimpson. 1,616,286; Feb. 1.
 Bolt and nut, Lock. F. W. Lowe. 1,649,071; Nov. 15.
 Bolt and the like. Expandible shackle. F. A. Ross. 1,630,499; May 31.
 Bolt blanks and the like. Machine for threading or turning. J. A. Eden, jr. 1,646,954; Oct. 25.
 Bolt-board. A. Wolf. 1,621,860; Mar. 22.
 Bolt cutter. A. A. Schwindt. 1,643,589; Sept. 27.
 Bolt-cutting device. N. Glendonato. 1,638,483; Aug. 9.
 Bolt. Expansion. L. R. Zifferer. 1,625,013; Apr. 19.
 Bolt-finding machine. A. De Fries. 1,615,361; Jan. 25.
 Bolt fitting. C. Abel. 1,649,436; Nov. 15.
 Bolt for boiler settings, Hanger. R. H. Wyld and W. F. Keenan, jr. 1,622,303; Mar. 29.
 Bolt head. Removable. J. Mitchell and J. C. G. Cossey. 1,621,162; Mar. 22.
 Bolt-heading machines. Semiautomatic electric stock heater for. F. R. Long. 1,640,412; Nov. 15.
 Bolt-locking device. G. Roudanez. 1,624,563; Apr. 12.
 Bolt-locking means. M. Saloun. 1,621,854; Mar. 22.

- Bolt machines, Work-handling mechanism for. J. A. Kinney. 1,619,077; Mar. 1.
- Bolt making or similar machines, Die for. F. J. Simpson. 1,646,425; Oct. 25.
- Bolt mounting. G. H. Forsyth. 1,629,494; May 24.
- Bolt nutting and automatic chucking apparatus and method. E. A. Millnow. 1,642,379; Sept. 13.
- Bolt or rod straightening machine. D. P. Kellogg. 1,620,260; Mar. 8.
- Bolt threads, Device for testing. O. Eppenstern. 1,649,106; Nov. 15.
- Bolter. M. C. Carlson. 1,635,925; July 12.
- Boless dead-end clamp. G. H. Aldrich. 1,618,160; Feb. 22.
- Bolts, Manufacturing. K. F. W. Kempf. 1,651,895; Dec. 6.
- Bolts, Means for anchoring. R. A. Mirzan. 1,629,880; May 24.
- Bolts, nuts, screws, and the like, Machine for trimming. Barks of. M. J. Riley. Re 16,522; Jan. 4.
- Bomb, Dummy. E. J. W. Ragsdale. 1,632,147; June 14.
- Bomb, Gravity. E. A. Sperry. 1,626,363; Apr. 26.
- Bomb or flare rack. C. L. Paulus. 1,643,468; Sept. 27.
- Bomb with safety device, Aeroplane. T. Lafitte. 1,643,385; Sept. 27.
- Booming attacks, System for carrying out mimic. A. W. Parsons. 1,625,678; Apr. 19.
- Bombs from aircraft, Device for dropping. W. Swiatecki. 1,623,893; Apr. 5.
- Bonding pin. L. H. Ayer. 1,626,909; May 3.
- Bone clamp. C. E. Mullens. 1,635,187; July 5.
- Book binder. E. W. Otto. 1,640,850; Aug. 8.
- Book binding and covering machine. R. E. Ackley. 1,642,866; Sept. 20.
- Book-binding machine. G. H. Austin. 1,640,918; Aug. 30.
- Bookbinding machine. C. F. McBea. 1,652,724; Dec. 13.
- Bookcase. G. B. Cleveland. 1,631,622; June 7.
- Bookcase. L. W. Sevard. 1,639,387; Aug. 16.
- Book cover. W. C. Burrell. Des. 71,938; Feb. 1.
- Book cover. E. L. Persons. 1,632,193; June 14.
- Book cover or protector. R. L. Peugh. 1,643,418; Sept. 27.
- Book cover, Reinforced. G. M. Sharrard. 1,618,733; Feb. 22.
- Book covers, Machine for folding the corners of. C. G. Roline and C. Norre. 1,632,452; June 14.
- Book, Display. S. G. Johnson. 1,635,420-3; July 12.
- Book, Double-entry and trial balance. F. H. Sterling. 1,625,105; Apr. 19.
- Book edges, Mechanism for printing. R. E. Ackley. 1,616,101; Feb. 1.
- Book end. P. M. Griffith. Des. 72,149; Mar. 8.
- Book end. I. A. Hills. Des. 73,785; Nov. 8.
- Book end. H. H. Wessel. Des. 73,215; Aug. 2.
- Book end or analogous article. F. J. Willock. Des. 74,042; Dec. 6.
- Book or binder, or similar article. B. N. Skiff. Des. 72,245; Mar. 15.
- Book hanger. W. E. Slevin. 1,649,619; Nov. 15.
- Book holder. E. R. Lundius. 1,616,630; Feb. 8.
- Book holder. E. F. Redies and R. M. Van Valkenburgh. 1,654,191; Dec. 27.
- Book holder. E. S. and F. J. Petrick. 1,647,930; Nov. 1.
- Book, Loose-leaf. C. L. and W. S. Engel. 1,644,772; Oct. 11.
- Bookmark. P. Horacek. 1,646,291; Oct. 18.
- Book, Match. G. F. Clark. 1,634,136; June 28.
- Book match. C. E. Willis. 1,639,476; Aug. 16.
- Book, Note. M. Vogel. 1,639,821; Aug. 23.
- Book, Loose-leaf. W. K. Horsfield. 1,621,783; Mar. 22.
- Book or pamphlet trimming device. C. Adamsky. 1,635,165; July 12.
- Book, Pneumatic. W. C. Cutler. 1,649,448; Nov. 15.
- Book puller. S. J. Stern. 1,635,864; July 12.
- Book rack. W. W. Wiperman. 1,639,931; May 24.
- Book, Refill. E. A. Trussell. 1,615,493; Jan. 25.
- Book rest. A. Grumbles. 1,621,632; Mar. 22.
- Book sander. W. E. Reavis. 1,642,171; Sept. 13.
- Book soap. D. W. Mitchell. 1,648,778; Nov. 8.
- Bookkeeping form. H. W. Read. 1,630,073; May 24.
- Bookkeeping machines and the like, Operating device for. V. J. Hedden. 1,632,228; June 14.
- Booklet. J. J. Murray. 1,640,246; Aug. 23.
- Bookrack. J. G. Westerfors. 1,654,027; Dec. 27.
- Books, Holder for manifolding. E. K. Bettle. 1,645,177; Oct. 11.
- Books, Manufacture of manifolding. A. R. Lawson. 1,639,040; Aug. 16.
- Books, Rounding. J. Murray. 1,648,860; Nov. 8.
- Booms and sails, Mounting for. L. J. Larsen. 1,650,759; Nov. 29.
- Boom-swinging mechanism, Power. R. W. Runge. 1,637,457; Aug. 2.
- Boots. J. L. Barrett. 1,642,715; Sept. 20.
- Boot. C. B. Lord. Des. 73,044; July 12.
- Boot and shoe and method of manufacture. R. W. Peer. 1,643,678; Sept. 27.
- Boot and shoe and prepared insole therefor. B. F. Hartwell. 1,642,877; Sept. 20.
- Boot and shoe manufacture. J. P. Byron and H. A. Evans. 1,618,809; Feb. 22.
- Boot and shoe manufacture. H. A. Evans. 1,618,754; Feb. 22.
- Boot block. P. Hammes. 1,649,783; Nov. 15.
- Boot, Foldable waterproof. E. R. Wharton. 1,642,050; Sept. 13.
- Boot, Form-fitting. L. H. L'Hollier. 1,643,125; Sept. 20.
- Boot, Hunting. W. J. Hamilton. 1,639,560; Aug. 16.
- Bootjack. W. G. Moland. 1,636,010; July 19.
- Boot making, Metal hand tool for. W. H. Gulliver. 1,616,040; Feb. 1.
- Boot or shoe. J. B. Piotrowski. 1,626,426; Apr. 26.
- Boot or shoe and composite sole therefor and manufacturing same. B. F. Hartwell. 1,618,283; Feb. 22.
- Boot or shoe, composite sole therefor, and manufacturing same. B. F. Hartwell. 1,619,023; Mar. 1.
- Boot or shoe form. A. Schosbushen. 1,632,044; June 14.
- Boot, Riding. J. Ascheim. 1,648,101; Nov. 8.
- Boot, Rubber. L. H. L'Hollier. 1,626,417; Apr. 26.
- Boot, Spring. J. W. and R. A. Watson. 1,634,163; June 28.
- Boot-tree. W. G. Moland. 1,650,846; Nov. 29.
- Boots and shoes and compound used therein, Stiffener for. E. P. Lohr. 1,629,110; May 17.
- Boots and shoes, Apparatus for use in, attaching soles to the lasted uppers of. J. H. Bromley. 1,654,408; Dec. 27.
- Boots and shoes, Calk for. O. White. 1,653,526; Dec. 20.
- Boots and shoes, Finishing machine for. A. and A. Cocozza, Jr. 1,620,721; Mar. 15.
- Boots and shoes, Leather stiffener for the heels and toes of. F. C. Weichelt and P. S. Turnbull. 1,653,075; Dec. 20.
- Boots and shoes, Machine for removing surplus material from. R. P. Frye. 1,633,855; June 28.
- Boots and shoes, Machine for use in manufacture of. A. B. Fowler. 1,630,562; May 31.
- Boots and shoes, Protector for. N. W. Urwin. 1,620,413; Mar. 8.
- Boots and shoes, Rack for. C. Fisher. 1,626,399; Apr. 26.
- Boots and shoes, Repair piece for. R. M. Elmstrom. 1,628,831; May 17.
- Boots and shoes, Stiffener for. G. L. Preble. 1,637,709; Aug. 2.
- Boots, Calk attachment for. J. W. McNeill and J. Michelsen. 1,631,877; June 7.
- Boots, Calk attachment for. J. Michelsen. 1,645,111; Dec. 11.
- Boots, Elastic closure for ladies'. E. J. Flewitt. 1,617,706; Feb. 15.
- Boots or shoes, Heel for. D. D. Porsi and C. Rodino. 1,648,863; Nov. 8.
- Boots, shoes, clogs, and the like footwear, Detachable heel for. J. Hutchinson. 1,639,433; Aug. 16.
- Boots, Sole for rubber. J. B. Hines. 1,652,307; Dec. 13.
- Booth. A. C. Hensley. Des. 73,833; Nov. 15.
- Booth, Burglarproof. W. A. Hayes. 1,643,494; Sept. 27.
- Booth, Portable. H. H. Clark. Des. 73,598; Oct. 11.
- Booth, Portable refreshment. L. A. Fleming. Des. 73,563; Oct. 11.
- Borax from brine, Decreasing the rate of crystallization of. A. W. Gauger and H. H. Storch. 1,621,927; Mar. 22.
- Boring and coring apparatus, Deep-well. C. E. Reed. 1,649,857; Nov. 22.
- Boring and coring apparatus, Rotary deep-well. C. E. Reed. 1,649,856; Nov. 22.
- Boring and drilling machines, etc., Control and feed for. W. P. Hunt. 1,635,848; July 12.
- Boring and reaming tool. C. B. Robinson. 1,622,209; Mar. 22.
- Boring apparatus, Tong support for earth-. E. E. Greve. 1,644,470; Oct. 4.
- Boring bar. J. M. Marty, Jr. 1,644,197; Oct. 4.
- Boring drill, Earth. C. E. Reed. 1,649,859; Nov. 22.
- Boring machine. F. C. Allen. 1,637,759; Aug. 2.
- Boring machine. C. T. Rottler. 1,614,691; Jan. 18.
- Boring machine, Adjustable. N. Maddox. 1,620,371; Mar. 8.
- Boring machine, Car-wheel. T. C. Kaseberg. 1,649,411; Nov. 15.
- Boring machine, Earth. G. Genung. 1,641,926; Sept. 6.
- Boring machine, Expandable. A. Gosper. 1,637,745; Aug. 2.
- Boring-machine head. A. V. Rackstraw. 1,633,752; June 28.
- Boring machine, Overhead. R. H. Henderson. 1,644,831; Oct. 11.
- Boring mechanism. J. T. Hiscock. 1,637,611; Aug. 2.
- Boring mill, Locomotive-tire. L. C. Cole. 1,650,692; Nov. 29.
- Boring tool. F. A. Decker. 1,622,094; Mar. 22.
- Boring tool. G. H. Spengler. 1,626,887; May 3.
- Borneol esters, Manufacture of. H. M. Blum. 1,640,639; Aug. 30.
- Boron compounds and the like, Mining soluble. H. Blumenberg, Jr. 1,649,385; Nov. 15.
- Boron compounds, Mining insoluble. H. Blumenberg, Jr. 1,636,458-6; July 13.
- Bosh-cooling plant. F. H. N. Gerwig. 1,647,041; Oct. 25.
- Bottle. C. J. Baumann. Des. 71,899; Jan. 25.
- Bottle. I. J. Blake and H. H. Hart. 1,635,811; July 12.
- Bottle. H. M. Boe. 1,654,507; Dec. 27.
- Bottle. R. Boyd, F. W. Nitardy, and J. C. Lewis. Des. 71,954; Feb. 8.
- Bottle. L. G. Branham. Des. 74,000; Dec. 6.
- Bottle. F. S. Cavanaugh. Des. 73,363; Aug. 30.
- Bottle. J. P. Curran. Des. 74,139; Dec. 27.

- Bottle. F. J. de S. Coty. Des. 71,779; Jan. 4.
 Bottle. F. Deitrick. Des. 71,907; Jan. 25.
 Bottle. J. W. Dissette. Des. 72,604; May 10.
 Bottle. J. R. Dolan and J. P. Shea. 1,636,174; July 10.
 Bottle. G. Duname. Des. 73,428; Sept. 13.
 Bottle. F. K. Edwards. Des. 73,901; Nov. 22.
 Bottle. J. A. Fields. Des. 74,104; Dec. 20.
 Bottle. W. A. Fisher and R. Amicarelli. 1,615,577; Jan. 25.
 Bottle. M. Fox. Des. 73,226; Aug. 9.
 Bottle. E. F. Glacken. 1,650,440; Nov. 22.
 Bottle. F. Grad. Des. 73,497; Sept. 20.
 Bottle. J. F. Harrison. Des. 73,238; Aug. 26.
 Bottle. W. A. Heyman. Des. 73,129; Aug. 13.
 Bottle. S. A. Jessup. Des. 71,976; Feb. 8.
 Bottle. A. H. Johnson. Des. 72,951; June 28.
 Bottle. C. King. Des. 72,831; June 14.
 Bottle. M. A. Klein. 1,625,728; Apr. 19.
 Bottle. L. B. Koch. 1,632,187; June 14.
 Bottle. L. E. Krick. Des. 71,973; Oct. 4.
 Bottle. J. P. Lasater. Des. 73,233; Aug. 9.
 Bottle. J. S. Lindemann. Des. 73,188; July 26.
 Bottle. C. T. Long and A. C. Sohn. Des. 72,483; Apr. 19.
 Bottle. E. K. Lyons. Des. 73,530; Sept. 27.
 Bottle. G. N. Mas. Des. 71,919-20; Jan. 25.
 Bottle. G. N. Mas. Des. 74,066-9; Dec. 13.
 Bottle. G. N. Mas. Des. 72,954-63; June 23.
 Bottle. J. C. May. Des. 72,630; May 10.
 Bottle. G. Mezitis. Des. 73,190; Aug. 2.
 Bottle. F. R. Miller. Des. 72,908; June 21.
 Bottle. F. R. Miller. Des. 73,234; Aug. 9.
 Bottle. F. R. Miller. Des. 73,573; Oct. 4.
 Bottle. S. C. Miller. Des. 73,096; July 19.
 Bottle. H. R. McBride. Des. 74,117; Dec. 20.
 Bottle. J. Netter. Des. 72,434; Apr. 12.
 Bottle. C. J. Oppenheim, Jr. Des. 72,564; May 3.
 Bottle. R. H. Patterson. Des. 72,385; Apr. 5.
 Bottle. J. E. Fuhl. Des. 73,866; Nov. 15.
 Bottle. G. D. Stewart. Des. 72,873; June 14.
 Bottle. A. B. Taylor and C. T. Long. Des. 72,503; Apr. 19.
 Bottle. A. B. Taylor, C. T. Long, and A. C. Sohn. Des. 72,459; Apr. 12.
 Bottle. M. S. Walker. Des. 72,973; June 28.
 Bottle. H. Winter. Des. 73,629; Oct. 11.
 Bottle. A. E. Wright. Des. 73,118; July 19.
 Bottle. J. Young. Des. 73,990; Nov. 29.
 Bottle. Barber's dispensing. R. Depue. 1,637,557; Aug. 2.
 Bottle and cream separator for use therewith. Milk. E. E. Turnell. 1,645,632; Oct. 18.
 Bottle and holder therefor. Combined. J. Worth. 73,594; Oct. 11.
 Bottle cap. E. G. Baum. 1,619,283; Mar. 1.
 Bottle cap. A. C. Booth. 1,622,220; Mar. 22.
 Bottle cap. L. R. N. Carvalho. 1,636,849; July 26.
 Bottle cap. W. L. Chaplin. 1,637,470; Aug. 2.
 Bottle cap. L. S. Groves. 1,619,509; Mar. 1.
 Bottle cap. M. T. Hasek. 1,630,179; May 24.
 Bottle cap. C. R. Perkins. 1,643,256; Sept. 20.
 Bottle cap. W. R. Waugh. 1,651,426; Dec. 6.
 Bottle cap. Automatic. R. R. Frye. 1,637,562; Aug. 2.
 Bottle cap dispenser. V. Browne. 1,650,500; Nov. 29.
 Bottle-cap lifters. Making. B. H. Harris. 1,632,201; Dec. 13.
 Bottle-capping machine. A. C. Artz. 1,635,454; July 12.
 Bottle cap, Milk-. E. G. Baum. 1,615,157; Jan. 18.
 Bottle cap, Milk-. J. M. Jordan. 1,627,036; May 3.
 Bottle cap, Milk-. H. Zuber. 1,614,094; Jan. 11.
 Bottle cap, Nonrefillable-. W. M. Rogers. 1,640,095; Aug. 23.
 Bottle cap or closure. B. Kühne. 1,612,927; Jan. 4.
 Bottle cap or closure. J. Stirris. 1,643,964-5; Oct. 4.
 Bottle-cap remover. F. S. Enkler and G. W. Baird. 1,628,715; May 17.
 Bottle-cap remover. J. B. Sumner. 1,640,382; Aug. 30.
 Bottle-capping machine. J. James. 1,618,879; Feb. 22.
 Bottle-capping device and the like. G. E. Roedding. 1,648,030; Nov. 8.
 Bottle-capping machine. G. A. Fullips. 1,649,459; Nov. 15.
 Bottle-capping machine. S. L. Goldman. 1,643,557; Sept. 27.
 Bottle-capping machine. E. Jabs. 1,634,363; July 5.
 Bottle-capping machine. J. A. Johnson. 1,634,464; July 5.
 Bottle-capping machine. O. N. Tevander. 1,629,599; Nov. 24.
 Bottle-capping machine. O. N. Tevander. 1,649,266; Nov. 15.
 Bottle-capping utensil. R. E. Reardon. 1,631,289; June 7.
 Bottle caps. Machine for manufacturing. H. A. Skov. 1,628,335; May 10.
 Bottle. Carboy. W. Murray. 1,617,456; Feb. 15.
 Bottle carrier for milk bottles. Sanitary. C. W. Hornaday. 1,629,871; May 24.
 Bottle closure. E. R. Bartlett. 1,621,187; Mar. 15.
 Bottle closure. C. Benetti. 1,626,499; Apr. 26.
 Bottle closure. J. G. Bign. Des. 73,444; May 31.
 Bottle closure. A. D'Acquisto. 1,617,794; Feb. 15.
 Bottle closure. H. De Wallace. 1,625,594; Apr. 19.
 Bottle closure. W. F. Haskell, Jr. 1,636,996; July 26.
 Bottle closure. W. H. Knowles. 1,619,136; Mar. 1.
 Bottle closure. W. G. Laidlaw. 1,636,422; July 19.
 Bottle closure. C. D. Lukens. 1,625,617; Apr. 19.
 Bottle closure. J. A. Pease. 1,644,542; Oct. 4.
 Bottle closure. C. J. Schuster. 1,630,805; May 31.
 Bottle closure. W. M. Weeks. 1,625,110; Apr. 19.
 Bottle closure and making same. W. P. Henry. 1,640,192; Aug. 23.
 Bottle closure and producing the same. O. N. Tevander. 1,635,510-13; July 12.
 Bottle closure and the like. F. K. Plympton. 1,640,009; Aug. 23.
 Bottle closure, Milk-. G. A. Aicher. 1,617,783; Feb. 15.
 Bottle closure, Milk-. W. A. Souder. 1,643,322; Sept. 27.
 Bottle closures, Apparatus for sealing. O. C. Kavie. 1,638,445; Aug. 9.
 Bottle closures, Cushion material for. C. E. McManus. 1,638,541; Aug. 9.
 Bottle closures, Expander for. O. C. Kavie. 1,638,444; Aug. 23.
 Bottle closures, Making. F. K. Plympton. 1,625,869; Apr. 26.
 Bottle closures, Method and apparatus for applying. W. M. Weeks and J. A. Pease. 1,652,595; Dec. 13.
 Bottle construction. E. B. Clark. 1,635,070; July 5.
 Bottle-container closure. H. A. Sudds. 1,645,829; Oct. 18.
 Bottle container, Nursing. M. A. Wagner. 1,625,002; Apr. 19.
 Bottle container, Perfume. E. M. Prat. Des. 73,669; Oct. 18.
 Bottle cooler. W. Planski. 1,639,857; Aug. 23.
 Bottle-cooling device. G. A. Nuhrah. E. Thoman, and G. F. Rosewall. 1,614,017; Jan. 11.
 Bottle cover. J. W. Dawson and J. L. Herold. 1,633,073; June 21.
 Bottle cover and cap remover. C. T. Raschick. 1,621,902; Mar. 22.
 Bottle cover and receptacle, Milk-. E. D. Smith. 1,630,867; May 31.
 Bottle decapper. C. M. Brennan. 1,650,597; Nov. 29.
 Bottle-exchange receptacle for containing milk bottles. P. T. McLaughlin and W. Anderson. 1,642,999; Sept. 20.
 Bottle. Eyewash. P. M. Wilson. 1,623,454; Apr. 5.
 Bottle filler, Milk-. F. C. Wolf. 1,645,034; Oct. 11.
 Bottle-filling apparatus. A. J. Galland. 1,634,416; July 5.
 Bottle-filling device. R. F. Thomson. 1,633,048; June 21.
 Bottle-filling machine. W. Meadowcroft. 1,637,582; Aug. 2.
 Bottle-filling machine. F. W. Müller and E. H. Weatherhead. 1,614,485; Jan. 18.
 Bottle-filling machine. H. M. Ross. 1,641,550; Sept. 6.
 Bottle-forming machine. A. F. Tremblay. 1,648,792; Nov. 8.
 Bottle. Fraudproof. A. Kelzer. 1,645,954; Oct. 18.
 Bottle, Glass. A. G. Hamilton. Des. 72,420; Apr. 12.
 Bottle, Glass. V. J. Ready. Des. 73,540; Sept. 27.
 Bottle. Heat-insulating. A. Günther and R. Gertloff. 1,631,413; June 7.
 Bottle-height-compensating mechanism. A. Calleson. 1,650,185; Nov. 22.
 Bottle holder. H. G. Baker and J. R. Moore. 1,654,477; Dec. 27.
 Bottle holder. J. E. Fite, Jr. 1,633,083; June 21.
 Bottle holder. J. L. Freisner. 1,634,747; July 5.
 Bottle holder. J. R. Guetter. 1,618,321; Feb. 22.
 Bottle holder, Milk-. B. Bardax. 1,645,274; Oct. 11.
 Bottle holder, Milk-. L. Dangerfield. 1,640,927; Aug. 30.
 Bottle holder, Milk-. T. C. Rouse. 1,630,409; May 31.
 Bottle holder, Milk-. M. M. Seipt. 1,614,259; Jan. 11.
 Bottle holder, Nursing. M. S. Bulkley. 1,636,847; July 26.
 Bottle holder, Nursing. P. Cardarella. 1,630,167; May 24.
 Bottle holder, Nursing. L. P. Fleshner. 1,629,156; May 17.
 Bottle holder, Nursing. A. Tufenkjian. 1,624,695; Apr. 12.
 Bottle holder, Perfume. J. A. Fields. Des. 71,830; Jan. 11.
 Bottle, Hot-water. E. E. Sturk. 1,643,794; Sept. 27.
 Bottle-making machine. J. J. Meyer and J. G. Lepper. 1,653,723; Dec. 27.
 Bottle, Milk. J. F. Allen. 1,653,608; Dec. 27.
 Bottle, Milk. O. H. Baker. 1,623,459; Apr. 5.
 Bottle, Milk. C. R. Coup. 1,654,239; Dec. 27.
 Bottle, Milk. D. F. Cunningham. 1,639,398; Aug. 16.
 Bottle, Milk. R. W. Emeric. 1,654,365; Dec. 27.
 Bottle, Nonrefillable. A. Crisld. 1,621,923; Mar. 22.
 Bottle, Nonrefillable. M. Hermes. 1,638,199; Aug. 9.
 Bottle, Nursing. A. M. Holaday. 1,622,512; Mar. 29.
 Bottle, Nursing. G. B. McMullen. 1,639,066; Aug. 16.
 Bottle, Oil-dispensing. E. M. Ede. Des. 73,824; Nov. 15.
 Bottle opener. A. S. Adams and D. H. Morgan. 1,653,939; Dec. 27.
 Bottle opener. A. O. Guerri. Des. 73,406; Sept. 6.
 Bottle opener. D. W. Liles. 1,629,219; May 17.
 Bottle or similar article. C. N. Comati. P. E. Kekenes, and N. J. Peters. Des. 71,777; Jan. 4.
 Bottle or similar article of manufacture adapted for use as an ornament, paper weight, or the like. C. A. Hatcher. Des. 72,063; Feb. 22.

- Bottle or similar container. R. T. Brewster. Des. 72,889; June 21.
- Bottle or similar container. P. C. Delaize. Des. 71,782; Jan. 4.
- Bottle or similar container. P. C. Delaize. Des. 72,410-11; Apr. 12.
- Bottle or similar container. J. I. Poses. Des. 73,267; Aug. 16.
- Bottle or similar container. W. E. Swindell. Des. 71,937; Jan. 25.
- Bottle or similar container. W. E. Swindell. Des. 73,716; Oct. 25.
- Bottle or similar container. W. E. Swindell. Des. 74,080; Dec. 13.
- Bottle or similar container. M. Vionnet. Des. 72,687; May 17.
- Bottle or similar perfume container. R. T. Brewster. Des. 73,278; Aug. 23.
- Bottle, Perfume. G. Grunberg. Des. 72,093; Mar. 1.
- Bottle, Perfume. G. Grunberg. Des. 72,093; Mar. 1.
- Bottle, Perfume. G. Grunberg. Des. 72,554; May 3.
- Bottle, Perfume. G. Grunberg. Des. 72,620-22; May 10.
- Bottle, Perfume. G. Grunberg. 1,617,842; Feb. 15.
- Bottle, Perfume. G. Grunberg. 1,617,844; Feb. 15.
- Bottle, Perfume. G. Grunberg. 1,647,115; Nov. 1.
- Bottle-polishing machines, Device for. C. R. Nixon. 1,614,487; Jan. 13.
- Bottle, Pressure. O. Weski. 1,644,966; Oct. 11.
- Bottle protector. J. A. Pipkin. 1,632,347; June 14.
- Bottle protector. Milk. J. A. McNamara. 1,619,745; Mar. 1.
- Bottle protector, Nursing. T. G. Pelsue. 1,626,425; Apr. 26.
- Bottle, Quick-service oil. W. E. Beard and W. E. Hostetter. 1,652,696; Dec. 13.
- Bottle rack. H. R. Streif. 1,620,407; Mar. 8.
- Bottle receptacle, Milk. F. H. Braecklein. 1,628,575; May 10.
- Bottle, Sanitary milk. J. D. McCampsey. 1,619,989; Mar. 1.
- Bottle stopper. V. M. Kloss. 1,638,207; Aug. 9.
- Bottle stopper. E. Lunner. 1,614,311; Jan. 11.
- Bottle stopper. W. G. McBurney. 1,622,658; Mar. 29.
- Bottle stopper. R. E. McEldowney. Des. 71,807; Jan. 4.
- Bottle stopper. J. Straub. 1,634,389; Dec. 27.
- Bottle stopper, Dispensing. H. H. Barker. 1,631,784; June 7.
- Bottle-stopper seal. H. G. Pepino. 1,628,555; May 10.
- Bottle supporting and locking device, Milk. J. Rogginger. 1,635,346; July 12.
- Bottle top, Combined cap remover and milk. F. Ralcerczak. 1,642,896; Sept. 13.
- Bottle-transfer mechanism. M. J. Owens. 1,626,748; May 8.
- Bottle-vending machine. J. E. Sapp. 1,639,615; Aug. 16.
- Bottle washing and sterilizing apparatus. L. Rosenfeld. 1,634,215; June 28.
- Bottle-washing device. J. Becker. 1,622,900; Mar. 29.
- Bottle-washing machine. J. Brusson. 1,640,643; Aug. 30.
- Bottle-washing machine. J. R. Dostal. 1,644,515; Oct. 4.
- Bottle-washing machine. J. R. Dostal. 1,629,155; May 17.
- Bottle-washing machine. A. E. Ladewig. 1,653,638; Dec. 27.
- Bottle-washing machines, Adjustable jet for. J. E. Ayers. 1,652,599; Dec. 13.
- Bottle-washing machines, Bottle holder for. J. E. Ayers. 1,652,597; Dec. 13.
- Bottles, Adapter for vacuum. W. M. Kushner. 1,623,544; Apr. 6.
- Bottles and other containers, Closure for. R. H. Carmel. 1,651,669; Dec. 6.
- Bottles and other vessels, Machine for filling. H. V. C. Nielsen. 1,652,994; Dec. 13.
- Bottles and the like, Manufacture of paper pulp. J. Shaw. 1,632,928; June 21.
- Bottles and the like, Stopper and sprinkler cap for. G. E. Davis. 1,643,255; Sept. 2.
- Bottles, boxes, packets, and similar articles, Machine for labeling. A. Parr. 1,647,193; Nov. 1.
- Bottles, Closure for. I. E. Weber. 1,648,793; Nov. 8.
- Bottles, Container for milk. J. E. Abbott. 1,625,183; Apr. 19.
- Bottles containing poison or the like, Safety attachment for. E. C. Dennett. 1,648,165; Nov. 8.
- Bottles, Dispensing cap for. C. W. Cooke. 1,636,215; July 19.
- Bottles, Display device for water. W. L. Hensel. 1,647,044; Oct. 25.
- Bottles, Guard for poison. W. Moses. 1,641,897; Sept. 6.
- Bottles, Handle-securing means for. L. T. La Paugh. 1,617,213; Feb. 8.
- Bottles, Holder for feeding. E. M. Patterson. 1,649,852; Nov. 22.
- Bottles, Holder for nursing. B. Hyman. 1,635,789; July 12.
- Bottles, Method relating to the manufacture of rubber water. H. A. Hands. 1,644,829; Oct. 11.
- Bottles or jars, Closure for. A. W. and G. W. Booth. 1,645,316; Oct. 11.
- Bottles or similar articles, Cap for. M. A. Green. Des. 73,096; Oct. 25.
- Bottles, Safety slip for nursing. S. Whitlock. 1,637,719; Aug. 2.
- Bottles, Shield for nursing. J. Geisler. 1,649,580; Nov. 15.
- Bottles, Teat and valve for feeding. W. C. Ingram and E. J. Everest. 1,640,152; Aug. 23.
- Bottled goods, Cooler for. S. Kaye. 1,616,689; July 5.
- Bottling apparatus. A. Osolin. 1,647,052; Oct. 25.
- Bottling machine. A. F. Hoffman. 1,631,530; June 7.
- Bottling machine. P. W. Shields. 1,621,470; Mar. 15.
- Bouquet pin. F. Salmon. 1,647,197; Nov. 1.
- Bow socket and like article. F. K. Lewis and L. L. Roath. 1,654,132; Dec. 27.
- Bow tie. L. Friedman. 1,639,767; Aug. 23.
- Bow tie. A. Kimmel. 1,646,295; Oct. 18.
- Bow tie. F. M. Mulrooney. 1,613,524; Jan. 4.
- Bowel evacuant. L. Baron. 1,621,186; Mar. 15.
- Bowl. W. H. Magee. Des. 72,861; June 14.
- Bowl. F. G. Kinken. 1,638,499; Aug. 9.
- Bowl, Centrifugal. L. D. Jones and A. U. Ayres. 1,619,347; Mar. 1.
- Bowl, Cut-glass. F. L. Morecroft. Des. 74,019; Dec. 6.
- Bowl, Detachable finger. J. Roberts. 1,644,612; Oct. 4.
- Bowl, Nut. P. S. Horst. Des. 74,055; Dec. 13.
- Bowl or similar article. R. R. Kintz. Des. 72,900; Jan. 21.
- Bowl, Punch. B. V. Booth. 1,621,055; Mar. 15.
- Bowl, Sanitary toilet. C. L. Carpenter and W. E. Jaquith. 1,645,799; Oct. 18.
- Bowl, Self adjusting centrifugal. J. V. M. Risberg. 1,624,117; Apr. 12.
- Bowl separator, Centrifugal. O. C. Brewster. 1,649,096; Nov. 15.
- Bowl structure, Water-. H. C. Rassmann. 1,652,046; Dec. 6.
- Bowl, Sugar. H. Peterman. 1,640,156; Aug. 23.
- Bowls or similar articles, Base for metal. E. T. Beck. Des. 72,853; June 21.
- Bowling alley. J. Griffith. 1,635,784; July 12.
- Bowling alley. R. L. Lloyd. 1,630,440; May 31.
- Bowling-alley pin spotter. A. R. Thompson. 1,621,565; Mar. 22.
- Bowling alleys, Division board for. C. B. House. 1,628,844; May 17.
- Bowling alley, Kaul indicator for. A. J. Kempfen. 1,621,511; Mar. 22.
- Bowling alleys, Kick back for. F. Gessert. 1,625,599; Apr. 19.
- Bowling-game apparatus. G. Bradshaw. 1,629,065; May 17.
- Bowling-game apparatus. C. H. Panjeau. 1,625,676; May 17.
- Bowling pin. G. P. Geisler. 1,635,472; July 12.
- Bowling pin. M. J. Whelan. 1,620,310; Mar. 8.
- Bowling-pin-setting apparatus and its operating. L. D. Schaffer. 1,627,414; May 3.
- Box; See—
- Alarm box.
- Bait box.
- Ballot box.
- Battery box.
- Bearing box.
- Berry box.
- Blasting-cap box.
- Boiler fire box.
- Budget box.
- Cake box.
- Candy box.
- Candy-dispensing box.
- Carburizing box.
- Cashier's box.
- Chick box.
- Cigar box.
- Cigarette box.
- Collapsible box.
- Combination box.
- Condit box.
- Cooling box.
- Core box.
- Dice box.
- Dispenser box.
- Display box.
- Divisible box.
- Driving box.
- Exhaust box.
- Feed box.
- Feed box.
- Electrical inclosing box.
- Exhaust box.
- Flue box.
- Fire box.
- Flow box.
- Flower box.
- Flush box.
- Folding box.
- Glass battery box.
- Golf putting box.
- Grocery box.
- Hairpin box.
- Hanger box.
- Hat box.
- Jack box.
- Jewelry box.
- Journal box.
- Knockdown box.
- Locomotive driving box.
- Mail box.
- Make-up box.
- Match box.
- Mechanical box.
- Milk box.
- Minnow box.
- Miter box.
- Oilstone box.
- Outlet box.
- Packing and display box.
- Paper box.
- Paper folding box.
- Pilferproof box.
- Powder box.
- Refrigerator box.
- Ring box.
- Roller box.
- Shade box.
- Shipping box.
- Smoke box.
- Stuffing box.
- Suction box.
- Switch box.
- Talcum-powder box.
- Tea box.
- Tempo box.
- Theft-proof box.
- Transporting box.
- Toilet box.
- Tool box.
- Toy-truck box.
- Vanity box.
- Window box.
- Box. M. M. Adler. Des. 71,818; Jan. 11.
- Box. A. H. Beyer. 1,639,793; Aug. 23.
- Box. H. B. Chalmers. 1,618,325; Feb. 22.
- Box. J. B. De Mesquita. 1,629,484; May 24.
- Box. H. Gebhart. 1,635,866; July 12.
- Box. W. R. Graham. 1,637,299; July 26.
- Box. G. W. Grant. 1,645,807; Oct. 18.
- Box. F. F. Hamilton. Des. 73,287; Aug. 23.
- Box. F. F. Hamilton. Des. 73,500; Sept. 20.

- Box. G. K. Henderson. 1,641,969; Sept. 13.
 Box. J. G. Huyse. 1,641,974; Sept. 13.
 Box. W. H. Joslin. 1,646,203; Oct. 18.
 Box. E. Kramer. Des. 72,952; June 28.
 Box. J. G. Lander. 1,644,782; Oct. 11.
 Box. J. N. Royal. Des. 74,122; Dec. 20.
 Box. F. J. Schleicher. Des. 72,967; June 28.
 Box. F. J. Schleicher. Des. 73,445; Sept. 13.
 Box. H. D. Senat. 1,624,439; Apr. 12.
 Box. M. Shaw. Des. 73,105; July 19.
 Box. C. M. Smith. 1,646,665; Oct. 25.
 Box. H. B. Smith. 1,650,052; Nov. 22.
 Box. F. A. Thurman. 1,625,920; Apr. 26.
 Box. H. B. Walter. 1,616,014; Feb. 1.
 Box. H. B. Walter. 1,621,225; Mar. 15.
 Box. H. B. Walter. 1,646,870; Oct. 25.
 Box and fish bowl, Flower. A. M. Kuhl. 1,641,496; Sept. 6.
 Box and lighting fixture, Mail. E. H. Loftin. 1,613,759; Jan. 11.
 Box and making same. H. Carle. 1,649,569; Nov. 15.
 Box and making the same. R. I. Rhodes. 1,645,403; Oct. 11.
 Box and pin coupling. R. A. Wilson. 1,645,032; Oct. 11.
 Box and spring saddle, Driving. W. O. Moody. 1,643,312; Sept. 27.
 Box and the like, Paper. S. Bergstein. 1,610,677-8; Feb. 8.
 Box and the like, Paper. S. Bergstein. 1,639,281; Aug. 16.
 Box and the like, Paper. S. Bergstein. 1,644,411; Oct. 4.
 Box and toy house, Combination candy. D. C. Faulkner. 1,650,117; May 24.
 Box body and cover assembling apparatus, Automatic. J. M. Mothersall. 1,620,025; Mar. 8.
 Box, cigarette, and like case. F. T. Buckthorpe and A. Barter. 1,624,858; Apr. 12.
 Box closer. J. E. Knopp. 1,625,033; Apr. 19.
 Box connector. F. T. Wheeler. 1,640,521; Aug. 30.
 Box construction. R. Boughner. 1,650,318; Nov. 22.
 Box cover, Adjustable and attachable. S. Bezzant and R. Bezzant. 1,622,128; Mar. 22.
 Box cover, Sheet-metal. V. Odquist. 1,613,268; Jan. 4.
 Box-covering machine. G. E. Gooding. 1,642,067; Sept. 13.
 Box-covering machine. G. E. Gooding. 1,649,523; Nov. 15.
 Box fastener. S. Debus. 1,621,630; Mar. 22.
 Box fastener, Sealing device for. F. Schäfer. 1,648,152; Nov. 8.
 Box-filling machine. J. C. Donnelly. 1,635,262; July 12.
 Box-filling machines, Delivery mechanism for. C. F. Wright. 1,621,301; Mar. 15.
 Box-fly-aping machines. H. Bridgman. 1,651,249; Nov. 29.
 Box for chicks, Shipping. R. A. Gorsuch. Re16,518; Jan. 4.
 Box for face powder and the like. P. C. P. Booty. 1,628,106; May 10.
 Box for golf clubs and the like, Paper. T. L. Neumann. 1,623,547; Apr. 5.
 Box for salve or cream. J. Lesquendieu. 1,643,815; Sept. 27.
 Box for salve or cream. J. Lesquendieu. 1,643,895; Sept. 27.
 Box for storing furs. B. Müller. 1,619,529; Mar. 1.
 Box guiding and conveying mechanism, Paper. A. W. Hilsinger. 1,623,310; Apr. 5.
 Box holder, Safety match-. J. Q. Taylor. 1,637,358; Aug. 2.
 Box-lid holder and advertising device. J. C. L. Clayton. 1,653,696; Dec. 27.
 Box lids, Attaching means for. R. W. Maneval. 1,648,357; Nov. 8.
 Box lids, Method of and apparatus for making. H. J. Goff. 1,627,894; May 10.
 Box-making machine. C. Burnham. 1,621,655; Mar. 22.
 Box-making machine. C. Burnham. 1,635,532; July 12.
 Box-making machine. O. A. Clark and G. P. Anderson. 1,614,522; Jan. 18.
 Box-making machine. W. S. Cleaves. 1,631,518; June 7.
 Box-making machine. C. H. Van Glahn. 1,642,913; Sept. 20.
 Box-making machine and the like. S. Bergstein. 1,639,283; Aug. 16.
 Box-making machine and the method of making boxes. L. Triolo. 1,627,874; May 10.
 Box-making machine, Automatic. G. D. Parker. 1,652,373; Dec. 13.
 Box-making machine, Pasteboard-. A. J. Evers. 1,651,877; Dec. 6.
 Box-making machines, Adhesive-applying mechanism for paper-. S. Bergstein. 1,647,072; Oct. 25.
 Box-making machines, Die for. F. G. Heyer and F. M. Smith. 1,620,725; Mar. 15.
 Box mechanism, Sectional. H. Wilhelm. 1,644,215; Oct. 4.
 Box opener. J. H. Richards. 1,637,916; Aug. 2.
 Box or carton. W. G. Booth. 1,626,324; Apr. 26.
 Box or case, Luncheon or picnic. W. F. May. 1,642,374; Sept. 13.
 Box or crate. A. L. Foreman. 1,621,363; Mar. 15.
 Box or crate, Shipping. J. H. and E. J. Hieb. 1,640,080; Aug. 23.
 Box or similar container. R. T. Brewster. Des. 72,759; May 31.
 Box or similar container. P. C. Delaize. Des. 72,408-9; Apr. 12.
 Box or similar container. P. C. Delaize. Des. 72,670; May 17.
 Box or similar container. A. T. Gollnik. Des. 72,207; Mar. 15.
 Box or similar container. H. Noonan. Des. 73,940; Nov. 22.
 Box or similar container. J. N. Royal. Des. 72,870; June 14.
 Box or similar container for toilet preparations. H. H. Raynor. Des. 72,330; Mar. 29.
 Box or similar receptacle for candy. E. J. Daigle. Des. 73,899; Nov. 22.
 Box or the like, Candy. F. A. Purchas. Des. 71,887; Jan. 8.
 Box-sealing machine and the like. S. Bergstein. 1,639,282; Aug. 16.
 Box-securing means. A. L. Roebuck. 1,650,741; Nov. 29.
 Box-securing means. Journal-. P. J. McCullough. 1,622,599; Mar. 29.
 Box straps, Sealing device for. S. W. Parsons. 1,649,363; Nov. 15.
 Box support, Outlet-. H. Ginsburg. 1,639,496; Aug. 16.
 Box toe. C. E. Swett. 1,623,073; Apr. 5.
 Box toes, Making. E. I. La Chapelle. 1,619,350; Mar. 1.
 Box wrappers, Assembling, taping, and applying composite. J. S. Stokes. 1,625,577; Apr. 19.
 Box-wrapping system. J. R. Sonneborn. 1,646,563; Oct. 25.
 Box-wrapping system. J. S. Stokes. 1,647,481; Nov. 1.
 Boxing apparatus. E. E. Foster. 1,620,598; Mar. 8.
 Boxing machine. W. Noble. 1,627,449; May 3.
 Boxes and box blanks, Producing. H. B. Smith. 1,627,811-12; May 10.
 Boxes and other hollow metal articles, Machine for casting. J. A. Fullilove. 1,633,088; June 21.
 Boxes and the like, Cover for. H. Sebell. 1,652,331; Dec. 13.
 Boxes and the like, Making paper. S. Bergstein and A. C. E. Lindner. 1,640,658; Aug. 30.
 Boxes and the like, Manufacture of cigar. A. A. Adamson. 1,633,719; Aug. 9.
 Boxes and the like, Sealing. S. Bergstein. 1,647,073; Oct. 25.
 Boxes, Apparatus for molding battery. T. R. Palmer. 1,620,388; Mar. 8.
 Boxes, Appliances for making set-up. E. W. Labombarde. 1,631,492; June 7.
 Boxes, bottles, and like containers, Machine for taping or sealing. E. Berry. 1,645,734; Oct. 18.
 Boxes, Hanger bar for outlet. V. T. Jennings. 1,615,329; Jan. 25.
 Boxes, Holding frame for supporting honey. W. A. Shook. 1,638,064; Aug. 9.
 Boxes, Machine and method for making paper. S. Bergstein and A. C. E. Lindner. 1,624,885; Apr. 12.
 Boxes, Machine for forming blanks for corrugated paper. J. F. Jones. 1,619,207; Mar. 1.
 Boxes, Machine for making set-up. H. J. Goss. 1,651,200; Nov. 29.
 Boxes, Machine for making wire-bound. J. Shellenberger. 1,639,674; Aug. 23.
 Boxes, Machine for use in making. R. Steele. 1,634,049; June 28.
 Boxes, Manufacturing seamless wrought-iron annealing. T. Lamine. 1,623,059; Apr. 5.
 Boxes, Mechanism and method for strip covering. H. B. Smith. 1,651,233; Nov. 29.
 Boxes or shipping cases from multiply veneered panels. Producing. H. V. Pointer. 1,644,203; Oct. 4.
 Boxes, Securing device for. J. A. Seguin. 1,647,938; Nov. 1.
 Boxes, tables, and the like, Construction for the assembling of box-like structures, such for example as. G. P. Washburn. 1,628,938; May 17.
 Boxes, Temporary fastening means for outlet. J. C. Boyton. 1,653,251; Dec. 20.
 Boxes, and the like, Closure for. M. A. E. Schulze. 1,644,091; Oct. 4.
 Brace-See-
 Ankle brace. Furniture brace.
 Bed brace. Knee brace.
 Bed-spring brace. Motor brace.
 Chair brace. Radius-rod brace.
 Cross brace. Rail brace.
 Door brace. Railway-rail brace.
 Engine brace. Spinal brace.
 Fender brace. Tool brace.
 Brace. A. J. Feaster. 1,641,027; Aug. 30.
 Brace. S. H. Hill. 1,653,767; Dec. 27.
 Brace and drill, Combination. C. W. Beamer. 1,625,517; Apr. 19.
 Brace and gauge, Track. V. O. Sampson. 1,637,919; Aug. 2.
 Brace for shipping vehicles in freight cars. V. P. Rume-ly. 1,651,351; Nov. 29.
 Brace plate. M. Taylor. 1,624,289; Apr. 12.
 Bracelet. E. A. Coombs. 1,622,769-70; Mar. 29.
 Bracelet. A. Eklund. 1,633,575; June 28.
 Bracelet. E. Geobardt. 1,649,108; Nov. 15.
 Bracelet. P. W. Jones. 1,636,639; July 19.
 Bracelet. P. W. Jones. 1,641,763; Sept. 6.
 Bracelet. R. King. 1,617,289-90; Feb. 8.

- Bracelet. O. Klink. Des. 72,369; Apr. 5.
 Bracelet. I. Kraysers. 1,626,139; Apr. 26.
 Bracelet. W. Lichtenfels. 1,630,955; May 31.
 Bracelet and the like, flexible and expandible. A. L. Newman. 1,645,394; Oct. 11.
 Bracelet construction. A. Person. 1,644,487; Oct. 4.
 Bracelet end hook. S. O. Myrberg. 1,654,344; Dec. 27.
 Bracelet, Expanding. F. and E. Jones. 1,621,205; Mar. 15.
 Bracelet, Expandible. F. W. Nittel. 1,630,236; May 24.
 Bracelet fastener. K. A. Schaefer. 1,636,869; July 26.
 Bracelet, Flexible wrist-watch. L. S. Chilson. 1,616,215; Feb. 1.
 Bracelet holder. B. M. Beskow. 1,614,864; Jan. 18.
 Bracelet hook. S. O. Bigne. 1,619,014; Mar. 1.
 Bracelet hook. A. F. Kraemer. 1,621,325; Mar. 15.
 Bracelet hook. N. T. Nelson. 1,653,058; Dec. 20.
 Bracelet hook. E. Prestinari. 1,624,561; Apr. 12.
 Bracelet hook. L. E. Valcourt. 1,625,063; Apr. 19.
 Bracelet, Link. C. H. Batchelder. 1,641,797; Sept. 6.
 Bracelet link. P. J. Callowhill. Des. 73,122; July 26.
 Bracelet link. G. Eklund. Des. 71,866; Jan. 18.
 Bracelet, Removable wrist-watch. A. Schwalberg. 1,626,160; Apr. 26.
 Bracelet, Watch. M. H. Sablin. Des. 72,496; Apr. 19.
 Bracelet, Wrist-watch. A. Hadley. 1,647,108; Oct. 25.
 Bracelets, Extension device for. L. S. Chilson. 1,641,372; Sept. 6.
 Bracelets, Extension device for flexible. C. H. Patten. 1,636,646; July 19.
 Bracelets, necklaces, and other articles of jewelry, Fastening for. A. Downes. 1,628,494; May 10.
 Bracelets, Unadorned hook element for watch. F. Speldel. 1,622,062; Mar. 22.
 Bracing block. E. A. Herrick and T. L. MacBean. 1,632,072; June 14.
 Bracing jack, Load. E. S. Ryerson. 1,613,057; Jan. 4.
 Bracket; See—
 Adjustable bracket. Post bracket.
 Antiproof shelf bracket. Roller-shade bracket.
 Automobile bracket. Roofing bracket.
 Awning bracket. Roof-gutter bracket.
 Bumper bracket. Safety bracket.
 Car bracket. Scaffold bracket.
 Corner bracket. Shade and curtain bracket.
 Curtain and shade bracket. Shade bracket.
 Curtain bracket. Shade-roller bracket.
 Curtain-rod bracket. Spring bracket.
 Display bracket. Steering-wheel bracket.
 Elevating and supporting bracket. Supporting bracket.
 Flare bracket. Switch bracket.
 Hook bracket. Switch-clamp bracket.
 Hydraulic bracket. Tube-frame bracket.
 Lamp bracket. Valve bracket.
 Mirror bracket. V-section bandless brake.
 Motor bracket. Window bracket.
 Window-shade bracket.
 Bracket, J. Alsasser. 1,642,352; Sept. 13.
 Bracket. J. O. Henry. 1,647,406; Nov. 1.
 Bracket. F. F. Somers. 1,651,297; Nov. 29.
 Bracket. J. A. Teak. 1,634,162; June 28.
 Bracket arms, Insulating washer for brush-holder. R. H. Newton. 1,632,096; June 14.
 Bracket back. L. A. Crumley. Des. 72,668; May 17.
 Bracket hanger. W. B. Dwyer. 1,627,494; May 3.
 Bracket, Lantern. R. S. Bardwell. Des. 73,817; Nov. 15.
 Brackets, Blank for bracing. J. F. Southgate. 1,644,899; Oct. 11.
 Brad. A. C. Strandberg. 1,634,632; July 5.
 Braid-making machine, Reed. M. B. Lloyd. 1,633,261; June 21.
 Braid-spreading machine. L. Brandt. 1,615,162; Jan. 18.
 Braider. M. Postlewait. 1,653,309; Dec. 20.
 Braiding and like machines, Stop-mechanism for motion. C. A. Dame. 1,617,795; Feb. 15.
 Braiding attachment. N. A. Rankin. 1,616,637; Feb. 8.
 Braiding carrier. A. C. Hopkins. 1,631,634; June 7.
 Braiding carrier. H. Janssen. 1,630,266; May 31.
 Braiding carrier. H. Janssen. 1,651,527; Dec. 6.
 Braiding carrier. A. Petersen. 1,638,455; Aug. 9.
 Braiding elastic fabrics, Machine for. J. M. C. Branco. 1,631,082; May 31.
 Braiding machine. A. C. Hopkins. 1,636,659-60; July 19.
 Braiding machine. E. Klein and M. E. Penso. 1,615,587; Jan. 25.
 Braiding machine. E. Krenzler. 1,632,008; June 14.
 Braiding machine. D. MacGibbon. 1,618,458; Feb. 22.
 Braiding machine. R. E. McFarland. 1,642,785; Sept. 20.
 Braiding machine. C. Tober. 1,635,235; July 12.
 Braiding-machine carrier. S. B. Blaisdell. 1,614,099; Jan. 11.
 Braiding machine, Carrier for. F. Mossberg. 1,633,346; June 21.
 Braiding machinery, Attachment for. R. B. Kalbach. 1,649,476; Nov. 15.
 Braiding machines, Bobbin for. C. P. Berolzheimer. 1,634,607; July 5.
 Braiding machines, Carrier for. F. Mossberg. 1,630,669; May 31.
 Braiding, Method of and apparatus for. G. A. Seeley. 1,639,673; Aug. 23.
 Braiding reinforced cords, Method and apparatus for. S. A. Beyland and E. P. Reynolds. 1,617,983; Feb. 15.
 Braiding reinforced cords, Method and apparatus for. J. D. Williams. 1,618,033; Feb. 15.
 Brake; See—
 Air brake. Front-wheel brake.
 Air-pressure brake. Ground brake.
 Automobile brake. Hydraulic brake.
 Automobile wheel brake. Load brake.
 Automotive brake. Motor brake.
 Back-pedaling brake. Neutral brake.
 Cable brake. Oil brake.
 Car brake. Oil friction brake.
 Chock brake. Power brake.
 Coaster brake. Press brake.
 Coaster wagon brake. Push-sled brake.
 Compound brake. Railway brake.
 Derailment brake. Recoil brake.
 Disk brake. Roller brake.
 Electric brake. Serve-expanded brake.
 Electric hydraulic brake. Shoe brake.
 Electric pneumatic brake. Sled-pat.
 Electrical brake. Stay-pat parking brake.
 Electrically-released brake. Steering-gear brake.
 Electromagnetic brake. Steering-wheel brake.
 Electropneumatic brake. Track brake.
 Emergency brake. Tractor brake.
 Fluid brake. Transmission brake.
 Fluid-operated brake. Truck brake.
 Fluid-pressure brake. Vehicle brake.
 Four-wheel brake. Velocipede brake.
 Friction brake. Wheel brake.
 Brake. W. S. Adams. 1,635,021; July 5.
 Brake. J. N. Anderson. 1,640,972; Aug. 30.
 Brake. M. F. Anderson and T. F. Clark. 1,625,584; Apr. 19.
 Brake. W. J. Andres. 1,640,589; Aug. 30.
 Brake. P. Bastien. 1,620,752; Mar. 15.
 Brake. P. Bastien. 1,635,571-2; July 12.
 Brake. R. H. Beebe. 1,623,380; Apr. 5.
 Brake. V. Bendix. 1,650,257; Nov. 22.
 Brake. P. B. Camp. 1,618,810; Feb. 22.
 Brake. O. B. Clark. 1,628,950; May 17.
 Brake. T. Crane. 1,637,894; Aug. 2.
 Brake. S. Dee. 1,653,948; Dec. 27.
 Brake. J. W. Dodd. 1,652,400; Dec. 13.
 Brake. A. Y. Dodge. 1,630,059; May 24.
 Brake. A. Y. Dodge. 1,643,548; Sept. 27.
 Brake. A. Y. Dodge. 1,647,397; Nov. 1.
 Brake. A. Y. Dodge and E. G. McDonald. 1,642,844; Aug. 30.
 Brake. G. R. Fuller. 1,640,186; Aug. 23.
 Brake. H. C. Heaton. 1,640,545; Aug. 30.
 Brake. W. A. Hupprich. 1,629,272; May 17.
 Brake. J. W. Jepson. 1,623,733; Apr. 5.
 Brake. W. L. Krieg. 1,635,937; Aug. 5.
 Brake. L. E. La Brie. 1,630,061; May 24.
 Brake. L. E. La Brie. 1,634,367-8; July 5.
 Brake. L. E. La Brie. 1,636,004; July 19.
 Brake. L. E. La Brie. 1,641,443; Sept. 6.
 Brake. L. E. La Brie. 1,648,552; Nov. 8.
 Brake. L. E. La Brie. 1,651,608; Dec. 6.
 Brake. B. G. Letfere. 1,618,986; Feb. 8.
 Brake. E. C. Le Munyon and H. N. Moore. 1,631,540; June 7.
 Brake. V. Link. 1,619,282; Mar. 1.
 Brake. V. Link. 1,619,579; Mar. 1.
 Brake. V. Link. 1,638,588; Aug. 16.
 Brake. M. W. McConkey. 1,630,060; May 24.
 Brake. M. W. McConkey. 1,639,142; Aug. 18.
 Brake. M. W. McConkey. 1,646,035; Oct. 18.
 Brake. M. W. McConkey. 1,651,142; Nov. 29.
 Brake. W. D. Nickum. 1,640,367; Aug. 30.
 Brake. B. G. Parsons. 1,622,465; Mar. 29.
 Brake. J. L. Price. 1,648,362; Nov. 8.
 Brake. L. W. Richards. 1,619,039; Mar. 1.
 Brake. R. S. Sanford. 1,620,921; Mar. 15.
 Brake. H. B. Shields. 1,633,138; June 21.
 Brake. E. Slade. 1,622,681; Mar. 29.
 Brake. E. G. Sprung. 1,629,746; May 24.
 Brake. N. P. Swartz. 1,623,517; Apr. 5.
 Brake. W. H. Tape. 1,645,975; Oct. 18.
 Brake. G. J. Thomas. 1,635,100; July 5.
 Brake. G. Walker. 1,641,912; Sept. 6.
 Brake. F. Wilkinson and W. Lehman. 1,646,718; Oct. 25.
 Brake. M. F. Wrenn. 1,614,976; Jan. 18.
 Brake. J. Zubaty. 1,633,904; Aug. 16.
 Brake. J. Zubaty. 1,648,290; Nov. 8.
 Brake accelerator for single-chamber compressed-air brakes. W. Hildebrand. 1,631,815; June 7.
 Brake-actuating device. G. C. Goode. 1,628,967; May 17.
 Brake-actuating mechanisms, Adjusting device for. G. W. Cook. 1,646,012; Oct. 18.
 Brake-adjuster, Automobile. R. C. Humphrey. 1,635,417; July 12.
 Brake-adjusting device. M. La Londe. 1,639,379; Aug. 16.
 Brake and jack, Automobile. C. Simmons. 1,625,226; Apr. 19.
 Brake-applying apparatus. C. S. Bushnell. 1,628,454; May 10.
 Brake-applying apparatus. C. S. Bushnell. 1,649,444; Nov. 15.
 Brake-applying apparatus. S. W. Dudley and C. S. Bushnell. 1,628,312; May 10.

- Brake-applying connection. A. Y. Dodge. 1,651,195; Nov. 29.
- Brake-applying device. W. A. Reeves and G. P. Nicolopoulos. 1,614,538; Jan. 18.
- Brake-applying means. V. Bendix. 1,650,816; Nov. 29.
- Brake-applying means. L. E. La Brie. 1,639,095; Aug. 16.
- Brake-applying mechanism. Throttle-control apparatus. C. S. Bragg and V. W. Kilesrath. 1,633,360; June 21.
- Brake attachment. M. K. Jackson and E. D. Hackett. 1,614,367; Jan. 11.
- Brake band and lining. C. A. Geatty. 1,647,221; Nov. 1.
- Brake band and shoes. Lining for. J. G. Bowman. 1,624,085; Apr. 12.
- Brake-band-adjusting device. J. A. Dommer. 1,621,004; Mar. 15.
- Brake-band-adjusting device, Automatic. E. D. Worden. 1,613,778; Jan. 11.
- Brake-band coupling. E. F. Benoit. 1,644,629; Oct. 4.
- Brake-band lining. A. H. Sweet. 1,615,490; Jan. 25.
- Brake-band lining-securing means. E. Trist. 1,616,578; Mar. 29.
- Brake beam. C. F. Hunton. 1,634,995; July 5.
- Brake beam and constructing same. A. P. Rissler. 1,624,509; Apr. 12.
- Brake-beam fulcrum, Reversible. J. Blakeslee. 1,647,601; July 1.
- Brake-beam fulcrums, Making. L. L. Whitney. 1,649,880; Nov. 22.
- Brake-beam guide. H. W. Ekholm. 1,632,061; June 14.
- Brake-beam safety bars, Mount for. T. L. Burton. 1,641,621; Sept. 6.
- Brake-beam safety hanger. J. H. Gimpel. 1,634,902; July 5.
- Brake-beam safety support. A. H. Oelkers. 1,652,633; Dec. 13.
- Brake-beam support. C. Harter. 1,650,792; Nov. 29.
- Brake-beam support. A. C. Moore. 1,642,080; Sept. 13.
- Brake-beam support. F. G. Wolff. 1,649,434; Nov. 15.
- Brake-beam supporting means. A. W. Hawkins. 1,611,850; Oct. 30.
- Brake beams, Adjustable eccentric chair for. W. Janus. 1,622,516; Mar. 29.
- Brake beams and assembling same. Auxiliary support and guard for. E. G. Busse. 1,644,871; Oct. 11.
- Brake beams, Reversible strut for. T. E. Rodman. 1,640,854; Aug. 30.
- Brake beams, Safety hanger for. L. E. Harris. 1,618,706; Feb. 22.
- Brake beams, Safety support for. H. W. Ridgway. 1,653,417; Dec. 20.
- Brake-chain-operating means. M. L. Howell. 1,637,151; July 26.
- Brake control. M. W. McConkey. 1,632,140; June 14.
- Brake control, Automatic. R. L. Milton. 1,646,306; Oct. 18.
- Brake-control-actuating mechanism. A. Y. Dodge. 1,637,520; Aug. 2.
- Brake-control apparatus, Automatic. F. D. Sprague. 1,626,586; Apr. 23.
- Brake-control-lubricating means. A. Y. Dodge. 1,636,903; July 26.
- Brake control, Rear air-. J. Juliano. 1,619,132; Mar. 1.
- Brake-cylinder device. C. C. Farmer. 1,644,570; Oct. 4.
- Brake device. H. W. Jonkhoff. 1,625,727; Apr. 19.
- Brake device, Automatic. C. F. Cass and J. F. Craig. 1,619,239; Mar. 1.
- Brake device, Motor-vehicle. S. G. Down. 1,626,670; May 3.
- Brake dressing. I. C. Barrows. 1,645,682; Oct. 18.
- Brake-dressing compound and making same. G. W. Nash. 1,639,611; Aug. 16.
- Brake drum and lining. A. Lonson. 1,639,519; Aug. 16.
- Brake-drum construction. P. Yungling. 1,617,781; Feb. 15.
- Brake drum oil guard. A. Y. Dodge. 1,624,220; Apr. 12.
- Brake drums, Manufacture of. J. L. Price. 1,628,804; May 17.
- Brake dynamometer. Absorption. G. H. Walker. 1,627,586; May 10.
- Brake dynamometer, Hydraulic. S. S. Ekman. 1,641,069; July 12.
- Brake engine. R. Moore. 1,613,474; Jan. 4.
- Brake equalizer. W. J. Laurine. 1,634,671; July 5.
- Brake-equalizing mechanism. A. F. Anderson. 1,629,647; May 24.
- Brake-equalizing mechanism. P. D. Barrett. 1,619,912; Mar. 8.
- Brake equipment, Load. J. Gullemin-Tarayre. 1,644,550; Oct. 4.
- Brake for automobiles. H. W. Alden. 1,647,119; Nov. 1.
- Brake for railway trains. E. A. Moutier. 1,640,092; Aug. 30.
- Brake gauge. E. L. Macabee and F. E. Macabee. 1,624,142; Apr. 12.
- Brake hanger. W. S. Adams. 1,640,228; Aug. 30.
- Brake hanger. J. W. Bettendorf. 1,640,590; Aug. 30.
- Brake hanger, Closed-link. F. Schaefer. 1,646,879; Oct. 25.
- Brake-head support. A. and C. Christianson. 1,639,256; Aug. 16.
- Brake-lever connection. T. N. Russell. 1,647,252; Nov. 1.
- Brake-lever releasing device. O. Miller. 1,622,530; Mar. 29.
- Brake lining. J. Y. Case. 1,615,165; Jan. 18.
- Brake lock. W. G. Bowser and C. A. Smith. 1,623,882; Apr. 5.
- Brake lock. F. L. Collins. 1,643,334; Sept. 27.
- Brake mechanism. W. J. Andres. 1,625,444; Apr. 19.
- Brake mechanism. H. E. Bartsch. 1,623,227; Apr. 5.
- Brake mechanism. V. Bendix. 1,619,806; Mar. 8.
- Brake mechanism. K. Berger. 1,633,919; June 28.
- Brake mechanism. L. C. Blasdel. 1,652,232; Dec. 13.
- Brake mechanism. A. P. Brush. 1,652,757; Dec. 13.
- Brake mechanism. P. B. Camp. 1,624,944; Apr. 19.
- Brake mechanism. C. Froesch. 1,614,835; Jan. 18.
- Brake mechanism. J. Greenberg and D. Dworkin. 1,637,300; July 26.
- Brake mechanism. G. Haag. 1,632,961; June 21.
- Brake mechanism. J. C. Harrington. 1,630,178; May 24.
- Brake mechanism. A. F. Kising. 1,621,843; Mar. 22.
- Brake mechanism. B. Le Luomier. 1,642,784; Sept. 20.
- Brake mechanism. H. V. McCormick. 1,637,025; July 26.
- Brake mechanism. F. W. Piché. 1,625,150; Apr. 19.
- Brake mechanism. F. W. Piché. 1,635,727; July 12.
- Brake mechanism. W. G. Powell. 1,654,270; Dec. 27.
- Brake mechanism. E. Riedinger. 1,619,542; Mar. 1.
- Brake mechanism. E. R. Schroeder. 1,616,599; Feb. 8.
- Brake mechanism. H. A. Tuttle. 1,616,241; Feb. 1.
- Brake mechanism. H. A. Tuttle. 1,646,124; Oct. 18.
- Brake mechanism. W. W. Tuttle and E. Hirvonen. 1,647,975; Nov. 1.
- Brake mechanism. J. Wilson. 1,623,295; Apr. 5.
- Brake mechanism and control means therefor, Track. G. Hannauer and E. M. Wilcox. 1,638,631; Aug. 9.
- Brake mechanism and the like. J. A. Miller. 1,636,145; July 19.
- Brake mechanism, Automatic. A. A. Allen. 1,640,916; Aug. 30.
- Brake mechanism, Automatic train. O. Boerner. 1,653,615; Dec. 27.
- Brake mechanism, Drop. A. F. O'Connor. 1,618,218; Feb. 22.
- Brake mechanism, Emergency. C. Reber. 1,621,431; Mar. 15.
- Brake mechanism for motor shafts, Fluid. J. R. Bingham. 1,621,653; Mar. 22.
- Brake mechanism, Front-wheel-drive. C. S. Allen. 1,638,007; Aug. 9.
- Brake mechanism, Hydraulic. F. Krusch. 1,635,331; July 12.
- Brake mechanism, Hydraulic. F. J. MacKenzie. 1,620,115; Mar. 8.
- Brake mechanism, Hydraulic. R. E. McCleary. 1,630,711; May 31.
- Brake mechanism, Load-adjusted. C. O. Anderson. 1,627,305; May 3.
- Brake mechanism, Railway. J. S. Ball. 1,620,508; Mar. 8.
- Brake mechanism, Slack adjuster for. W. S. Adams. 1,625,695; Apr. 19.
- Brake of the expanding-shoe type. G. Fornaca. 1,633,984; June 28.
- Brake-operated circuit closer. H. W. West. 1,629,897; May 22.
- Brake-operating apparatus. A. F. Kising. 1,621,842; Mar. 22.
- Brake-operating connection. W. J. Andres. 1,645,846; Oct. 18.
- Brake-operating means. G. E. Collins. 1,636,852; July 19.
- Brake-operating means. G. F. Michael. 1,636,526; July 19.
- Brake-operating means. E. A. Nelson. 1,623,262; Apr. 5.
- Brake-operating means. W. W. White. 1,642,056; Sept. 13.
- Brake-operating mechanism. W. J. Andres. 1,634,250; July 5.
- Brake-operating mechanism. W. J. Andres. 1,645,357; Dec. 27.
- Brake-operating mechanism. P. Bastien. 1,639,071; Aug. 16.
- Brake-operating mechanism. A. Y. Dodge. 1,613,024; Jan. 4.
- Brake-operating mechanism. A. Y. Dodge. 1,636,554; July 19.
- Brake-operating mechanism. H. L. Hirschler. 1,644,378; Oct. 4.
- Brake-operating mechanism. E. G. McDonald. 1,644,480; Oct. 4.
- Brake-operating mechanism. J. S. Payne. 1,628,000; May 10.
- Brake-operating mechanism. J. C. Smith. 1,615,526; Jan. 25.
- Brake or clutch. C. D. Schmidt. 1,623,706; Apr. 5.
- Brake rod head. W. W. Blakely and C. A. Goodspeed. 1,630,519; May 31.
- Brake-rod pins, Safety lock for. G. T. Cooke. 1,628,119; May 10.
- Brake-setting device, Emergency. H. M. Eakin. 1,635,825; July 12.
- Brake shafts, Supporting means for drop. W. R. Hall. 1,625,206; Apr. 19.
- Brake shoe. V. Bendix. 1,653,691; Dec. 27.
- Brake shoe. V. Bendix and L. E. La Brie. 1,632,782; June 21.
- Brake shoe. J. R. Cautley. 1,628,388; Aug. 10.
- Brake shoe. J. R. Cautley. 1,630,838; Aug. 23.
- Brake shoe. O. B. Clark. 1,623,951; May 17.

- Brake shoe. O. B. Clark. 1,652,763; Dec. 13.
 Brake shoe. C. Cobb, jr. 1,638,759; Aug. 9.
 Brake shoe. A. Y. Dodge. 1,614,460; Jan. 18.
 Brake shoe. A. Y. Dodge. 1,628,957; May 17.
 Brake shoe. A. Y. Dodge. 1,634,369; July 5.
 Brake shoe. A. Y. Dodge. 1,638,326; Aug. 9.
 Brake shoe. A. Y. Dodge. 1,644,598; Oct. 27.
 Brake shoe. A. W. Field. 1,647,218; Nov. 1.
 Brake shoe. W. L. Krieg. 1,620,030; Mar. 8.
 Brake shoe. L. E. La Brie. 1,616,583; Feb. 8.
 Brake shoe. L. E. La Brie. 1,621,794; Mar. 22.
 Brake shoe. L. E. La Brie. 1,636,003; July 19.
 Brake shoe. L. E. La Brie. 1,652,485; Dec. 13.
 Brake shoe. J. H. Madison. 1,644,598; Oct. 27.
 Brake shoe. B. G. McDonald. 1,652,035; Dec. 6.
 Brake shoe. A. Nelson. 1,648,696; Nov. 8.
 Brake shoe. C. D. Pettis. 1,650,296-7; Nov. 22.
 Brake shoe. J. W. Peterson. 1,647,661; Nov. 1.
 Brake shoe. F. D. Reynolds. 1,642,558; Sept. 13.
 Brake-shoe-key holder. L. H. Sanford. 1,619,767; Mar. 1.
 Brake shoe, Pivoted. A. Y. Dodge. 1,634,370; July 5.
 Brake shoe, Pressed. A. Y. Dodge. 1,622,133; Mar. 24.
 Brake shoe, Reinforced. V. Bendix. 1,629,471; May 24.
 Brake shoes, Making. M. R. De France. 1,615,573; Jan. 25.
 Brake shoes, Manufacturing. S. Whitworth. 1,629,427; May 17.
 Brake-shaft mechanism. Drop. W. W. Lindblom. 1,618,098; Feb. 15.
 Brake structure. A. and C. Christianson. 1,643,837; Sept. 27.
 Brake supporting and operating mechanism. A. S. Kishel. 1,636,221; July 19.
 Brake system. R. S. Sanford. 1,652,290; Dec. 13.
 Brake systems connecting a plurality of engines, Non-return check valve for. C. R. Whitacre. 1,625,837; Apr. 26.
 Brake tester. F. Dowello. 1,639,884; Aug. 23.
 Brake-testing device. W. L. Fry. 1,619,714; Mar. 1.
 Brake-testing device, Auto. F. B. McKinney. 1,654,136; Dec. 27.
 Brake-testing instrument. C. F. Cowdrey. 1,624,219; Apr. 12.
 Brake-testing machine. H. W. Langbein. 1,612,928; Jan. 4.
 Brake-valve device. L. A. Fowler. 1,626,607; May 3.
 Brake-winding mechanism. L. G. Nilson. 1,654,089; Dec. 27.
 Brakes, Anchoring device for. H. D. Church. 1,638,323; Aug. 9.
 Brakes and clutches, Manufacture of friction bodies for. E. Katzwinkel. 1,614,200; Jan. 11.
 Brakes, Attachment for emergency hand. A. Jackson. 1,616,260; Feb. 1.
 Brakes, Bleeder attachment for. L. W. Heffelfinger and L. J. Courtney. 1,619,821; Mar. 8.
 Brakes, Control mechanism for. G. Hannauer and E. M. Wilcox. 1,638,630; Aug. 9.
 Brakes, Drop shaft for hand. S. J. Strid. 1,620,141; Mar. 8.
 Brakes, Equalizer for four-wheel. F. L. Nelson and J. A. Harmon. 1,620,221; Mar. 8.
 Brakes, Forming band. M. Stringer. 1,619,549; Mar. 1.
 Brakes, Liquid control means for hydraulic. L. L. Reckler. 1,626,968; May 8.
 Brakes, Liquid saving, replenishing, and air-bleeding mechanism for hydraulic. G. S. Merwin. 1,617,020; Feb. 8.
 Brakes, Locking hand-operated. A. Saget. 1,631,066; May 31.
 Braking and steering mechanism. A. Y. Dodge. 1,642,063; Sept. 13.
 Braking apparatus. M. Longhead. Re16,761; Oct. 4.
 Braking apparatus, Railway. J. P. Coleman. 1,644,771; Oct. 11.
 Braking apparatus, Railway-train-. L. V. Lewis. 1,647,834; Nov. 1.
 Braking control, Regenerative. P. W. Forsberg. 1,617,151; Feb. 8.
 Braking device. E. G. Gartin. 1,650,013; Nov. 22.
 Braking mechanism. E. C. Gartin. 1,631,369; June 7.
 Braking mechanism. A. H. G. Girling. 1,619,718; Mar. 1.
 Braking mechanism, Mine-car. J. A. Hebb. 1,644,474; Oct. 4.
 Braking mechanism, more particularly for motor vehicles. G. R. Hoffman. 1,627,508-10; May 3.
 Braking system. W. S. H. Hamilton. 1,621,403; Mar. 15.
 Braking system, Vehicle-. F. Hunyadi. 1,647,294; Nov. 1.
 Branch connector. R. Eckstein. 1,622,708; Mar. 29.
 Branches, Adjustable support for. C. Mylaeus. 1,613,716; Jan. 11.
 Branding. D. E. Hennessy. 1,621,587; Mar. 22.
 Branding device. M. Davis. 1,652,891; Dec. 13.
 Branding machine. P. Hayes. 1,639,291; Aug. 16.
 Brassiere. M. C. Baatz. 1,618,043; Feb. 15.
 Brassiere. K. E. Cunningham. 1,640,823; Aug. 30.
 Brassiere. W. Rosenthal. 1,648,464; Nov. 8.
 Brassiere. H. F. Volk. 1,637,840; Aug. 2.
 Brassiere anchor. C. Baillie. 1,622,269; Mar. 29.
 Brassiere and dress shield, Combined. V. Gulnzburg. 1,632,547; June 14.
 Brassiere, Corset. C. H. Fleck. 1,644,117; Oct. 4.
 Brassiere for formal wear. W. Rosenthal. 1,649,736; Nov. 15.
 Brassiere, Girdle. S. E. B. Shepard. 1,647,023; Oct. 25.
 Brassiere, Nursing. J. M. Haberkamp. 1,632,894; June 21.
 Bread, Making. C. B. Hill and G. L. Tintner. 1,643,011-12; Sept. 20.
 Bread, Manufacture of. H. A. Kohman. 1,651,717-18; Dec. 6.
 Bread, Manufacture of. H. A. Kohman. 1,652,828; Dec. 13.
 Bread or the like, Machine for making buttered slices of. W. Steinkeller. 1,615,920; Feb. 1.
 Bread rack. J. D. Spaulding and B. Bouda. 1,638,173; Aug. 9.
 Bread-slicing machine. J. J. Krakora. 1,617,058; Feb. 8.
 Breakable articles, Packaging. J. H. Coughlin. 1,629,995; May 24.
 Breaker and stopper extractor. E. Vallens. 1,615,150; Jan. 18.
 Breaker-arm gauge. A. S. Adler. 1,615,297; Jan. 25.
 Breaker, arms, Making. J. C. Baker. 1,625,697; Apr. 19.
 Breaker, Automatic safety. L. A. Brown. 1,627,828; May 10.
 Breaking-in machine. H. L. Ashby. 1,651,310; Nov. 29.
 Breaking roller. C. H. Ramsey. 1,627,339; May 3.
 Breast drill. T. J. Pegley and G. O. Leopold. 1,633,400; June 21.
 Breast pump. E. Lasker. 1,644,257; Oct. 4.
 Breathing and vocal attachment. E. I. McKesson. 1,633,705; June 28.
 Breathing apparatus. R. von der Heide. 1,645,312; Oct. 11.
 Breathing apparatus. G. S. McCaa. 1,625,419; Apr. 19.
 Breathing apparatus. G. S. McCaa. 1,628,254; May 10.
 Breathing apparatus, Protective cover for. A. B. Dräger. 1,635,645; July 12.
 Breathing atmosphere and treatment of persons exposed to abnormal pressures, Artificial. W. P. Yant, R. R. Sayers, and J. H. Hildebrand. 1,643,363; Oct. 4.
 Brick mechanism. P. D. Van Esser. 1,626,651; May 3.
 Brick and making it, Unburned refractory. A. Marks. 1,616,192; Feb. 1.
 Brick, Apparatus for producing. L. L. and G. W. Denison. 1,618,582; Feb. 22.
 Brick, Baking. J. D. McLaughlin. 1,631,144; June 7.
 Brick, Baking. C. E. Fuller. 1,651,814; Dec. 6.
 Brick, Clamper. G. E. Luce. 1,652,030; Dec. 6.
 Brick-cleaning machine. J. A. Grant and G. A. Lowry. 1,647,991; Nov. 8.
 Brick die. J. C. Martin, jr. 1,630,066; May 24.
 Brick-forming mechanism. D. P. Ogden. 1,613,567; Jan. 4.
 Brick, handling and cleaning machine. J. A. Grant and G. A. Lowry. 1,622,869; Mar. 29.
 Brick, Insertible fra. T. E. McCaig. 1,623,632; Apr. 5.
 Brick into box cars, Apparatus for loading. W. W. Wallace. 1,645,363; Oct. 11.
 Brick-kiln construction. W. W. Dickinson, jr. 1,627,598; May 10.
 Bricklayer's gauge. L. J. Jardot. 1,641,854; Sept. 6.
 Bricklayer's guide. Q. Angellilli. 1,643,915; Sept. 27.
 Bricklaying, Corner guide for. W. Winter. 1,644,456; Oct. 4.
 Brick machine. H. R. McCune. 1,626,619; May 3.
 Brick-making machine. R. P. M. Davis. 1,631,251; June 7.
 Brick-making machinery. A. O. Dupuy. 1,627,079; May 3.
 Brickmaking plant. W. L. Hanley, jr. 1,641,585; Sept. 6.
 Brick mold. J. Lo Forti. 1,626,004; Apr. 26.
 Brick-molding process and apparatus. C. Ziegler. 1,651,571; Dec. 6.
 Brick or block, Flashing. D. W. Anderson. 1,617,141; Feb. 8.
 Brick-scoring apparatus. G. W. Booth. 1,636,547; July 19.
 Brick-slicing machine. S. G. Hamer. 1,650,832; Nov. 29.
 Brick stud, Fire-. H. Guldridge. 1,616,746; Feb. 8.
 Brick, Texturing. E. V. Poston. 1,641,047; Aug. 30.
 Brick, Unburned refractory. G. K. Schlotter and R. H. Youngman. 1,643,181; Sept. 20.
 Brick, Veneering. E. V. Poston. 1,641,048-9; Aug. 30.
 Bricks and piling the same, Separator for. E. C. Clark. 1,640,691; Aug. 30.
 Bricks and similar elements in building, Apparatus for use in the laying of. G. E. Wight. 1,615,859; Feb. 1.
 Bricks and the like, Transport means for. C. J. Weber. 1,645,783; Oct. 18.
 Bricks and tiles, Producing. E. W. Tillberg. 1,647,063; Oct. 25.
 Bricks, Apparatus for and method of simultaneously texturing both ends of. E. V. Poston. 1,641,046; Aug. 30.
 Bricks, Apparatus for handling. G. H. Stover. 1,626,644; May 3.
 Bricks for building rooms inclosed by walls, Box of. A. Bosslet. 1,629,199; May 17.
 Bricks, Making arch. R. J. Himmelwright. 1,634,356; July 5.
 Bricks, Repressing. H. K. King. 1,630,436; May 31.
 Bricks, tiles, and the like, Form for making hollow. A. P. Turner. 1,642,980; Sept. 20.
 Bridge. G. Schmid. 1,637,787; Aug. 2.
 Bridge. G. Zimmerman. 1,616,480; Feb. 8.
 Bridge, Adjustable. P. E. Peterson. 1,619,367; Mar. 1.
 Bridge approach. A. S. Hackett. 1,629,787; May 24.
 Bridge attachment, Method of and apparatus for. D. Baratt. 1,638,820; Aug. 16.

- Bridge, Bascule. L. R. Ash, H. C. Tammen, and H. G. Hunter. 1,633,565; June 28.
- Bridge, Bascule. J. B. Strauss. 1,615,891; Feb. 1.
- Bridge, Combined suspension and arch. G. G. Krivoshein. 1,626,241; Apr. 26.
- Bridge construction. A. Polino. 1,624,325; Apr. 12.
- Bridge lamp or the like, Arm for a. J. Hirsch. Des. 73,379-80; Aug. 30.
- Bridge, Lift. S. Hardesty and W. G. Williams. 1,646,403; Oct. 25.
- Bridge material. I. Caronl. 1,640,980; Aug. 30.
- Bridge, Movable. H. L. Prinz. 1,619,678; Mar. 1.
- Bridge, Movable. R. E. Sheal. 1,613,485; Jan. 4.
- Bridge players, Reminder for. W. L. Slayton. 1,653,440; Dec. 20.
- Bridge retaining device. G. A. Yantis. 1,621,702; Mar. 22.
- Bridge, Rolling lift. R. and J. Dayde. 1,613,504; Jan. 4.
- Bridge-score recorder. C. A. Cooke. 1,620,077; Mar. 8.
- Bridge scorer. F. A. Bartlett and R. J. Davis. 1,613,975; Jan. 11.
- Bridge, Submerged. W. Blanchard. 1,620,716; Mar. 15.
- Bridge, warning device. F. H. Gilligan. 1,628,720; May 17.
- Bridge work. L. A. Klander. 1,632,744; June 14.
- Bridges and the like, Operating mechanism for movable. T. E. Brown, Jr., W. G. Williams, and S. Hardesty. 1,638,574; Nov. 8.
- Bridges and the like, Truss for. C. A. P. Turner. 1,632,014; June 14.
- Bridges, Center lock for bascule. L. R. Ash. 1,640,340; Oct. 18.
- Bridges, plates, and the like in timepiece movements, counting mechanisms, and like apparatus, Assembling device for. C. Rosat. 1,634,214; June 28.
- Bridging. H. O. Davidson. 1,642,945; Sept. 20.
- Bridle. J. M. Walsh. 1,651,170; Nov. 29.
- Bridle, Broom. J. Bonanno. 1,651,915; Dec. 6.
- Bridles, Curb attachment for. J. Wiesenfeld. 1,653,382; Dec. 20.
- Brief bag. J. Goerk. 1,646,730; Oct. 25.
- Brief case. S. H. Litton. 1,633,991; June 28.
- Brief case. S. Solomon. 1,641,871; Sept. 6.
- Brief case. M. H. and L. Stein. 1,638,753; Aug. 9.
- Brief cases and the like, Stiffener for. C. Winkler and W. H. Bittner. 1,622,017; Mar. 22.
- Brine, Treating. A. K. Smith and C. F. Prutton. 1,627,068; May 3.
- Briquette and its manufacture, Carbonized. S. F. Walton. 1,618,248; Feb. 22.
- Briquettes, Press for making. H. Apfelbeck. 1,620,621; Mar. 15.
- Briquetting apparatus. G. B. Damon. 1,650,495; Nov. 22.
- Briquetting method. E. B. A. Zwayer. 1,627,222; May 3.
- Briquetting, Process and apparatus for. E. B. A. Zwayer. 1,614,095; Jan. 11.
- Bristle-pointing device. R. Izawa. 1,627,704; May 10.
- Bringing attachment. C. C. Hansen. 1,627,737; May 10.
- Bringing attachment. C. C. Hansen. 1,646,090; Oct. 18.
- Bringing attachment. R. H. Smickle. 1,647,201; Nov. 1.
- Broaching machine. J. Oakley. 1,650,033; Nov. 22.
- Broaching machine. J. L. Perkins and H. D. Croft. 1,642,593; Sept. 13.
- Broaching machine. B. H. Urschel. 1,627,755; May 10.
- Broaching tool. G. H. Richey. 1,631,693; June 7.
- Broadcast distributing machine. J. G. Bailey. 1,629,248-49; May 17.
- Broadcast distribution. Polyphase. E. E. Clement. 1,632,092; Dec. 6.
- Broiler. J. H. Cannon. 1,624,214; Apr. 12.
- Broiler. F. V. Derwiler. 1,614,661; Jan. 18.
- Broiler. R. T. Hosking. 1,642,071; Sept. 13.
- Broiler. J. J. Jones. 1,627,742; May 10.
- Broiler burner. H. Lyon. 1,614,746; Jan. 18.
- Broiler, Electric. F. C. Salvor. 1,651,868; Dec. 6.
- Broiler pan. D. E. Lutiger. 1,650,034; Nov. 29.
- Broiling apparatus. J. C. Sunderland and J. F. Castelow. 1,631,655; June 7.
- Bromine, Recovery of. H. H. Dow and E. O. Barstow. 1,614,663; Jan. 18.
- Bronze objects, Press for pressing hollow. A. Schmitz. 1,629,417; May 17.
- Brooch or similar article. A. Brod. Des. 73,482-94; Sept. 20.
- Brooder. W. G. Bruns. 1,629,066; May 17.
- Brooder. H. A. Christiansen and L. E. Merrick. 1,632,307; June 14.
- Brooder. P. A. Demuth. 1,650,196; Nov. 22.
- Brooder. L. Fortier. 1,631,792; Jan. 11.
- Brooder. A. Kistler. 1,621,544; Mar. 22.
- Brooder. P. A. McGowan. 1,636,749; July 26.
- Brooder. A. F. Shuler. 1,627,346; May 3.
- Brooder. P. D. Warner. 1,618,615; Feb. 22.
- Brooder and hoyer, Chicken. P. C. Clemmenssen. 1,637,036; July 26.
- Brooder, Chick. L. A. Sauer. 1,616,762; Feb. 8.
- Brooder, Chicken. F. Frengle and F. D. Rohan. 1,627,279; May 3.
- Brooder, Gas. J. W. Myers. 1,642,787; Sept. 20.
- Brooder hoyer, Adjustable. F. Frengle. 1,637,637; Aug. 2.
- Brooder and the like, Burner control for. H. M. Sheer. 1,618,114; Feb. 15.
- Broom. W. A. Brown. 1,631,465; June 7.
- Broom. H. Cave. 1,635,971; July 12.
- Broom. R. E. Helmer. 1,648,943; Nov. 15.
- Broom. W. Hertzberg. 1,616,553; Feb. 8.
- Broom. S. B. McHenry. 1,647,927; Nov. 1.
- Broom. W. C. Read. 1,621,273; Mar. 16.
- Broom. J. M. Reid. 1,646,041; Oct. 18.
- Broom, Adjustable. L. H. Russell. 1,613,771; Jan. 11.
- Broom and door holder, Combination. R. J. Craven. 1,636,627; July 19.
- Broom and making same. R. A. Marr. 1,644,738; Oct. 11.
- Broom and mop hanger. S. W. Zieminski. 1,618,623; Feb. 22.
- Broom bridle. H. R. Shekjerian. 1,643,092; Sept. 20.
- Broomcorn, Treating. F. R. Lay. 1,641,174; Sept. 6.
- Broom, Hearth. H. Broadwood. Des. 72,933; June 28.
- Broom holder. A. J. Milligan. 1,637,782; Aug. 2.
- Broom protector and stand. A. J. Hennes. 1,624,410; Apr. 12.
- Broom, Reversible. W. Dupré. 1,631,253; June 7.
- Broom-supporting device. M. Huboux. 1,652,243; Dec. 13.
- Brooms. Manufacture of. O. A. Hawkins. 1,637,639; Aug. 2.
- Brush. J. Adams. 1,618,742; Feb. 22.
- Brush. H. Cave. 1,635,970; July 12.
- Brush. W. J. Cox. 1,631,015; May 31.
- Brush. A. E. Coyne. 1,627,634; May 10.
- Brush. M. Ferrari. 1,649,677; Nov. 15.
- Brush. C. Grecher. 1,626,816; May 3.
- Brush. L. C. Herold. 1,637,823; Aug. 2.
- Brush. G. N. Jacob. 1,616,858; Feb. 8.
- Brush. O. Neufeld. 1,652,834; Dec. 13.
- Brush. W. F. Pulver. 1,652,213; Dec. 18.
- Brush. M. J. Rabalais. 1,641,866; Sept. 6.
- Brush. E. Rice. 1,620,785; Mar. 15.
- Brush. W. Schalle. 1,649,490; Nov. 15.
- Brush. A. Steidle. 1,642,974; Sept. 20.
- Brush. C. H. Struble and S. W. Hall. 1,631,560; June 7.
- Brush, Abrading. L. Holtschneider. 1,642,857; Sept. 20.
- Brush, Air. W. F. Gradolph and G. Mueller. 1,613,588; July 19.
- Brush, Air. J. D. Murray. 1,636,315; July 19.
- Brush and broom attachment. T. H. Lawrence. 1,617,764; Feb. 15.
- Brush and polisher, Combined. F. A. Lisl. 1,633,898; June 28.
- Brush and squeegee, Combined. S. G. Mayers. 1,636,425; July 19.
- Brush and tray, Crumb. H. D. Gladwell. 1,650,507; Nov. 22.
- Brush, Back. J. J. Adkins. 1,628,023; May 10.
- Brush, Bath spray. R. M. Withycombe. 1,630,995; May 31.
- Brush, Carpet, rug, and floor. A. E. Custer. 1,617,103; Feb. 8.
- Brush, Commutator. E. B. Gilleland. 1,643,842; Sept. 27.
- Brush, Cutting and road-scraping machine, Combined. A. Fritsch. 1,635,211; July 12.
- Brush, Dynamo. N. R. Haas. 1,633,740; June 28.
- Brush, Folding. J. F. Connor. 1,631,011; May 31.
- Brush, Folding. L. H. Pickar. 1,627,200; May 3.
- Brush for electrical apparatus, Self-lubricating. C. E. Chapin. 1,635,257; July 12.
- Brush for roof painting. Fountain. A. F. Wilson. 1,650,732; Nov. 29.
- Brush, Fountain. N. M. Cottrell. 1,635,114; July 5.
- Brush, Fountain. G. Doi. 1,614,461; Jan. 18.
- Brush, Fountain. W. K. Rockman. 1,621,432; Mar. 15.
- Brush, Fountain. J. D. Walker. 1,616,104; Jan. 18.
- Brush, Fountain spray. E. H. Boucher. 1,639,586; Aug. 16.
- Brush, Hair. F. W. Kellogg. 1,633,934; June 28.
- Brush head, Removable. E. Myers. 1,638,054; Aug. 9.
- Brush holder. J. T. Janette. 1,614,616; Jan. 18.
- Brush holder. J. H. Mumaw, J. B. Schnieders, and W. G. Haas. 1,624,426; Apr. 12.
- Brush holder. R. L. Tuttle. 1,615,662; Jan. 25.
- Brush-holder connection. J. T. Janette. 1,651,059; Nov. 29.
- Brush holder for shaving brushes, Sanitary. H. L. Keris. 1,616,580; Feb. 8.
- Brush holder or handle, Paint. F. Travaglini. 1,654,392; Dec. 27.
- Brush machine. A. W. Le Boeuf. 1,627,787; May 10.
- Brush-making machine. C. E. Fisher. 1,639,557; Aug. 16.
- Brush, Nail. R. M. Withycombe. 1,647,068; Oct. 25.
- Brush, Power-driven. J. W. Richman. 1,633,123; June 21.
- Brush protector. W. T. Saunders. 1,612,887; Jan. 4.
- Brush, Rotary. E. S. Carman and E. E. Curtis. 1,631,998; July 19.
- Brush, Rotary. E. C. Schlueter. 1,633,230; June 21.
- Brush, Shaving. M. Alland. 1,651,355; Dec. 8.
- Brush, Shaving. T. W. Boyle. 1,617,569; Feb. 15.
- Brush, Shaving. L. Fuld. Des. 73,782; Nov. 8.

- Brush, Shaving. F. G. Wilcott and P. J. Morelli. 1,641,721; Sept. 6.
- Brush, Shaving. H. Zimmet. 1,649,052; Nov. 15.
- Brush, Steaming. I. Kirschenbaum. 1,641,037; Aug. 30.
- Brush, Toilet. F. E. Pretat. 1,621,900; Mar. 22.
- Brush, Tooth and massage. R. M. Sheetz. 1,642,465; Sept. 13.
- Brush, Wire. S. M. Blanch. 1,648,533; Nov. 8.
- Brush, Wire. W. W. Carlson. 1,648,481; May 24.
- Brush, Wire. G. Rasmussen, Jr. 1,633,274; June 21.
- Brush, Wire-base. E. Curtis. 1,620,008; Mar. 8.
- Brush with detachable handle. W. R. James. 1,630,703; May 31.
- Brushes and similar apparatus, Mechanism for operating cleaning. G. E. Welsch, Jr. 1,643,866; Sept. 27.
- Brushes and the like, Composition for cleaning. F. C. Bray. 1,635,202; July 12.
- Brushes and the like, Removable-handle mechanism for. W. and E. Prestwich. 1,615,483; Jan. 25.
- Brushes, Back for rotary scrubbing. I. C. Carpenter. 1,654,086; Dec. 27.
- Brushes, Manufacturing. H. P. McMillan. 1,619,428; Mar. 1.
- Brushes, Material for commutator. F. C. Atkinson. 1,644,703; Oct. 11.
- Brushes, Pigtail connection for. J. F. Kerlin and H. J. Rosenhofer. 1,629,875; May 24.
- Brushing and polishing machine. W. D. Lee. 1,625,667; Apr. 19.
- Brushing apparatus for washing the human body. J. Pfeuffer. 1,645,926; Oct. 18.
- Brushing machine. H. M. Keith. 1,632,705; June 14.
- Brushing machine, Pipe-. E. P. Bly. 1,647,499; Nov. 1.
- Bubble-absorption tower. H. E. Shay. 1,635,440; July 12.
- Bubble pipe. B. B. Gaffin. 1,646,398; Oct. 25.
- Bucket, Aerial-tramway. M. P. Morrison. 1,652,209; Dec. 13.
- Bucket, Cement-dumping. W. W. Lewis and J. R. Suman. 1,652,999; Dec. 13.
- Bucket conveyers, Selective dumping device for. W. R. Edgington. 1,636,220; July 19.
- Bucket or vessel, Measuring. A. Davis, Jr. 1,624,477; Apr. 12.
- Bucket, Power-actuated. G. H. Strayer. 1,627,872; May 10.
- Bucket, Self clearing, dredging, and excavating. C. Harrison. 1,653,905; Dec. 27.
- Bucket trap. F. Elge. 1,640,115; Aug. 23.
- Bucket, Veneer. D. R. Hulsart. 1,654,375; Dec. 27.
- Bucket, Well. P. E. Getz. 1,629,912; May 24.
- Buckets and the like, Carrier for. L. Jacobs. 1,633,022; June 21.
- Buck rake. J. W. Krebs. 1,650,453; Nov. 22.
- Buckle. F. P. Daughaday. Des. 73,559; Oct. 4.
- Buckle. W. L. Davis. 1,644,513; Oct. 4.
- Buckle. A. A. Goldstein. 1,644,720; Oct. 11.
- Buckle. N. Jenkins. 1,648,017; Nov. 8.
- Buckle. S. Kieler. 1,615,391; Jan. 25.
- Buckle. E. Laier. 1,646,545; Oct. 25.
- Buckle. I. R. Lederer. Des. 73,409; Sept. 6.
- Buckle. L. Lehr. 1,620,216; Mar. 8.
- Buckle. R. A. Moore and W. F. Murtha. Re16,745; Sept. 27.
- Buckle. H. M. Pfaltzgraf. 1,630,758; May 31.
- Buckle. G. E. Prentice. 1,652,211; Dec. 13.
- Buckle. N. D. Richards. Des. 73,009; July 5.
- Buckle. H. W. Russell. 1,648,062; Nov. 8.
- Buckle. C. H. Sampson and J. L. Whitley. 1,618,389; Feb. 22.
- Buckle and purse, Combined. B. H. Marcus. 1,625,040; Apr. 19.
- Buckle and the like, Extensible. L. Macheroux. 1,622,954; Mar. 29.
- Buckle, Bale-band. T. J. M. Daly. 1,631,402; June 7.
- Buckle, Bale-tie. J. A. Todd. 1,617,827; Feb. 15.
- Buckle, Belt. L. S. Chubb. 1,625,385; Apr. 19.
- Buckle, Belt. F. P. Daughaday. 1,613,444; Jan. 4.
- Buckle, Belt. F. P. Daughaday. 1,651,255; Nov. 29.
- Buckle, Belt. R. F. Elchner. Des. 72,146; Mar. 8.
- Buckle, Belt. J. Knistrom. 1,620,157; Mar. 8.
- Buckle, Belt. M. Mabon. Des. 71,876-9; Jan. 18.
- Buckle, Belt. F. R. Matteson. 1,631,104; May 31.
- Buckle, Belt. L. Mauro. 1,636,379; July 19.
- Buckle, Belt. E. S. Mix. 1,635,135; July 5.
- Buckle, Belt. W. J. Morse. 1,616,195; Feb. 1.
- Buckle, Belt. L. W. Shields. Des. 72,191; Mar. 8.
- Buckle, Belt. F. C. Simmons. 1,650,912; Nov. 29.
- Buckle, Belt. R. Slote. Re16,533; Jan. 11.
- Buckle, Belt, Detachable. G. M. Charles. 1,648,755; Nov. 8.
- Buckle, Garment. W. E. Hatheway. 1,653,852; Dec. 27.
- Buckle, Harness. J. W. Cronan. 1,625,389; Apr. 19.
- Buckle, Hat. J. F. Brown. Des. 73,774; Nov. 8.
- Buckle holder. W. T. Moon. 1,616,866; Feb. 8.
- Buckle, Slide. R. J. Hodge. 1,654,044; Dec. 27.
- Buckle, Strap. L. F. Otten. 1,643,083; Sept. 20.
- Buckle, Suspender. J. W. Jones. 1,644,594; Oct. 4.
- Buckle, Turn. R. C. McArthur. 1,625,818; Apr. 26.
- Buckles, Manufacturing. C. P. Nourse. 1,619,533; Mar. 1.
- Buckles, Removable crossbar for. I. R. Lederer. 1,628,501; May 10.
- Bucket box. H. J. Lilleston. 1,648,648; Nov. 8.
- Buds and plants, Sprouting. F. E. Denny. 1,628,035; May 10.
- Buffer. E. A. Banschbach. 1,647,766; Nov. 1.
- Buffer. O. E. Bergendahl and R. A. Rimel. 1,638,008; Aug. 9.
- Buffer. D. Bourque. 1,622,759; Mar. 29.
- Buffer apparatus for automobiles and other vehicles, Safety. W. S. Gregory. 1,652,170; Dec. 13.
- Buffer, Automobile door. J. Ledwinka. 1,644,681; Oct. 11.
- Buffer device for railway cars. G. E. Coutant. 1,652,395; Dec. 13.
- Buffer for automobile doors. J. Ledwinka. 1,644,679; Oct. 11.
- Buffer mechanism, Diaphragm-face-plate. A. E. Small. 1,653,068; Dec. 20.
- Buffer mechanism, Upper-. G. G. Gilpin. 1,649,465; Nov. 15.
- Buffer, Multiply. F. L. Ierges. 1,620,708; Mar. 15.
- Buffing apparatus. C. M. Jamieson. 1,651,350; Nov. 29.
- Buffing device. W. L. Goodstein. 1,645,047; Oct. 11.
- Buffing machine. C. W. Bailey. 1,653,940; Dec. 27.
- Buffing section, Stitched. H. Zimmerman. 1,643,690; Sept. 27.
- Buffing wheel. E. A. Chase. 1,622,942; Mar. 29.
- Buffing wheel. J. J. Fiechter. 1,640,032; Aug. 23.
- Buffing wheels, Buff section for. R. E. Harrison. 1,627,969; May 10.
- Builder board. E. M. Walker. 1,648,706; Nov. 8.
- Building. F. E. d'Humy. 1,617,579; Feb. 15.
- Building. E. G. Perrot. 1,654,013; Dec. 27.
- Building block. D. W. Daley. 1,650,695; Nov. 29.
- Building block. A. W. Keichline. 1,653,771; Dec. 27.
- Building block. W. E. Lemley. 1,629,279; May 17.
- Building block. G. W. McDearmon. 1,644,599; Oct. 4.
- Building block. R. L. Morris. 1,634,157; June 23.
- Building block. L. Robbins. 1,649,780; Nov. 15.
- Building block. E. Roberts. 1,623,442; Apr. 5.
- Building block. W. H. Schweizer. 1,621,957; Mar. 22.
- Building block. K. L. Smith. 1,652,743; Dec. 13.
- Building block. L. W. Stevens. 1,639,063; Aug. 16.
- Building block and wall. N. E. Clementson. 1,622,369; Mar. 29.
- Building block and wall construction. R. F. Greene. 1,618,426; Feb. 22.
- Building block, Concrete. E. S. Nicholas. 1,629,960; May 24.
- Building-block mold. L. E. Gearhart. 1,623,178; Apr. 5.
- Building blocks and process of molding, Mold for. R. B. Fuller. 1,634,900; July 5.
- Building blocks and the like, Mechanism for handling. H. R. Straight. 1,650,053; Nov. 22.
- Building blocks, Mold for concrete. E. S. Nicholas. 1,652,180; Dec. 13.
- Building blocks, Production of. H. Schlegel. 1,632,317; June 14.
- Building card structure and blank for producing the same. S. J. Bedington. 1,648,604; Nov. 8.
- Building clamp. D. J. M. Lock. 1,641,819; Sept. 6.
- Building construction. C. F. Aberle. 1,616,433; Feb. 8.
- Building construction. A. F. Bemis. 1,626,112; Apr. 26.
- Building construction. J. A. Billerman. 1,651,323; Nov. 29.
- Building construction. H. C. Blank. 1,650,485; Nov. 22.
- Building construction. D. W. Brown. 1,641,775; Jan. 18.
- Building construction. D. B. Danielson. 1,639,399; Aug. 16.
- Building construction. E. Flagg. 1,622,997; Mar. 29.
- Building construction. W. G. Forkey. 1,616,444; Feb. 8.
- Building construction. W. G. Forkey. 1,646,450; Oct. 25.
- Building construction. A. Grossinger. 1,644,996; Oct. 11.
- Building construction. A. Henderson. 1,642,952; Sept. 20.
- Building construction. A. B. Kleinbans. 1,633,446; June 21.
- Building construction. C. L. Michod. 1,622,962; Mar. 29.
- Building construction. J. G. S. Murray. 1,640,091; Aug. 23.
- Building construction. T. Rowan. 1,632,453; June 14.
- Building construction. W. S. St. John. 1,635,251; July 12.
- Building construction. G. A. Shields. 1,617,033; Feb. 8.
- Building construction. G. A. Shields. 1,622,212; Mar. 22.
- Building construction. W. H. M. Smallman. 1,651,072; Nov. 29.
- Building construction. J. C. Telford. 1,613,546-7; Jan. 4.
- Building construction. E. E. van Wie. 1,637,430; Aug. 2.
- Building construction. F. M. Venzie. 1,612,895; Jan. 4.
- Building construction and the like. F. A. Browne. 1,627,531; May 8.
- Building construction and the like. W. S. Thomas. 1,646,666; Oct. 25.
- Building construction. Concrete form for. E. E. Seelye. 1,633,715; June 23.
- Building construction. Earthquakeproof. D. Tambone. 1,615,350; Jan. 25.
- Building construction. Fireproof. J. Lally. 1,625,899; Apr. 26.
- Building construction. Form for. P. L. Gottschalk. 1,627,171; May 3.
- Building construction, Metallic. A. Lamm. 1,654,293; Dec. 27.
- Building-core head ring. G. F. Wikle. 1,647,164; Nov. 1.
- Building-corner guard. F. Pfister. 1,653,656; Dec. 27.

- Building drum for the manufacture of the beads. E. Schnedarek. 1,618,131; Feb. 15.
- Building elements, Making reinforced. K. Wettstein. 1,626,318; Apr. 26.
- Building, Fireproof. H. Sorensen. 1,641,556; Sept. 6.
- Building form. F. L. Decker. 1,639,594; Aug. 16.
- Building form. W. E. Urschel. 1,636,396; July 19.
- Building form, Cement. J. A. and L. M. Comer. 1,616,354; Feb. 1.
- Building inclosure. F. W. Dakin. 1,648,724; Nov. 8.
- Building joints. D. M. Simons. 1,613,911; Jan. 11.
- Building Knockdown or foldable. T. C. Colt. 1,629,150; May 17.
- Building machine, Tread-hand-. K. J. Thompson. 1,649,933; Nov. 22.
- Building material. L. Isaacs. 1,635,676; July 12.
- Building material, Metal-back. S. A. Gates. 1,644,247; Oct. 4.
- Building material, Mold for. S. Flam. 1,618,648; Feb. 22.
- Building material, Porous composition. D. Garza. 1,637,935; Aug. 2.
- Building materials, Composition of matter adapted to be used for. H. B. Abbott. 1,620,312; Mar. 8.
- Building method and product. A. F. Bemis. 1,618,696; Feb. 22.
- Building pile. L. Pierce. 1,645,398; Oct. 11.
- Building, Portable. G. F. Slater. 1,639,577; Aug. 16.
- Building, Portable. J. C. Truemper. 1,622,746; Mar. 29.
- Building, Portable. L. H. Whittridge. 1,650,311; Feb. 22.
- Building siding, Composition. W. A. Carter. 1,641,623; Sept. 6.
- Building, Storage. F. E. d'Humy. 1,626,602; May 8.
- Building, Storage. H. Hornbostel and W. J. Strassburger. 1,637,110; July 26.
- Building structure. P. F. Flagg. 1,643,934; Sept. 27.
- Building structure. J. M. Hewlett and R. B. Fuller. 1,633,702; June 28.
- Building structure comprising water receptors. C. W. Stark. 1,633,685; June 28.
- Building structures, Mold form for. W. E. Keller. 1,630,795; May 31.
- Building trims, Attaching means for. W. S. Thomas. 1,624,848; Feb. 22.
- Building unit. J. A. Birkholz. 1,634,283; July 5.
- Building unit. G. D. Reagan. 1,649,367; Nov. 15.
- Building unit and method. R. Trozzo. 1,643,103; Sept. 20.
- Building-unit construction. H. G. Oliver. 1,652,634; Dec. 13.
- Building unit, Hollow. G. D. Reagan. 1,633,191; June 21.
- Building unit, Hollow. G. D. Reagan. 1,633,193; June 21.
- Building unit, Reinforced hollow fracturable. G. D. Reagan. 1,633,192; June 21.
- Building wall and block construction. I. Ročić. 1,644,035; Oct. 4.
- Building-wall construction and making the same. F. and L. Niles. 1,628,056; May 10.
- Building with concrete, or the like, and apparatus therefor. C. Westphal and R. Grieger. 1,642,393; Sept. 13.
- Buildings and the like, Producing models of. M. R. Retz. 1,619,436; Mar. 1.
- Buildings, Bar hanger for the support of outlet boxes for the wiring of. H. A. Calderwood. 1,622,087; Mar. 22.
- Buildings, Constructing fireproofing. L. G. Berry. 1,627,009; May 3.
- Buildings, Construction of. L. Lanza. 1,646,113; Oct. 18.
- Buildings, Corner piece for. S. Yoder. 1,634,862; July 5.
- Buildings, Device for use in moving. J. J. Roos. 1,625,161; Apr. 19.
- Buildings, Foundation for earthquakeproof. A. A. Porter. 1,651,411; Dec. 6.
- Buildings, Heating and cooling of. R. G. Crittall and J. L. Musgrave. 1,625,987; Apr. 26.
- Buildings, Side and end wall of sectional. L. Swisher. 1,649,872; Nov. 22.
- Buildings, Ventilating device for farm. H. R. Straight. 1,615,964; Feb. 1.
- Bulb container. T. P. Jackson. 1,651,772; Dec. 6.
- Bulb-feeding apparatus. C. A. Brown and F. B. Van Sickle. 1,623,325; Apr. 6.
- Bulbs and other vessels, Evacuation of. D. S. Gustin. 1,651,386; Dec. 6.
- Bulbs and the like, Evacuation of. W. C. Sproesser. 1,626,640; May 3.
- Bulthead. J. O. Walsh. 1,616,012; Feb. 1.
- Bulthead, Adjustable. J. G. Whisler and C. R. McElwee. 1,619,905; Mar. 8.
- Bull-wheel attachment. J. G. Dyer and J. C. Thomas. 1,621,714; Mar. 22.
- Bull wheels, Flange for. G. F. Bell. 1,626,322; Apr. 26.
- Bullet, Mushrooming. J. A. Dickerman. 1,633,168; Jan. 21.
- Bumper. W. E. Dunston. 1,613,695; Jan. 11.
- Bumper. W. E. Dunston. 1,623,398; Apr. 6.
- Bumper. F. Floto. 1,621,501; Mar. 22.
- Bumper. R. A. Flum. 1,613,699; Jan. 11.
- Bumper. G. C. Geanopoulos. 1,633,782; June 28.
- Bumper. H. S. Jandus and H. L. Blydenburgh. 1,623,413; Apr. 6.
- Bumper. H. S. Jandus and E. R. Keelor. Des. 73,838-39; Nov. 15.
- Bumper. H. S. Jandus and E. R. Keelor. Des. 73,841; Nov. 15.
- Bumper. H. S. Jandus and J. R. Morgan. Des. 73,840; Nov. 15.
- Bumper. H. S. Jandus and C. E. Rasmussen. Des. 73,837; Nov. 15.
- Bumper. H. S. Jandus and N. Van Husen. Des. 73,836; Nov. 15.
- Bumper. H. S. Jandus and N. Van Husen. Des. 73,842; Nov. 15.
- Bumper. E. J. Johnson. 1,618,880; Feb. 22.
- Bumper. W. G. Johnson. 1,641,225; Sept. 6.
- Bumper. P. A. Knudsen. 1,615,633; Jan. 25.
- Bumper. C. G. Morrell. 1,614,251; Jan. 11.
- Bumper. J. W. Saffold. 1,617,824; Feb. 15.
- Bumper. J. H. Sager. 1,632,503; June 19.
- Bumper. W. F. Schacht. 1,628,277; May 10.
- Bumper. S. H. Shaw. Des. 71,930; Jan. 25.
- Bumper. S. H. Shaw. 1,612,948; Jan. 4.
- Bumper. S. H. Shaw. 1,614,087; Jan. 11.
- Bumper. S. H. Shaw. 1,615,046; Jan. 18.
- Bumper. S. H. Shaw. 1,615,521; Jan. 25.
- Bumper. C. E. Stein. 1,638,566; Apr. 26.
- Bumper. O. E. Stokes. 1,631,653; June 7.
- Bumper. G. W. Veale. 1,651,005-6; Nov. 29.
- Bumper. S. Voyatzis. 1,618,394; Feb. 22.
- Bumper and advertising medium, Combined. A. W. Pat-tison. 1,647,014; Oct. 25.
- Bumper and brake device, Automobile. P. M. Bondersky. 1,654,405; Dec. 27.
- Bumper and feeder, Combined. N. L. Harmon. 1,617,248; Feb. 8.
- Bumper and fender. J. Bunis. 1,638,615; Aug. 9.
- Bumper and fender, Combination. T. C. Phalin. 1,622,667; Mar. 29.
- Bumper and fitting, Automobile. W. G. Cox. 1,630,374; May 31.
- Bumper and jack, Combined. B. K. Cox. 1,627,317; May 3.
- Bumper and spare wheel and tire carrier, Combined. A. G. Hawkey. 1,649,404; Nov. 15.
- Bumper and support, Automobile. W. W. Donegan. 1,640,145; Aug. 23.
- Bumper and trunk rack, Combination automobile. W. W. Donegan. 1,640,146; Aug. 23.
- Bumper, Auto. A. Weiss. 1,642,281; Sept. 13.
- Bumper, Automobile. F. G. Bremer. 1,644,473; Oct. 25.
- Bumper, Automobile. H. Brock. 1,645,739; Oct. 18.
- Bumper, Automobile. G. H. Brooks. 1,618,405; Feb. 22.
- Bumper, Automobile. J. W. Duffy. 1,647,611; Nov. 1.
- Bumper, Automobile. H. Flach. 1,618,419; Feb. 22.
- Bumper, Automobile. E. P. Galassi. 1,649,301; Nov. 15.
- Bumper, Automobile. E. A. Gates. 1,648,394; Nov. 8.
- Bumper, Automobile. S. Horowitz. 1,647,627; Nov. 1.
- Bumper, Automobile. M. N. Hurley. 1,635,418; July 12.
- Bumper, Automobile. J. A. Kehrer. 1,637,152; July 26.
- Bumper, Automobile. A. L. Kern. 1,652,785; Dec. 13.
- Bumper, Automobile. R. W. Kirk. 1,629,509; May 24.
- Bumper, Automobile. W. R. McGowan. 1,631,640; June 7.
- Bumper, Automobile. S. Otis. 1,633,603; June 28.
- Bumper, Automobile. W. Rahe. 1,625,587; May 24.
- Bumper, Automobile. G. A. Vlasak. 1,646,776; Oct. 25.
- Bumper, Automobile. T. S. and P. S. Vosklian. Des. 73,724; Oct. 25.
- Bumper, Automobile. F. H. Williamson. 1,633,055; June 21.
- Bumper, Automobile. F. Williamson and P. P. Runnels. 1,633,054; June 21.
- Bumper, Automobile collision. M. W. McConkey. 1,629,806; May 24.
- Bumper bars and the like, Clamping device for. C. F. Frazar. 1,649,149; Nov. 15.
- Bumper bracket. E. C. Walter. 1,643,758; Sept. 27.
- Bumper, Car. H. Varder. 1,651,424; Dec. 6.
- Bumper construction. A. Weiland. 1,645,562; Oct. 18.
- Bumper, Cushion. A. A. Kahil. 1,649,166; Nov. 15.
- Bumper, Elastic Collision. W. H. Rademakers, sr., and W. H. Rademakers, jr. 1,613,540; Mar. 1.
- Bumper for dispatch carriers, Removable. T. H. Cunningham. 1,650,982; Nov. 29.
- Bumper for vehicles. H. E. Clay. 1,651,063; Nov. 29.
- Bumper for vehicles, Extensible and contractible. A. E. Ebaugh. 1,646,055; Oct. 18.
- Bumper, Luggage carrier, and trailer hitch attachment, Combination. L. G. Price. 1,641,502; Sept. 6.
- Bumper mechanism. E. F. Ohlendorf. 1,633,901; June 28.
- Bumper, Multibar. R. B. Fagool. 1,620,334; Mar. 8.
- Bumper, Parallel-bar. R. B. Fagool. 1,623,583; Apr. 5.
- Bumper, Pneumatic. W. P. Ferrae. 1,645,050; Oct. 11.
- Bumper, Pneumatic. E. P. Watson. 1,627,472; Mar. 3.
- Bumper. Rubber shock-insulated. F. Fampinella. 1,619,087; Mar. 1.
- Bumper, Safety. A. Johnson. 1,620,106; Mar. 8.
- Bumper, Segmental spring. E. G. Dann. 1,645,589; Oct. 18.
- Bumper, Side. F. E. Price. 1,643,517; Sept. 27.
- Bumper, Spring. W. Rahe. 1,617,027; Feb. 8.
- Bumper-supporting means. H. S. Jandus. 1,614,784; Jan. 18.
- Bumper, Vehicle. H. S. Jandus. Des. 73,300; Aug. 23.
- Bumper, Vehicle. H. S. Jandus. Des. 73,318-21; Aug. 23.

- Bumper, Vehicle. H. S. Jandus and R. A. Flum. Des. 73,290; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and E. R. Keelor. Des. 73,292; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and E. R. Keelor. Des. 73,299; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and J. R. Morgan. Des. 73,293-5; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and C. E. Rasmussen. Des. 73,291; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and C. E. Rasmussen. Des. 73,297; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and C. E. Rasmussen. Des. 73,302; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 73,296; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 73,298; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 73,301; Aug. 23.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 73,303-4; Aug. 23.
- Bumper, Vehicle. W. R. McGowen. 1,636,965; July 26.
- Bumper, Vehicle. C. A. Schmidt. Des. 74,075; Dec. 18.
- Bumper, Vehicle. C. A. Schmidt. 1,645,723; Oct. 18.
- Bumper, Vehicle. H. J. Schuette. 1,636,248; July 19.
- Bumper, Vehicle. A. Slowik. 1,640,222; Aug. 23.
- Bumper, Vehicle. A. Welland. 1,618,706; Aug. 16.
- Bumper, Vehicle. A. Welland. 1,637,364; Aug. 2.
- Bumper, Vehicle. A. Welland. 1,644,046; Oct. 4.
- Bumper, Vehicle. A. Welland. 1,645,561; Oct. 18.
- Bumper, Vehicle. A. Welland. 1,651,008; Nov. 29.
- Bumpers and like articles, Clamping device for. H. S. Jandus. 1,649,165; Nov. 15.
- Bumpers, Clamp for vehicle. H. S. Jandus. Des. 73,308-9; Aug. 23.
- Bumpers, Clamp for vehicle. H. S. Jandus and E. R. Keelor. 73,314-5; Aug. 23.
- Bumpers, Clamp for vehicle. H. S. Jandus and J. R. Morgan. Des. 73,305; Aug. 23.
- Bumpers, Clamp for vehicle. H. S. Jandus and J. R. Morgan. Des. 73,310-13; Aug. 23.
- Bumpers, Clamp for vehicle. H. S. Jandus and J. R. Morgan. Des. 73,316-17; Aug. 23.
- Bumpers, Clamp for vehicle. H. S. Jandus and J. R. Morgan. Des. 73,322; Aug. 23.
- Bumpers, Clamp for vehicle. H. S. Jandus and C. E. Rasmussen. Des. 73,306; Aug. 23.
- Bumpers, Clamp plate for vehicle. H. S. Jandus and E. R. Keelor. Des. 73,700; Oct. 18.
- Bumpers, Clamp plate for vehicle. H. S. Jandus and N. Van Husen. Des. 73,701-2; Oct. 25.
- Bumpers, Impact bar for automobile. H. Taylor. 1,639,011; Aug. 16.
- Bumpers, Impact bar for automobile. J. S. C. Wernig. 1,651,792; Dec. 6.
- Bumpers, Plate for vehicle. H. S. Jandus and N. Van Husen. Des. 73,307; Aug. 23.
- Bumpers, Spacer clamp for. R. B. Fageol. 1,623,584; Apr. 5.
- Bunch former. C. A. Rinker. 1,631,760; June 7.
- Bunch rake. H. P. Hendrickson. 1,633,017; June 21.
- Bundle carrier. H. B. Sperry. 1,629,181; May 17.
- Bundle tier, Automatic. A. H. Saxton. 1,620,841; May 24.
- Bundle-tying machine. G. D. Walker. 1,632,324; June 14.
- Bundling machine. E. H. Broden, J. A. Feierabend, and H. B. Trott. 1,649,056; Nov. 15.
- Bung-plug lock. B. F. Lewis. 1,636,641; July 19.
- Bung-seat construction. H. M. Dillhofer. 1,619,603; Mar. 1.
- Buoy. O. Guidotti. 1,633,484; June 21.
- Buoy for bathers and the like. E. E. Roberts. 1,617,723; Feb. 15.
- Buoyant wearing apparel for swimming or life-saving purposes. J. B. Adams. 1,629,429; May 17.
- Burglar alarm. T. R. Castles. 1,632,170; June 14.
- Burglar alarm. J. W. Lawhon. 1,649,534; Nov. 15.
- Burglar alarm. P. Martinka. 1,653,301; Dec. 20.
- Burglar alarm. H. J. Murray. 1,653,868; Dec. 27.
- Burglar alarm. T. E. O'Connor. 1,624,176; Apr. 12.
- Burglar alarm. A. Rumrich. 1,629,312; May 17.
- Burglar alarm. J. Yendrich. 1,633,468; June 21.
- Burglar alarm, Cord-actuated. N. Bryant. 1,633,361; June 21.
- Burglar-catching and cashier-protective apparatus. J. J. Kennedy and T. W. Stene. 1,640,572; Aug. 30.
- Burglar detector. W. G. Thorpe. 1,634,472; July 5.
- Burglar guard. P. J. Clarke. 1,643,293; Sept. 27.
- Burglarproof lock. F. O. Peterson. 1,622,606; Mar. 29.
- Burial casket. F. N. Watt. 1,620,845; Mar. 15.
- Burial-casket handle. M. F. Davoran. Des. 72,990; July 5.
- Burial casket, Handle for. A. F. K. Allen. Des. 71,898; Jan. 25.
- Burial casket, Handle for. A. C. H. Hiser. Des. 71,913-14; Jan. 25.
- Burial casket or coffin. N. N. Barron. 1,634,767; July 5.
- Burial slipper. E. Martin. Des. 73,664; Oct. 18.
- Burial vault. D. R. Fauley. 1,618,522; Feb. 22.
- Burial vault. C. M. Johnson. Des. 73,609; Oct. 11.
- Burial vaults, Automatic latching device for. D. D. Myers. 1,632,243; June 14.
- Burner. See—
- Broiler burner. Pressure burner.
- Cactus burner. Sandblow burner.
- Self-stove burner. Self-feeding burner.
- Fuel burner. Stove burner.
- Gas burner. Stubble burner.
- Gas-kindling burner. Stump burner.
- Hydrocarbon burner. Sulphur burner.
- Liquid-fuel burner. Torch burner.
- Oil and gas burner. Torch burner.
- Oil burner. Vapor burner.
- Burner. G. W. Bartlett. 1,645,222; Oct. 11.
- Burner. F. M. Blerce. 1,617,744; Feb. 15.
- Burner. K. C. Brown and R. E. White. 1,648,573; Nov. 8.
- Burner. S. Bullum. 1,613,928; Jan. 11.
- Burner. S. Bullum. 1,636,353; July 19.
- Burner. R. Hoffman. 1,612,921; Jan. 4.
- Burner. R. Hoffman. 1,650,716; Nov. 29.
- Burner. P. C. Hughes. 1,641,275; Sept. 6.
- Burner. S. G. Long. 1,639,518; Aug. 16.
- Burner. J. T. McTarnahan. 1,618,765; Feb. 22.
- Burner. F. A. Nieberding. 1,641,350; Sept. 6.
- Burner. J. H. Nutter. 1,620,676; Mar. 15.
- Burner. G. L. Reichhelm. 1,644,610; Oct. 4.
- Burner. F. V. Risinger. 1,640,574; Mar. 15.
- Burner. C. J. Rodman. 1,645,294; Oct. 11.
- Burner. R. M. Stone. 1,644,617; Oct. 4.
- Burner. O. A. Toftken. 1,621,092; Mar. 15.
- Burner. L. Walstrom. 1,625,381; Apr. 19.
- Burner. H. H. Williams. 1,650,559; Nov. 22.
- Burner. A. A. Yost. 1,652,507; Dec. 18.
- Burner and lamp, Magnesium. L. Kral. 1,653,963; Dec. 27.
- Burner and making same, Gas. B. A. Geurink. 1,639,693; Aug. 23.
- Burner apparatus. E. Michand. 1,629,722; May 24.
- Burner attachment, Gas-. A. R. Thompson. 1,643,911; Sept. 27.
- Burner cleaner. T. Longstaff. 1,613,230; Jan. 4.
- Burner cone. C. Scheuermann. 1,636,616; July 19.
- Burner-controlling means. E. Edsen. 1,616,955; Feb. 8.
- Burner for gaseous and powdered solid fuel. W. Vedder. 1,647,675; Nov. 1.
- Burner for heating purposes, Gas. L. Morabito. 1,636,643; July 19.
- Burner for liquid fuel. J. H. Gray. 1,644,372; Oct. 4.
- Burner grid and making the same. F. V. Kisinger. 1,642,426; Sept. 13.
- Burner igniter. A. A. Steward. 1,646,503; Oct. 25.
- Burner or carbon holder. J. W. and K. Brenkert. 1,613,078; Jan. 4.
- Burner-regulating device. C. M. Fitch. 1,637,180; July 26.
- Burner-regulating mechanism. C. M. Fitch. 1,637,179; July 26.
- Burner support. A. W. Morse. 1,628,470; May 10.
- Burner-tip cleaner. L. E. Hood. 1,614,888; Jan. 18.
- Burners and the like, Fire box for oil. R. L. Shrock. 1,647,318; Nov. 1.
- Burners, Air-supplying device for gas. G. A. Huettelman and F. A. Gerich. 1,650,359; Nov. 22.
- Burners, Attachment for weed. W. S. Servoss. 1,649,550; Nov. 15.
- Burners, Automatic control system for. O. F. Carlson. 1,635,809; July 12.
- Burners, Automatic obturator for the supply pipe for. C. M. Rein. 1,645,550; Oct. 18.
- Burners, Control system for liquid-fuel. A. C. Staley. 1,633,502; June 21.
- Burners, Controlling unit for oil. T. B. Allardice. 1,643,435; Sept. 27.
- Burners, etc., Electrically controlled valve for gas. E. L. Payne. 1,614,802; Jan. 18.
- Burners, etc., Jump-spark igniter for oil. O. C. Schroeder. 1,614,692; Jan. 18.
- Burners, Flame detector for oil. H. S. Blake. 1,654,403; Dec. 27.
- Burners, Flash igniter for gas. O. Spahr. 1,625,964; Apr. 26.
- Burners, Fuel-oil feed system for crude-oil. A. J. Bradley. 1,616,413; Feb. 1.
- Burners, Gas regulator for. L. F. Baash and E. H. McMahon. 1,615,355; Jan. 25.
- Burners, Ignition and control mechanism for oil. C. F. Varrick. 1,648,924; Nov. 15.
- Burners, Ignition system for. H. C. Hubbell. 1,630,702; May 31.
- Burners, Injector for gas. G. Keith. 1,652,533; Dec. 13.
- Burners, Safety cut-off mechanism for gas. L. Hill. 1,616,494; Feb. 8.
- Burners, Safety device for. S. Dahl. 1,630,926; May 31.
- Burners, Thermostatic pilot control system for. O. Fox and W. E. Stark. 1,636,770; July 25.
- Burning-in machine. L. Lorenz. 1,625,037; Apr. 19.
- Burning or calcining materials, Apparatus for. H. M. Robertson. 1,621,222; Mar. 15.
- Burning powdered fuel, Apparatus for. F. H. Daniels. 1,647,727; Nov. 7.
- Burnisher, Wheel. V. Abbadesse. 1,644,459; Oct. 4.
- Burnishing machine. P. M. Furber. 1,618,183; Feb. 22.
- Burr, Concavate grinder. T. Wadleigh. 1,651,425; Dec. 6.
- Bus body. C. H. Whitfield. 1,623,988; Apr. 12.

- Bus, Double-deck. E. A. Corbin, jr. 1,654,492; Dec. 27.
- Bus, Low center of gravity, completely-inclosed double-deck. W. D. Fairbanks. 1,636,505; July 19.
- Bus ventilator. C. J. Eckland. 1,621,770; Mar. 22.
- Bush-hammering machine. C. Furst. 1,626,033; Apr. 26.
- Bush or plant support. M. P. Edley. 1,627,495; May 3.
- Bushing. W. Ferris and M. F. Keese. 1,620,818; May 24.
- Bushing, Adjustable self-aligning. B. R. Benjamin and W. Webber. 1,632,164; June 14.
- Bushing and forming the same. B. J. Gudge. 1,640,543; Aug. 30.
- Bushing, Automatic rotary spider. F. Hertzberg. 1,625,540; Apr. 19.
- Bushing, Drill-stem roller driving. E. W. Goesser. 1,639,337; Aug. 16.
- Bushing extractor. A. D. Alexander. 1,636,706; July 26.
- Bushing for high voltages, Leading-in. J. Stolz. 1,651,234; Nov. 29.
- Bushing mold. A. D. Williams and F. B. Gillett. 1,622,750; Mar. 29.
- Bushing remover. Smith, jr., and A. L. Glover. 1,641,754; Sept. 6.
- Bushing tool. H. B. Worster. 1,632,720; June 14.
- Bushings and the like, Device for extracting. C. D. Thompson. 1,634,600; July 5.
- Bushings, Conductor terminal for. A. O. Austin. 1,630,104; May 24.
- Bust confiner. E. K. Pollack. 1,623,973; Apr. 12.
- Bust supporter. L. Farkas. 1,620,335; Mar. 8.
- Butt-cutting machine. H. F. Walker. 1,626,770; May 3.
- Butt gauge. J. F. Johnson. 1,635,752; July 12.
- Butt hook. J. F. Draper. 1,653,092; Dec. 20.
- Butter and cream treating process. R. K. Cooney. Re16,562; Mar. 1.
- Butter and the like, Mold box for. C. F. Miller. 1,643,508; Sept. 27.
- Butter cream, Treating. G. A. Gray and M. B. Newbarger. 1,643,501; Sept. 27.
- Butter cutter. A. Slater. 1,652,185; Dec. 13.
- Butter-cutting device. H. S. Lanoue. 1,647,098; Oct. 25.
- Butter-fat-reading machine. D. W. Sutherland, jr. 1,643,426; Sept. 27.
- Butter fats, etc., Separating. L. Johnson. 1,651,028; Nov. 29.
- Butter-making apparatus. C. H. Haggood. 1,650,625; Nov. 29.
- Butter, Manufacture of. S. Karpinsky and J. S. Anderson. 1,644,254; Oct. 4.
- Butter mold. A. Aronson. 1,621,822; Mar. 22.
- Butter mold. J. Greener. 1,639,937; Aug. 23.
- Buttocks elevator. A. E. Carlson. 1,650,261; Nov. 22.
- Button. W. T. Abel. 1,635,774; July 12.
- Button. F. J. Arnold. Des. 74,132; Dec. 27.
- Button. G. W. Blank. 1,649,765; Nov. 15.
- Button. J. L. Clark. Des. 72,547; May 3.
- Button. H. Herman. 1,644,475; Oct. 4.
- Button. J. H. Herman and G. W. Jones. 1,643,010; Sept. 20.
- Button. W. W. Hobe. Des. 71,971-2; Feb. 8.
- Button. W. W. Hobe. Des. 73,130; July 26.
- Button. M. Lind and W. C. Lind. 1,623,847; Apr. 5.
- Button. J. A. Meyer. 1,618,719; Feb. 22.
- Button and fastener therefor. H. R. Lichtenstein. 1,619,800; Mar. 1.
- Button anchor. F. Spick. 1,644,206; Oct. 4.
- Button-applying implement. B. D. Gilliam. 1,636,052; July 19.
- Button-assembling dies. M. Menkin. 1,648,495; Nov. 8.
- Button-attaching machine. F. N. Ross. 1,653,065; Dec. 20.
- Button-blank-facing machine. N. Barry. 1,646,132; Oct. 13.
- Button blanks, Machine for making pearl. H. H. Knott. 1,653,294; Dec. 20.
- Button clamp. R. L. Lyons. 1,645,537; Oct. 18.
- Button, Collar. E. F. Coates. 1,619,706; Mar. 1.
- Button, Collar. H. Horwitz. 1,617,252; Feb. 8.
- Button, Collar. S. Kaufman. Des. 71,995; Feb. 8.
- Button, Collar. F. M. McDermott. 1,653,721; Dec. 27.
- Button, Collar. W. Thompson. 1,648,033; Nov. 8.
- Button, Cuff. G. W. Brown. 1,631,912; June 7.
- Button, Cuff. J. A. Williams. 1,621,570; Mar. 22.
- Button, Detachable metal. W. F. Kaynor. 1,626,582; Apr. 26.
- Button fastener. A. L. Gross. 1,635,755; July 12.
- Button fastening. J. M. Clark. 1,646,053; Oct. 18.
- Button, Flexible. A. D. Winslow. 1,618,398; Feb. 22.
- Button, Frolic. C. T. Hathaway. Des. 72,517; Apr. 26.
- Buttonhole attachment. J. A. Guy. 1,619,613; Mar. 1.
- Buttonhole shield. R. J. and P. J. O'Brien. 1,643,170; Sept. 20.
- Buttonholes, Forming stitched. H. C. Miller. 1,640,283; Aug. 23.
- Buttonholes, Machine for cutting. J. Siarkowski. 1,633,196; June 21.
- Button, Horn. R. K. Winning. 1,648,523; Nov. 8.
- Button, Identification. J. A. Mahank. 1,630,855; May 31.
- Button loop. C. E. Anderson. 1,628,638; May 17.
- Button-making machine. H. Isrlinghaus. 1,629,214; May 17.
- Button-making machine. C. O. Stohlgren. 1,641,462; Sept. 6.
- Button, Push. H. E. Hill. 1,614,887; Jan. 18.
- Button, Rubber. C. A. Rehor. 1,619,541; Mar. 1.
- Button, Separable. J. V. Pilcher. 1,626,296; Apr. 26.
- Button, Separable cuff. M. O. Nobbe. 1,628,735; May 17.
- Button, Slide. P. E. Fenton. 1,654,479; Dec. 27.
- Button, Street. F. M. Furey. 1,647,861; Nov. 1.
- Buttons, Device for polishing. M. J. Davis. 1,618,518; Feb. 22.
- Buttons, Machine for making. L. H. Bean. 1,619,233; Mar. 1.
- Buttons, Machine for the manufacturing of. J. A. Bladh. 1,632,642; June 14.
- Buttons, Sewing on. C. T. A. Sibbald and J. B. Ransom. 1,633,614; June 28.
- Buttons to cards, Attaching. A. Haenicke. 1,626,337; Apr. 26.
- Butyl allyl barbituric acid, Secondary. A. W. Dox. 1,615,870; Feb. 1.
- Cab-supporting structure. G. M. Eaton. 1,654,324; Dec. 27.
- Cab underframe, Electric-locomotive. W. M. Sheehan. 1,640,054; Aug. 23.
- Cabin for light-producing device. A. Vallat. 1,652,590; Dec. 13.
- Cabinet. O. B. Bach. Des. 73,552; Oct. 4.
- Cabinet. C. E. Campbell. 1,631,713; June 7.
- Cabinet. M. Dumont. 1,636,738; July 26.
- Cabinet. T. A. Edison. 1,644,670; Oct. 11.
- Cabinet. C. T. Fisher. 1,641,259; Sept. 6.
- Cabinet. W. E. Hinson. 1,631,202; June 7.
- Cabinet. S. I. Marks. 1,617,452; Feb. 15.
- Cabinet. Z. P. Pietrzycki. 1,619,312; Mar. 1.
- Cabinet. T. J. Pilliod. 1,639,864; Aug. 23.
- Cabinet and table, Combined. C. W. Sanders. 1,613,294; Jan. 4.
- Cabinet and treating matrices, Matrix-drying. R. W. Bundy. 1,649,647; Nov. 15.
- Cabinet, Bath. T. R. Thurston. 1,643,528; Sept. 27.
- Cabinet, Cigar-lighter. R. H. Gibson. Des. 73,516; Sept. 27.
- Cabinet, Cigarette display and dispensing. J. G. Allen. 1,624,883; Apr. 12.
- Cabinet, Commodity. J. H. Boye. 1,645,218; Oct. 11.
- Cabinet, Composing-room. W. Stephens. 1,630,678; May 31.
- Cabinet construction, Sheet-metal. L. S. Chadwick. 1,613,817; Jan. 11.
- Cabinet construction and building the same. L. G. Cope-man. 1,644,988; Oct. 11.
- Cabinet, Dining. E. T. E. and E. G. Mangels. 1,639,141; Aug. 16.
- Cabinet, Dispensing. R. C. Courtis. 1,621,971; Mar. 22.
- Cabinet, Dispensing. M. Howells. 1,613,514; Jan. 4.
- Cabinet, Dispensing. H. W. Krueger. 1,632,446; June 14.
- Cabinet, Display. W. J. McKee. 1,650,845; Nov. 29.
- Cabinet, Display. L. E. Payne. 1,613,529; Jan. 4.
- Cabinet, Display. M. J. Tobias. 1,647,485; Nov. 1.
- Cabinet, Display and storage. W. H. Brooks. 1,643,738; Sept. 27.
- Cabinet, Drying. C. C. Moore. 1,652,830; Dec. 13.
- Cabinet, Filing. F. J. Dunn. 1,628,128; May 10.
- Cabinet, Filing. C. F. McKee. 1,651,829; Dec. 6.
- Cabinet, Filing. B. G. Rand. 1,619,761; Mar. 1.
- Cabinet, Filing. C. Swoboda. 1,650,663; Nov. 29.
- Cabinet for arc lamps. J. H. Wagenhorst. 1,641,308; Sept. 6.
- Cabinet for displaying and dispensing merchandise. C. F. Haunz. Des. 72,257; Mar. 22.
- Cabinet for electrical apparatus, Sectional. H. L. Van Valkenburg. 1,620,047; Mar. 8.
- Cabinet for projecting apparatus. L. A. Stegemann. 1,653,743; Dec. 27.
- Cabinet for radio receiving apparatus. E. S. Pridham and P. L. Jensen. Des. 72,869; June 14.
- Cabinet for soda fountains, Cooler. T. De Stefani. 1,651,782; Dec. 6.
- Cabinet for soda fountains, Cooler. T. De Stefani. 1,651,873; Dec. 6.
- Cabinet for sound-reproducing mechanism. C. H. Cowan. Des. 72,087-9; Mar. 1.
- Cabinet for sound-reproducing mechanism. A. C. Mowitz. Des. 72,106; Mar. 1.
- Cabinet for type. P. C. Muse. 1,645,445; Oct. 11.
- Cabinet, Ice-cream. J. Goldsmith. 1,619,611; Mar. 1.
- Cabinet, Ice-cream. J. C. Watkins. 1,630,682; May 31.
- Cabinet, Ice-cream service. W. H. Watts. 1,618,836; Feb. 15.
- Cabinet, Ironing-board. W. L. Williams. 1,632,939; June 21.
- Cabinet, Kitchen. E. Burke. 1,621,491; Mar. 22.
- Cabinet, Kitchen. P. Crowe. Des. 74,048; Dec. 13.
- Cabinet, Kitchen. W. G. Himmelwright. 1,618,126; Feb. 15.
- Cabinet, Kitchen. M. P. Leeds. 1,645,652; Oct. 18.
- Cabinet, Loud-speaker. M. C. Ryplinski. Des. 72,111-13; Mar. 1.
- Cabinet, Merchandise. R. C. Walsh. 1,631,844; June 7.
- Cabinet, Merchandise delivery. S. Esagro. 1,645,694; Oct. 18.
- Cabinet, Paper-cutting. I. R. Sunday. 1,631,776; June 7.
- Cabinet, Photograph. A. Hudson. Des. 73,229; Aug. 9.
- Cabinet, Photograph. J. Wolff. Des. 73,273; Aug. 16.
- Cabinet player. T. F. Check. 1,626,327; Apr. 26.
- Cabinet, Portable. C. Bateholts. Des. 72,663; May 17.

- Cabinet, Portable bath. E. C. Benson. 1,646,521; Oct. 25.
- Cabinet, Portable wall. R. P. King. 1,645,058; Oct. 11.
- Cabinet, Power. G. F. Rohm. 1,642,698; Sept. 20.
- Cabinet, Razor. S. D. Baker. Des. 73,954; Nov. 29.
- Cabinet, Record. P. Travaglini. 1,650,161; Nov. 22.
- Cabinet, Refrigerating. M. Shore. Des. 73,106; July 19.
- Cabinet, Sales-display. J. Sorenson. 1,642,466; Sept. 13.
- Cabinet, Secret. L. Knaster. 1,618,933; Feb. 22.
- Cabinet, Service. H. A. Smith. 1,639,904; Aug. 23.
- Cabinet, Sewing. P. Christiansson. Des. 74,002; Dec. 6.
- Cabinet, Shoe. H. F. Ensrud. 1,649,061; Nov. 15.
- Cabinet, Shoe-shining. J. P. Dunn. 1,624,480; Apr. 12.
- Cabinet, Shoe-shining. W. B. Johnson. 1,621,737; Mar. 22.
- Cabinet, Slug-dispensing. R. Maxwell. 1,648,774; Nov. 8.
- Cabinet, Sun and air bath. A. and J. A. Coleman. 1,617,435; Feb. 15.
- Cabinet, table and desk, Combination. M. Weinstein. 1,652,465; Dec. 13.
- Cabinet, Theatrical-make-up. E. C. Maillard. 1,651,898; Dec. 6.
- Cabinet, Ticket. E. Axberg. 1,632,265; June 14.
- Cabinet, Tool. H. S. Kuhn. 1,625,945; Apr. 26.
- Cabinet, Toothbrush. R. H. Gindick. 1,625,202; Apr. 19.
- Cabinet, Towel. K. M. Leute. 1,622,226; Mar. 22.
- Cabinet, Towel. F. M. Steiner and G. Olson. 1,636,155; July 19.
- Cabinet, Towel. G. A. Steiner. 1,643,096; Sept. 20.
- Cabinet, Towel. G. A. Steiner and G. Olson. 1,643,095; Sept. 20.
- Cabinet, Treasury-note. A. Warren and S. N. Solomon. 1,624,772; Apr. 12.
- Cabinet, Wall. J. A. Hoegger. 1,646,200; Oct. 18.
- Cabinets, Attachment for towel. G. A. Steiner. 1,621,690; Mar. 22.
- Cabinets, Corner construction for. H. M. Gurisch. 1,644,519; Oct. 4.
- Cabinets, Garment-suspension fitting for clothing. E. H. Plato. 1,619,460; Feb. 22.
- Cable. F. Oberst. 1,653,728; Dec. 27.
- Cable and trolley clamp. L. Johnston. 1,625,366; Apr. 19.
- Cable, Armored. A. O. Hoeffmann. 1,636,606; July 19.
- Cable bender. V. B. Pike. 1,640,426; Aug. 30.
- Cable block. P. Ramsey. 1,625,910; Apr. 26.
- Cable-block system. C. J. Siefarth. 1,641,295; Sept. 6.
- Cable brake. W. F. Hollingsworth. 1,622,785; Mar. 29.
- Cable carrier. A. M. Seger. 1,622,741; Mar. 29.
- Cable clamp. J. J. Usher. 1,653,747; Dec. 27.
- Cable clamp and bridle ring. J. Karitzky. 1,623,792; Apr. 6.
- Cable clamp and bridle ring. C. H. Klein. 1,625,897; Apr. 26.
- Cable-clamping device for guard rails. J. C. Nevius. 1,651,833; Dec. 6.
- Cable connector. L. H. Church. 1,644,305; Oct. 4.
- Cable connector. L. H. Church. 1,644,308; Oct. 4.
- Cable connector. A. P. Davis and S. N. Buchanan. 1,644,311; Oct. 4.
- Cable connector. J. C. Ledbetter. 1,644,294; Oct. 4.
- Cable connector. J. C. Ledbetter. 1,644,298; Oct. 4.
- Cable connector. J. C. Ledbetter. 1,644,300-302; Oct. 4.
- Cable connector. J. C. Ledbetter. 1,644,306-7; Oct. 4.
- Cable connector. A. McMurtrie. 1,644,299; Oct. 4.
- Cable connector. H. L. Strongson. 1,644,301; Oct. 4.
- Cable connector. H. L. Strongson. 1,644,310; Oct. 4.
- Cable connector. G. C. Thomas, jr. 1,644,292-3; Oct. 4.
- Cable connector. G. C. Thomas, jr. 1,644,295-7; Oct. 4.
- Cable connector. G. C. Thomas, jr. 1,644,303-4; Oct. 4.
- Cable connector. G. C. Thomas, jr. 1,644,312-13; Oct. 4.
- Cable connector. G. C. Thomas, jr. and L. H. Church. 1,644,309; Oct. 4.
- Cable construction. W. E. Mathis. 1,652,249; Dec. 13.
- Cable coupler. G. Oliver. 1,646,489; Oct. 25.
- Cable coupling, Electric. J. L. Blevins. 1,622,940; Mar. 29.
- Cable, Electric. S. C. Cawthon. 1,648,443; Nov. 8.
- Cable, Electric. H. W. Fisher. 1,648,641; Nov. 8.
- Cable equalizer. E. F. Kieckhefer. 1,632,083; June 14.
- Cable, Flexible. C. R. Boggs. 1,654,508; Dec. 27.
- Cable guard. I. E. Quist. 1,637,241; July 26.
- Cable guide. J. A. Le Blanc. 1,635,944; July 12.
- Cable book. J. P. Ratigan. 1,625,155; Apr. 19.
- Cable insulation, Submarine. A. R. Kemp. 1,645,758; Oct. 18.
- Cable joint. N. E. Buck, D. W. Roper, and A. P. Thoms. 1,613,740; Jan. 11.
- Cable joint. A. O. Hoeffmann. 1,647,699; Nov. 1.
- Cable joint. D. M. Simons. 1,628,438; May 10.
- Cable joint. D. M. Simons. 1,642,514; Sept. 13.
- Cable joint and installation, High potential. E. D. Eby. 1,652,893; Dec. 13.
- Cable joint and making the same, High-tension. L. E. Emannell. 1,653,895; Dec. 27.
- Cable-joint structure. D. M. Simons. 1,642,515; Sept. 13.
- Cable machine, Tubular-armoring. S. W. Bourn. 1,615,502; Jan. 25.
- Cable-multiplying system, Bank and trunk. H. B. McVey. 1,638,118; June 21.
- Cable-operated converter. L. Roan. 1,620,785; Mar. 15.
- Cable or wire clamp. J. F. Haworth. 1,622,109-10; Mar. 22.
- Cable or wire clamp. J. F. Haworth. 1,644,375-6; Oct. 4.
- Cable puller. R. B. Billings and J. E. O'Toole. 1,653,693; Dec. 27.
- Cable reel. C. O. Schooley. 1,625,503; Apr. 19.
- Cable-retaining shroud. E. W. McSheen. 1,646,207; Oct. 18.
- Cable splice. H. Prince. 1,646,660; Oct. 25.
- Cable splicer. H. Yates. 1,630,860; May 31.
- Cable splicing. L. S. Burgett. 1,642,484; Sept. 13.
- Cable squeezer. H. D. Robinson. 1,642,508; Sept. 13.
- Cable support. A. W. Gotthard. 1,630,423; May 31.
- Cable-supporting clamp. H. Hinzner. 1,642,243; Sept. 13.
- Cable system. C. J. Siefarth. 1,617,351; Feb. 15.
- Cable-threading apparatus. W. J. Buell. 1,616,410; Feb. 15.
- Cable tools and the like, Expansive drill bit for. J. P. Miller. 1,637,268; July 26.
- Cable-winding mechanism. R. H. Beaumont. 1,649,279; Nov. 15.
- Cables and flexible conduits, Device for pulling. D. H. Garber. 1,653,267; Dec. 20.
- Cables, Construction of. H. W. Fisher and R. W. Atkinson. 1,651,590; Dec. 6.
- Cables from kinking at the point where they merge from junction boxes or casings, Protecting. G. Zapf. 1,640,744; Aug. 30.
- Cables, Hanger clamp for stranded. A. Wichert. 1,643,707; Sept. 20.
- Cables, Header bracket for ignition. B. M. Smarr. 1,619,991; Mar. 8.
- Cables loaded with alloys of high-magnetic permeability, Manufacture of. W. S. Smith and H. J. Garnett. 1,635,443; July 12.
- Cables, Machine for armoring. M. Katcher. 1,618,437; Feb. 22.
- Cables, Making fireproof electric insulated. C. B. Backer. 1,650,972; Nov. 29.
- Cables, Method of and apparatus for protecting aerial. T. Varney. 1,639,820; Aug. 23.
- Cables, Splice head for electric. A. C. Rumble. 1,647,251; Nov. 1.
- Cables, Terminal building for oil-filled. D. M. Simons. 1,613,910; Jan. 11.
- Cables through pipe lines, Device for passing. J. M. and W. H. Thompson. 1,620,788; Mar. 15.
- Cables to battery terminals, Device for attaching. R. L. Dennis. 1,650,064; Nov. 22.
- Cactus burner. J. B. Blackwell. 1,625,702; Apr. 19.
- Caddie. G. E. W. De Clercq. 1,649,452; Nov. 15.
- Cadmium, Purifying. H. Howard. 1,644,431; Oct. 4.
- Cage, Bird. A. R. Dayau. 1,652,096; Dec. 6.
- Cage, Bird. A. M. Krocze. 1,653,637; Dec. 27.
- Cage, Bird. L. J. Leon. 1,629,717; May 24.
- Cage bottom, Bird-. H. Zimmermann. 1,651,982; Dec. 6.
- Cage, Cashier's. J. C. McCormack. 1,621,124; Mar. 15.
- Cage for dog racing and the like, Starting. O. P. Smith. 1,630,811; May 31.
- Cage-locking means. S. J. Reap. 1,624,759; Apr. 12.
- Cage, Queen-bee shipping and introducing. R. C. Marks. 1,652,539; Dec. 13.
- Caisson, Apparatus and method of constructing and sinking. A. J. R. Freeman. 1,630,337; May 31.
- Cake box. F. Korn. 1,619,423; Mar. 1.
- Cake-icing machine. J. W. Cates. 1,618,053; Feb. 15.
- Cake pan. N. R. Fulkerson. 1,624,941; Apr. 19.
- Cake pan. M. A. Guyer. 1,645,235; Oct. 11.
- Cake stand and like portable stand. E. S. Louis. 1,628,504; May 10.
- Cake support. J. M. Gowans. 1,619,818; Mar. 8.
- Cakes, Apparatus for forming. J. Peguero. 1,621,896; Mar. 22.
- Cakes, Device for icing. H. Carter. 1,627,630; May 10.
- Calcine from roaster furnaces and charging same into reverberatory furnaces, Apparatus for transporting. A. G. McGregor. Reib. 685; July 19.
- Calcium arsenate, Producing. H. K. Moore. 1,619,267; Mar. 1.
- Calcium arsenate products and making the same. W. J. Lister. 1,626,942; May 3.
- Calcium carbonate and producing the same, Colloidal. T. Shiraishi. 1,654,099; Dec. 27.
- Calcium carbonate, Manufacture of precipitated. B. G. Wood. 1,641,563; Sept. 6.
- Calcium cyanamid, Treating. G. Barsky. 1,618,047; Feb. 15.
- Calcium cyanamide and deodorizing the same, Removing the gas from. J. Breslau. 1,619,185; Mar. 1.
- Calcium cyanide, Preparation of. R. W. Poindexter. 1,652,874; Dec. 13.
- Calcium preparation. H. A. Shonle. 1,649,000; Nov. 15.
- Calcium salts of inositol phosphoric acid, Manufacture of. A. Gams and M. Girard. 1,644,246; Oct. 4.
- Calcium salts of inositol phosphoric acid, Manufacture of. A. Gams and M. Girard. 1,645,233; Oct. 21.
- Calcium-sugar preparation. F. Van Scoyoc. H. L. Wehrbein and H. A. Shonle. 1,649,270; Nov. 15.
- Calcium-sugar preparation and method of treatment. G. Van Scoyoc and H. L. Wehrbein. 1,649,269; Nov. 15.
- Calculating and adding machines, Key mechanism for. A. Kottmann. 1,633,253; June 21.
- Calculating and recording machine. W. W. Landsiedel. 1,624,105; Apr. 12.
- Calculating apparatus. O. C. F. King. 1,645,009; Oct. 11.

- Calculating apparatus particularly for use in the laying of
of dance, Tabular. W. F. Grotendorst. 1,615,510; Jan. 25.
- Calculating device. L. H. Hempleman. 1,637,222; July 26.
- Calculating device. T. J. Smulski. 1,621,609; Mar. 22.
- Calculating device. J. E. Wright. 1,613,497; Jan. 4.
- Calculating machine. J. H. Barr. 1,644,504; Oct. 4.
- Calculating machine. R. Berk. 1,641,615; Sept. 6.
- Calculating machine. H. A. Bowers. 1,634,485; July 5.
- Calculating machine. C. E. Broman. 1,639,923; Aug. 23.
- Calculating machine. C. M. F. Friden. 1,634,990; July 5.
- Calculating machine. C. M. F. Friden. 1,640,493; Aug. 30.
- Calculating machine. C. M. F. Friden. 1,643,710; Sept. 27.
- Calculating machine. C. M. F. Friden. 1,651,882; Dec. 6.
- Calculating machine. H. Hoffmeister. 1,631,033; May 31.
- Calculating machine. H. Hoffmeister. 1,635,125; July 5.
- Calculating machine. W. Jenny. 1,653,462; Dec. 20.
- Calculating machine. C. L. Johnston. 1,628,154; May 10.
- Calculating machine. W. W. Landsiedel. 1,649,478; Nov. 15.
- Calculating machine. E. C. Schinke. 1,644,897; Oct. 11.
- Calculating machine. C. H. Stulvenberg. 1,640,381; Aug. 30.
- Calculating machine. J. C. Wahl. 1,648,667; Nov. 8.
- Calculating machines, Carrying-over mechanism for. F. W. Barkley. 1,622,563; Mar. 29.
- Calculating machines, Control mechanism for. J. H. F. Silver. 1,636,718; July 26.
- Calculating machines, Coupling device for. A. Kottmann. 1,637,827; Aug. 2.
- Calculating machines, Overrotating check for. F. W. Barkley. 1,622,564; Mar. 29.
- Calculating machines, Resetting mechanism for. O. Wernicke. 1,654,441; Dec. 27.
- Calculating machines, Transfer mechanism for. G. B. Petter. 1,615,033; Jan. 18.
- Calculating mechanism. J. Bergmann. 1,649,379; Nov. 15.
- Calculator. V. Karapetoff. 1,648,733; Nov. 8.
- Calculator. M. L. Pike. 1,653,655; Dec. 20.
- Calculator. J. T. Redding. 1,615,883; Feb. 1.
- Calculator. J. E. Wright. 1,619,230; Mar. 1.
- Calculator, Check. C. T. Raschick. 1,621,686; Mar. 22.
- Calculator, Slope-stake. W. D. Starrett. 1,635,646; July 12.
- Calendar. H. G. Peterson. 1,613,769; Jan. 11.
- Calendar. H. E. Shedd. 1,616,005; Feb. 1.
- Calendar. F. J. Vierling and W. E. Cook. 1,617,731; Feb. 15.
- Calendar. W. A. Whitney. 1,648,093; Nov. 8.
- Calendar and card-index tray or file, Combination desk. J. B. Ormond. 1,641,000; Sept. 6.
- Calendar, Desk. W. Esau. 1,632,393; June 14.
- Calendar, Perpetual. A. L. Curtis. 1,635,927; July 12.
- Calendar, Perpetual. W. C. Hering. 1,621,067; Mar. 15.
- Calendar rack. F. M. Morton. 1,627,988; May 10.
- Calendars, Tension apparatus for. C. A. Myers. 1,614,463; Jan. 11.
- Calendar. T. Midgley. 1,615,475; Jan. 25.
- Calendering machines, Doctor-operating mechanism for. J. A. Frossard and G. Lamoureux. 1,644,917; Oct. 11.
- Calendering machines, Roller for. G. L. Doerr. 1,644,819; Oct. 11.
- Calendering or ironing machine. B. J. Dykes. 1,640,491; Aug. 30.
- Calenders, Attachment for. N. R. Goodwin. 1,633,249; June 21.
- Calenders, Cutting device for. A. E. Richey. 1,651,837; Dec. 6.
- Calenders, Pressure-relieving means for hydraulic. C. Schutter. 1,637,252; July 26.
- Calenders, Safety device for. A. H. Peglow. 1,646,980; Oct. 25.
- Calif and ankle grip. C. A. Pope. 1,638,704; Aug. 9.
- Calif weaner. E. R. Davis. 1,636,047; July 19.
- Calif weaner. G. M. Krauss. 1,628,090; Apr. 26.
- Calif weaner. R. G. Saville. 1,650,962; Nov. 29.
- Calibrating device for gauge sticks. W. C. Murtaugh. 1,619,363; Mar. 1.
- Caliper. H. Coullery. 1,634,019; June 28.
- Caliper. J. Cullell. 1,621,526; Mar. 22.
- Caliper. A. Haglund. 1,621,778; Mar. 22.
- Caliper and divider, Combined. U. G. Sweeney. 1,633,875; June 23.
- Caliper gauge. W. Ames. 1,617,284; Feb. 8.
- Caliper, Internal micrometer. P. J. Darlington. 1,633,807; June 28.
- Caliper, Micrometer. P. J. Darlington. 1,629,480; May 24.
- Caliper, Micrometer. P. J. Darlington. 1,652,854; Dec. 13.
- Calipers. A. A. Coyle. 1,617,669; Feb. 15.
- Calipers. B. B. Garrett. 1,654,459; Dec. 27.
- Calipers. H. A. St. John and J. F. Griffin. 1,631,896; June 7.
- Calipers. J. Stuart. 1,635,908; July 12.
- Calipers. G. S. Wettrich. 1,641,067; Oct. 11.
- Calipers, Centering. F. Walther. 1,630,505; May 31.
- Calipers, Direct-reading outside and inside. J. L. Avery. 1,650,928; Nov. 29.
- Calipers, Micrometer. P. J. Darlington. 1,631,019; May 31.
- Calipers, Micrometer. R. J. O. Simpson. 1,625,767; Apr. 19.
- Calking machine. H. A. Pedrick. 1,632,559; June 14.
- Calking, Routing system. W. T. Powell. 1,625,624; Apr. 19.
- Call indicator. E. C. Mueller, Jr., and S. T. Curran. 1,632,093; June 14.
- Call selector. L. L. E. Chaveau. 1,628,653; May 17.
- Calling device. H. P. Obergelt. 1,642,822; Sept. 20.
- Calorimeter. E. G. Borden. 1,623,299; Apr. 5.
- Calorimeter and measuring heat. W. Falkenberg. 1,616,312; Feb. 1.
- Cam device. W. M. Densmore. 1,620,445; Mar. 8.
- Cam for fertilizer distributors and the like, Variable. E. C. Litchfield, V. Speer, and C. C. Hermann. 1,613,178; Jan. 4.
- Cam, motor, Duplex. H. A. Nordwick. 1,630,273; May 31.
- Cam shaft. R. A. Midgley. 1,651,402; Dec. 6.
- Cam-shaft comparator. C. L. Goodrich. 1,652,435; Dec. 13.
- Cam-shaft control. H. M. Fey. 1,632,223; June 14.
- Cam-shaft machine. W. Henderson. 1,631,814; June 7.
- Cam-shaft machine. W. Henderson. 1,632,793; June 21.
- Camera. H. T. Brady, D. A. Benway, and W. E. Van Ness. 1,616,301; Feb. 1.
- Camera. J. K. Broderick. 1,651,369; Dec. 6.
- Camera. F. X. A. Duhamel. 1,623,534; Apr. 5.
- Camera. S. M. Fairchild. 1,619,108; Mar. 1.
- Camera, Aerial. S. M. Fairchild. 1,612,860; Jan. 4.
- Camera and display apparatus, Combination motion-picture. R. Knopp. 1,624,103; Apr. 12.
- Camera and picture-projecting machine, Motion-picture. C. E. Whitman. 1,649,331; Nov. 15.
- Camera and projector, Combined. J. M. Reyes. 1,647,814; Nov. 1.
- Camera and projector, Moving-picture. F. E. Oller. 1,621,024; Mar. 15.
- Camera and the like, Motion-picture. A. S. Howell. 1,620,726; Mar. 15.
- Camera and tripod fastener. B. L. Dickinson. 1,647,986; Nov. 8.
- Camera attachment. A. G. Atchison. 1,632,690; June 14.
- Camera, Automatic roll-film. F. H. Hadfield. 1,637,414; Aug. 2.
- Camera, Automatically focusing. R. S. Hopkins. 1,623,538; Apr. 5.
- Camera, Aviation. G. H. Ohlau. 1,645,923; Oct. 18.
- Camera, Card. W. L. Fish. 1,626,606; May 8.
- Camera casing. N. F. Lehr. Drs. 73,750; Nov. 1.
- Camera, Collapsible. G. Washington. 1,631,293; June 7.
- Camera construction, Photographic. E. E. Underwood. 1,620,304; Mar. 8.
- Camera, Copy for the photo-engraver, Producing. B. F. Hochison. 1,614,924; Jan. 18.
- Camera, Copying. R. R. Robertson. 1,612,987; Jan. 4.
- Camera front catch. L. W. Lessler. 1,637,225; July 26.
- Camera-lens focusing appliance. L. F. Deming. 1,640,694; Aug. 30.
- Camera. Photographic. C. C. Balston. 1,627,722; May 10.
- Camera. Photographic. N. B. Cregier. 1,633,378; June 21.
- Camera, Photographic. A. S. Howell. 1,620,727; Mar. 15.
- Camera, Photographic. R. Kroedel. 1,651,460; Dec. 6.
- Camera, Photographic. J. Mihalyi. 1,642,935; Sept. 20.
- Camera, Photographic. P. T. Powers. 1,617,050; Feb. 8.
- Camera, Photographic. W. E. Ross. 1,622,925; Mar. 29.
- Camera, Photomicrographic. F. F. Lucas. 1,625,952; Apr. 26.
- Camera, Roll-holding. A. W. Caps. 1,651,441; Dec. 6.
- Camera, Stantant. M. R. Pierce. 1,653,885; Dec. 20.
- Camera-supporting means. H. O. Langley. 1,629,579; May 24.
- Cameras, Actuating device for wire-push-release. J. L. Lomax. 1,621,551; Mar. 22.
- Cameras, All-metal telescopic box for. A. H. Gaebel. 1,642,651; Sept. 13.
- Cameras and other instruments, Support for moving picture. G. E. Meyers. 1,618,773; Feb. 22.
- Cameras and producing same, Decorative covering for. E. E. Underwood. 1,613,365; Jan. 4.
- Cameras and the like, Focusing instrument for. G. A. Mitchell. 1,637,529; Aug. 2.
- Cameras and the like, Movement mechanism for. G. A. Mitchell. 1,648,559; Nov. 8.
- Cameras, cinematograph projectors, and similar apparatus, Optical system for. J. E. Thornton. 1,654,391; Dec. 27.
- Cameras, Cut-film adapter for. O. Wittel. 1,648,525; Nov. 8.
- Cameras, Film-winding mechanism for. L. W. Lessler and C. A. Bornmann. 1,642,818; Sept. 20.
- Cameras, Film-winding spool for. G. Washington. 1,631,302; June 7.
- Cameras, Finding and focusing device for. G. Washington. 1,631,303; June 7.
- Cameras, Focusing device for. G. Washington. 1,631,299; June 7.

- Cameras, Focusing indicator for. C. Bornmann. 1,637,213; July 26.
- Cameras, Focusing mechanism for. R. Kroedel and C. F. Speidel. 1,621,935; Mar. 22.
- Cameras, Focusing mechanism for. E. E. Underwood. 1,651,743; Dec. 6.
- Cameras, Focusing mechanism for photographic. B. Kroedel. 1,613,353; Jan. 4.
- Cameras, Leveling attachment for. M. Sturm, jr. 1,618,237; Feb. 22.
- Cameras, Light-modifying device for. J. Tessier. 1,613,363; Jan. 4.
- Cameras, Panoraming device for photographic. A. S. Biowell. 1,633,101; June 21.
- Cameras, Photographic. G. Washington. 1,631,301; June 7.
- Cameras, Pistol grip for. W. F. Rossiter. 1,621,903; Mar. 22.
- Cameras, Plate carrier for multicolor. G. Lundberg. 1,624,959; Apr. 19.
- Cameras, Roll-film holder for. E. J. Prindle. 1,618,387; Feb. 22.
- Cameras, Shutter control for. R. W. Smith. 1,631,435; June 7.
- Cameras, Shutter mechanism for. G. Washington. 1,631,300; June 7.
- Cameras, Spool holder for. J. Christie. 1,645,894; Oct. 18.
- Cameras, Telescopic attachment for hand. A. Warmisham. 1,651,493; Dec. 6.
- Cameras, Viewing device for. G. A. Mitchell. 1,646,829; Oct. 25.
- Cameras, Visible registering device for. B. Schade. 1,620,040; Mar. 8.
- Camp box and bench, Combined. J. I. Smith. 1,628,072; May 10.
- Camp-stove burner. S. Nathan. 1,640,148; Nov. 22.
- Camp table. L. O. Mason. 1,626,293; Apr. 22.
- Campers' apartment. L. K. Stewart. 1,644,406; Oct. 4.
- Campers' back rest. E. W. Johnson. 1,647,297; Nov. 1.
- Camping outfit, Adjustable trunk-rack. T. J. Long and J. L. Tuttle. 1,633,820; June 28.
- Camphor and naphthalene contained in gaseous mixtures, Recovery of. J. H. Brégaud. 1,613,218; Jan. 4.
- Cannector by means of a liquid catalyst, Manufacture of synthetic. L. and E. Darrasse and L. Dupont. 1,641,579; Sept. 6.
- Can: See—
- Acid can.
 - Cracker can.
 - Dispensing can.
 - Food-preserving can.
 - Garbage can.
 - Ice can.
 - Interior-collar can.
 - Lever-top can.
 - Metal can.
 - Milk can.
 - Oil can.
 - Paper can.
 - Powder can.
 - Pressure oil can.
 - Rip-strip can.
 - Sanitary can.
 - Sanitary waste can.
 - Sifter-top can.
 - Tobacco can.
- Can. R. L. Drake. 1,617,992; Feb. 15.
- Can. L. Koll. 1,629,828; May 24.
- Can. J. H. Murch. 1,616,665; Feb. 8.
- Can. L. Rosenberg. 1,651,552; Dec. 6.
- Can. H. Seibel. 1,647,056; Oct. 25.
- Can. J. A. Stewart. 1,635,509; July 12.
- Can and bottle opener, Combination. J. L. Parsons. 1,648,881; Nov. 8.
- Can and method of forming. W. E. Burns. 1,615,930; Feb. 1.
- Can and opener Combined. G. A. Bardet and W. E. Burns. 1,642,478; Sept. 13.
- Can bodies, Forming flanges on. R. O. Wilson and A. D. Sumner. 1,622,558; Mar. 29.
- Can bodies, Method and apparatus for making. W. E. Taylor. 1,628,928; May 17.
- Can bodies, System of handling. P. H. Lange. 1,639,512; Aug. 16.
- Can body and forming the side seam thereof. C. Stollberg. 1,625,229; Apr. 19.
- Can-body assessor and piler. A. J. Kaufmann. 1,615,763; Jan. 25.
- Can-body blank. F. Rudolph. 1,642,174; Sept. 13.
- Can-body-making machine. W. Cameron. 1,624,213; June 12.
- Can-body-making machine. J. F. Peters. 1,625,091; Apr. 19.
- Can-body-making machine. J. F. Peters. 1,642,169; Sept. 13.
- Can-capping machine. H. L. Guenther. 1,633,250; June 21.
- Can-capping machine. R. E. J. Nordquist. 1,614,041; Jan. 11.
- Can caps or the like, Separating device for. N. Loesel. 1,625,262; Apr. 19.
- Can cleaning and drying apparatus. J. O'Connell and H. Kerr. 1,625,493; Apr. 19.
- Can-closing machine. J. M. Hothersall. 1,649,232; Nov. 15.
- Can-closing machine, Semiautomatic. F. Hunter. 1,639,945; Aug. 23.
- Can-closing machines, Feeding and spacing mechanism for. P. W. Pfeisler. 1,646,960; Oct. 25.
- Can-closing machines, Seaming head for. J. Coyle. 1,647,687; Nov. 1.
- Can closure. T. J. Lawley. 1,616,584; Feb. 8.
- Can closure. L. R. Morgan. 1,643,939; Oct. 11.
- Can closure, Outturned-edge. F. J. O'Brien. 1,623,808; Apr. 5.
- Can conveying, inverting, and discharging mechanism. C. F. McEwan. 1,649,073; Nov. 15.
- Can cover. W. E. Rooney. 1,643,958; Oct. 4.
- Can cover, Ash. C. Olson. 1,635,360; Aug. 9.
- Can cover, Ventilated milk. W. N. Snow. 1,625,287; Apr. 19.
- Can covers, Machine for fastening keys to. W. F. Butler. 1,635,536; July 12.
- Can covers, Seal for. R. Sorgan. 1,649,328; Nov. 15.
- Can-drying attachment. J. M. Hothersall. 1,645,005; Oct. 11.
- Can-end curling and stacking mechanism. W. Cameron. 1,640,979; Aug. 30.
- Can-end-lining machine. N. Troyer and M. L. Dodge. 1,639,118; Aug. 16.
- Can ends, Apparatus for and process of lining. S. N. Tevander. 1,614,023; Jan. 11.
- Can ends, Method of and machine for lining the flanges of. M. Hothersall. 1,634,500; July 5.
- Can exhauster. J. F. Anderson. 1,641,367; Sept. 6.
- Can feeder. A. R. Thompson. 1,621,611; Mar. 22.
- Can filler, Measuring. T. Shipley. 1,637,967; Aug. 2.
- Can-filling machine. C. H. Ayars. 1,621,864; Mar. 22.
- Can-filling machine. O. H. Hansen. 1,612,811; Jan. 4.
- Can grid. N. M. Small and L. Buchler, jr. 1,620,579; Mar. 8.
- Can-heading machine. W. B. Smith. 1,617,505; Feb. 15.
- Can holder. T. B. Cook. 1,638,681; Aug. 9.
- Can jacket, Ice-cream. R. C. Washburn. 1,639,418; Aug. 16.
- Can-label cutter. J. C. Thom. 1,614,578; Jan. 18.
- Can liners, Making and setting one-piece. A. Yancey. 1,638,386; Aug. 5.
- Can-making machines, Soldering-flux and cement applying device for. D. C. Hansen. 1,622,781; Mar. 29.
- Can opener. C. O. Applequist. 1,613,499; Jan. 4.
- Can opener. H. E. Asbury. 1,617,142; Feb. 8.
- Can opener. H. Bruneau. 1,641,961; Sept. 13.
- Can opener. R. T. Chase. 1,617,148; Feb. 8.
- Can opener. H. Falla. 1,634,493; July 5.
- Can opener. R. Hosking, jr. 1,617,253; Feb. 8.
- Can opener. W. D. Lamb. 1,639,193; Aug. 16.
- Can opener. L. J. Luntz. 1,650,842; Nov. 29.
- Can opener. D. Nachtigal. 1,618,304; Feb. 22.
- Can opener. A. W. Peterson. 1,636,735; July 23.
- Can opener. A. M. S. Schanning. 1,641,054; Aug. 30.
- Can opener. C. W. Thilmann. 1,635,649; July 12.
- Can opener and liquid preserver, Adjustable. S. Jensen. 1,636,821; July 26.
- Can opener of the nipper type. A. C. Schaefer. 1,626,062; Apr. 26.
- Can openers, Clamp for rotary. J. T. McGrath. 1,618,457; Feb. 22.
- Can openers, Clamping mechanism for. S. A. Davis. 1,629,482; May 24.
- Can opening and closing device. F. J. Streit. 1,632,519; June 14.
- Can or cartridge, Grease. F. D. Gatchell. 1,632,594; June 14.
- Can or receptacle. F. H. Gouffer. 1,642,009; Sept. 20.
- Can pairing and incasing machine. L. W. Dickey. 1,623,393; Apr. 5.
- Can polishing and scouring machine. W. W. Wadsworth. 1,638,006; Aug. 9.
- Can-printing machine. W. F. Hebrank. 1,638,850; Aug. 16.
- Can punch. J. Dowling. 1,612,910; Jan. 4.
- Can-puncturing device. J. A. Kraus. 1,640,505; Aug. 30.
- Can-seaming machine. R. W. Strout. 1,617,465; Feb. 15.
- Can spout. G. W. Lang. 1,641,003; Aug. 30.
- Can steamer. J. Cook. 1,626,452; Apr. 26.
- Can structure, Key-openings. W. E. Burns. 1,650,061; Nov. 22.
- Can tester. W. F. Butler. 1,649,287; Nov. 15.
- Can tester. H. E. Skoog. 1,640,911; Aug. 30.
- Can-testing machine. A. L. Kronquest. 1,640,242; Aug. 23.
- Can-testing machine. L. H. Peters. 1,648,060; Nov. 8.
- Can-testing machine, Automatic. J. H. O'Neil. 1,645,018; Oct. 11.
- Can-top remover. E. Van Leunen. 1,628,080; May 10.
- Can washer. D. A. Maamun. 1,620,116; Mar. 8.
- Can washer and steamer. B. E. Cramer. 1,626,516; Apr. 26.
- Can washer, Hot-water. O. K. Haugen. 1,620,654; Mar. 15.
- Can washer, Rotary. H. D. Lathrop. 1,653,219; Dec. 20.
- Can-washing machine. J. Wolfinger and R. D. Baker. 1,652,654; Dec. 13.
- Candis, production of. V. Brink. 1,632,946; June 21.
- Candlabar. S. Sifreth. 1,631,232; June 7.
- Candies, Cream depositor for hand-roll centers for. H. E. Hontz. 1,622,115; Mar. 22.
- Candy and toilet box, Combination. N. Leavy and A. H. Leavy. Des. 73,848; Nov. 15.
- Candy box. J. M. Cooper. 1,625,192; Apr. 19.
- Candy box. W. F. Frisbie. 1,635,456; Dec. 20.
- Candy box. J. Kidder. Des. 73,881-2; Aug. 30.
- Candy box. F. J. Schleicher. Des. 73,623; Oct. 11.
- Candy box or the like. C. A. Peirce. 1,636,387; July 19.
- Candy, Composite. H. S. Moore. 1,652,789; Dec. 13.

- Candy confection. H. A. Myers. Des. 72,777; May 31.
 Candy confection. O. Z. Pooler. Des. 72,275; Mar. 22.
 Candy confection and making case. W. S. Lord and O. C. Ashley. 1,613,231; Jan. 4.
 Candy-crystallizing machine. P. S. Henderson. 1,650,513; Nov. 22.
 Candy-dispensing box. J. M. Sheridan. 1,629,661; Dec. 24.
 Candy-forming machine. Z. M. Marr. 1,635,682; July 12.
 Candy-forming machine. T. and C. L. Werner. 1,652,228; Dec. 13.
 Candy jar. L. H. Shover. 1,621,283; Mar. 15.
 Candy jumping jack. W. W. Cassidy. 1,623,165; Apr. 5.
 Candy machine. A. F. Schmand. 1,621,956; Mar. 22.
 Candy machine, Automatic hard-. F. E. Zais. 1,649,868; Aug. 30.
 Candy, Making. W. B. Laskey. 1,628,251; May 10.
 Candy-making machine. R. S. Hislop. 1,635,713; July 12.
 Candy mixing and kneading machine. W. S. Weber and E. Snyder. 1,639,319; Aug. 18.
 Candy mold. E. Villaseñor. 1,647,944; Nov. 1.
 Candy or like box. C. A. Peirce. Des. 73,983; Nov. 29.
 Candy package. A. Olsen, Jr. 1,640,052; Aug. 23.
 Candle. A. E. Agnew. Des. 73,770-2; Nov. 8.
 Candle. S. Nicholson. Des. 73,861; Nov. 15.
 Candle and marking same. Ornamented. J. E. Brinker. 1,641,729; Sept. 6.
 Candle cap. J. Nist. Des. 71,848; Jan. 11.
 Candle, Electric. F. N. Boss. 1,623,716; Apr. 5.
 Candle holder and candle. R. W. Smith. 1,640,734; Aug. 30.
 Candy receptacles, Apparatus for cleaning. M. A. Flanery. 1,610,110; Mar. 1.
 Candle socket, Electric-. E. Herst. 1,649,228; Nov. 15.
 Candlestick. O. B. Bach. Des. 72,133-4; Mar. 8.
 Candlestick. O. B. Bach. Des. 73,468; Sept. 20.
 Candlestick. D. Fisher. Des. 71,909; Jan. 25.
 Candlestick. T. C. Helsey. Des. 74,012; Dec. 6.
 Candlestick. E. Magnussen. Des. 73,003; July 5.
 Candlestick. C. H. West. Des. 72,688; May 17.
 Candlestick, Combination. A. H. Jones. 1,645,193; Oct. 11.
 Candlestick or analogous article. P. Cricchio. Des. 73,068; July 19.
 Candlestick or similar article of manufacture. J. L. Drucklieb. Des. 74,103; Dec. 20.
 Candle support. E. L. Bearse. 1,647,898; Nov. 1.
 Candles, Making ornamental. J. B. Rhoads. 1,622,347; Mar. 29.
 Cane. R. Fleming. 1,624,591; Apr. 12.
 Cane. A. Soriente. Des. 73,948; Nov. 22.
 Cane and gun, Combined. B. B. Walker. 1,613,593; Jan. 4.
 Cane and sunshade, Combination. J. D. Davis. 1,618,065; Feb. 15.
 Cane juice, Preserving. A. K. Balls. 1,634,348; July 5.
 Cane-juice settlings, Treating. J. F. Borden. 1,653,491; Dec. 20.
 Cane stripper. J. S. Warren. 1,628,987; May 10.
 Cane, umbrella, or the like. W. Simek. 1,653,024; Dec. 20.
 Canes, Apparatus for inserting dry-cell cores into. H. A. Ring. 1,637,711; Aug. 2.
 Canister. See—Measuring canister.
 Canister or container for tea, coffee and the like. C. Tempest. 1,618,688; Feb. 22.
 Canning apparatus. A. K. Malmquist. 1,643,990; Oct. 4.
 Canning machine. C. H. Ayars. 1,614,056; Jan. 11.
 Canning process. T. M. Rector. 1,649,127; Nov. 15.
 Cannon powder. Flashless. F. I. and E. du Pont. 1,627,639; May 10.
 Canons, Device for firing. E. Bustamante. 1,620,994; Mar. 15.
 Canopy fixture. G. B. Thomas. 1,650,549; Nov. 22.
 Canopy fixture. G. B. Thomas. 1,652,066; Dec. 6.
 Canopy holder. V. P. Nelson. 1,625,673; Apr. 19.
 Canopy or tent. W. C. Baxter. 1,637,725; Aug. 2.
 Canopy Switch. H. Hubbell. 1,617,521; Feb. 15.
 Cans and containers, Method of and apparatus for pasting labels on noncircular. J. A. Cereghino. 1,653,495; Dec. 20.
 Cans and other receptacles, Apparatus for cleansing milk. I. H. Kendall. 1,644,384; Oct. 4.
 Cans, Apparatus for vacuumizing and sealing. A. E. Lindstrom. 1,626,291; Apr. 26.
 Cans, Apparatus for washing. L. E. Holmes. 1,651,208; Nov. 29.
 Cans, Apparatus for washing ice-cream. C. G. Davis. 1,625,300; Apr. 19.
 Cans, Closing machine for. H. A. Fink. 1,653,557; Dec. 20.
 Cans, Combination vent and closure for. C. W. Bassett. 1,618,694; Feb. 22.
 Cans, Device for lifting ice. M. J. Ulline. 1,639,788; Aug. 23.
 Cans, Device for punching and plugging. E. O. Burns. 1,641,571; Sept. 6.
 Cans, Machine for boxing or casing. A. H. Kyler. 1,621,743; Mar. 22.
 Cans, Machine for boxing or casing. A. H. Kyler. 1,634,031; June 28.
 Cans, Machine for closing filled. H. A. Fink and G. Flook. 1,640,762; Aug. 30.
 Cans, Machine for scoring and forming tapered. J. F. Peters. 1,616,668; Feb. 8.
 Cans, Machine for straightening and grooving. B. A. Mohr. 1,621,079; Mar. 15.
 Cans, Making. V. Mauck. 1,654,135; Dec. 27.
 Cans, Measuring device for ice-making. T. J. Byrne. 1,646,898; Oct. 25.
 Cans, Measuring device for tearing strip. J. M. Young. 1,646,719; Oct. 25.
 Cans or other receptacles, Apparatus for filling. C. A. Alexanderson. 1,626,375; Apr. 26.
 Cans preliminary to sealing the cans, Machine for correcting irregularities in Bangs of. G. W. Blankenhorn. 1,620,796; Mar. 15.
 Cans, Process of and apparatus for making sanitary metal. A. Moore. 1,636,103; July 19.
 Cans, Record-holding handle for milk. O. H. Peterson. 1,642,939; Sept. 20.
 Cans, Sealing. N. P. Bach. 1,650,416; Nov. 22.
 Cans, Sealing. R. F. Becht. 1,642,984; Sept. 20.
 Cans, Seaming square. W. W. Hodgson. 1,647,698; Nov. 1.
 Cans to closing machines, Mechanism for feeding filled. H. A. Fink. 1,629,616; May 24.
 Cans to closing machines, Mechanism for feeding filled. M. M. Swedick. 1,628,919; May 17.
 Canvas set. S. Brann. 1,651,380; Dec. 6.
 Canvas, Woven-wire art. L. Francis. 1,616,445; Feb. 8.
 Caoutchouc, Vulcanization of. C. W. Bedford. 1,613,572-4; Jan. 4.
 Caoutchouc, Vulcanizing. C. W. Bedford. 1,645,084; Oct. 11.
 Caoutchouc, Vulcanization of. S. J. Penchey and A. Skipsey. 1,653,821; Dec. 27.
 Cap. M. Bloomfield. 1,650,258; Nov. 22.
 Cap. D. Karger. 1,653,181; Dec. 20.
 Cap. S. Rosenberg and E. N. Jaha. 1,639,468; Aug. 16.
 Cap. S. M. Rumbough. 1,627,065; May 3.
 Cap. M. E. Smith. 1,620,400; Mar. 8.
 Cap. W. V. Sutton. 1,651,562; Dec. 6.
 Cap, Adjustable. F. C. Murnan. 1,651,929; Dec. 6.
 Cap, Adjustable-size. E. J. Lipschutz. 1,652,145; Dec. 6.
 Cap and liner assembling machine. R. Newbold. 1,648,779; Nov. 8.
 Cap and package. A. Podel. 1,645,022; Oct. 11.
 Cap, Bathing. H. A. Bauman and R. M. Pierson. Des. 72,926; June 28.
 Cap, Bathing. J. P. Devlin. 1,648,608; Nov. 8.
 Cap, Boudoir. M. L. Peters. Des. 72,494; Apr. 19.
 Cap, Convertible. R. Klein. 1,648,551; Nov. 8.
 Cap delivery and applying mechanism. M. Goldberger. 1,614,467; Jan. 18.
 Cap, Dust. W. F. Duryea. 1,619,710; Mar. 1.
 Cap, Dust. H. J. Hansen. 1,620,887; Mar. 15.
 Cap, Dust. W. Fockmire. 1,632,503; June 14.
 Cap, Dust. J. M. Stone. 1,622,358; Mar. 29.
 Cap, Dust. E. F. Tobold. 1,628,694; May 17.
 Cap-feeding appliance. A. I. Rissler. 1,615,040; Jan. 18.
 Cap-forming machine, Ridge. J. and H. Fullenwider, E. W. Robinson, and H. H. Norris. 1,636,298; July 19.
 Cap, Knitted. F. H. Phillips and C. E. Mann. 1,618,222; Feb. 22.
 Cap, Knitted. S. S. Sampliner. Des. 72,239; Mar. 15.
 Cap, Knitted. E. G. Warren. 1,629,188; May 17.
 Cap, Lug-formed. C. Hammer. 1,647,517; Nov. 1.
 Cap-making machine. G. W. Swift. Jr. 1,647,879; Nov. 1.
 Cap, Miner's. E. N. Galanis. 1,652,776; Dec. 13.
 Cap, Radiator. A. O. Holtom. Des. 72,556; May 3.
 Cap, Sanitary bottle. C. G. Hughes. 1,650,517; Nov. 22.
 Cap screws and the like, Method of and apparatus for producing. F. J. Senior. 1,649,929; Nov. 22.
 Cap, Self-adjusted. H. L. Rosenfeld. 1,653,457; June 21.
 Cap spinning frame. R. Barress. 1,625,520; Apr. 19.
 Cap, Sport visor. C. M. Goldberg. 1,624,727; Apr. 12.
 Cap, Valve. H. P. Kraft. 1,654,178; Dec. 27.
 Cap wrench. C. Senn. 1,618,480; Feb. 22.
 Capping machine. J. A. Stock. 1,624,286; Apr. 12.
 Capping machine, Container-. T. E. Pennock and M. H. Gregg. 1,614,422; Jan. 11.
 Cap, Fastening device for. W. E. Stewart. 1,614,048; Jan. 11.
 Caps, Manufacture of. M. J. West. 1,631,389; June 7.
 Caps to bottles, Device for applying. A. C. Spahn. 1,640,332; Aug. 23.
 Caps to jars and cans, Machine for sealing. S. N. Tevander. 1,646,504; Oct. 25.
 Caps and hat protector, Combined. A. T. Iane. 1,626,238; Apr. 26.
 Capo tasto. N. M. Johnston. 1,616,859; Feb. 8.
 Caponizing instrument. V. D. Lespinasse. 1,615,125; Jan. 18.
 Capstan, Electric. W. J. Hawkins. 1,637,818; Aug. 2.
 Capsules, Apparatus for and manufacture and filling of. J. Schaub. 1,628,333; May 10.
 Capsules, Marking. K. K. Keller. 1,636,823; July 26.
 Car. A. Campbell. 1,648,292; Nov. 8.
 Car. J. O. Neikirk. 1,628,010; Apr. 26.
 Car. T. de Rooke. 1,635,467; July 12.
 Car, air and electric coupling system. E. A. Larsson. 1,636,139; July 19.
 Car and air coupling mechanism. C. H. Tomlinson. 1,630,157; July 19.
 Car and bus conductors and others, Handy case for. L. Swarthout. 1,629,322; May 17.

- Car and container, Transportation. A. H. Smith. 1,645,259; Oct. 11.
- Car and power unit, Combination railway. C. E. F. Ahlm. 1,618,864; Jan. 11.
- Car and the like, Cane. L. D. Gregg. 1,634,779; July 5.
- Car and the like, Cane. L. D. Gregg. 1,651,768; Dec. 6.
- Car and the like, Hopper. A. Campbell. 1,635,251; July 12.
- Car and the like, Traction. O. P. Smith. 1,630,812; May 31.
- Car and track therefor, Coaster. W. H. Strickler. 1,642,276; Sept. 13.
- Car, Articulated. F. M. Brinckerhoff. 1,642,869; Sept. 20.
- Car, Articulated. C. E. Brooks. 1,636,622; July 19.
- Car, Articulated. C. G. Prella. 1,621,979; Mar. 22.
- Car, Articulated. A. K. Pehrson and K. O. Winell. 1,644,394; Oct. 4.
- Car, Articulated. J. M. Suarez. 1,617,658; Feb. 15.
- Car, Articulated. J. M. Suarez. 1,640,159; Aug. 23.
- Car, Articulated. K. O. Winell. 1,621,917; Mar. 22.
- Car, Automatic dump bottom mine. S. H. McCrary. 1,647,876; Nov. 1.
- Car, Automatic dumping. W. H. Larkin. 1,621,075; Mar. 15.
- Car, Automobile wrecking. G. W. Page. 1,630,800; May 31.
- Car axle, Differentiating mine. W. L. Scribner. 1,642,513; Sept. 13.
- Car, Ballast. W. A. Flanagan. 1,627,891; May 10.
- Car barn, Street. W. F. Snobar. 1,613,332; Jan. 4.
- Car-body construction. W. D. Thompson. 1,630,548; May 31.
- Car body, Dining. C. A. Ward. Des. 73,246; Aug. 9.
- Car bracket, Reinforcing. F. H. Hardin. 1,622,583-4; Dec. 27.
- Car brake. A. F. Klasing. 1,621,844; Mar. 22.
- Car-brake-controlling device. P. J. Gallagher. 1,653,955; Dec. 27.
- Car-brake-operating mechanism. W. D. Brewster. 1,614,419; Jan. 11.
- Car brakes, Power device for operating. C. W. Collins. 1,637,440; Aug. 2.
- Car bumper. R. Breyley. 1,621,708; Mar. 22.
- Car, Cane. T. W. Elder. Jr. 1,631,311; June 7.
- Car check lock, Mine. C. E. Bell. 1,628,525; May 10.
- Car, Coal. L. F. Smith. 1,627,256; May 3.
- Car Coke-quenching. A. H. Chalmers. 1,645,587; Oct. 18.
- Car, Collection. V. W. Balzer and J. H. Ballou. 1,640,873; Aug. 30.
- Car, Compartment freight. A. H. Smith. 1,650,661; Nov. 29.
- Car, Concrete railway. A. C. Griewank. 1,637,817; Aug. 2.
- Car construction. A. Campbell. 1,635,254; July 12.
- Car construction. A. Christianson. 1,643,836; Sept. 27.
- Car construction. A. Christianson. 1,648,576; Nov. 8.
- Car construction. K. C. Gardner. 1,630,901; May 24.
- Car construction. F. H. Hardin. 1,622,582; Mar. 29.
- Car construction. H. S. Hart. 1,625,591-2; Apr. 5.
- Car construction. D. Hindahl. 1,618,008; Feb. 15.
- Car construction. L. N. Miller. 1,642,504; Sept. 13.
- Car construction. J. F. O'Connor. 1,620,679; Mar. 15.
- Car construction. J. F. O'Connor. 1,650,378; Nov. 22.
- Car construction. J. F. Streib. 1,651,437; June 7.
- Car construction. H. S. Williams. 1,652,749; Dec. 13.
- Car construction, Articulated. A. T. Clark, A. Leonhauser, and J. R. Jester. 1,617,667; Feb. 15.
- Car construction, Articulated. J. A. Lamont. 1,626,845; May 3.
- Car construction, Dump. D. Hindahl. 1,625,908; Apr. 26.
- Car construction, Freight. L. J. Spence. 1,630,868; May 31.
- Car construction, Poultry. W. P. Johnson. 1,653,573; Dec. 20.
- Car construction, Railway. A. Christianson. 1,633,162; June 12.
- Car control equipment, One-man. F. Hedley and J. S. Doyle. 1,652,622; Dec. 13.
- Car-control equipment, Safety. C. C. Farmer and J. S. McWhirter. 1,622,429; Mar. 29.
- Car-control equipment, Safety. G. Macloskie. 1,621,328; Mar. 15.
- Car-control mechanism, Dump. W. E. Morey. 1,625,080; Apr. 19.
- Car-control mechanism, Safety. J. M. Dapron. 1,645,690; Oct. 18.
- Car conveyor, Chain-rail. G. M. Johnson. 1,635,276; July 12.
- Car-cooling apparatus. D. Parker. 1,651,626; Dec. 6.
- Car coupler. F. Anliker and R. J. Wittmer. 1,647,498; Nov. 1.
- Car coupler. A. J. Bazeley. 1,647,496; Nov. 1.
- Car coupler. W. Blackmore, A. J. Bazeley, and D. Rinson. 1,647,497; Nov. 1.
- Car coupler. G. J. Freder. 1,651,265; Nov. 29.
- Car coupler. C. H. Gage. 1,620,535; Mar. 8.
- Car coupler. S. and A. Luchkanich. 1,613,115; Jan. 4.
- Car coupler. W. McConway, Jr. 1,629,351; May 17.
- Car coupler. W. McConway, Jr., and E. George, Jr. 1,647,802; Nov. 1.
- Car coupler. J. W. Smith. 1,645,459; Oct. 11.
- Car coupler. J. Willison. 1,614,512; Jan. 18.
- Car coupler. J. Willison. 1,614,516-17; Jan. 18.
- Car coupler. J. Willison. 1,616,937; Feb. 8.
- Car coupler and contour therefor. J. Willison. 1,614,515; Jan. 18.
- Car coupler, Automatic. C. C. Farmer. 1,636,687; July 26.
- Car coupler, Automatic. H. F. Woernley. 1,622,479; Mar. 29.
- Car-coupler mechanism, Transitional. E. P. Kinne. 1,615,946; Feb. 1.
- Car coupler, Mine. C. H. Gage. 1,617,628; Feb. 15.
- Car-coupler mounting. E. George, Jr. 1,644,577; Oct. 4.
- Car-coupler-positioning device. G. G. Gilpin. 1,649,466; Nov. 15.
- Car-coupler-positioning device. A. H. Small. 1,645,205; Oct. 11.
- Car coupler system. R. G. Averill. 1,639,717; Aug. 23.
- Car-coupler uncoupling mechanism. J. T. Fitzpatrick. 1,630,481; May 31.
- Car couplers, Centering device for. A. E. Small. 1,631,295; June 7.
- Car couplers, Device for operating. C. D. Bonsall. 1,636,445; July 19.
- Car couplers, Device for operating. A. E. Small. 1,631,284; June 7.
- Car couplers, Device for operating. F. W. Wolff. 1,650,734; Nov. 29.
- Car couplers, Latch lifter for freight. C. Fall and W. Faulk. 1,641,934; Sept. 6.
- Car couplers, Lock-pin lifting and holding device for automatic. O. H. Le Compte. 1,634,588; July 5.
- Car couplers, Positioning device for railway. G. G. Gilpin. 1,636,180; July 19.
- Car couplers, Transition device for. J. Willison. 1,614,513; Jan. 18.
- Car couplers, Transition device for. J. Willison. 1,614,518; Jan. 18.
- Car couplers, Transition device for. J. Willison and D. Robinson. 1,614,514; Jan. 18.
- Car couplers, Uncoupling device for. A. E. Small. 1,636,154; July 19.
- Car coupling. J. W. Easter. 1,622,222; June 14.
- Car coupling. L. W. Higgins. 1,620,350; Mar. 8.
- Car coupling. J. H. Taylor. 1,636,202; July 19.
- Car coupling, Automatic. T. P. Carankin. 1,612,863; Jan. 4.
- Car-coupling mechanism. E. George, Jr. 1,641,424; Sept. 6.
- Car, Cupla-charging. J. K. Clufts. 1,633,693; June 28.
- Car diaphragm and forming the same. H. U. Morton. 1,626,048; Apr. 26.
- Car dome closure, Tank. J. J. McBride. 1,650,579; Nov. 22.
- Car door. A. S. Barrows. 1,624,306; Apr. 12.
- Car door and locking means therefor, Dump. A. Campbell. 1,615,792; Jan. 25.
- Car door and trap, Vestibule. R. N. Patterson and A. G. Fell. 1,614,686; Jan. 18.
- Car-door construction, Railway. G. L. Whipple and L. K. Silcox. 1,619,048; Mar. 1.
- Car-door-controlling device. C. C. Farmer. 1,626,672; May 3.
- Car-door controls, Dump. W. J. Hosceit. 1,620,023; Mar. 8.
- Car door, Electrically-operated railway. T. Elliott. 1,643,064; Sept. 20.
- Car-door extender. F. S. Hetrick. 1,615,944; Feb. 1.
- Car door, Freight. H. Bang. 1,623,652; Apr. 5.
- Car door, Grain. I. D. Parker. 1,619,310; Mar. 1.
- Car door, Hopper. J. McMullen. 1,638,125; Aug. 9.
- Car-door-locking device. W. E. Wine. 1,617,429; Feb. 15.
- Car-door-locking means. A. Campbell and A. E. Zimmer. 1,633,983; July 19.
- Car-door-locking mechanism. A. Campbell and A. E. Zimmer. 1,633,762; June 28.
- Car-door mechanism. C. H. Crane. 1,621,833; Mar. 22.
- Car-door mechanism, Hopper. V. Willoughby. 1,649,433; Nov. 15.
- Car-door mechanism. W. E. Wine. 1,646,003; Oct. 18.
- Car-door opening and closing mechanism. C. Schussler. 1,624,680; Apr. 12.
- Car-door-operating device, Hopper. E. C. Mitchell. 1,627,301; May 10.
- Car-door-operating mechanism. H. T. Anderson. 1,616,434; Feb. 8.
- Car-door-operating mechanism. G. B. Dorey. 1,635,177; July 12.
- Car-door operation. L. P. Hynes. 1,643,454; Sept. 27.
- Car door, Railway-hopper. W. P. Murphy. 1,638,126; Aug. 9.
- Car door. Sheet-metal. W. P. Murphy. 1,635,191; July 12.
- Car doors, Latching device for. D. Hindahl. 1,622,718; Mar. 29.
- Car doors, Locking mechanism for sliding. F. Machava. 1,628,167; May 10.
- Car doors, Motor system for. L. P. Hynes. 1,627,180; July 12.
- Car doors, Seal for. W. J. Colvin. 1,628,655; May 17.
- Car, Drop-bottom mine. S. H. McCrary. 1,635,048; July 5.
- Car, Dump. W. F. Batho. 1,615,671; Jan. 25.
- Car, Dump. J. D. Benbow. 1,640,637; Aug. 30.

- Car, Dump. W. L. Burner and O. E. Kantanwein. 1,621,871; Mar. 22.
- Car, Dump. A. Campbell. 1,615,794-5; Jan. 25.
- Car, Dump. A. Campbell. 1,617,573; Feb. 15.
- Car, Dump. A. Campbell. 1,617,575; Feb. 15.
- Car, Dump. A. Campbell. 1,635,248; July 12.
- Car, Dump. A. Campbell. 1,635,253; July 12.
- Car, Dump. H. F. Flowers. 1,628,963; May 17.
- Car, Dump. A. C. Schmohl. 1,642,750; Sept. 20.
- Car, Dump. S. D. Wright. 1,629,853; May 24.
- Car, dumper. A. F. Case. 1,627,375; May 3.
- Car, Dumping. C. P. Astrom. 1,613,153; Jan. 4.
- Car, Dumping. P. Hamel. 1,620,759; Mar. 15.
- Car, Dumping. F. Haupt. 1,642,813; Sept. 20.
- Car, Elevator. R. E. Van Doorn and E. W. Feld. 1,616,095-6; Feb. 1.
- Car end. T. N. Russell. 1,637,918; Aug. 2.
- Car end. W. D. Thompson. 1,640,912; Aug. 30.
- Car end. W. Wright. 1,642,571; Sept. 13.
- Car-end construction. A. E. Ostrander. 1,631,327; June 7.
- Car end, Metal. E. I. Dodds. 1,643,204; Sept. 20.
- Car end wall, Railway-freight. A. E. Small. 1,649,492; Nov. 15.
- Car-flange-wheel roller. J. L. Scott. 1,620,578; Mar. 8.
- Car for aeroplane swings. H. G. Traver. Des. 73,014; July 5.
- Car for high-speed suspension railways. F. Kruckenberg and F. Gontzke. 1,628,595; May 10.
- Car for roundabouts. A. Tottoreau. 1,614,051; Jan. 11.
- Car, Freight. E. T. Cunningham. 1,619,920; Mar. 8.
- Car, Glass-container box. E. D. Campbell. 1,616,605; Feb. 8.
- Car, Grader. R. E. Bressler. 1,622,761; Mar. 29.
- Car heater. H. Hellweg. 1,627,560; May 10.
- Car heater. V. Sussin. 1,623,215; Apr. 5.
- Car-heating system. E. H. Gold. 1,626,234; Apr. 26.
- Car-heating system. E. H. Gold. 1,639,338; Aug. 16.
- Car-heating systems. Automatic regulating apparatus for. E. A. Russell. 1,619,219; Mar. 1.
- Car-holder attachment. C. H. Tanner. 1,652,842; Dec. 13.
- Car-hood repairing and building apparatus. Motor-. A. E. Nightingale. 1,614,383; Jan. 11.
- Car, Hopper. P. Klemoff. 1,628,156; May 10.
- Car, Hopper freight. J. A. Shafer. 1,623,071; Apr. 5.
- Car-identifying appliance. S. K. Wood. 1,637,542; Aug. 2.
- Car-identifying appliance. Motor-. S. K. Wood. 1,637,541; Aug. 2.
- Car-identifying means. S. K. Wood. 1,645,844; Oct. 18.
- Car Joint, Articulate. S. P. Buck. 1,653,942; Dec. 27.
- Car, Journal. C. E. McCunn. 1,636,100; July 19.
- Car, Kilm. P. A. Meehan. 1,641,185-6; Sept. 6.
- Car, Kilm. G. D. Morris. 1,642,938; Sept. 20.
- Car, Load-discharging. A. Campbell. 1,615,793; Jan. 25.
- Car, Load-discharging. A. Campbell. 1,618,811; Feb. 22.
- Car, Load-discharging. A. Campbell. 1,620,948; Mar. 15.
- Car, Loader. G. Manierre. 1,626,947; May 3.
- Car, Mine. L. Almqvist, and V. Willoughby. 1,616,564; Feb. 8.
- Car, Mine. G. E. Edmunds. 1,644,009-12; Oct. 4.
- Car, Mine. H. P. Field. 1,616,573; Feb. 8.
- Car, Mine. H. P. Field. 1,631,313-14; June 7.
- Car, Mine. H. P. Field. 1,649,395-6; Nov. 15.
- Car, Mine. F. Helmick. 1,648,901; Nov. 15.
- Car, Mine. W. V. Johnson. 1,616,578; Feb. 8.
- Car, Mine. W. V. Johnson and J. L. McDowell. 1,631,320; June 7.
- Car, Mine. W. S. Purdy. 1,624,801; Apr. 12.
- Car, Mine. V. Willoughby. 1,626,653-4; May 3.
- Car, Mine and other. A. H. Stow. 1,643,687; Sept. 27.
- Car, Motor. H. E. Cross. Re1,654,9; Feb. 15.
- Car, Motor. P. Jaray. 1,631,269; June 7.
- Car, Motor. I. K. Rystedt. 1,642,971; Sept. 20.
- Car, mover. B. F. Schmidt and T. D. Heyl. 1,641,398; Sept. 6.
- Car-movng device. I. Williams. 1,647,897; Nov. 1.
- Car, Multiple-unit tank. W. E. Cooper and V. Willoughby. 1,631,307; June 7.
- Car or wagon. R. B. Girdwood-Blackett. 1,651,693; Dec. 6.
- Car, Ore. W. M. Sheehan. 1,636,534; July 19.
- Car part. E. I. Dodds. 1,653,931; Dec. 20.
- Car part, Corrugated. G. G. Gilpin. 1,649,464; Nov. 15.
- Car, Partitionless cane. R. J. Magor. 1,640,785; Aug. 30.
- Car partition, Stock. C. H. Wells. 1,646,804; Oct. 25.
- Car, Passenger. H. Albin. 1,625,445; Apr. 19.
- Car, Pistons, Lubricating means for motor. C. W. Van Ranst. 1,630,021; July 19.
- Car, Plant service. E. A. Malmgren. 1,632,240; June 14.
- Car, Plate-glass-surfacing. A. L. Harrington. 1,631,126; June 7.
- Car, Pontity. W. P. Johnson. 1,651,129; Nov. 29.
- Car, Railroad. A. E. Smith. 1,645,626; Oct. 18.
- Car, Railway. H. T. Anderson. 1,634,008; June 28.
- Car, Railway. R. W. Burnett. 1,623,305; Apr. 5.
- Car, Railway. A. Campbell. 1,635,249; July 12.
- Car, Railway. A. Campbell. 1,635,252; July 12.
- Car, Railway. L. T. Canfield. 1,643,834; Sept. 27.
- Car, Railway. B. W. Kador. 1,617,393; Feb. 15.
- Car, Railway. W. M. Sheehan. 1,628,925; May 17.
- Car, Railway dump. D. Hindahl. 1,626,825; May 3.
- Car, Railway dump. W. J. Hosceit and D. Hindahl. 1,634,007; June 28.
- Car, Railway motor. H. E. Robeson. 1,628,513; May 10.
- Car, Refrigerator. M. Carr. 1,623,305; Apr. 5.
- Car, Refrigerator. L. von Dabrowski. 1,631,297; June 7.
- Car, Refrigerator. O. Lühr. 1,642,882; Sept. 20.
- Car, Refrigerator. C. A. Richardson. 1,643,471; Sept. 27.
- Car replacer. A. C. Brognat. 1,636,034; July 19.
- Car retarder. W. Brascak. 1,620,943; Mar. 15.
- Car retarder, Railway-. J. P. Coleman. 1,626,920; May 3.
- Car roof. N. W. Bloss. 1,617,041; Feb. 8.
- Car roof. C. D. Bonsall. 1,624,207; Apr. 12.
- Car roof. C. D. Bonsall. 1,627,372; May 3.
- Car roof. C. D. Bonsall. 1,629,472; May 24.
- Car roof. C. D. Bonsall. 1,645,351; Oct. 18.
- Car roof. S. D. Gloss and W. Wright. 1,654,252; Dec. 27.
- Car roof. D. W. Hawksworth. 1,622,509; Mar. 29.
- Car roof. F. A. Jacobs. 1,637,307; July 26.
- Car roof. C. Mather. 1,650,949; Nov. 29.
- Car roof. T. N. Russell. 1,622,056; Mar. 22.
- Car roof. W. D. Thompson. 1,645,078; Oct. 11.
- Car roof. T. H. Williams and F. A. Jacobs. 1,615,105; Jan. 18.
- Car roof. W. Wright. 1,614,324-5; Jan. 11.
- Car roof. W. Wright. 1,625,638; Apr. 19.
- Car roof. W. Wright. 1,637,888; Aug. 2.
- Car-roof clamp. T. H. Williams and W. Wright. 1,619,282; Mar. 1.
- Car-roof construction. K. M. Hamilton. 1,631,860; June 7.
- Car, roof, Refrigerator. W. D. Thompson. 1,647,382; Nov. 1.
- Car, Safety. S. Kahn. 1,617,761; Feb. 15.
- Car seal. A. M. Johnson. 1,615,225; Jan. 25.
- Car seal. E. Tyden. 1,615,057; Jan. 18.
- Car seal. J. A. Brooks. 1,644,832; Oct. 4.
- Car seat. C. T. Hansen. 1,614,954; Jan. 18.
- Car-seat handle. A. Rothman. 1,650,951; Nov. 29.
- Car, Sectional railway. R. L. Parker. 1,637,585; Aug. 2.
- Car, Sectional railway. A. H. Smith. 1,631,164; June 7.
- Car, Sectional refrigerator. A. H. Smith and E. G. Miner. 1,631,165; June 7.
- Car, Selective dump. D. Hindahl. 1,643,013; Sept. 20.
- Car, Self-propelled rail. J. P. Irwin. 1,634,362; July 5.
- Car side construction. A. Campbell. 1,635,250; July 12.
- Car signal. Stolten. E. C. Taylor. 1,646,886; Oct. 25.
- Car, Sleeping. A. R. Rossman. 1,621,086; Mar. 15.
- Car spring plank with brake-beam safety device, Cast-steel freight. J. L. Hunter. 1,621,014; Mar. 15.
- Car, stanchions, Tripping device for. J. C. Knapp. 1,628,788; May 17.
- Car step, Extensible. A. A. Poole. 1,618,386; Feb. 22.
- Car, Stock. D. Munro. 1,641,287; Sept. 6.
- Car structure, Grain-. J. P. Polnaszek. 1,634,118; June 28.
- Car structure, Hopper-. W. M. Sheehan. 1,628,923; May 17.
- Car structures, Metal sheet used for freight. W. E. Williams. 1,626,994; May 3.
- Car, Tank. S. F. Bensley. 1,615,672; Jan. 25.
- Car, Tank. E. A. Fall. 1,620,453; Mar. 8.
- Car, Tank. C. G. Garlick. 1,633,811; June 28.
- Car, Tank. P. Klemoff. 1,635,717; July 12.
- Car, Tank. R. Welcker. 1,650,406; Nov. 22.
- Car, Tank. V. Willoughby. 1,631,304; June 7.
- Car-tilting mechanism. E. A. Malmgren. 1,629,721; May 24.
- Car, Trackless street. W. Leathers. 1,634,587; July 5.
- Car, Transfer. S. M. Chase. 1,623,828; Apr. 5.
- Car-transfer apparatus. L. E. Endsley. 1,639,728; Aug. 23.
- Car transfer, Rail-. J. F. McCarran. 1,629,805; May 24.
- Car truck. G. A. Anderson. 1,628,298; May 10.
- Car truck. S. P. Bush. 1,621,827; Mar. 22.
- Car truck. S. P. Bush. 1,637,928; Aug. 2.
- Car truck. H. M. Pfleger. 1,641,932; Jan. 18.
- Car truck, Railway-. C. L. Charles. 1,621,493; Mar. 22.
- Car truck, Railway-. C. L. Charles. 1,632,117; June 14.
- Car-truck side frame. G. A. Anderson. 1,623,037; Apr. 5.
- Car-truck side frame. H. E. Doerr. 1,652,002; Dec. 6.
- Car-truck side frame. H. W. Stertzbach and M. R. Hansen. 1,637,970; Aug. 2.
- Car-truck side frame. B. T. Washington. 1,627,131; May 3.
- Car-truck side frame, Cast. G. T. Johnson and H. W. Stertzbach. 1,621,786; Mar. 22.
- Car-truck side frame, Cast. G. T. Johnson and H. W. Stertzbach. 1,639,732; Aug. 23.
- Car-truck spring. J. C. Whitbridge. 1,641,719; Sept. 6.
- Car truck structure, Railway-. W. C. Hedgcock. 1,643,495; Sept. 27.
- Car trucks, Cast side frame for. H. W. Stertzbach. 1,642,793; Sept. 20.
- Car-uncoupling mechanism. H. F. Flinney and F. A. Jacobs. 1,637,899; Aug. 2.
- Car, Uncoupling mechanism for railway. W. C. Rockenstre. 1,618,605; Feb. 22.
- Car underframe. T. R. Cook. 1,627,484; May 3.
- Car underframe. P. Klemoff. 1,631,685; June 7.
- Car underframe. W. M. Sheehan. 1,628,924; May 17.

- Car underframe, Dump-. W. M. Sheehan. 1,620,839; Mar. 15.
- Car-unloading apparatus, Box-. W. Sundberg. 1,626,984; May 3.
- Car ventilator. J. S. Brown. 1,615,164; Jan. 18.
- Car ventilator. I. V. Edgerton. 1,643,765; Sept. 27.
- Car-wall construction. W. D. Thompson. 1,641,208; Sept. 6.
- Car-wall construction. A. R. Wilson. 1,650,678; Nov. 29.
- Car-wall structure. C. D. Bonsall. 1,638,144; Aug. 9.
- Car-wall structure. C. D. Bonsall. 1,649,505; Nov. 15.
- Car-washing apparatus. S. L. Smith. 1,614,213; Jan. 11.
- Car waste-transfer apparatus, Passenger-. S. S. Riegel. 1,613,848-9; Jan. 11.
- Car waste-transfer apparatus, Passenger-. S. S. Riegel. 1,619,369; Mar. 1.
- Car. Welded railway. W. N. Oehm and E. W. Test. 1,643,416; Sept. 27.
- Car-wheel clamp. E. and O. B. Mullins. 1,625,136; Apr. 19.
- Car-wheel construction, Railway-. E. F. Maas. 1,648,413; Nov. 8.
- Car wheel, Roller-bearing. J. M. Toombs, jr. 1,626,765; May 3.
- Car wheels and the like, Machine for testing. T. R. Brown. 1,628,767; May 17.
- Car wheels, Apparatus for cruing. R. S. Blair and B. D. Wells. 1,642,744; May 3.
- Cars against rope obstructions, Guard for motor. W. Overbeck, jr. 1,614,856; Jan. 18.
- Cars, Air-circulating means for refrigerator. G. A. Hull. 1,643,892; Sept. 27.
- Cars, Anchorage for vestibule members of articulated. F. Koch. 1,642,959; Sept. 20.
- Cars and other vehicles, Brake for mine. A. H. Stow. 1,640,474; Aug. 30.
- Cars and the like, Bogie for railway. T. F. Collin and L. G. H. Helmstein. 1,640,447; Aug. 30.
- Cars and the like, Bogie for railway. C. A. Svensson. 1,635,694-5; July 12.
- Cars and the like, Bogie for railway. C. A. Svensson. 1,640,626; Aug. 30.
- Cars and the like, Dumping door for railway. A. Campbell. 1,635,255; July 12.
- Cars and the like, Metal wall for railway. W. E. Van Dorn. 1,621,293; Mar. 15.
- Cars and the like, Signal device for motor. D. McWilliam. 1,635,630; July 12.
- Cars, Antiskid freight-anchoring device for flat. I. L. Friedlander and S. J. Marx. 1,620,758; Mar. 15.
- Cars, Attachment for. S. Vegega. 1,653,973; Dec. 27.
- Cars, Automatic braking mechanism for motor. J. C. Snodgrass. 1,618,632; May 24.
- Cars, Automatic braking mechanism for motor. J. C. Snodgrass. 1,618,236; Feb. 22.
- Cars, Automatic lighting device for motor. C. Ter Cock. 1,652,888; Dec. 13.
- Cars, Automatic speed control for motor. L. W. Davis and E. S. Bursley. 1,638,336; Aug. 16.
- Cars, Auxiliary door for freight. E. Posson. 1,645,544; Oct. 18.
- Cars, Awning for closed. L. M. Crow. 1,649,949; Nov. 22.
- Cars, Brake device for railway. F. C. Rutz. 1,639,669; Aug. 23.
- Cars, Brake mechanism for railway. P. B. Camp and J. Wilson. 1,623,304; Apr. 5.
- Cars, Brake mechanism for railway. P. B. Camp. 1,636,284; July 19.
- Cars, Brake mechanism for railway. P. B. Camp. 1,652,758-9; Dec. 13.
- Cars, Brake mechanism for railway. C. L. Moorman. 1,639,306; Aug. 16.
- Cars, Brake mechanism for railway. H. I. Wrigley. 1,618,740; Feb. 22.
- Cars, Brake mechanism for railway. H. I. Wrigley. 1,635,654; July 12.
- Cars, Buffer for railway and like. H. Mohr. 1,629,224; May 17.
- Cars, Combined draft-hook bar and step for freight. J. Magor. 1,613,180; Jan. 4.
- Cars, Combined grating and spray for refrigerator. L. and F. L. Crumpton. 1,632,370; June 14.
- Cars, Corner post for drop and gondola. A. G. Sandman. 1,638,128; Aug. 9.
- Cars, Corner post for freight. R. J. Magor. 1,627,981; May 10.
- Cars, Corrugated end wall for railway. G. E. Coutant. 1,645,182; Oct. 11.
- Cars, Corrugated metallic plate for railway. G. G. Gilpin. 1,638,153; Aug. 9.
- Cars, Corrugated metallic plate for railway. G. G. Gilpin. 1,638,156; Aug. 9.
- Cars, Corrugated structure for railway. G. G. Gilpin. 1,638,154; Aug. 9.
- Cars, Corrugated structure for railway. G. G. Gilpin. 1,645,190; Oct. 11.
- Cars, Corrugated structure for railway. G. G. Gilpin. 1,649,462-3; Nov. 15.
- Cars, Corrugation in hopper doors for railroad. V. E. Sisson. 1,638,167-9; Aug. 9.
- Cars, Cot for poultry. P. Kortenhoeven. 1,614,963; Jan. 18.
- Cars, Coupling for railway. C. Stollberg. 1,629,551; May 24.
- Cars, Cross tie for railway. K. C. Gardner. 1,632,181; June 14.
- Cars, Detachable ladder for railway. J. Mitchell. 1,626,145; Apr. 26.
- Cars, Differential axle for railroad. J. B. Pope. 1,644,147; Oct. 4.
- Cars, Door-closing device for box. L. F. Johnson. 1,638,694; Aug. 9.
- Cars, Door closure for railway. E. M. Senftle. 1,628,920; May 17.
- Cars, Door-locking device for cane. W. A. Lucas. 1,649,413; Nov. 15.
- Cars, Door mechanism for railway. B. W. Kadel. 1,637,905; Aug. 2.
- Cars, Door mechanism for railway. W. E. Wine. 1,634,225; June 28.
- Cars, Dust guard for the journal boxes of railway. J. L. Mohun. 1,621,893; Mar. 22.
- Cars, Elastic trailer for motor. H. D. Hallenberg and A. F. Hyman. 1,645,454; Oct. 11.
- Cars, End plate for railway box. G. T. Cooke. 1,638,147; Aug. 9.
- Cars, End reinforcement for railway. G. T. Cooke. 1,638,148; Aug. 9.
- Cars, End structure for railway. G. G. Gilpin. 1,649,461; Nov. 15.
- Cars, End structure for railway. R. D. Hawkins. 1,631,812; June 7.
- Cars, End wall for railway. C. D. Bonsall. 1,636,166; July 19.
- Cars, End wall for railway. A. E. Small. 1,649,493; Nov. 15.
- Cars, Feed trough for poultry. W. P. Johnson. 1,643,501; Sept. 27.
- Cars, Foot accelerator for motor. S. Amoroso. 1,615,926; Feb. 1.
- Cars, Grain door for freight. N. E. Bray. 1,634,015; June 28.
- Cars, Hand brake for railway. S. B. Haseltine. 1,616,690; Feb. 8.
- Cars, Hand brake for railway. F. C. Rutz. 1,624,510; Apr. 12.
- Cars, Hand-brake mechanism for railway. Y. Miyasaki. 1,624,425; Apr. 12.
- Cars, Hand-brake mechanism for railway. Y. Miyasaki. 1,652,576; Dec. 13.
- Cars, Hatch-cover-operating means for refrigerator. W. F. Dietrichson. 1,631,309; June 7.
- Cars, Hopper door for railway. G. G. Gilpin. 1,638,157; Aug. 9.
- Cars, Hopper door for railway. V. E. Sisson. 1,638,166; Aug. 9.
- Cars, Hopper door for railway. V. E. Sisson. 1,638,170-1; Aug. 9.
- Cars, Hopper door for railway. J. S. Swann. 1,638,603; Aug. 9.
- Cars, Hopper for refrigerating. H. A. Glenn and L. S. Dromold. 1,639,176; Aug. 16.
- Cars, Indicator for railroad. F. M. Gieger. 1,645,133; Oct. 11.
- Cars, Leveling means for railway. C. P. Knox and I. Simons. 1,616,976; Feb. 8.
- Cars, Lifting mechanism for railway. L. J. Clapp. 1,627,181; Oct. 3.
- Cars, Lock for dump. R. E. McGahey. 1,616,815; Feb. 8.
- Cars, Lock for railroad. W. Babekuhl. 1,646,181; Oct. 18.
- Cars, Metal end structure for railway. A. E. Small. 1,638,172; Aug. 9.
- Cars, Metal roof for freight. G. G. Gilpin. 1,631,260; Dec. 7.
- Cars or barns, Sliding door for. D. E. Conrad. 1,635,926; July 12.
- Cars or coaches, Brake-beam safety guide for railway. F. M. Le Comte. 1,612,929; Jan. 4.
- Cars, Panel bracing in hopper doors for railway. C. D. Bonsall. 1,638,143; Aug. 9.
- Cars, Paneling for hopper doors for railway. C. D. Bonsall. 1,638,142; Aug. 9.
- Cars, Partition end for freight. R. J. Magor. 1,627,980; May 10.
- Cars, Placard holder for tank. E. A. Fall. 1,644,774; Oct. 11.
- Cars, Rail brake for railway. T. Elliott. 1,645,741; Oct. 13.
- Cars, Reinforcing hopper door for railway. G. G. Gilpin. 1,638,155; Aug. 9.
- Cars, Remote control device for railroad. J. McCallum. 1,629,286; May 17.
- Cars, Repair construction for wooden-frame box. E. G. Franck. 1,630,483; May 31.
- Cars, Resilient shackle for mine. J. F. O'Connor. 1,645,540; Oct. 18.
- Cars, Reversible placard holder for tank. S. L. Joiner. 1,614,792; Jan. 18.
- Cars, Run board for freight. F. E. Sandstrom. 1,628,809; May 17.
- Cars, Safety device for articulated. F. McF. Brinckerhoff. 1,638,173; July 12.
- Cars, Safety device for articulated. F. M. Brinckerhoff. 1,645,983; Oct. 18.

- Cars, Safety device for motor. G. E. Lynch. 1,643,989; Oct. 4.
- Cars, Safety device for trolley. B. Phillips. 1,647,469; Nov. 1.
- Cars, Safety life-saving fender for. J. Tuba. 1,639,154; Aug. 16.
- Cars, Safety systems for railway. H. Rowntree. 1,627,748; May 10.
- Cars, Side bearing for articulated. F. M. Brinckerhoff. 1,651,580; Dec. 6.
- Cars, Side door for railway freight. A. E. Small. 1,626,882; May 3.
- Cars, Side-plate construction for railway box. W. E. Williams. 1,649,501; Nov. 15.
- Cars, Side-plate construction for railway box. W. E. Williams. 1,654,153; Dec. 27.
- Cars, Sleeping berth for poultry. I. V. Edgerton. 1,641,376; Sept. 6.
- Cars, Solenoid coupler for. S. B. Schenck. 1,649,129; Nov. 15.
- Cars, Spotlight for mail. D. F. Bradshaw. 1,631,003; May 31.
- Cars, Spring suspension for railway. H. W. Probst. 1,633,011; June 21.
- Cars, Steam chamber for tank. W. R. Cleary. 1,614,107; Jan. 11.
- Cars, Striking plate for. B. F. Faunce and H. C. Dorris. 1,633,934; June 28.
- Cars, Supporting mechanism for dump. W. L. Burner and O. K. Kanteuwein. 1,631,241; June 7.
- Cars, Supporting the contents in freight. R. E. Harmon. 1,637,748; Aug. 2.
- Cars, Switch and valve control in air and electric coupling systems for. H. E. Van Dorn. 1,621,292; Mar. 15.
- Cars, Truck for mine. J. R. Fleming. 1,643,298; Sept. 27.
- Cars, Uncoupling link for railway. A. C. Mather. 1,633,339; June 21.
- Cars, Underframe for ore. W. M. Sheehan. 1,628,921; May 17.
- Cars, Unloader for railway. G. Manierre. 1,626,943; May 3.
- Cars, Unloading apparatus for railway. F. G. Mitchell. 1,628,732; May 17.
- Cars, Ventilating door for the hatchways of refrigerator. G. A. Hull. 1,637,861; Aug. 2.
- Cars, Vestibule guard for articulated. F. Koch. 1,637,193; July 26.
- Cars, Wall structure for railway. J. McMullen. 1,639,264; Aug. 16.
- Cars, Wheel guard for railway. R. B. Richardson. 1,612,944; Jan. 4.
- Carnegie, Separation of. F. F. Molié. 1,635,136; July 5.
- Carbohydrate solutions, etc., Purifying. C. B. Davis. 1,618,148; Feb. 15.
- Carbon and making the same, Granular. E. N. Bunting. 1,646,389; Oct. 25.
- Carbon black from natural gas, Producing. E. B. Par. 1,638,500; Dec. 27.
- Carbon black, Manufacture of. C. A. Barbour, jr. 1,643,736; Sept. 27.
- Carbon black or lampblack, Method and apparatus for the manufacture of. E. B. Bird. 1,616,409; Feb. 1.
- Carbon black, Process and apparatus for producing. C. Matlock. 1,617,074; Feb. 8.
- Carbon black, Process and apparatus for producing. C. Matlock. 1,617,074; Feb. 8.
- Carbon black, Producing. L. J. Dales. 1,633,071; June 21.
- Carbon-black-producing apparatus. C. A. Barbour, jr. 1,638,722; Aug. 9.
- Carbon-bonded refractory, Producing a. E. L. Hauman. 1,633,850; Dec. 27.
- Carbon catalyst and process of making it. C. B. Jacobs. 1,623,598; Apr. 6.
- Carbon dioxide, Discharging. C. L. Jones. 1,644,338; Oct. 4.
- Carbon dioxide, Process and apparatus for making concentrated. V. Drewsen. 1,619,336; Mar. 1.
- Carbon dioxide to a solid, Method and machine for converting. T. B. State. 1,643,590; Sept. 27.
- Carbon disulphide, Manufacture of. P. Siedler. 1,615,659; Jan. 25.
- Carbon, Electric-furnace apparatus and process for making decolorizing. L. Wickenden and S. A. W. Okell. 1,634,480; July 5.
- Carbon, Electric-furnace apparatus and process of revivifying decolorizing. L. Wickenden and W. F. Demmerle. 1,634,479; July 5.
- Carbon, etc., Process and apparatus for manufacturing amorphous. J. W. MacDonald. 1,626,418; Apr. 26.
- Carbon impressions, Producing facsimile. P. Inzinga. 1,643,212; Sept. 20.
- Carbon in a specimen of iron or steel, Apparatus for determining the percentage of. C. J. G. Malmberg and J. G. Holmström. 1,626,005; Apr. 26.
- Carbon, Making activated. G. W. Wallace. 1,639,356; Aug. 16.
- Carbon, Making adsorbent. O. L. Barnebey and M. B. Cheney. 1,614,707; Jan. 18.
- Carbon, Making decolorizing. L. Wickenden and S. A. W. Okell. 1,634,477; July 5.
- Carbon, Manufacture of active. J. N. A. Sauer. 1,641,053; Aug. 30.
- Carbon, Manufacture of vegetable. L. H. Bonnard. 1,619,649; Mar. 1.
- Carbon, Method and apparatus for producing. C. Matlock. 1,616,765; Oct. 11.
- Carbon-monoxide detector. C. S. Gordon and J. T. Lowe. 1,644,014; Oct. 4.
- Carbon paper, Making. G. W. Poorman. 1,614,490; Jan. 18.
- Carbon pigment and making the same, Nondusting. S. E. Sheppard and L. W. Eberlin. 1,651,733; Dec. 6.
- Carbon, Process and apparatus for making decolorizing. L. Wickenden and S. A. W. Okell. 1,634,478; July 5.
- Carbon, Producing active. P. Lueg, J. Drucker, and H. Thibemann. 1,641,281; Sept. 6.
- Carbon, Producing metallic. C. Robinson. 1,637,052; July 26.
- Carbon, Producing oxidized. O. W. Storey and G. T. Collinson. 1,639,981; Aug. 23.
- Carbon, Producing solid oxides of. O. W. Storey. 1,639,982; Aug. 23.
- Carbon-removing implement. S. Ling. 1,645,435; Oct. 11.
- Carbon, Revivifying. A. A. Backhaus. 1,619,327; Mar. 1.
- Carbon scraper. G. D. Lawson. 1,620,822; Mar. 15.
- Carbon used in purifying ethylene, Revivifying. A. A. Backhaus. 1,619,326; Mar. 1.
- Carbonaceous from treating materials, Manufacture of decolorizing. O. L. Barnebey. 1,614,913; Jan. 18.
- Carbons, Revivifying process for. F. B. Arentz. 1,616,078; Feb. 1.
- Carbonaceous articles, Destructive distillation of solid. P. Dvorkovitz. 1,627,321; May 3.
- Carbonaceous material and making the same. A. Oberle. 1,632,845; June 21.
- Carbonaceous material, Distillation of. J. D. Zieley and F. A. Rudolf. 1,617,697; Feb. 15.
- Carbonaceous materials, Distillation and coking of. L. Honigmann. 1,640,502; Aug. 30.
- Carbonaceous substances and the product of the method, Producing activated. E. R. Sutcliffe. 1,629,237; May 17.
- Carbonating apparatus. H. N. Kilby. 1,615,175; Jan. 18.
- Carbonating apparatus. T. B. Slate. 1,634,089; June 28.
- Carbonating apparatus and method. H. N. Kilby. 1,627,439; May 3.
- Carbonation and distilling, Method and apparatus for low-pressure. P. W. Shields and L. De Markus. 1,648,466; Nov. 8.
- Carbonator. C. L. Bastian. 1,651,573; Dec. 6.
- Carbonator. R. B. Campbell. 1,648,575; Nov. 8.
- Carbonator. A. L. Koenig. 1,632,409; June 14.
- Carbonator. G. H. Maas. 1,630,575; May 31.
- Carbonator. H. J. McCue. 1,642,739; Sept. 20.
- Carbonized article and making same. J. Beckwith. 1,624,710; Apr. 12.
- Carbonizing apparatus. G. W. Wallace. 1,639,390; Aug. 16.
- Carboy. R. H. Bradford, J. S. La Barr, and P. H. Thompson. 1,630,163; Mar. 24.
- Carboy package. H. H. Jones. 1,642,072; Sept. 13.
- Carboy package. W. H. Lohmann. 1,641,179; Sept. 6.
- Carburetor. W. J. En Earl. 1,647,400; Nov. 1.
- Carbureting apparatus. W. G. Hemenway. 1,634,782; July 5.
- Carbureting device. G. M. Holley. 1,641,332; Sept. 6.
- Carbureting device. L. M. Woolson. 1,613,257; Jan. 4.
- Carburetion means. S. A. Gutman. 1,614,238; Jan. 11.
- Carburetor. C. B. Allen. 1,633,429; June 21.
- Carburetor. S. S. Allwill. 1,623,899; Apr. 5.
- Carburetor. L. Angelini. 1,652,228; Dec. 13.
- Carburetor. F. E. Aseltine. 1,651,359; Dec. 6.
- Carburetor. F. H. Barger. 1,625,516; Apr. 19.
- Carburetor. F. Baverly. 1,631,716; June 7.
- Carburetor. R. H. Beach. 1,613,599; Jan. 11.
- Carburetor. G. M. Bicknell. 1,630,887; May 31.
- Carburetor. C. H. Braselton. 1,625,787; Apr. 26.
- Carburetor. S. J. Brindley. 1,644,293; Oct. 4.
- Carburetor. A. V. Chapin. 1,619,329; Mar. 1.
- Carburetor. W. M. Crofton. 1,619,656; Mar. 1.
- Carburetor. F. G. Crone. 1,637,104; July 26.
- Carburetor. J. S. Cuff. 1,615,111; Jan. 18.
- Carburetor. R. S. Cunningham. 1,620,080; Mar. 8.
- Carburetor. F. Day. 1,651,923; June 27.
- Carburetor. A. Dickerson. 1,645,945; Oct. 18.
- Carburetor. N. Eckles. 1,632,279; June 14.
- Carburetor. P. W. Ensign. 1,653,041; Dec. 20.
- Carburetor. E. Feroldi. 1,629,210; May 17.
- Carburetor. H. A. Finke. 1,642,065; Sept. 13.
- Carburetor. J. W. Fisher. 1,623,668; Apr. 5.
- Carburetor. S. W. Goodall. 1,613,947; Jan. 11.
- Carburetor. W. Grikscheit. 1,627,845; May 10.
- Carburetor. W. Grikscheit. 1,634,401; July 5.
- Carburetor. C. J. Gustafson. 1,623,780; Apr. 5.
- Carburetor. V. R. Heftler. 1,652,859; Dec. 13.
- Carburetor. F. R. Heftler. 1,653,028; Dec. 27.
- Carburetor. D. C. Hendrickson. 1,643,711; Sept. 27.
- Carburetor. L. Henriot. 1,626,085; Apr. 26.
- Carburetor. S. R. Holmes. 1,622,513; Mar. 29.
- Carburetor. F. A. Howard. 1,649,531; Nov. 15.
- Carburetor. J. A. Jackson and P. Swanson. 1,623,682; Apr. 5.
- Carburetor. J. T. Jennings. 1,623,683; Apr. 5.
- Carburetor. J. Juhasz. 1,640,412; Aug. 30.

- Carburetor. C. F. L. and W. L. Kaufmann. 1,624,603; Apr. 12.
- Carburetor. J. B. Kessel. 1,636,187; July 19.
- Carburetor. E. H. Kelley, F. Greiwe, and F. E. Hoskin. 1,628,347; Apr. 5.
- Carburetor. J. M. King. 1,636,308; July 19.
- Carburetor. T. W. Kings. 1,624,604; Apr. 12.
- Carburetor. G. Kingston. 1,617,599; Feb. 15.
- Carburetor. J. G. Lanning. 1,630,493; May 31.
- Carburetor. J. J. A. Miller. 1,640,711; Aug. 30.
- Carburetor. F. C. Mock, C. J. Gustafson, and M. E. Chandler. 1,615,398; Jan. 25.
- Carburetor. F. C. Mock, C. J. Gustafson, and M. E. Chandler. 1,620,327; Mar. 15.
- Carburetor. F. C. Mock, C. J. Gustafson, and M. E. Chandler. 1,642,378; Sept. 13.
- Carburetor. A. Moorhouse. 1,645,341; Oct. 11.
- Carburetor. E. A. Nelson. 1,625,141; Apr. 19.
- Carburetor. A. L. Nilsson. 1,637,272; July 26.
- Carburetor. B. W. Pagett. 1,619,309; Mar. 1.
- Carburetor. R. D. Perkins. 1,640,294; Aug. 23.
- Carburetor. M. F. Purvey. 1,635,433; July 12.
- Carburetor. G. F. Ritter. 1,632,193; June 14.
- Carburetor. F. Schoenwolf. 1,649,260; Nov. 15.
- Carburetor. E. F. Sherrick. 1,614,973; Jan. 18.
- Carburetor. W. T. Simpson. 1,625,572-4; Apr. 19.
- Carburetor. W. T. Simpson. 1,631,701; June 7.
- Carburetor. W. T. Simpson. 1,647,953; Oct. 25.
- Carburetor. R. M. Smith. 1,614,322; Jan. 11.
- Carburetor. F. F. Stratton. 1,636,793; July 26.
- Carburetor. B. D. Stevens. 1,646,043; Oct. 18.
- Carburetor. J. W. Swan. 1,630,723; May 31.
- Carburetor. I. T. Swartz. 1,619,894; Mar. 8.
- Carburetor. R. M. Taagye. Rel. 6,838; Dec. 27.
- Carburetor. R. M. Taagye. 1,620,925; Mar. 15.
- Carburetor. S. M. Udale. 1,618,244; Feb. 22.
- Carburetor. L. L. Viel. 1,643,864; Sept. 27.
- Carburetor. A. E. Weaver. 1,618,030; Feb. 15.
- Carburetor. A. E. Weaver. 1,620,746; Mar. 15.
- Carburetor. A. E. Weaver. 1,639,621; Aug. 16.
- Carburetor. A. E. Weaver. 1,642,097; Sept. 13.
- Carburetor. A. E. Weaver. 1,648,087; Nov. 8.
- Carburetor. E. H. Westling. 1,644,214; Oct. 4.
- Carburetor. G. N. Wilcox. 1,616,726; Feb. 8.
- Carburetor. W. H. K. Williams. 1,629,893; May 24.
- Carburetor adjustment, Automatic. W. J. Short. 1,624,651; Apr. 12.
- Carburetor and fuel feeding system therefor. W. T. Simpson. 1,625,575; Apr. 19.
- Carburetor attachment. R. B. Ross. 1,639,242; May 24.
- Carburetor, Automatic compensating. A. C. Peterson. 1,617,605; Feb. 15.
- Carburetor-choke-valve spring. F. G. Withrow. 1,627,220; May 3.
- Carburetor device. P. Bondi. 1,644,322; Oct. 4.
- Carburetor economizer. J. M. Williams, jr. 1,643,479; Sept. 27.
- Carburetor feed control, Automatic. C. W. Collins. 1,636,851; July 26.
- Carburetor float cups, Making. F. Holt. 1,617,906; Feb. 15.
- Carburetor frames, Die for making. F. Holt. 1,625,854; Apr. 26.
- Carburetor, Furnace. R. J. Hansen. 1,620,966; Mar. 15.
- Carburetor lock. S. C. Young. 1,632,087; June 14.
- Carburetor-manifold heater. C. O. Erickson. 1,624,863; Apr. 12.
- Carburetor, Self-feeding. H. E. Marsh. 1,640,044; Aug. 23.
- Carburetor tester. W. H. Thrall. 1,615,000; Jan. 18.
- Carburetor, Vaporizing. H. E. Larkin. 1,618,449; Feb. 22.
- Carburetor, Venturi for. C. Carlsson. 1,642,332; Sept. 13.
- Carburetors, Air controller for gas-engine. C. A. Ciriqli and E. T. Larkin. 1,614,106; Jan. 11.
- Carburetors, Air heating and moistener for. W. J. Priest. 1,623,438; Apr. 5.
- Carburetors, Air-supply connection for. A. W. Zeratsky and W. V. Kidder. 1,644,766; Oct. 11.
- Carburetors, Apparatus for controlling the air supply of. C. R. Lyman. 1,628,506; May 10.
- Carburetors, Attachment for. C. Powell. 1,637,455; Aug. 2.
- Carburetors, Choke control for. S. G. Garrett. 1,616,082; Feb. 1.
- Carburetors, Control for. M. J. B. Barbarou. 1,627,951; May 10.
- Carburetors, Device for regulating temperature of air in. H. N. Edens. Rel. 6,528; Jan. 11.
- Carburetors, Electrical heater for the air-supply pipes of. W. F. Cleary and W. J. Wagener. 1,624,216; Apr. 12.
- Carburetors, Evaporator for. V. Pellegrino. 1,332,675; June 14.
- Carburetors, Fuel-control attachment for. F. Barden. 1,350,482; Nov. 22.
- Carburetors, Mixture control for airplane. F. C. Mock, C. J. Gustafson, and M. E. Chandler. 1,636,480; July 19.
- Carburetors, Moisture-supplying attachment for. H. Freeman. 1,615,620; Jan. 25.
- Carburetors, Thermoelectric control for. M. R. Wolfard. 1,627,947; May 10.
- Carburetors, Vacuum fuel system for. N. Eckles. 1,623,237; Apr. 5.
- Carburizing box. W. B. Sullivan. 1,643,756; Sept. 27.
- Carcass cutter. H. A. Meyer. 1,617,410; Feb. 15.
- Carcass scrubber. K. Zerbe. 1,617,002; Feb. 8.
- Carcass splitter. H. A. Meyer. 1,616,058; Feb. 1.
- Carcass splitter. H. A. Meyer. 1,643,721; Sept. 27.
- Carcass splitting machine. A. H. Paxton. 1,620,035; Mar. 8.
- Card and display sign, Combined. L. Rommel. 1,621,754; Mar. 22.
- Card-sorting machine. M. M. Goldberg. 1,627,028; May 3.
- Cardboard and like box. E. Robinson. 1,615,773; Mar. 12.
- Cardboard or the like, Machine for scoring, cutting or otherwise treating. N. P. Andrew. 1,616,565; Feb. 8.
- Card, Can-display. A. R. Nelson and J. E. Burgess. 1,652,907; Dec. 13.
- Card case. E. H. Broomhall. 1,613,380; Jan. 4.
- Card clothing. L. R. Arnold. 1,653,596; Dec. 20.
- Card container and desk tray. W. C. Hering. 1,632,336; June 14.
- Card-controlled machine for sorting and the like, Record. J. W. Bryce. 1,651,179; Nov. 29.
- Card, Display. A. J. Brown. 1,643,421; Sept. 27.
- Card dollers, Vibrator for. R. W. Blumstead and R. S. Robertson. 1,645,794; Oct. 18.
- Card-drying stand. C. L. Gestrine. 1,652,114; Dec. 6.
- Card-feeding apparatus. E. A. Ford. 1,633,937; June 28.
- Card-handling apparatus, Selective. E. A. Geiger. 1,621,716; Mar. 22.
- Card holder. A. Aquila. 1,629,331; May 17.
- Card holder. E. Arndt. 1,651,358; Dec. 6.
- Card holder. W. S. Beazell. 1,618,163; Feb. 22.
- Card holder. C. Bergmann. 1,621,393; Mar. 15.
- Card holder. G. H. Dawson. 1,615,443; Jan. 25.
- Card holder. G. B. Edgar and L. R. Melvin. 1,638,328; Aug. 9.
- Card holder. J. M. Hurley. 1,639,946; Aug. 23.
- Card holder. E. E. Keeney. 1,637,344; Aug. 2.
- Card holder. V. E. Knopp. 1,616,975; Feb. 8.
- Card holder. M. Meyerson. 1,619,827; Mar. 8.
- Card holder. A. S. Mitchell. 1,645,250; Oct. 11.
- Card holder, License. N. J. Churmusi. 1,645,229; Oct. 11.
- Card holder, Playing. V. C. Teneau. Des. 73,272; Aug. 16.
- Card holder, Playing. V. C. Teneau. 1,634,696; July 5.
- Card holders, Extender for. C. S. Sawyer. 1,651,471; Dec. 6.
- Card-holding device. D. E. B. Combs. 1,630,373; May 31.
- Card, Index. C. H. Cobb. 1,625,934; Apr. 26.
- Card-index device. J. H. Rand, jr. 1,622,670; Mar. 29.
- Card-index holder. R. W. Renton. 1,616,825; Feb. 8.
- Card, Mailing. G. O. Jenner. 1,632,185; June 14.
- Card, Milk. A. Pearson and D. N. Lindquist. 1,619,756; Mar. 1.
- Card-mounting means. C. C. Gruher. 1,614,438; Jan. 11.
- Card, Order. G. Hausner. 1,619,511; Mar. 1.
- Card or pamphlet holding device. O. W. Johnson. 1,622,518; Oct. 29.
- Card, Package. O. T. Briggs. 1,629,435; May 17.
- Card players, Reminder for. W. L. Slayton. 1,627,208; May 3.
- Card, Playing. S. Baer. 1,623,035; Apr. 5.
- Card, Playing. F. Cohen. 1,629,256; May 17.
- Card, Playing. S. F. Hanzel. Des. 72,013; Feb. 15.
- Card, Playing. F. G. Smyth, jr. Des. 72,580; May 3.
- Card protector. P. Dixon. 1,624,719; Apr. 12.
- Card rack. H. T. Cox. 1,629,070; May 17.
- Card record, Visible. H. Haid. 1,620,547; Mar. 8.
- Card-stripper system. Pneumatic. W. H. Goldsmith. 1,635,834; July 12.
- Card, Structure building. E. C. Sixta. 1,623,641; Apr. 5.
- Card system, Visible. F. H. Johnston. 1,631,732; June 7.
- Card system, Visible-index. W. A. Ringer. 1,616,689; Feb. 8.
- Card, Table. A. W. Koehn. 1,630,851; May 31.
- Carding engine for carding artificial silk and like material. H. Wilkinson and J. Reed. 1,642,758; Sept. 20.
- Carding engines, Vacuum stripper for. E. Clark. 1,622,246; Mar. 22.
- Carding machine. W. T. Putnam. 1,652,215; Dec. 13.
- Carding machines, Attachment for. M. F. Kevlin and W. F. Costello. 1,648,060; Nov. 8.
- Carding machines, Waste collector for. J. F. Fliedner. 1,642,235; Sept. 13.
- Cards, etc., Device for displaying. A. Reese. 1,619,434; Mar. 1.
- Cards, Making embossed show. F. D. Courtenay. 1,648,613; Oct. 25.
- Cards, Numbered playing. L. S. Francke. 1,652,979; Dec. 13.
- Cards, Sensing means for perforated record. F. M. Carroll. 1,623,164; Apr. 5.
- Cards, used for statistics, bookkeeping, and the like. Arrangement for sorting perforated. G. Tauschek. 1,639,443; Aug. 16.
- Cargo fleet for water navigation and operating said fleet. C. J. Baer. 1,618,401; Feb. 22.
- Cargo hook. H. R. Benson. 1,649,655; Nov. 15.
- Carline. D. W. Hawksworth. 1,644,674; Oct. 11.
- Carline. R. C. Munro. 1,654,304; Dec. 27.
- Carline. T. N. Russell. 1,644,450; Oct. 4.

- Carline reinforcement and load-lifting attachment. C. D. Bonsall. 1,638,145; Aug. 9.
- Carline-reinforcement and load-lifting arrangement. C. D. Bonsall. 1,645,217; Oct. 11.
- Carpenter's gauge. J. H. Edmondson. 1,634,178; June 28.
- Carpenter's gauge. Combination. H. T. Hamer. 1,649,686; Nov. 15.
- Cape. T. W. Martin. 1,643,106; Sept. 20.
- Carpenter's tote case. H. L. Kennedy. 1,647,735; Nov. 1.
- Carpet. A. Finlay. Des. 73,654; Oct. 18.
- Carpet. G. W. Sniffen. Des. 72,041; Feb. 15.
- Carpet. I. J. Vetter. Des. 72,198; Mar. 8.
- Carpet and like fastening. Stair. C. E. Rose. 1,645,663; Oct. 18.
- Carpet and rug beating apparatus. H. L. Schneider. 1,636,150; July 19.
- Carpet cleaner. S. M. Blanch and F. J. Quist. 1,641,063; Aug. 30.
- Carpet fastener. Stair-. H. A. Jamgotch. 1,629,505; May 24.
- Carpet fasteners. Mechanism for setting. G. A. King, F. E. Warner, and E. H. Tompkins. 1,620,468; Mar. 8.
- Carpet sweeper. Toy. C. A. Snider. 1,613,062; Jan. 4.
- Carpets. Automatically manufacturing knotted, or tufted. J. Mühlle. 1,615,029; Jan. 18.
- Carriage body. O. W. Siebert. 1,636,252; July 19.
- Carriage. Collapsible baby. S. L. Klingelsmith and F. J. Koppke. 1,633,864; June 28.
- Carriage. Collapsible baby. A. Melniker and S. Calmanson. 1,631,498; June 7.
- Carriage control. Hydraulic work-. A. P. Steiner. 1,643,262; Sept. 20.
- Carriage, gocart, and the like. Baby. F. K. Fischer. 1,652,004; Dec. 6.
- Carrier. See—
- Ash carrier.
 - Baggage carrier.
 - Braiding carrier.
 - Bundle carrier.
 - Clamp carrier.
 - Clothing and package carrier.
 - Cone carrier.
 - Contact carrier.
 - Creel carrier.
 - Dispatch carrier.
 - Dressing carrier.
 - Game carrier.
 - Garment carrier.
 - Golf-bag carrier.
 - Hat and parcel carrier.
 - Ice-can carrier.
 - Laundry carrier.
 - Luggage carrier.
 - Lumber carrier.
 - Medicament carrier.
 - Merchandise carrier.
 - Message carrier.
 - Mining-machine carrier.
 - Package carrier.
 - Pipe carrier.
 - Portable carrier.
 - Shawl carrier.
 - Sheaf carrier.
 - Step plate and luggage carrier.
 - Suspended carrier.
 - Tilting carrier.
 - Tire carrier.
 - Trace carrier.
 - Umbrella and package carrier.
 - Work carrier.
- Carrier. H. Blount. 1,647,263; Nov. 1.
- Carrier. C. P. Day. 1,650,496; Nov. 22.
- Carrier amplitude-control system. W. H. T. Holden. 1,628,883; May 17.
- Carrier device. Running-board. W. E. Parker. 1,650,848; Nov. 29.
- Carrier distributing and selecting apparatus. J. G. MacLaren. 1,628,607; May 10.
- Carrier-distributing apparatus. J. G. MacLaren. 1,613,565; Jan. 4.
- Carrier head. Detachable. W. F. Merrill. 1,651,333; Nov. 29.
- Carrier support. G. W. Clausen. 1,648,444; Nov. 8.
- Carrier system. Diverting and distributing mechanism for. W. J. Hepperle. 1,616,418; Feb. 1.
- Carrier systems. Jib-crane transfer device for overhead. E. T. Bennington. 1,640,344; Aug. 30.
- Carrier-transmission system. J. S. Jammer. 1,617,391; Feb. 15.
- Carrier-transmission system. J. S. Jammer. 1,617,393; Feb. 15.
- Carrier-transmission system. M. B. Long. 1,615,988; Feb. 1.
- Carrier-wave-transmission system. J. S. Jammer. 1,617,392; Feb. 15.
- Carrousel. A. Pinto. 1,631,331; June 7.
- Carrousel. Aquatic. F. Henkel. 1,647,623; Nov. 1.
- Carry iron. D. S. Barrows. 1,619,693; Mar. 1.
- Carry-off. C. J. Guthrielet. 1,640,768; Aug. 30.
- Carrying bag. M. A. Myers. Des. 73,619; Oct. 11.
- Carrying birds. Securing cages to. D. E. Rose, K. G. Fulliam, Jr., and H. E. Hossfeld. 1,638,216; Aug. 9.
- Carrying case. J. N. St. Lawrence. 1,647,551; Nov. 1.
- Carrying device or belt for breathing apparatus, particularly self-rescuing apparatus. A. B. Dräger. 1,636,766; July 26.
- Cart. P. Mosier. 1,649,176; Nov. 15.
- Cart. Clothes-basket. E. A. Hagberg. 1,642,731; Sept. 20.
- Cart. Concrete conveying and distributing. W. P. Stanton. 1,641,703; Sept. 6.
- Cart. Dump. J. Rice, Jr. 1,613,128; Jan. 4.
- Cart. Service. N. L. and F. J. Jarvis. 1,649,065; Nov. 15.
- Cart structure. R. Littlefield. 1,617,644; Feb. 15.
- Carton. A. E. Keppler. 1,653,914; Dec. 27.
- Carton. R. B. Moller. 1,614,843; Jan. 18.
- Carton. W. A. Morris. 1,630,497; May 31.
- Carton. W. A. Morris. 1,654,140; Dec. 27.
- Carton. W. W. Russell. 1,626,971; May 3.
- Carton. A. W. Scotcher. 1,614,972; Jan. 18.
- Carton. W. G. Terwilliger and J. Scudder. 1,652,746; Dec. 13.
- Carton-blank separator. G. Urban, Jr. 1,620,789; Mar. 15.
- Carton. J. Wagner. 1,620,174; Mar. 8.
- Carton. I. Wyse. 1,617,472; Feb. 15.
- Carton, Advertising and display. A. S. Napier. 1,636,066; July 19.
- Carton-blank separator. H. K. Becker and E. G. Jurgens. 1,638,518; Aug. 9.
- Carton-blank separator. J. H. Krapf. 1,637,560; Aug. 2.
- Carton closing and sealing machine. Filled-. W. D. Kimball and A. E. Rideout. 1,618,440; Feb. 22.
- Carton closing and sealing machine. Filled-. W. D. Kimball, A. E. Rideout, and M. McFaul. 1,615,631; Jan. 25.
- Carton-closing mechanism. W. S. Weber. 1,641,794; Sept. 6.
- Carton conveyers. Compensator for. G. A. Robinson. 1,636,014; July 19.
- Carton, Dispensing. R. C. McCrystal. 1,632,412; June 14.
- Carton, Dispensing. C. M. Sticht. 1,648,074; Nov. 8.
- Carton, Display. E. Evans. 1,620,167; Mar. 8.
- Carton, Display. C. C. Miller. 1,620,673; Mar. 15.
- Carton, Display. J. J. Ryan and J. Gaffney. 1,625,687; Apr. 19.
- Carton, Egg. E. W. Koesser. 1,653,633; Dec. 27.
- Carton, Egg. E. Schinscholl. 1,631,554; June 27.
- Carton, Egg. W. A. Schurmann. 1,634,596; July 5.
- Carton, Folding machine. S. R. Howard. 1,638,399; Aug. 9.
- Carton-feeding machine. J. M. and J. Schnur, F. Kesselring, and S. Jonisick. 1,625,057; Apr. 19.
- Carton-feeding mechanism for carton folding and filling machines. R. A. Jones. 1,624,740; Apr. 12.
- Carton, Foldable cellular. C. H. Goodyear. 1,636,508; July 19.
- Carton-handling apparatus. M. McFaul and A. E. Rideout. 1,634,078; June 28.
- Carton, Mailing. E. W. Winters. 1,625,756; Apr. 19.
- Carton, Packing or shipping. F. D. Pitt. 1,636,071; July 19.
- Carton, Sanitary sealed. F. A. Soles. 1,636,390; July 19.
- Carton-sealing machines. Delivery mechanism for. G. H. Bent. 1,618,911; Feb. 22.
- Cartoning machine. H. L. Evans and G. I. Hohl. 1,622,709; Mar. 29.
- Cartons, blocks, and similar articles in paper or like material. Apparatus for wrapping. W. Rose. 1,618,025; Feb. 15.
- Cartons, Machine for making. S. H. Goldberg and W. H. Hermsdorf. 1,645,135; Oct. 11.
- Cartons, Mechanism for lining. H. L. Evans and G. I. Hohl. 1,633,247; June 21.
- Cartons, similar containers. Inserting cards and the like in. G. W. Oliver. 1,646,658; Oct. 25.
- Cartons, Sealing machine for. E. P. Webster. 1,627,363; May 3.
- Cartridge, Blasting. A. W. Callis and F. E. Smoots. 1,622,992; Mar. 29.
- Cartridge, Blasting. J. H. Crawford, A. W. Helmholtz, and J. Ferris. 1,632,887; June 21.
- Cartridge-closing machine. W. de Garkovenko and M. Fighiera. 1,646,083; Oct. 18.
- Cartridge for use with liquid oxygen and producing same. C. Mott. 1,650,768; Nov. 29.
- Cartridge fuse. L. W. Kelsay. 1,638,524; Aug. 9.
- Cartridge magazine. R. Von Fromme. 1,645,031; Oct. 11.
- Cartridge-magazine loader. R. G. Clyne and G. B. Williams. 1,650,263; Nov. 22.
- Cartridge rack. M. McCune and C. L. Paulus. 1,634,953; July 5.
- Cartridge-reloading machine. E. P. Spencer. 1,642,344; Sept. 13.
- Cartridge, Safety blasting. P. T. McLaughlin and W. Anderson. 1,642,341; Sept. 13.
- Cartridge, Shot. E. M. Sweeley. 1,613,143; Jan. 4.
- Cartridge, Sporting. C. des Allimes. 1,624,649; Apr. 12.
- Cartridges, Primer for. O. C. Horney. 1,619,867; Mar. 8.
- Carving machine. Wood-. D. B. Salsstrom. 1,644,952; Oct. 1.
- Case. See—
- Auto key case.
 - Battery case.
 - Biscuit-display case.
 - Box, cigarette, and like case.
 - Brief case.
 - Cardcase.
 - Carpenter's tote case.
 - Carrying case.
 - Cigarette case.
 - Coffin case.
 - Compact case.
 - Containing case.
 - Cosmetic case.
 - Dental case.
 - Display and vanity case.
 - Display case.
 - Filing case.
 - Flashlight case.
 - Hypodermic case.
 - Identification-card case.
 - Key case.
 - Map case.
 - Mattress case.
 - Meier case.
 - Packing case.
 - Pencil case.
 - Propeller case.
 - Racket case.
 - Razor case.
 - Refrigerator show case.
 - Sample case.
 - Shipping case.
 - Show case.
 - Slug case.
 - Sorting case.
 - Spectacle case.
 - Spectacle or eyeglass case.
 - Tag case.
 - Thermometer case.
 - Ticket case.
 - Tobacco case.
 - Transmission case.
 - Traveling case.
 - Vanity case.
 - Vending and display case.
 - Violin case.
 - Watchcase.
 - Waterproof case.

- Case. M. J. Greubel. 1,631,371; June 7.
Case. W. Watt, Jr. 1,620,417; Mar. 8.
Case and razor holder, Combined. J. Kaufman. 1,632,840; June 21.
Case and table, Combined. J. I. Smith. 1,614,281; Jan. 11.
Case-filling machine. C. H. Wild. 1,619,839; Mar. 8.
Case for smokers' requisites, Articulated. W. C. Hiering. 1,632,335; June 14.
Case for stamps in roll form. E. M. Bolton. 1,617,791; Feb. 15.
Case for tape measure. E. J. Witchger. Des. 72,049; Feb. 15.
Case holder. W. H. Lester. 1,642,161; Sept. 13.
Case or box. S. H. Wismer and J. H. Thaidigman. 1,622,818; Mar. 29.
Case or container. W. G. Kendall. 1,653,293; Dec. 20.
Case-shift mechanism. J. F. Koca. 1,640,127; Aug. 23.
Casing and dial, Combined. H. Schlaich. Des. 73,870; Nov. 15.
Casing and frame for a washing machine, Combined. T. W. Behan. Des. 73,995; Dec. 6.
Casing and making the same. C. B. Alexander. 1,631,611; June 7.
Casing, Collapsible. W. J. Beasley. 1,648,890; Nov. 15.
Casing coupler. C. M. Claypoole and A. J. Eschenbaugh. 1,645,402; Oct. 11.
Casing cover and tool holder. F. W. Sadler. 1,625,774; Apr. 19.
Casing cutter. M. S. Black. 1,643,572; Sept. 27.
Casing cutter. G. D. Fawcett. 1,643,709; Sept. 27.
Casing elevator. E. E. Greve. 1,618,653; Feb. 22.
Casing elevator. G. Krell. Rel. 6,771; Oct. 11.
Casing for a cloth-measuring machine. F. J. Tillman. Des. 73,987; Nov. 29.
Casing for a weight-printing machine. V. F. Slezak. Des. 72,246; Mar. 15.
Casing for coin-controlled apparatus. J. G. Wynn. 1,626,999; May 3.
Casing for timepieces, Celluloid. J. S. Wilcox. 1,616,999; Feb. 8.
Casing from wells, Device for recovering. M. M. Kinley. 1,645,010; Oct. 11.
Casing head. J. E. Hitchcock. 1,620,888; Mar. 15.
Casing head. G. H. Jacques. 1,654,643; Dec. 27.
Casing head. J. I. Johnston. 1,650,181; Nov. 22.
Casing head. L. M. Pearce and J. O. McPherson. 1,642,745; Sept. 20.
Casing head. A. L. Segelhorst. 1,637,055; July 26.
Casing head. M. L. Sweeney. 1,629,749; May 24.
Casing head, Control. M. T. Archer. 1,648,039; Nov. 8.
Casing head, oil saver, and tubing lander, Combined. E. E. Crowell. 1,641,221; Oct. 6.
Casing heads, Blow-out-preventer attachment for. C. C. Hosmer. 1,635,749; July 12.
Casing protector. J. T. Wilcox. 1,620,933; Mar. 15.
Casing puller. W. N. Moore. 1,621,947; Mar. 22.
Casing puller. J. W. Price. 1,625,909; Apr. 26.
Casing puller and cutter. R. C. Lewis and F. S. Harris. 1,638,494; Apr. 9.
Casting ripper. T. S. Dietle. 1,618,368; Feb. 22.
Casting ship. G. A. Montgomery. 1,623,885; Apr. 5.
Casting spider, Safety. J. S. Taylor. 1,650,101; Nov. 22.
Casting swage, Rotary. K. R. Andre. 1,641,519; Sept. 6.
Casting, Transformer. L. C. Nichols. 1,620,953; Mar. 15.
Casting tubes in bore hole wells, or like. Scaling or fixing of. A. R. Neeldans. 1,649,846; Nov. 22.
Casting wedge. C. A. Rasmussen. 1,619,268; Mar. 1.
Casings and drill pipe, Cutting oil-well. H. M. Greene. 1,641,483; Sept. 6.
Cases, Article-containing. N. Kasdan and D. Pollack. 1,633,259; June 21.
Cases, boxes, bags, and such like, Fastening for attachment. C. W. Cheney. 1,624,859; Apr. 12.
Caselín, Manufacture of shaped articles of. A. Bartels and O. Miech. 1,623,085; Apr. 5.
Casement-window adjuster. G. Danielson. 1,617,898; Feb. 15.
Casement-window adjuster. C. E. Spencer and O. W. Roberts. 1,641,649; Sept. 6.
Cash drawer, Autographic-register. W. R. Barker and L. Jensen. 1,631,395; June 7.
Cash drawer, Automatic mechanically-controlled power-driven. F. Howell. 1,654,045; Dec. 27.
Cash register. W. W. Bowman. 1,652,087; Dec. 6.
Cash register. S. Brand. 1,648,980; Nov. 15.
Cash register. E. Breitting. 1,649,443; Nov. 15.
Cash register. R. A. Christian and E. Gates. 1,652,091; Dec. 6.
Cash register. F. L. Fuller. 1,623,722; Apr. 5.
Cash register. F. L. Fuller and W. H. Robertson. 1,619,664; Mar. 1.
Cash register. M. Jacob. 1,649,408; Nov. 15.
Cash register. J. J. Klostermann. 1,622,790; Mar. 29.
Cash register. W. J. Kreider. 1,636,747; July 26.
Cash register. W. H. Robertson. 1,613,129; Jan. 4.
Cash register. W. H. Robertson. 1,627,119; May 3.
Cash register. W. H. Robertson. 1,629,537; May 24.
Cash register. W. H. Robertson. 1,638,275; Aug. 9.
Cash register. B. M. Shipley. 1,614,540; Jan. 18.
Cash register. B. M. Shipley. 1,619,796; Mar. 1.
Cash register. B. M. Shipley. 1,626,880; May 3.
Cash register. B. M. Shipley. 1,628,336; May 10.
Cash register. B. M. Shipley. 1,633,042; June 21.
Cash register. B. M. Shipley. 1,648,999; Nov. 15.
Cash register. B. M. Shipley. 1,651,477; Dec. 6.
Cash register. B. M. Shipley. 1,652,057; Dec. 6.
Cash register. A. L. Valpey. 1,616,320; Feb. 8.
Cash register. E. J. Von Pein. 1,624,123; Apr. 12.
Cash register. E. J. Von Pein. 1,630,814; May 31.
Cash register. E. J. Von Pein. 1,645,209; Oct. 11.
Cash register and adding machine, Combined. W. L. Paden. 1,628,420; May 10.
Cash register, Automatic ribbon-reversing mechanism for. W. E. Lippert. 1,628,164; May 10.
Cashier's box. E. C. Cursons. 1,647,275; Nov. 1.
Cashier's robbery protector. H. Hagedstedt. 1,623,674; Apr. 5.
Casket. E. J. Greive. 1,620,544; Mar. 8.
Casket. H. Niemeyer. 1,657,271; July 26.
Casket, Burial. J. E. Falck. Des. 73,285; Aug. 23.
Casket, Burial. W. J. Fleeman. 1,622,777; Mar. 29.
Casket, Burial. C. Massey. 1,636,237; July 19.
Casket, Burial. Z. Maulsby. Des. 72,523; Apr. 26.
Casket, Burial. J. N. McConnell. 1,648,492; Nov. 8.
Casket handles, Lug for. G. C. Fahlow. Des. 72,632; May 10.
Casket-light fixture. A. H. Jones. Des. 71,799; Jan. 4.
Casket-lowering device. V. Phenix. 1,641,990; Sept. 13.
Casket, skid, and dolly, Combined. W. A. Hall. 1,639,035; Aug. 16.
Caskets and the like, Pedestal or support for. G. H. Wiffman. 1,614,909; Jan. 18.
Casket, Fastening or sealing device for burial. I. I. Inman. 1,640,410; Aug. 30.
Casserole. G. R. Ahrendts. Des. 73,220; Aug. 9.
Casserole. S. Brunt. Des. 73,061; July 19.
Casserole. J. Burian. Des. 74,138; Dec. 27.
Casserole cover. H. Lerner and A. Ginsburg. Des. 73,439; Apr. 12.
Casserole frame. H. Lerner and A. Ginsburg. Des. 73,091; July 19.
Casserole holder. S. W. Farber. Des. 72,703-4; May 24.
Casserole or similar article. G. R. Ahrendts. Des. 73,465; Sept. 20.
Cast iron, Manufacturing malleable. M. Kubo. 1,634,586; Jan. 18.
Cast pipe, Centrifugally. D. T. Beatty. 1,614,863; Jan. 18.
Cast wheel. E. F. Waterbor. 1,625,876; Apr. 26.
Caster. W. F. Herold. 1,620,657-8; Mar. 15.
Caster. W. F. Herold. 1,649,526-9; Nov. 15.
Caster. M. L. and F. J. Jarvis. 1,633,638; June 28.
Caster. W. G. Johnson. Des. 73,844-5; Nov. 15.
Caster. G. J. Kalberer. 1,622,447; Mar. 29.
Caster. M. E. Roe. 1,636,326; July 19.
Caster. E. Schultz. 1,634,631; July 5.
Caster. A. Theriault. 1,649,087; Nov. 15.
Caster. H. H. Thiedeman. 1,645,831; Oct. 18.
Caster centering and retaining device. R. S. Kirkpatrick. 1,625,213; Apr. 19.
Caster locking and releasing device. O. B. Woodrow. 1,613,004; Jan. 4.
Caster mechanism. M. E. Roe. 1,634,558; July 5.
Caster mechanism. M. E. Roe. 1,636,325; July 19.
Caster mounting. M. P. Bayer. 1,645,514; May 3.
Caster mounting. J. C. Nelson and P. E. Gelhof. 1,614,894; Jan. 18.
Caster, Retracting. M. W. Hazlett. 1,626,819; May 3.
Caster, Sanitary. R. W. Denslow. 1,641,127; Aug. 30.
Caster, slide, and the like. W. F. Herold. 1,649,525; Jan. 18.
Caster, Swivel. C. W. Brostedt. 1,649,946; Nov. 22.
Caster wheel. E. Schultz. 1,739,860; Aug. 23.
Caster wheel. G. W. Tanner. 1,619,590; Mar. 1.
Caster with brake and lock, Swivel. W. R. Darnell. 1,632,435; June 14.
Casting. N. M. Austin. 1,648,471; Nov. 8.
Casting. D. T. Beatty. 1,614,862; Jan. 18.
Casting. C. Vaughan. 1,645,730; Oct. 18.
Casting apparatus, Centrifugal. J. Merle. 1,651,288; Nov. 29.
Casting apparatus, Centrifugal. L. Reichold. 1,634,914; July 5.
Casting apparatus, Ingot. A. Forrest. 1,612,862; Jan. 4.
Casting apparatus, Metal. C. L. Lee and T. C. Van Degrift. 1,634,152; June 28.
Casting appliance, Centrifugal. L. W. Ayers. 1,639,253; Aug. 16.
Caster, Centrifugal. C. P. Wetmore. 1,650,043; May 24.
Casting, Combined stop lug and center filler. J. P. Williams. 1,650,407; Nov. 22.
Casting device for segmental plates. H. A. W. Wood. 1,623,991; Apr. 12.
Casting having chromium alloy surface. C. B. Jacobs. 1,632,704; June 14.
Casting machine. W. J. Christie. 1,631,399; June 7.
Casting machine. W. E. Clow. 1,618,112; Feb. 1.
Casting machine. E. Gutierrez. 1,615,696; Jan. 25.
Casting machine. J. G. Koedle. 1,627,093; May 3.
Casting machine, Blank. R. T. McGe. 1,648,415; Nov. 1.
Casting machine, Centrifugal. L. T. Knocke. 1,615,877; Feb. 1.
Casting machine, Centrifugal. L. I. Yoemans. 1,643,265; Sept. 20.
Casting machine, Continuous centrifugal. L. T. Knocke. 1,634,350; June 28.
Casting machines, Assembling mechanism for. E. Carlson. 1,617,577; Feb. 15.

- Casting machines, Metal-pouring apparatus for centrifugal. J. E. Hurst and E. B. Ball. 1,626,342; Apr. 26.
- Casting machines, Pipe mold for centrifugal. C. E. Wilder. 1,623,146; Apr. 5.
- Casting machines, Quick-detachable dam for the molds of centrifugal. M. A. Mikesh. 1,643,253; Sept. 20.
- Casting metal under pressure, Automatic machine for. O. Eckert. 1,644,054; Oct. 4.
- Casting metals, Mold for. W. H. Smith. 1,621,472; Mar. 15.
- Casting method and apparatus. F. S. Youtsey. 1,634,482; July 5.
- Casting mold. E. Boyle. 1,640,107; Aug. 23.
- Casting mold. C. D. Pettis. 1,662,727; Aug. 30.
- Casting mold. C. D. Pettis. 1,622,047; Mar. 22.
- Casting molds, Making. A. Beck. 1,614,820; Jan. 18.
- Casting of hollow bodies, Apparatus for the centrifugal. H. Burchartz. 1,648,442; Nov. 8.
- Casting or coating system, Centrifugal. A. W. Gray. 1,636,228; July 19.
- Casting patterns, Machine for operating upon. E. E. Foster. 1,627,696; May 10.
- Casting patterns, pattern mounts, and the like, Composition for making. C. H. Pope. 1,614,315; Jan. 11.
- Casting reel. J. Dodd. 1,621,003; Mar. 15.
- Casting, Rotary. A. M. Henry. 1,617,904; Feb. 15.
- Casting table. H. R. Schutz. 1,625,164; Apr. 19.
- Casting walls and the like, Form work for. S. C. Hollister. 1,640,997; Aug. 30.
- Catalysts, Apparatus for making. F. C. Granade. 1,614,360; Jan. 11.
- Castings from molds or flasks, Method and apparatus for freeing centrifugally-cast. W. D. Moore. 1,624,354; Apr. 12.
- Castings, Making metal. W. D. Moore. 1,614,846; Jan. 18.
- Castings such as ingot molds, Finishing. R. G. Coates. 1,635,060; July 12.
- Castellating machine. C. E. Pellow. 1,624,180; Apr. 12.
- Catafalque. J. R. Zentz. Des. 73,247; Aug. 9.
- Catalyst carrier, Production of. C. R. Downs. 1,636,685; July 26.
- Catalyst for ammonia synthesis. L. H. Greathouse. 1,618,004; Feb. 15.
- Catalytic apparatus. F. H. Bramwell. 1,618,265; Feb. 22.
- Catalytic reactions, Carrying on. F. A. Canon and C. E. Andrews. 1,616,824; Dec. 20.
- Catalytic reactions, Carrying on. F. A. Canon and C. E. Andrews. 1,614,185; Jan. 11.
- Catalytic reactions, Carrying on. J. M. Selden. 1,647,317; Nov. 1.
- Catastematic bandage. A. B. J. Kelly. 1,653,857; Dec. 27.
- Catastematic device. W. B. Bennett. 1,614,180; Jan. 11.
- Catastematic bed and womb support. W. S. Peloubet. 1,634,555; July 5.
- Catch. J. Buffington. 1,623,302; Apr. 5.
- Catenary suspension system. J. Holzel. 1,653,855; Dec. 27.
- Cathedral glass. G. L. Pilkington. Des. 72,029; Feb. 15.
- Catheter. E. Kallmeyer. 1,626,839; May 3.
- Cathode and preparing the same, Electron-emitting. F. Holborn. 1,626,770; Apr. 19.
- Cathode devices, Protective system for hot. R. L. Davis. 1,649,391; Nov. 15.
- Cathode rectifiers, Transformer connection for hot. E. W. Breisch. 1,652,557; Dec. 13.
- Cathodes, Manufacture of oxide-coated. W. B. Gero and G. W. Hallock. 1,648,941; Nov. 15.
- Catoptric light. H. C. Jensen. 1,629,506; May 24.
- Cattle guard. P. Hernton. 1,620,348; Mar. 8.
- Cattle guard. A. J. Shaw. 1,618,555; Feb. 22.
- Cattle guard. A. J. Shaw. 1,654,056; Dec. 27.
- Cattle stall, Adjustable. S. L. Hanson. 1,653,275; Dec. 20.
- Cause, Alkali, etc., Production of. L. Bradley and E. P. McKee. 1,637,514; Aug. 2.
- Caustic alkali solutions, Regenerating. W. H. Allen. 1,647,764; Nov. 1.
- Caustic fusions, Effecting. D. G. Rogers. 1,644,493; Oct. 4.
- Caviar, Making. D. H. Smith. 1,623,601; Apr. 5.
- Cavings, Device for preventing. J. W. McCulloch and R. E. Francis. 1,648,766; Oct. 18.
- Celling and floor pipe plate. M. H. Paine. 1,651,024; Dec. 6.
- Celling bands, Adjustable yoke for. W. A. Spott. 1,617,184; Feb. 8.
- Celling connector device. R. B. Benjamin. 1,646,808; Oct. 25.
- Celling fixture. C. M. Hickman. 1,618,196; Feb. 22.
- Celling furring, Supporting. G. F. Pawling. 1,625,866; Apr. 26.
- Celling light. M. Klein. Des. 72,852-3; June 14.
- Cell and making the same, Primary. M. L. Martus and E. H. Becker. 1,644,389; Oct. 4.
- Cell, Galvanic. B. K. Brown. 1,639,983; Aug. 23.
- Cell, Primary. M. L. Martus and E. H. Becker. 1,644,344; Oct. 4.
- Cell transmitter, Multiple light. C. F. Jenkins. 1,641,633; Sept. 6.
- Cellar, Oil. J. Rain. 1,641,601; Sept. 6.
- Cellular blocks, Making. H. S. Ashenbush. 1,618,639; Jan. 11.
- Cellulose acetate and making the same. R. Baybutt and E. S. Farrow, Jr. 1,635,026; July 5.
- Cellulose acetate, Bleaching. R. Baybutt and E. S. Farrow, Jr. 1,623,519; Apr. 5.
- Cellulose acetate composition. S. J. Carroll. 1,641,411-2; Sept. 8.
- Cellulose-acetate composition of low inflammability. S. J. Carroll. 1,631,463; June 7.
- Cellulose-acetate composition of low inflammability. S. J. Carroll. 1,641,413; Sept. 6.
- Cellulose acetate, Manufacture of. L. A. Levy. 1,652,024; Dec. 6.
- Cellulose acetate, Manufacture of. H. J. Mallabar. 1,652,573; Dec. 13.
- Cellulose acetate, Treating. E. S. Farrow, Jr. 1,634,986; July 5.
- Cellulose and rubber, Combining. S. A. Ogden. 1,617,495; Feb. 15.
- Cellulose composition. W. G. Lindsay. 1,620,977; Mar. 15.
- Cellulose composition. W. G. Lindsay. 1,630,752; May 31.
- Cellulose composition and process. W. G. Lindsay. 1,616,910; Feb. 8.
- Cellulose compound and making same. L. Lilienfeld. 1,642,587; Sept. 13.
- Cellulose-containing materials, Altering viscosity of. H. P. Bassett. 1,620,938; Mar. 15.
- Cellulose derivatives, Treatment of. G. H. Ellis. 1,641,965; Sept. 13.
- Cellulose-ester composition. J. G. Davidson. 1,617,237; Feb. 8.
- Cellulose-ester composition. G. L. Schwartz. 1,633,683; June 28.
- Cellulose ester composition, Actinism-proof. J. H. Ciewell, Jr. 1,647,435; Nov. 1.
- Cellulose ester compositions, Method and composition for polishing surfaces composed of. J. E. Hirsch and A. D. Robson. 1,621,780; Mar. 22.
- Cellulose esters, Manufacturing. P. Berthon. 1,651,990; Dec. 6.
- Cellulose esters, Solution of. J. G. Davidson. 1,644,417-20; Oct. 4.
- Cellulose ethers, Reducing the viscosity characteristics of. P. C. Seel. 1,635,013; July 5.
- Cellulose fabric, Cross-dyeing. J. C. Watson. 1,629,769; May 24.
- Cellulose fabric, Cross-dyeing. J. C. Watson. 1,629,770; May 24.
- Cellulose. Fermentation of. H. Langwell. 1,639,571; Aug. 16.
- Cellulose fiber, Manufacture of high alpha. G. A. Richter and M. O. Schur. 1,643,355; Sept. 27.
- Cellulose-fiber product treated with a size-embodiment soybean flour and making the same. G. Davidson, H. F. Rippey, C. N. Cone, I. F. Laucks, and H. P. Banks. 1,622,496; Mar. 29.
- Cellulose from the bagasse of sugar cane, Extracting the pure. E. C. H. Valet. 1,630,147; May 24.
- Cellulose from wood pulp, Manufacture of nitrated. V. Planchon. 1,641,292; Sept. 6.
- Cellulose, Making soluble mixtures of low and high fatty-acid esters of. P. Berthon. 1,651,991; Dec. 6.
- Cellulose, Manufacture of granular. R. Magondeaux. 1,628,549; May 10.
- Cellulose nitrate, Acceleration of gelatinization of. R. C. Moran. 1,640,712; Aug. 30.
- Cellulose product and making same. H. H. Clark. 1,618,572; Feb. 22.
- Cellulose, Treatment of. F. Olsen and H. A. Aaronson. 1,615,343; Jan. 25.
- Cellulose, wood pulp, etc., Primary strainer for. C. M. Hansen. 1,629,619; May 24.
- Cellulose material, Bleaching. G. A. Richter and M. O. Schur. 1,639,704; Aug. 23.
- Cement, Abrasive. H. O. Keay. 1,650,133; Nov. 22.
- Cement and apparatus therefor, Manufacture of fused. G. Dumas. 1,615,260; Jan. 25.
- Cement and bulk material, Method and apparatus for handling. W. H. Drath. 1,634,255; July 5.
- Cement and lime burning. G. E. Heyl. 1,625,853; Apr. 26.
- Cement and making the same, Hydraulic. H. S. Spackman. 1,643,137; Sept. 20.
- Cement and the like, Manufacture of hydraulic. O. Gerlach. 1,627,170; May 8.
- Cement, Casing. E. R. Schmid. 1,626,700; May 3.
- Cement block. C. A. Johnson. Des. 71,798; Jan. 4.
- Cement block mold. C. A. Covey. 1,647,436; Nov. 1.
- Cement composition. C. E. Kraus. 1,629,714; May 24.
- Cement composition. R. S. Lindstrom. 1,633,790; June 28.
- Cement composition and preparation. A. M. Nicolson. 1,636,830; July 26.
- Cement compositions, Material for use in. R. J. Wig. 1,616,732; Sept. 6.
- Cement, Fabric. N. C. Amen. 1,643,437; Sept. 27.
- Cement-form holder. G. H. Olson. 1,632,913; June 21.
- Cement, Impregnating and waterproofing to the main body and face of concrete brick. Applying. C. S. Wert. 1,641,874; Sept. 6.
- Cement kiln-feder. R. W. Ryder. 1,628,197; May 10.
- Cement-lined pipe, Method of and apparatus for making. R. J. Newsum. 1,629,292; May 17.
- Cement, Making. L. Kern. 1,623,876; Apr. 5.

- Cement, Manufacture of. T. Rigby. 1,628,000; May 10.
 Cement, Manufacture of Portland. C. Pontoppidan. 1,618,295; Feb. 22.
 Cement marker. G. A. Johnson. 1,616,087; Feb. 1.
 Cement material, etc., Grinding. E. Z. Dalgaard. 1,649,833; Nov. 22.
 Cement-measuring and water-proportioning device. J. F. Robb. 1,628,915; May 17.
 Cement mixture. F. H. Christiansen. 1,618,512; Feb. 22.
 Cement raw materials in rotary kilns, Treatment of. M. Vogel-Jorgensen. 1,627,585; May 10.
 Cement tile, Aggregate. G. N. Jeppson. 1,619,733; Mar. 1.
 Cement, Treating wet raw materials in the manufacture of. J. S. Fasting. 1,627,553; May 10.
 Cement, Waterproof. H. V. Welch. 1,644,964; Oct. 11.
 Cementation in the ground. H. E. Potts. 1,635,500; July 12.
 Cementing apparatus. G. J. Gorsuch. 1,634,496; July 5.
 Cementing baller. S. D. Coates, P. H. Davis, and A. B. Jenks. 1,621,970; Mar. 22.
 Cementing composition, Waterproof. G. F. Dreher. 1,631,671; June 7.
 Cementing head. H. A. and C. F. Davis. 1,629,022; May 17.
 Cementing machine. H. F. Lewis. 1,647,235; Nov. 1.
 Cementing material. J. T. Griffin. 1,632,404; June 14.
 Cementing soles or heels to shoes, Apparatus for use in. S. W. Burtchell. 1,653,449; Dec. 20.
 Cementing, Well. F. W. Huber. 1,647,003; Oct. 25.
 Cementitious material, Apparatus for molding. J. P. McKnight. 1,625,486; Apr. 19.
 Cementitious material, Manufacturing. H. S. Spackman. 1,643,136; Sept. 20.
 Cementitious material, Plastic. H. E. Brookby. 1,627,952; May 10.
 Cementitious materials, Machine for mixing. D. W. Pye. 1,613,846; Jan. 11.
 Cementitious mixture, Apparatus for effecting a continuous preparation and delivery of. A. O. E. Bornhauser and J. E. Herman. 1,645,518; Oct. 18.
 Centering and marking machine, Shaft. M. H. Damerell. 1,640,395; Aug. 30.
 Centering device. F. L. Alben. 1,645,271; Oct. 11.
 Centering machine. C. Schramm. 1,622,678; Mar. 29.
 Centrepiece and flower block, Combined. W. H. Magee. Des. 73,411; Sept. 6.
 Centrepiece, Table. E. Magnusson. Des. 73,093; July 19.
 Centrifugal apparatus. J. M. Schutz. 1,612,837; Jan. 4.
 Centrifugal apparatus. J. M. Schutz. 1,639,538; Aug. 10.
 Centrifugal apparatus and process for continuously separating liquids from solids. H. C. Behr. 1,642,662; Sept. 13.
 Centrifugal contact apparatus. P. M. Kuehn. 1,634,199; July 28.
 Centrifugal drier. G. H. Elmore. 1,634,868; July 5.
 Centrifugal drums, Apparatus for lifting out and cleaning. K. J. Svensson and K. A. P. Norling. 1,635,233; July 12.
 Centrifugal extractor. T. A. Bryson and F. I. Williams. 1,640,978; Aug. 30.
 Centrifugal extractor. E. J. Carroll. 1,652,760; Dec. 13.
 Centrifugal fan separator. W. M. Barker. 1,616,566; Feb. 8.
 Centrifugal fixture. C. G. Hawley. 1,612,815; Jan. 4.
 Centrifugal fixture. C. G. Hawley. 1,639,562; Aug. 16.
 Centrifugal machine. W. C. Coleman. 1,637,552; Aug. 2.
 Centrifugal machine. L. D. Jones and A. U. Ayres. 1,625,613; Apr. 19.
 Centrifugal machine. R. Lehkj. 1,628,321; May 10.
 Centrifugal machine. C. A. Oleott. 1,652,908; Dec. 13.
 Centrifugal machine. C. T. Ordway. 1,620,568; Mar. 8.
 Centrifugal machine. E. Roberts. 1,627,899; May 10.
 Centrifugal machine. W. B. Wescott. 1,630,412; May 31.
 Centrifugal machine and process involving the use of the same. L. D. Jones and A. U. Ayres. Re16,640; May 31.
 Centrifugal machine and process involving the use of the same. L. D. Jones and A. U. Ayres. 1,654,245-6; June 28.
 Centrifugal machines, Brake-actuating mechanism for. W. Colclough. 1,634,651; July 5.
 Centrifugal machines, Safety guard for. T. A. Bryson. 1,628,303; May 10.
 Centrifugal machines, Safety guard for. T. A. Bryson. 1,649,947; Nov. 22.
 Centrifugal machines, Safety switch for. L. C. Schenck. 1,633,039; June 21.
 Centrifugal regulator. L. A. Dolgoun. 1,635,314; July 12.
 Centrifugal separator. B. C. Carter. 1,619,652; Mar. 1.
 Centrifugal separator. R. Gamper. 1,614,357; Jan. 11.
 Centrifugal separator. J. W. Hinchley and C. S. Watson. 1,613,579; Jan. 4.
 Centrifugal separator. L. D. Jones. 1,634,244; June 28.
 Centrifugal separator. G. ter Meer. 1,651,421; Dec. 6.
 Centrifugal separator. V. E. Metcalfe. 1,630,201; May 24.
 Centrifugal separator. T. C. Thomsen. 1,625,919; Apr. 26.
 Centrifugal spreader. W. Z. Pulliam. 1,644,031; Oct. 4.
 Centrifugal switch. V. E. Johansen. 1,651,708; Oct. 6.
 Centrifugal switch. B. Robinson. 1,647,374; Nov. 1.
 Centrifugal treatment of substances, Method and mechanism for. L. D. Jones. 1,634,243; June 28.
 Centrifuge, Analytical. T. Svedberg and J. B. Nichols. 1,648,369; Nov. 8.
 Centrifuge effluents, Method and mechanism for removing. L. D. Jones. 1,634,242; June 28.
 Ceramic and making the same. L. B. Bernheim. 1,654,401; Dec. 27.
 Ceramic and other products, Firing. C. T. Holcroft and C. E. Doll. 1,620,022; Mar. 8.
 Ceramic articles and producing them. A. F. Gorton. 1,612,916; Jan. 4.
 Ceramic articles, Making laminated. G. N. Jeppson and M. F. Beecher. 1,614,926; Jan. 18.
 Ceramic insulating material. H. H. Sortwell. 1,633,462; June 21.
 Ceramic material. J. A. Jeffery and E. T. Montgomery. 1,631,730; June 7.
 Ceramic members, Making. F. C. Simms. 1,632,319; June 14.
 Ceramic process and product. T. C. and W. O. Prouty. 1,628,910; May 17.
 Ceramic products, Firing. W. L. Hanley, jr. 1,636,417; Jan. 18.
 Ceramic products, Plant for manufacturing. W. L. Hanley, jr. 1,641,582-4; Sept. 6.
 Ceramic products, Production of. W. Vershofen. 1,628,522; May 10.
 Ceramics and the like, Apparatus and process for burning. H. Koppers. 1,631,536; June 7.
 Cereal beverage compound. L. A. Negly and P. S. Black. 1,631,829; June 7.
 Cereal beverage compounds, Preparing. L. A. Negly and P. S. Black. 1,631,830; June 7.
 Cereal cleaner and separator. C. A. Shultz. 1,632,929; June 21.
 Cereal food product. F. Matzelle. 1,643,507; Sept. 27.
 Cereal substances, Treatment of. D. W. Kent-Jones and C. W. Chitty. 1,636,569; July 19.
 Cereals and drying of grain moistened for this purpose, Removal of the. S. Steinmetz. 1,637,091; July 26.
 Cereal container. S. K. Wood. 1,654,228; Dec. 27.
 Certificate holder. G. A. E. Mellin. 1,617,718; Feb. 15.
 Chain. F. W. Emrick. 1,623,172; Apr. 5.
 Chain. F. W. Emrick. 1,652,932; Dec. 13.
 Chain. W. Kuehner. 1,626,416; Apr. 26.
 Chain. M. Sabin. 1,621,954; Mar. 22.
 Chain. E. V. Shirley. 1,620,618; Mar. 8.
 Chain. E. Speidel. 1,624,287; Mar. 15.
 Chain and links, Steel conveyor. G. L. Morehead and F. S. O'Neil. 1,638,267; Aug. 9.
 Chain-adjusting device. F. L. Morse. 1,648,911; Nov. 15.
 Chain-adjusting device. F. L. Morse. 1,651,831; Nov. 15.
 Chain anchoring member for vehicle wheels, Cross. J. D. Collins. 1,647,784; Nov. 1.
 Chain and part therefor. F. Müller. 1,649,845; Nov. 22.
 Chain, Antiskid. C. F. Fisher. 1,627,025; May 3.
 Chain, Antiskid cross. W. J. Boyer. 1,651,439; Dec. 6.
 Chain, Brackets. O. Klink. Des. 71,839; Jan. 11.
 Chain, bracelet, or the like, Flexible. R. S. Grant. 1,635,268; July 12.
 Chain connector. J. D. Riehle. 1,648,507; Nov. 8.
 Chain connection. V. E. Provost. 1,650,682; Nov. 29.
 Chain, Conveyor. F. L. Furbush. 1,614,786; Jan. 18.
 Chain conveyor. L. Lomando. 1,629,515; May 24.
 Chain, Conveyor. R. H. Pangborn. 1,641,042; Sept. 6.
 Chain, Conveyor. E. P. Webster. 1,621,859; Mar. 22.
 Chain coupling. C. C. Haumerson. 1,627,776; May 10.
 Chain coupling and tightener. L. Travis. 1,634,698; July 5.
 Chain, Cutter. C. E. Davis. 1,644,181; Oct. 4.
 Chain, Cutter. F. W. Vodoz. 1,626,016; Apr. 26.
 Chain drive. C. P. Kottowski. 1,624,892; Apr. 12.
 Chain, Drive. F. L. Morse. 1,634,334; July 5.
 Chain, Drive. F. L. Morse. 1,651,832; Dec. 6.
 Chain, Drive. G. W. Willmot. 1,631,237; June 7.
 Chain, Drive. G. W. Willmot and F. H. Blatch. 1,629,755; Mar. 24.
 Chain fastener. H. C. Kittelson. 1,613,278; Jan. 4.
 Chain fastener. J. W. Meade. 1,618,941; Feb. 22.
 Chain fastener. A. F. Soenksen. 1,647,940; Nov. 1.
 Chain for coal-loading machines, Conveyor. T. L. Johnson. 1,635,086; July 5.
 Chain. C. P. La Shelle and W. A. Behrens. 1,635,552; July 12.
 Chain, Heavy-tension lap-link. W. J. Mullally. 1,624,111; Apr. 12.
 Chain hook, Nonskid cross. L. Browne. 1,619,188; Mar. 1.
 Chain hook opener and closer, Cross. J. Chenoweth. 1,646,346; Oct. 18.
 Chain idler, Double adjustable drive. H. G. Gay. 1,631,258; June 7.
 Chain, Key. M. Falk. 1,626,334; Apr. 26.
 Chain link. W. J. Bryan. 1,633,454; June 21.
 Chain, Link. F. Hannan. 1,649,956; Nov. 22.
 Chain link. N. Perry. 1,635,355; July 12.
 Chain link. L. A. Veigel. 1,620,048; Mar. 8.
 Chain link and bit, Mining-machine. N. K. Bowman. 1,615,738; Jan. 25.
 Chain link and making the same. M. B. Ryan. 1,614,900; Jan. 18.

- Chain-link opening and closing device. F. A. Calkins. 1,622,627; Mar. 29.
- Chain link, Sprocket-. E. J. Armstrong. 1,653,832; Dec. 27.
- Chain, lock and rope or flexible-material misplacement, Skid. W. A. Whitaker. 1,639,205; Aug. 16.
- Chain-making machine. M. Olson. 1,624,063; Apr. 12.
- Chain-making machine. J. Wenz. 1,637,758; Aug. 2.
- Chain manufacturing machinery. J. H. Hewitt and B. W. Harcourt. 1,627,972; May 10.
- Chain, Mining machine. F. L. Fulke. 1,650,566; Nov. 22.
- Chain, Nonskid. J. Naiser. 1,615,752; Jan. 25.
- Chain, Nonskid. C. A. Ware and A. Deichmiller. 1,627,587; May 10.
- Chain-operating device. L. W. Jones. 1,647,801; Nov. 1.
- Chain ornament. G. W. Goodridge. 1,646,999; Oct. 25.
- Chain pendant. W. G. Dunham. Des. 74,050; Dec. 13.
- Chain pipe vise. S. J. Welter. 1,653,326; Dec. 20.
- Chain pipe wrench. W. G. Hughes. 1,626,238; Apr. 26.
- Chain, Power drive. F. L. Morse. 1,624,058; Apr. 12.
- Chain, Power-transmission. W. J. Belcher. 1,638,388; Aug. 9.
- Chain, Power-transmission. W. J. Belcher. 1,644,656; Oct. 4.
- Chain, Ring, Trap-. L. M. Dart and G. G. Harris. 1,634,177; June 28.
- Chain-saw link and bushing therefor. S. J. Bens. 1,617,566; Feb. 15.
- Chain, Sprocket. J. S. Orr. 1,642,459; Sept. 13.
- Chain, Tension fastening for antislip. A. G. Hartung. 1,619,471; Mar. 1.
- Chain tightener. R. N. Wilson. 1,628,019; May 10.
- Chain tightener and fastener, Automobile. G. Nichols. 1,624,967; Apr. 19.
- Chain-tightening device, Antiskid-. E. Crowell. 1,632,664; June 14.
- Chain, track drives, Chain wheel for. V. Jereczek. 1,633,746; Dec. 28.
- Chain, Traction. S. S. Kempf. 1,623,014; Mar. 29.
- Chain, Tractor. H. Y. Law. 1,637,777; Aug. 2.
- Chain, Transmission. W. J. Belcher. 1,638,139; Aug. 9.
- Chain-wrapping machine. C. B. Hutchison. 1,613,832; Jan. 11.
- Chain wrench. N. Douglass. 1,628,518; Apr. 26.
- Chain wrench. C. J. Rewett. 1,643,825; Sept. 27.
- Chains, Cleaner device for tenter. C. Roemer. 1,614,395; Jan. 11.
- Chains, Coupling means for. O. G. Crannell. 1,632,697; June 14.
- Chain, Link joint for. S. J. Bens. 1,634,645; July 5.
- Chains, Nonskid device for. R. Scott and G. H. Poulton. 1,650,302; Nov. 22.
- Chains or belts, Link for. S. J. Bens. 1,634,644; July 5.
- Chair-. See-
- Adjustable chair. Revolving chair.
- Baby's chair. Rock chair.
- Bench chair. Sreod chair.
- Beam and joist chair. Support chair.
- Collapsible chair. Swiveling chair.
- Convertible chair. Theater chair.
- Dental chair. Therapeutic chair.
- Easy-chair. Tip-up and like chair.
- Folding chair. Toilet chair.
- High chair. Twin chair.
- Nursery chair. Vibrating chair.
- Rail chair. Wheel chair.
- Reclining chair.
- Chair. J. B. Adler. Des. 73,275; Aug. 23.
- Chair. M. Antrobus. Des. 72,464; Apr. 19.
- Chair. O. B. Bach. Des. 72,137; Mar. 8.
- Chair. F. Braugher. Des. 73,247; Aug. 16.
- Chair. A. J. Craven. 1,652,165; Dec. 13.
- Chair. C. H. De Frehn. 1,650,697; Nov. 29.
- Chair. R. C. Erskine. Des. 72,995; July 5.
- Chair. G. D. Fiang. 1,619,503; Mar. 1.
- Chair. L. E. Gottlieb. Des. 74,010; Dec. 6.
- Chair. W. H. Gunlocke and G. J. Pike. 1,644,336; Oct. 4.
- Chair. T. R. Hayes. 1,627,388; May 3.
- Chair. D. H. McGeough. 1,647,926; Nov. 1.
- Chair. B. W. McLean. Des. 73,581; Sept. 27.
- Chair. A. Miller. 1,629,630; May 24.
- Chair. C. W. Weston. Des. 73,349; Aug. 23.
- Chair and easel, Collapsible. W. J. Steward. 1,619,381; Mar. 1.
- Chair and easel, Collapsible. W. J. Steward. 1,640,380; Aug. 30.
- Chair and step ladder, Combination. W. O. Seaman. 1,654,389; Dec. 27.
- Chair and stool, Combined. C. Orr. 1,618,220; Feb. 22.
- Chair and swing, Collapsible. O. Hawkins. 1,621,367; Mar. 15.
- Chair and the like, Invalid. M. E. Roe. 1,651,728; Dec. 6.
- Chair attachment. A. J. Perron. 1,653,469; Dec. 20.
- Chair back. E. P. Wanner. Des. 74,085; Dec. 10.
- Chair brace. G. W. Carter. 1,619,402; Mar. 1.
- Chair for infants, Collapsible. H. W. S. Hoy. 1,621,930; Mar. 22.
- Chair glides, Making. W. Racburn. 1,617,294; Feb. 8.
- Chair, headrest, Barber's. J. E. Lasner. 1,639,194; Aug. 16.
- Chair hub. S. M. Bump. 1,643,694; Sept. 27.
- Chair seat. C. A. Epps. 1,613,317; Jan. 4.
- Chair support. F. E. Hunter and H. L. Hooper. 1,644,924; Oct. 11.
- Chair table set. B. S. Livingood. 1,622,327; Mar. 29.
- Chairs and the like, Canopy for. C. A. Blackwood. 1,639,074; Aug. 16.
- Chairs, Headrest for barber. J. J. Reeder. 1,929,306; May 17.
- Chairs, Holding device for. T. and E. V. Cote. 1,629,204; May 17.
- Chairs or similar articles of furniture, Drawer construction for. B. Blumental. 1,641,249; Sept. 6.
- Chairs or stools and the like, Seat frame for. F. H. Headley. 1,641,330; Sept. 6.
- Chair, Rotatable electric connector for. L. J. Fortier. 1,651,266; Nov. 29.
- Chalk-line holder and chalking device. F. A. Schroeffer. 1,649,747; Nov. 15.
- Chandelier. H. Aglow. Des. 72,053; Feb. 22.
- Chandelier. H. Aglow. Des. 72,077; Mar. 1.
- Chandelier. J. A. Boehringer. Des. 72,755; May 31.
- Chandelier. J. A. Boehringer. Des. 72,927; June 28.
- Chandelier. J. A. Boehringer. Des. 73,481; Sept. 20.
- Chandelier. H. Finch. Des. 72,823; June 14.
- Chandelier. M. Klein. Des. 72,832; June 14.
- Chandelier. A. Krause. Des. 74,059-61; Dec. 13.
- Chandelier. F. K. Maetz. Des. 74,150-2; Dec. 27.
- Chandelier. A. P. Seidell. Des. 72,452; Apr. 12.
- Chandelier. A. P. Seidell. Des. 73,057; July 26.
- Chandelier. E. Unger. 1,636,723; July 12.
- Chandelier. G. E. Villaret. Des. 72,643-44; May 10.
- Chandelier. F. Yokel. Des. 73,352-3; Aug. 23.
- Chandelier, Arm for a. J. A. Boehringer. Des. 72,754; Mar. 31.
- Chandelier, Base for. G. E. Villaret. Des. 73,016; July 5.
- Chandelier body, Arm for a. J. A. Boehringer. Des. 72,929; June 28.
- Chandelier brace. F. Yokel. Des. 73,357; Aug. 23.
- Chandelier, Electric. S. Frost. Des. 72,314; Mar. 29.
- Chandelier loop. F. Yokel. Des. 73,358; Aug. 23.
- Chandelier mechanism. F. M. Lee. 1,643,665; Sept. 27.
- Chandelier or article of similar nature. I. Levy. Des. 73,571; Oct. 4.
- Chandelier or article of similar nature. T. J. Petersen. Des. 72,109; Mar. 1.
- Chandelier or article of similar nature. T. J. Petersen. Des. 73,194; Aug. 2.
- Chandelier or article of similar nature. T. J. Petersen. Des. 73,196-7; Aug. 2.
- Chandelier or article of similar nature. T. J. Petersen. Des. 73,539; Sept. 27.
- Chandelier or article of similar nature. I. Rosenblatt. Des. 72,681-82; May 17.
- Chandelier or article of similar nature. I. Rosenblatt. Des. 73,200; Aug. 2.
- Chandelier or article of similar nature. G. E. Villaret. Des. 72,120-1; Mar. 1.
- Chandelier or article of similar nature. G. E. Villaret. Des. 72,197; Mar. 8.
- Chandelier or article of similar nature. G. E. Villaret. Des. 72,742; May 24.
- Chandelier or similar article. G. E. McFadden. Des. 73,388; Aug. 30.
- Chandelier or the like. M. Peinlich. Des. 73,266; Aug. 16.
- Chandeliers, Medallion for. C. W. Logan. Des. 73,325; Aug. 23.
- Changeable seat. S. Bursztyn. 1,618,697; Feb. 22.
- Changeable-top table. F. Cacha. 1,649,388; Nov. 15.
- Change making and electing mechanism. F. Hedley and J. S. Doyle. 1,629,621; May 24.
- Change-making device. F. Kingsley. 1,627,562; May 10.
- Change-returning device. L. B. Nordlund. 1,631,326; June 7.
- Channel section, Curved. F. Hornby. 1,614,958; Jan. 18.
- Channel signaling, Plural. R. A. Heising. 1,633,100; June 21.
- Channeling machine. H. A. Ballard. 1,623,225-6; Apr. 6.
- Channeling machine. E. J. Raverty. 1,647,885; Nov. 1.
- Chaplet. C. H. Reeder. 1,648,244; Nov. 8.
- Chaplet, Molder's. G. L. Walt. 1,616,772; Feb. 8.
- Chargool, Electrically active, Highly-active. O. Ernst and O. Nicodemus. 1,621,195; Mar. 15.
- Charge-forming device, Auxiliary. A. J. Coppock. 1,638,567; Aug. 9.
- Charging and voltage-regulating system, Automatic. H. E. Oberglott. 1,612,875; Jan. 4.
- Chart or similar article. I. P. Orlick. Des. 72,070; Feb. 22.
- Chart. H. B. Tabor. 1,613,488; Jan. 4.
- Chart. F. Wittenberg, Jr. 1,630,916; May 31.
- Chart-holding cabinet for oculists, Illuminated. J. E. Reid. 1,647,195; Nov. 1.
- Chart, Perspective. H. Birker. 1,618,164; Feb. 22.
- Chart, Trail. E. C. Lisk. 1,618,839; Feb. 22.
- Chassis. F. W. Ayres. 1,625,972; Apr. 26.
- Chassis, Automobile. H. E. Cross. 1,638,292; Aug. 9.
- Chassis, Four-wheel rear-drive. M. M. Brockway. 1,650,006; Nov. 22.
- Chassis lubrication. E. J. Bloom. 1,632,767; June 14.
- Chassis, Motor-truck. N. L. Olson. 1,619,368; Mar. 1.
- Chassis mounting. E. H. Palmer. 1,615,132; Jan. 18.
- Chassis support, Pneumatic. H. B. Stansbury. 1,645,826; Oct. 18.
- Check. J. Bullock. 1,621,457; Mar. 15.
- Check book. S. J. Halperin. 1,642,439; Sept. 13.

- Check book. G. J. May. 1,646,033; Oct. 18.
 Check-book holder, Folding-. H. O. Cooper. 1,650,608; Nov. 29.
 Check books, Stub holder for. F. Johnson. 1,635,625; July 12.
 Check-controlled lock. M. H. Richardson and A. E. Gebert. 1,624,980; Apr. 19.
 Check-controlled machines, Slug detector for. A. A. Calle. 1,627,726; May 10.
 Check-controlled mechanism. J. M. Perry. 1,623,970; Apr. 12.
 Check device, Safety. C. E. Loose. 1,633,114; June 21.
 Check-dispensing machine. G. S. Rider. 1,637,710; Aug. 2.
 Check draft. M. Zenther. 1,626,174; Apr. 26.
 Check-indorser-inking mechanism. H. Swanson. 1,617,879; Feb. 15.
 Check-indorser machine. H. Swanson. 1,617,874; Feb. 15.
 Check, Parking. J. Dyer. 1,650,616; Nov. 29.
 Check protector. R. I. Harris. 1,631,863; June 7.
 Check protector. S. E. Hoffman. 1,634,105; June 28.
 Check protector. J. A. Kinde. 1,621,419; Mar. 15.
 Check protector. E. Reubens. 1,627,619; May 10.
 Check, Rebound. E. R. Godfrey. 1,641,381; Sept. 6.
 Check-room appliance. F. E. Klein. 1,621,792; Mar. 22.
 Check, Seat or hat. C. T. Rabert. 1,616,869; Feb. 8.
 Check, Traveler's. J. T. Bacon. 1,621,865; Mar. 22.
 Check valve for respirating apparatus. A. B. Dräger. 1,621,498; Mar. 22.
 Checker and chess board, Combined. N. Rapport. Des. 74,025; Dec. 6.
 Checkerboard. W. P. Solod. 1,641,104; Aug. 30.
 Checker work. A. J. F. Cousin. 1,648,164; Nov. 8.
 Checking and assembling table. G. A. Oliver. 1,615,719; Jan. 25.
 Checking device. R. O. Scott. 1,644,155; Oct. 4.
 Checking machine. D. E. Harding. 1,621,982; Mar. 22.
 Checking table, Foldable. W. J. Hausman. 1,638,805; Aug. 9.
 Checks, Protecting. C. A. MacCordy. 1,622,329; Mar. 29.
 Checkweighing and grading by weight, Machine for. E. B. Elder. 1,619,787; Mar. 1.
 Cheeking machine. D. E. Harding. 1,648,845; Nov. 8.
 Cheese and making the same, Processed. E. E. Eldredge. 1,634,410; July 5.
 Cheese, Apparatus for pressing. J. R. Meyers. 1,625,129; Apr. 19.
 Cheese cutter. N. and E. de Francis. 1,631,918; Dec. 6.
 Cheese cutter. J. Eldridge and J. Schor. 1,648,611; Nov. 8.
 Cheese cutter. J. F. Topinka. 1,623,238; Apr. 5.
 Cheese-cutting device. F. T. Whitmarsh. 1,625,441; Apr. 19.
 Cheese in metal bandages, Making, curing, and shipping. J. R. Meyers. 1,625,130; Apr. 19.
 Cheese mold. C. Pauly. 1,634,041; June 28.
 Cheese, Treating. J. H. Wheeler and H. M. Scott. 1,639,828; Aug. 23.
 Chemical composition. J. F. King. 1,633,213; June 21.
 Chemical fertilizers to yeast and other organic substances, Covering. F. C. Raeth. 1,632,312; June 14.
 Chemical mixing and feeding apparatus. W. H. Green. 1,638,119; Aug. 9.
 Chemical reactions, Apparatus for effecting. H. Hennebutte and E. Goutal. 1,650,713; Nov. 29.
 Chemical reactions or physical processes, Method of and apparatus for carrying out. E. Buhtz. 1,629,200; May 17.
 Chemical reactions, Process and apparatus for conducting. C. O. Young and C. J. Herley. 1,620,180; Mar. 8.
 Chemical reactions with liquids, Carrying out. E. H. Leslie and B. R. Tunison. 1,644,736; Oct. 11.
 Chemical-resistant lining. G. H. Worrall. 1,628,760; May 17.
 Chemical tests and controlling chemical reactions, Apparatus for effecting. H. S. Hatfield. 1,643,243; Sept. 20.
 Chess. I. L. Lesavoy. 1,628,412; May 10.
 Chest: See—
 Pipe chest. Vanity chest.
 Chest protector. J. McCarthy. 1,645,995; Oct. 18.
 Chick box. L. W. Lamboy. 1,617,059; Feb. 8.
 Chick-brooding machine. J. D. Rayon. 1,650,042; Nov. 22.
 Chick feeder. W. Ellman. 1,616,118; Feb. 1.
 Chicken coop, Collapsible. E. S. Trimble. 1,620,143; Mar. 8.
 Chicken-counting device. W. E. Fissell. 1,643,071; Sept. 20.
 Chicken feeder. H. C. Badenhop. 1,633,917; June 28.
 Chicken fountain. J. Inschwiler. 1,642,926; Sept. 20.
 Chicken hover. F. Frengle and F. D. Rohan. 1,626,231; Apr. 26.
 Chicken-roast hanger. G. F. Krenzel. 1,653,773; Dec. 27.
 Child's costumer. M. A. York. Des. 74,158; Dec. 27.
 Chilling and aerating fluids and a device for carrying out said process. T. A. Fee, Jr., and H. Lamb. 1,645,742; Oct. 18.
 Chimney. W. R. Gibson. 1,626,808; May 3.
 Chimney. W. J. Meier. 1,627,105; May 3.
 Chimney attachment. W. F. Philipp. 1,629,809; May 24.
 Chimney cleaner. W. O. Wold. 1,615,733; Jan. 25.
 Chimney cleaner, Adjustable. F. Buchholtz. 1,629,990; May 24.
 Chimney-cleaning device. G. C. Odell. 1,616,330; Feb. 1.
 Chinaware, Making decorated. W. N. Lewis. 1,641,820; Sept. 6.
 Chip breaker. W. D. Johnson. 1,651,529; Dec. 6.
 Chip breaker. H. Roman. 1,651,551; Dec. 6.
 Chip-removing mechanism. A. Novick and E. Fish. 1,614,488; Jan. 18.
 Chiropractor. G. R. Hayman. 1,648,899; Nov. 15.
 Chiropractors, Applicator for. G. R. Hayman. 1,648,942; Nov. 15.
 Chiropractic adjusting and massaging device. T. H. David. 1,640,535; Aug. 30.
 Chiropractic table. E. Rosenquist. 1,616,065; Feb. 1.
 Chisel mortiser, Hollow-. G. T. Johnson. 1,614,304; Jan. 11.
 Chlorinating solutions. J. H. MacMahon. 1,616,134; Feb. 1.
 Chlorination of water. B. T. Brooks. 1,613,438; Jan. 4.
 Chlorine, Recovery of. J. A. Guyer and M. C. Taylor. 1,617,305; Feb. 8.
 Chloro derivatives of N-dihydro-1,2,1',2'-anthraquinoneazine and making same. O. M. Bishop. 1,637,851; Aug. 2.
 Chlorocarbonates, Producing. J. A. S. Hammond. 1,618,824; Feb. 22.
 Check. A. S. Hunt. 1,653,100; Dec. 20.
 Check block. E. S. Evans. 1,651,260; Nov. 29.
 Check brake. B. Zucker. 1,619,845; Mar. 8.
 Chocolate and the like, Conditioning apparatus for. W. A. Moir. 1,630,714; May 31.
 Chocolate-dipping machine. E. G. Lanzl. 1,637,577; Feb. 22.
 Chocolate-dipping table and cooler, Combined. J. Korkmases. 1,638,041; Aug. 9.
 Chocolate, Machine for casting. J. J. Jensen. 1,645,505; Oct. 11.
 Chocolate, Preparing fat-free. I. S. Hocker. 1,650,356; Nov. 22.
 Chocolate products, Making. L. B. Hunter. 1,649,307; Nov. 15.
 Chocolate tubes, Apparatus for making and filling. L. B. Hunter. 1,649,308; Nov. 15.
 Chocolates, confectionery, and the like, Apparatus for decorating. F. J. Michallat. 1,635,190; July 12.
 Choke actuator, Automatic. E. J. Hiner. 1,630,614; May 31.
 Choke coil with switching in tap transformer, Control of. A. Hundt. 1,623,839; Apr. 5.
 Choker hook. D. M. Bardon. 1,651,081; Nov. 29.
 Choker hook. G. Nelson. 1,642,892; Sept. 13.
 Choker hook. S. B. Stewart. 1,615,528; Jan. 25.
 Choker hook, Automatic releasing. S. Ashdown. 1,643,361; Sept. 27.
 Chopper: See—
 Cotton chopper. Meat chopper.
 Chopper, Stalk. W. H. Medlock. 1,647,458; Nov. 1.
 Churning and slicing machine. W. H. Donald. 1,652,132; Dec. 6.
 Christmas tree, Artificial. T. Modlarz. 1,654,427; Dec. 27.
 Christmas-tree holder. J. W. Geyer. 1,614,952; Jan. 18.
 Christmas-tree holder. J. S. Leedy. 1,617,765; Feb. 15.
 Christmas-tree holder. C. D. Zeigler. 1,644,807; Oct. 11.
 Christmas-tree ornament. K. E. Broyles. 72,000; Feb. 15.
 Christmas-tree reflector and lamp. L. L. Raymond. 1,632,850; June 21.
 Christmas-tree support. C. E. A. O'Loughlin. 1,653,225; Dec. 20.
 Christmas trees, Reflector for. L. L. Raymond. 1,617,221; Feb. 8.
 Chromium compounds, Manufacture of. P. Welse. 1,631,170; June 7.
 Chromium-plated carbon article. F. M. Becket. 1,630,685; May 31.
 Chromium plating. H. C. Pierce. 1,645,927; Oct. 18.
 Chromium steel scrap, Remelting. W. M. Farnsworth. 1,641,326; Sept. 6.
 Chromophotographs on paper and chromodiapositives, Producing. F. Janzen. 1,613,615; Jan. 4.
 Chuck. L. Bruckmann. 1,649,567; Nov. 15.
 Chuck. O. J. Cameron. 1,637,436; Aug. 2.
 Chuck. J. H. Delany. 1,617,672; Feb. 15.
 Chuck. L. A. Edelmann. 1,634,536; July 5.
 Chuck. C. N. Elrich. 1,651,087; Nov. 29.
 Chuck. G. A. Englund. 1,630,259; May 31.
 Chuck. T. J. Fegley. 1,617,998; Feb. 15.
 Chuck. T. J. Fegley and G. O. Leopold. 1,653,762; Dec. 27.
 Chuck. K. F. Gallimore. 1,647,220; Nov. 1.
 Chuck. W. E. Knott. 1,636,421; July 19.
 Chuck. J. E. Lovely. 1,654,512; Dec. 27.
 Chuck. J. F. Morgall. 1,631,499; June 7.
 Chuck. H. Sauveur. 1,629,708; Apr. 5.
 Chuck. H. E. Sloan. 1,628,476; May 10.
 Chuck. H. E. Sloan. 1,633,828; June 28.
 Chuck actuating and driving mechanism. L. C. Cole. 1,650,693; Nov. 29.
 Chuck, Automatic compensating. J. E. Lovely. 1,617,403; Feb. 15.
 Chuck for holding bits. J. H. Harris. 1,652,129; Dec. 6.
 Chuck, Lathe. V. G. Jorner. 1,635,481; July 12.

- Chuck, Magnetic. J. E. Sears, jr., and A. J. C. Brookes. 1,636,533; July 19.
 Chuck mechanism. R. S. Brown. 1,646,850; Oct. 25.
 Chuck, Self-centering. G. Fernaca. 1,613,090; Jan. 4.
 Chuck, Well-drilling. W. Sheldon. 1,628,283; May 10.
 Church contribution chest. R. Anson. Des. 73,248; Aug. 16.
 Churn. D. Borland. 1,636,039; July 19.
 Churn, mixing machine, and beater. G. P. A. Weisenborn. 1,624,701; Apr. 12.
 Chute. G. T. Breen. 1,632,536; June 14.
 Chute, Automatic power-discharge. A. C. Menning. 1,648,144; Nov. 8.
 Chute-closing gate device. W. G. Winsor, jr. 1,649,941; Nov. 22.
 Chute, Coal. H. McDonald. 1,633,341; June 21.
 Chute, Coin. M. J. Kindrat and H. Zatzkowny. 1,647,180; Nov. 1.
 Chute, Coin. P. C. Smith. 1,633,234; June 21.
 Chute for cellar windows. Coal. C. C. R. Carlson. 1,617,147; Feb. 8.
 Chute for use with cutting dies, Delivery. M. Lichter. 1,618,453; Feb. 22.
 Chute lock. Railway-dump-car. R. E. Cartzdafner. 1,642,757; Sept. 18.
 Chute, Wagon. A. W. Hamm. 1,644,521; Oct. 4.
 Chutes or the like. Trip gate for. P. C. Graham. 1,654,043; Dec. 27.
 Cigar. A. R. Geisler. 1,616,851; Feb. 8.
 Cigar and cigarette dispensing device. E. Black. 1,650,181; Nov. 22.
 Cigar and cigarette holder. H. L. Shuler. 1,646,320; Oct. 18.
 Cigar and cigarette holder. B. E. Walberg. 1,628,937; May 27.
 Cigar and cigarette lighter. E. J. Marcouiller. Des. 73,850; Nov. 15.
 Cigar and cigarette lighter, Automobile. B. L. Metzger. 1,622,334; Mar. 29.
 Cigar and cigarette lighting container. R. H. Doak. 1,631,020; May 31.
 Cigar band. L. L. Dorman and W. V. Gage. 1,647,906; Nov. 1.
 Cigar-band feeding and moistening machine. W. H. Schussler. 1,634,053; June 28.
 Cigar-band-feeding mechanism. F. X. Malocsay. 1,653,645; Dec. 27.
 Cigar-band feeding and crimping mechanism. F. X. Malocsay. 1,653,644; Dec. 27.
 Cigar-banding machine. F. X. Malocsay. 1,616,539; Feb. 8.
 Cigar-banding machine. F. X. Malocsay. 1,627,794; May 10.
 Cigar-banding machine. F. X. Malocsay. 1,653,643; Dec. 27.
 Cigar-banding machine. M. Miller. 1,613,046; Jan. 4.
 Cigar-banding machines, Band-conveying and adhesive-supplying means for. F. X. Malocsay. 1,653,647; Dec. 27.
 Cigar-banding machines, Moistening device for. F. X. Malocsay. 1,653,642; Dec. 27.
 Cigar box. A. A. Adamson. 1,621,704; Mar. 22.
 Cigar-box moistener. D. J. Gallagher. 1,637,814; Aug. 2.
 Cigar-bunch machine. R. R. Kitchel, J. L. Lippard, and J. E. Mullan. 1,641,816; Sept. 6.
 Cigar-bunch machine. R. R. Kitchel and J. E. Mullan. 1,645,012; Oct. 11.
 Cigar-bunching machine. W. H. Schussler. 1,621,088; Mar. 15.
 Cigar-bunching machine. W. H. Schussler. 1,634,690; July 5.
 Cigar cases, Wick humidifier for. J. A. Ward. 1,639,912; Aug. 23.
 Cigar cutter. T. H. Anderson. 1,628,570; May 10.
 Cigar-finishing device. H. P. Wurman. 1,641,795; Sept. 6.
 Cigar holder. I. Q. Gurnee and A. A. Smith. Des. 72,012; Feb. 15.
 Cigar holder. A. Ilig. 1,641,638; Sept. 6.
 Cigar holder, Humidor. H. R. Northup and C. L. Snyder. 1,619,306; Mar. 1.
 Cigar holder, Safety. A. Bagamery. 1,633,431; June 21.
 Cigar lighter. L. V. Aronson. 1,639,479; Aug. 16.
 Cigar lighter. W. J. Butler. 1,637,855; Aug. 2.
 Cigar lighter. J. H. Cohen. Des. 72,935; June 28.
 Cigar lighter. O. C. Dennis. 1,620,327; Mar. 8.
 Cigar lighter. J. Dinhofer. 1,646,276; Oct. 18.
 Cigar lighter. H. Esterow. Des. 73,372; Aug. 30.
 Cigar lighter. H. Esterow. 1,646,085; Oct. 18.
 Cigar lighter and advertising display stand, Combined. V. B. Ekstrom. Des. 72,765; May 31.
 Cigar lighter and ash tray, Combined. C. Graff. Des. 72,091-2; Mar. 1.
 Cigar lighter and lamp, Combined. R. F. Schiele. 1,638,751; Aug. 9.
 Cigar lighter, Electric. J. J. Gough. Des. 72,418; Apr. 12.
 Cigar lighter, Electric. J. J. Gough. 1,641,808; Sept. 6.
 Cigar lighter, Electric. A. Schoeller. 1,622,263; Mar. 22.
 Cigar lighter, Electric. J. Shipley. 1,615,555; Jan. 25.
 Cigar lighter, Electrical. H. Overen. 1,639,405; Aug. 16.
 Cigar lighter, Spring-retracted, Electric. W. Leschman. 1,639,952; May 31.
 Cigar lighters, Dashboard attachment for. B. A. Benson. 1,616,173; Feb. 1.
 Cigar machine. T. A. Horton. 1,629,163; May 17.
 Cigar machines, Transferring device for. J. F. Halstead. 1,626,410; Apr. 26.
 Cigar-making machine. A. Noel. 1,636,922; July 26.
 Cigar or cigarette holder. W. R. Larter. 1,653,049; Dec. 20.
 Cigar or cigarette holder. M. Smith. 1,616,396; Feb. 1.
 Cigar rolls, Machine for making. P. Nordenfelt and E. Granstedt. 1,622,966; Mar. 29.
 Cigar tip cutter and cigar box. T. K. Macorn and J. A. Kozner. 1,627,790; May 10.
 Cigarette and ash holder, Combined. J. A. Bowyer. 1,651,177; Nov. 29.
 Cigarette and making the same. W. J. Hawkins. 1,647,694; Nov. 1.
 Cigarette and match-box container, Combination. T. J. Maxey. 1,639,461; Aug. 16.
 Cigarette and match case, Bather's. G. H. Eyer and E. S. Snyder. 1,628,961; May 17.
 Cigarette box. G. A. MacVey. 1,619,622; Mar. 1.
 Cigarette case. P. Cabangis. 1,636,732; July 26.
 Cigarette case. E. A. George. 1,650,056; Nov. 22.
 Cigarette case. D. W. Greene. 1,628,500; May 10.
 Cigarette case. W. D. Heap. 1,619,413; Mar. 1.
 Cigarette case. T. B. Rice and F. W. Williams. 1,638,363; Aug. 9.
 Cigarette case. A. H. Sidebotham. 1,650,304; Nov. 22.
 Cigarette case and like container. E. C. Webb. 1,623,512; Apr. 5.
 Cigarette case, Automatic. M. Martin. 1,616,864; Feb. 8.
 Cigarette case or similar article. P. D. McKeon. Des. 73,616; Oct. 11.
 Cigarette container. R. Kimball. 1,613,173; Jan. 4.
 Cigarette-delivering container, Automatic. C. Jesnig. 1,639,295-6; Aug. 16.
 Cigarette-dispensing machine. J. Hantschel. 1,638,732; Aug. 9.
 Cigarette holder. J. M. Martinez. Des. 72,953; June 28.
 Cigarette holder. C. D. Rosan. 1,630,243; May 24.
 Cigarette holder. M. J. Russak. 1,627,463; May 3.
 Cigarette holder. H. N. Staats. 1,648,073; Nov. 3.
 Cigarette holder. A. F. Tegner. 1,613,545; Jan. 4.
 Cigarette holder. P. B. Tingley. 1,620,302; Mar. 8.
 Cigarette holder. A. Yessaian. 1,641,517; Sept. 6.
 Cigarette holder and ash tray, Combined. R. Stockton. 1,614,265; Jan. 11.
 Cigarette holder and lighter, Combined. G. B. Villanueva. 1,626,767; May 3.
 Cigarette holder and the like. H. Potts. 1,623,635; Apr. 5.
 Cigarette holder, damper, and preserver. H. M. Davenport. 1,643,703; Sept. 27.
 Cigarette holder, dispenser, and lighter, Combination. L. Pegg. Des. 73,332; Aug. 23.
 Cigarette holder, Ring. A. E. Sharples. 1,645,877; Oct. 18.
 Cigarette holder, Safety. C. E. Ferguson. 1,619,408; Mar. 1.
 Cigarette holders, Ash receptacle for. C. Christensen. 1,649,019; Nov. 15.
 Cigarette holders. Attachment for. W. A. Pervier. 1,635,432; July 12.
 Cigarette holders, Protector means or guard for. D. Gologan. 1,639,993; Aug. 23.
 Cigarette lighter. D. S. and A. P. Brush. 1,631,514; June 7.
 Cigarette lighters, Casing for. L. V. Aronson. Des. 72,568; May 17.
 Cigarette lighters, Holder for. A. T. Stevenson. 1,651,418; Dec. 6.
 Cigarette-machine catcher. F. Di Ianni. 1,647,280; Nov. 1.
 Cigarette-machine cut-off. W. B. Bronander. 1,637,803; Aug. 2.
 Cigarette-machine cut-off. J. F. Halstead. 1,647,352; Nov. 1.
 Cigarette-machine shafts, Device for intermittently driving. C. F. Röber. 1,623,978; Apr. 12.
 Cigarette machines, Attachment for rod-. M. P. E. Hohn. 1,614,554; Jan. 18.
 Cigarette machines, Cut-off mechanism for. G. A. Weinberger. 1,616,208; Feb. 1.
 Cigarette machine. Cutting device for. E. Danger. 1,621,834; Mar. 22.
 Cigarette machines, Feeding mechanism for. C. W. Muller. 1,645,067; Oct. 11.
 Cigarette machines, Winnowing device for. J. A. Stein. 1,647,255; Nov. 1.
 Cigarette-making machine. E. Koerner. 1,614,738; Jan. 18.
 Cigarette-making machine. W. E. Molins. 1,630,132; May 24.
 Cigarette-making machine. I. A. Semenov. 1,636,489; July 19.
 Cigarette-making machine, Portable. S. M. Brydges. 1,636,111; Dec. 27.
 Cigarette-making machines, Delivery-control device for. W. F. Grupe. 1,633,377; June 21.
 Cigarette or cigar and match, Combination. F. Stone. 1,635,967; July 12.
 Cigarette-packaging machines, Feeding device for. W. B. Bronander. 1,647,245; Nov. 1.
 Cigarette-packaging machines, Feeding mechanism for. I. Lagas. 1,628,500; May 10.

- Cigarette-packing machine. E. Jagenberg. 1,615,626; Jan. 25.
- Cigarette papers, Case for. F. Merensky. 1,637,229; July 26.
- Cigarette-printing device. J. W. Sanders. 1,643,349; Sept. 27.
- Cigarette-rod-forming mechanism. Mount for the tongues of. P. Di Ianni. 1,630,488; May 31.
- Cigarettes and other articles, Package for. A. del Hoyo y Tejada. 1,648,156; Nov. 8.
- Cigarettes and the like, Extinguisher for. B. A. Travis. 1,623,140; Apr. 5.
- Cigarettes. Device for feeding. W. E. Molins. 1,618,214; Feb. 22.
- Cigarettes, Machine for the manufacture of chocolate. C. Robet. 1,642,894; Sept. 20.
- Cigarettes, Means for packing. G. C. Ekström, G. Örström, and B. A. E. Johnson. 1,619,062; Mar. 1.
- Cigars, Banding. W. Intemann. 1,618,983; Mar. 1.
- Cigars, cigarettes and the like, Device for treating. A. W. C. Menzies. 1,648,655; Nov. 8.
- Cinematic apparatus. E. Cauda. 1,637,409; Aug. 2.
- Cinematograph apparatus, Continuous-feed. V. Continouza and M. Combes. 1,617,823; Feb. 15.
- Cinematograph film material. J. E. Thornton. 1,635,516; July 12.
- Cinematograph positive films, Manufacture of. J. E. Thornton. 1,649,756; Nov. 15.
- Cinematographic and photographic view taking apparatus, Focusing device for. A. L. V. C. Deblie. 1,636,736; July 26.
- Cinematographic apparatus adapted for the continuous travel of the film. C. Baradat. 1,646,341; Oct. 18.
- Cinematographic film stretching. L. T. Troland. 1,613,300; Jan. 4.
- Cinematographic films, Etching apparatus for. J. M. Andrews. 1,613,303; Jan. 4.
- Cinematographs, Picture with stereoscopic qualities. C. Bouin. 1,642,918; Sept. 20.
- Cinematographic-printer light control. J. A. Ball. 1,613,339; Jan. 4.
- Cinematographic projections, Apparatus for. E. C. Solá. 1,634,597; July 5.
- Cinematography, Projecting system for. G. A. H. Kellner. 1,621,741; Mar. 22.
- Cinematography. D. F. Comstock. 1,641,220; Sept. 6.
- Cinematography, Apparatus for composite. E. Schüfftan. 1,613,201; Jan. 4.
- Cinematography, Apparatus for projecting multi-color images in. W. Thorer. 1,634,769; July 5.
- Cinematography, Reflector lamp for diaprojection. W. Winzenburg and F. Noack. 1,629,192; May 17.
- Cipher messages, Apparatus for deciphering. A. G. Damm. 1,643,546; Sept. 27.
- Circuit arrangement for generating oscillations. H. Eukop. 1,614,494; Jan. 19.
- Circuit arrangement for high-frequency sending stations. M. Osnos. 1,645,542; Oct. 18.
- Circuit arrangement for multiplex communication. A. Meissner. 1,626,856; May 3.
- Circuit breaker. C. Aalborg. 1,633,969; June 28.
- Circuit breaker. A. H. Bakken. 1,649,011; Nov. 15.
- Circuit breaker. L. N. Crichton. 1,635,544; July 12.
- Circuit breaker. F. J. Fencil. 1,638,686; Aug. 9.
- Circuit breaker. H. Hinds. 1,639,730; Aug. 23.
- Circuit breaker. E. H. Jacobs. 1,647,632; Nov. 1.
- Circuit breaker. P. E. Klopsteg and W. H. Stannard. 1,629,711; May 24.
- Circuit breaker and distributor. J. S. Pieratt. 1,651,103; Nov. 29.
- Circuit breaker, Automatic. G. S. Fischer. 1,646,904; Oct. 25.
- Circuit breaker, Automatic. M. E. Greenway and R. W. Chambers. 1,627,029; May 3.
- Circuit breaker, Automatic. E. D. Moore. 1,643,415; Sept. 27.
- Circuit breaker, Automatic electric. H. Schachtner. 1,629,640; May 24.
- Circuit-breaker device. W. E. Dean. 1,644,669; Oct. 11.
- Circuit breaker, Electric. R. W. Gregory. 1,626,528; Apr. 26.
- Circuit breakers, Electric. G. S. Marston. 1,647,010; Oct. 25.
- Circuit breaker for drying machines and the like, Automatic. J. E. Alexander and S. A. Staeger. 1,623,611; Apr. 6.
- Circuit breaker for electric key punches, Automatic. W. W. Lasker. 1,643,778; Sept. 27.
- Circuit breaker or interrupter, Electrical. E. Aichele. 1,614,169; Jan. 11.
- Circuit breaker, Overload. C. R. Beall and R. B. Gilson. 1,636,037; July 19.
- Circuit breaker, Pressure-operated. J. N. Hanna. 1,616,317; Feb. 1.
- Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,626,495; Apr. 26.
- Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,641,724; Sept. 6.
- Circuit-breaker system, Automatic reclosing. W. S. H. Hamilton. 1,641,758; Sept. 6.
- Circuit-breaker system, Automatic reclosing. B. W. Jones. 1,626,467; Apr. 26.
- Circuit-breaker system, Automatic reclosing. E. O. Schweitzer. 1,648,508; Nov. 8.
- Circuit-breaker system, Automatic reclosing. O. C. Traver. 1,635,081; July 5.
- Circuit breaker, Thermal. J. F. Smart. 1,632,420; June 14.
- Circuit breaker, Thermally-operated. P. B. Parks. 1,644,443; Oct. 4.
- Circuit breakers, Retarder for. C. N. Fairchild. 1,646,528; Oct. 25.
- Circuit breakers, Switch contact for. D. R. Davies. 1,618,969; Mar. 1.
- Circuit, By-pass selector. E. Jacobsen. 1,644,727; Oct. 11.
- Circuit closer. W. Banka. 1,625,973; Apr. 26.
- Circuit closer. H. W. Batcheller. 1,613,305; Jan. 4.
- Circuit closer. G. P. Beaton. 1,632,530; June 14.
- Circuit closer. E. P. Birkholz. 1,625,017; Apr. 19.
- Circuit closer. J. W. Davis. 1,628,579; May 10.
- Circuit closer. J. A. Fiebigler. 1,627,962; May 10.
- Circuit closer. A. H. Hopfner. 1,636,439; Aug. 9.
- Circuit closer. E. G. Peyton. 1,632,676; June 14.
- Circuit closer. G. W. Shaw. 1,637,837; Aug. 2.
- Circuit closer. V. Tedeschi. 1,650,968; Nov. 29.
- Circuit closer, Electromagnetically-operated. C. Adler, jr. 1,622,013; Mar. 22.
- Circuit closer, Float-operated. M. Rosales. 1,632,098; June 14.
- Circuit closer, Float-operated. C. E. Weisgarver and J. D. Harnish. 1,651,078; Nov. 29.
- Circuit closer for relays, Electric. L. L. Call. 1,628,115; May 10.
- Circuit closer, Meter-operated. W. L. Marden. 1,617,406; Feb. 15.
- Circuit closer, No-flow alarm. R. E. Hanson. 1,627,896; May 10.
- Circuit closer, Pressure-operated. I. E. McCabe. 1,648,414; Nov. 8.
- Circuit closer, Speed-controlled. M. J. Vogel and J. B. Deane. 1,648,762; Nov. 15.
- Circuit closer, Thermal. F. Bosshart. 1,620,062; Mar. 8.
- Circuit closer, Thermostatic. H. M. Baldwin and H. M. Trenor. 1,648,752; Nov. 8.
- Circuit closer, Time-operated. G. F. Rauch. 1,631,644; June 7.
- Circuit closer, Water-operated. B. T. Roodhouse. 1,648,197; Nov. 8.
- Circuit-closing device. E. T. Bellman. 1,623,571; Apr. 5.
- Circuit-closing device. K. A. Ekberg. 1,647,347; Nov. 1.
- Circuit-closing device. S. D. Robins. 1,636,245; July 19.
- Circuit-closing device. G. N. Wagner. 1,645,362; Oct. 11.
- Circuit-closing device. G. H. Willey. 1,645,976; Oct. 18.
- Circuit connector. R. D. Mailey. 1,638,123; Aug. 9.
- Circuit-continuing device. H. A. Douglas. 1,634,404-5; July 5.
- Circuit control, Thermostatic. A. E. Whittier. 1,623,568; Apr. 5.
- Circuit controller. J. M. Johnson. 1,654,483; Dec. 27.
- Circuit controller. J. T. Miller and M. Hanley. 1,622,044; Mar. 22.
- Circuit controller, Combined automatic and manual. L. P. Hutt. 1,637,042; July 26.
- Circuit controller, Engine-controlled pneumatically-operated. L. B. Doman. 1,619,108; Mar. 1.
- Circuit controller, Multiphase thermally-actuated. G. A. Burnham. 1,652,346; Dec. 13.
- Circuit controller, Speed. A. G. Shaver. 1,641,461; Sept. 6.
- Circuit controller, Thermosensitive. P. H. Klopsteg and W. H. Stannard. 1,629,710; May 24.
- Circuit controller, Unit. R. C. Leake. 1,634,620; July 5.
- Circuit-controlling apparatus. B. F. Fuller. 1,640,542; Aug. 30.
- Circuit-controlling apparatus. M. A. Stein. 1,625,832; Apr. 26.
- Circuit-controlling device. A. R. Lowellen. 1,651,397; Dec. 27.
- Circuit-controlling mechanism. J. T. Miller and M. Hanley. 1,624,059; Apr. 12.
- Circuit interrupter. O. H. Eschholz. 1,630,477; May 31.
- Circuit interrupter. G. E. Palmer. 1,645,292; Oct. 11.
- Circuit interrupter. W. E. Paul. 1,623,851; Apr. 5.
- Circuit interrupter. K. C. Randall. 1,654,809; Dec. 27.
- Circuit interrupter, Automatic. J. H. Procter. 1,632,983; June 21.
- Circuit interrupter, Automatic reclosing. M. E. Reagan. 1,638,880; Aug. 16.
- Circuit interrupter, High-speed. R. Logstädt. 1,649,034; Nov. 15.
- Circuit interrupter, Indicating fluid. H. M. Biebel. 1,624,463; Apr. 12.
- Circuit-interrupter system. J. W. Legg. 1,645,286; Oct. 11.
- Circuit-interrupter system. W. R. Wickerham. 1,654,316; Dec. 27.
- Circuit interrupters, Separating device for. T. S. Pukerud. 1,621,026; Mar. 15.
- Circuit-interrupting device. K. C. Randall and H. K. Anshing. 1,637,351; Aug. 2.
- Circuit-interrupting system. H. A. Travers. 1,637,360; Aug. 2.
- Circuit maker and breaker. J. R. Keyton. 1,652,123; Dec. 6.
- Circuit making and breaking device. S. B. Hood. 1,653,283; Dec. 20.
- Circuit-protecting system. W. E. Hoyler. 1,644,525; Oct. 4.

- Circuit-protecting system. W. E. Hoyler. 1,644,527; Oct. 4.
- Circuit, Receiving. L. D. Kellogg. 1,626,239; Apr. 26.
- Circuit regulator, Automatic. P. O. Brown. 1,650,320; Nov. 22.
- Circuit-restoring relay. C. W. Kautz, jr. Rel. 6,661; June 21.
- Circuit starting and generating system, Double. W. A. Turbayne. 1,628,079; May 10.
- Circuit, Substation. D. B. Robinson. 1,646,875; Oct. 25.
- Circuit, Substation. W. G. Shull. 1,652,645; Dec. 13.
- Circuit switch, Multiple. B. E. Getchell. 1,626,233; Apr. 26.
- Circuit system and remote control, Selective. A. R. Locke. 1,638,774; Aug. 9.
- Circuit tester, Electric. W. F. and F. P. Robinson. 1,636,707; July 26.
- Circuit, Transformer. E. O. Scriven. 1,615,044; Jan. 18.
- Circuiting rod, Short. P. Gossling. 1,652,116; Dec. 6.
- Circuits and switching apparatus therefor, Messenger call. G. W. Janson. 1,640,325; Aug. 23.
- Circuits, Apparatus for loading transmission. E. B. Payne. 1,613,958; Jan. 11.
- Circuits, Apparatus for testing electric. W. Elmenthaler. 1,630,116; May 24.
- Circuits, Compensating network for carrier transmission. E. Fletcher. 1,613,607; Jan. 11.
- Circuits, Control. P. W. Reynolds. 1,628,192; May 10.
- Circuits, Distribution unit for electric. W. C. Blackwood. 1,640,814; Aug. 30.
- Circuits, Electrical. T. E. Shea. 1,654,098; Dec. 27.
- Circuits for multiplex systems, Repeater. J. S. Jammer. 1,632,900; June 21.
- Circuits for voice-operated devices, Delay. H. C. Silent. 1,633,615; June 28.
- Circuits, Frequency-control. R. B. Meyer. 1,654,184; Dec. 27.
- Circuits, Frequency translating. H. S. Black. 1,653,887; Dec. 27.
- Circuits, High-tension. H. B. Holthouse. 1,624,951; Apr. 19.
- Circuits, Inductance coil for high-frequency. G. A. Joy. 1,648,388; Nov. 8.
- Circuits, Interrupter for electric. S. Ruppel. 1,641,202; Sept. 6.
- Circuits, Method and apparatus for determining the synchronism of alternating-current. G. H. Middlemiss. 1,636,527; July 19.
- Circuits, Modulation system for frequency multiplier. A. H. Taylor and L. C. Young. 1,654,195; Dec. 27.
- Circuits of fluid gearings and fluid couplings, Arrangement for draining the chambers and passages of the fluid. G. Bauer, R. Wölde, and H. Kluge. 1,613,154; Jan. 4.
- Circuits, Program-selecting. C. H. Fetter. 1,629,491; May 24.
- Circuits, Program-selecting. M. E. Strieby. 1,629,552; May 24.
- Circuits, Program-selecting. J. F. Toomey. 1,628,696; May 17.
- Circuits, Program-selecting. J. F. Toomey. 1,632,012; June 14.
- Circuits, Protection. A. Carpe and R. W. Deardorff. 1,614,444; Feb. 25.
- Circuits, Protective. S. B. Wright. 1,649,884; Nov. 22.
- Circuits, Regulating transmission. H. Nyquist. 1,639,952; Aug. 16.
- Circuits, Selective signaling. R. H. Mills. 1,616,193; Feb. 1.
- Circuits, Substation. A. H. Inglis. 1,618,201; Feb. 22.
- Circuits, System of multifrequency. R. W. Deardorff. 1,619,060; Mar. 1.
- Circuits, System of multifrequency. A. F. Rose. 1,650,655; Nov. 29.
- Circuits, Transformer. W. J. Shackleton. 1,645,165; Oct. 11.
- Circuits, Trunk. G. H. Peterson. 1,631,153; June 7.
- Circuits, Wave-transmission control. J. Mills. 1,613,240; Jan. 4.
- Circulating head. W. A. Trout. 1,625,172; Apr. 19.
- Circulating machine. D. E. Felt and J. A. V. Turck. 1,612,969; Jan. 4.
- Circulating tube. J. F. Arthur. 1,639,252; Aug. 16.
- Clamp: See—
- Adjustable clamp. Cultivator-tool clamp.
- Automobile hood clamp. Curtain-stretcher clamp.
- Battery clamp. Dead-ending clamp.
- Bedding clamp. Derrick leg clamp.
- Belt clamp. Document-binding clamp.
- Bench clamp. Drill-stem clamp.
- Beveling and sealing clamp. Drilling clamp.
- Bottomless dead-end clamp. Electrode clamp.
- Bone clamp. Embroidery hook clamp.
- Building clamp. Fastening clamp.
- Button clamp. Foam clamp.
- Cable and trolley clamp. Ground clamp.
- Cable clamp. Hand clamp.
- Cable or wire clamp. Hanger clamp.
- Car-roof clamp. Hat-block clamp.
- Car-wheel clamp. Hood clamp.
- Collar leak clamp. Hose clamp.
- Column clamp. Hose-repair clamp.
- Column-form clamp. Knee clamp.
- Combination clamp. Knife glue clamp.
- Concrete-form clamp. Line clamp.
- Clamp: See—
- Meat clamp. Setting clamp.
- Panel clamp. Sucker-roof clamp.
- Pipe clamp. Tailstock clamp.
- Pipe-elevating clamp. Take-off clamp.
- Pipe-supporting clamp. Tent clamp.
- Plate clamp. Terminal clamp.
- Pole clamp. Tire-curler clamp.
- Polish-roof clamp. Trim-securing clamp.
- Post clamp. Tube-repairing clamp.
- Quick-action clamp. Turn-page clamp.
- Radius-roof clamp. Tympan clamp.
- Rail clamp. Type clamp.
- Railway-transfer clamp. Umbrella-sord clamp.
- Rod clamp. Wire clamp.
- Rope clamp. Wire-tie clamp.
- Saw clamp. Work clamp.
- Screw clamp.
- Clamp. J. Arrington. 1,629,246; May 17.
- Clamp. D. E. Bowe. 1,634,532; July 5.
- Clamp. H. Braun. 1,649,015; Nov. 18.
- Clamp. C. A. Covey. 1,653,990; Dec. 27.
- Clamp. M. B. Davis. 1,647,688; Nov. 1.
- Clamp. R. Goudard and A. Pache. 1,627,172; May 8.
- Clamp. J. M. Hargrave. 1,638,848; Aug. 16.
- Clamp. J. M. Hargrave. 1,639,561; Aug. 16.
- Clamp. C. E. Hathaway. 1,628,592; May 10.
- Clamp. F. Hernandez y Perez. 1,637,654; Aug. 2.
- Clamp. C. G. E. Johnson. 1,634,834; July 5.
- Clamp. S. R. Kirkhoff. 1,620,469; Mar. 8.
- Clamp. F. Lanaux. 1,615,948; Feb. 1.
- Clamp. H. R. Longanecker. Rel. 6,658; July 26.
- Clamp. H. R. Longanecker. 1,615,092; Jan. 18.
- Clamp. G. Mathes. 1,613,354; Jan. 4.
- Clamp. R. E. McIntosh. 1,654,340; Dec. 27.
- Clamp. J. H. Montague. 1,648,695; Nov. 8.
- Clamp. W. A. Moser. 1,615,338; Jan. 25.
- Clamp. H. J. Muehleman. 1,646,255; Oct. 18.
- Clamp. J. Murray. 1,619,749; Mar. 1.
- Clamp. A. C. Patch. 1,645,621; Oct. 18.
- Clamp. A. D. Purdie. 1,630,863; May 31.
- Clamp. H. V. Steuernagel. 1,628,479; May 10.
- Clamp. W. G. Struthers. 1,621,691; Mar. 22.
- Clamp. W. T. Tabb. 1,631,991; June 14.
- Clamp carrier. R. W. Burns. 1,653,035; Dec. 20.
- Clamp, connector, Ground. E. F. Potter. 1,631,288; June 7.
- Clamp for containers. J. Green. 1,632,732; June 14.
- Clamp machine. R. W. Burns. 1,628,112; May 10.
- Clamp terminal. W. E. Gossling. 1,646,909; Oct. 25.
- Clamping apparatus, Rail. A. Taurman. 1,620,172; June 7.
- Clamping device. L. P. Armstrong. 1,632,108; June 14.
- Clamping device. R. E. Beegle. 1,631,396; June 7.
- Clamping device. J. B. Benson. 1,643,737; Sept. 27.
- Clamping device. T. and S. J. V. Bovey. 1,621,490; Mar. 22.
- Clamping device. G. N. Byl. 1,653,840; Dec. 27.
- Clamping device. W. R. Ellis. 1,624,399; Apr. 12.
- Clamping device. W. S. Lewis. 1,647,963; Nov. 1.
- Clamping device. J. F. Loucks. 1,639,139; Aug. 16.
- Clamping device. S. H. Tucker and S. B. Field. 1,636,880; July 26.
- Clamping device, Box. E. C. Anschutz. 1,642,665; Sept. 20.
- Clamping device, End. R. W. Burns. 1,628,113; May 10.
- Clamping means. A. Alsaker. 1,638,230; Aug. 9.
- Clamping mechanism, Rail. A. E. Norris. 1,644,942; Oct. 11.
- Clamping or separating device. T. A. Rotsch. 1,639,111; Aug. 16.
- Clamping outfit. J. O. Fortin. 1,621,464; Mar. 15.
- Clamping ring. J. Roginger. 1,635,347; July 12.
- Clamping rings for computers, Making. J. J. Carter. 1,622,179; Mar. 22.
- Clamps, Hanger for ear. G. V. Miller. 1,620,674; Mar. 15.
- Clarifying and decolorizing agent and making the same. M. L. Chappell, R. F. Davis, and M. M. Moore. 1,642,871; Sept. 20.
- Clarifying and purifying liquids and waste waters. A. J. Raveestad. 1,619,038; Mar. 1.
- Classifying or separating machine. P. H. Raun. 1,647,812; Nov. 1.
- Clasp: See—
- Bill clasp. Lingerie clasp.
- Belt clasp. Necktie clasp.
- Cash clasp. Mantle clasp.
- Corset clasp. Pocket and pencil clasp.
- Hair clasp. Safety clasp.
- Hose-supporter clasp. Tie clasp.
- Jewelry clasp.
- Clasp. F. Bernstein. 1,651,435; Dec. 6.
- Classifier. H. S. Coe. 1,633,37; June 21.
- Classifier, and classifying process, Whirlpool. R. T. Stull. 1,629,182; May 17.
- Clasp. J. Couslin. 1,634,321; July 5.
- Clasp. A. Fricker. 1,621,008; Mar. 15.
- Clasp. R. K. Guinzburg. 1,617,948; Feb. 15.
- Clasp. B. R. Hoppe. 1,616,694; Feb. 8.
- Clasp. M. Kilby. 1,624,253; Apr. 12.
- Clasp. E. Morehouse. 1,615,476; Jan. 25.
- Clasp. E. Pierson. 1,635,386; July 12.
- Clasp for bobbed hair. J. D. Lul. 1,637,492; Aug. 2.

- Clasp for hand bags and like receptacles. D. Balazs. 1,642,836; Sept. 20.
- Classifier deck. A. H. Stebbins. 1,620,243; Mar. 8.
- Clay blocks and the like and method of molding. Mold for casting. J. M. Lambie and D. W. Ross. 1,625,947; Apr. 26.
- Clay columns, Apparatus for scarfing plastic. J. B. Nicholson. 1,631,220; June 7.
- Clay or other plastic material, Apparatus for forming dovetail or undercut recesses in. L. Galsman and A. E. Brown. 1,629,660; May 24.
- Clay products, Process and apparatus for burning. J. A. Reams. 1,639,271; Aug. 16.
- Clay slips, Dehydrator for. J. P. Teter. 1,630,280; May 31.
- Clay tempering and expressing apparatus. W. L. Hanley, Jr. 1,626,675; May 8.
- Clayware, Method and apparatus for burning. W. D. Richardson. 1,628,273; May 10.
- Clays to adapt them for decolorizing and deodorizing oils. Treating. J. S. Potter. 1,649,366; Nov. 15.
- Clean-out openings, Closure for. C. E. Chapman. 1,636,125; July 19.
- Clean-up apparatus into evacuated vessels, Introduction of. W. C. Sproesser. 1,626,638; May 3.
- Cleaner: See—
- Air cleaner.
 - Atomizing cleaner.
 - Boiler cleaner.
 - Boiler-tube cleaner.
 - Burner cleaner.
 - Burner-tip cleaner.
 - Carpet cleaner.
 - Chimney cleaner.
 - Clothes cleaner.
 - Clothesline cleaner.
 - Conduit cleaner.
 - Cotton cleaner.
 - Cottonseed cleaner.
 - Cutlery cleaner.
 - Dairy-equipment cleaner.
 - Dust-mop cleaner.
 - Ear-corn cleaner.
 - Flue-sheet cleaner.
 - Eraser cleaner.
 - Fruit-tray cleaner.
 - Furnace and boiler cleaner.
 - Furnace-radiator-flue cleaner.
 - Golf-ball cleaner.
 - Grain cleaner.
 - Keyboard cleaner.
 - Lawn cleaner.
 - Loom-bobbin cleaner.
 - Manager. T. Hagelthorn. 1,632,895; June 21.
 - Cleaner. E. V. Ralston. 1,629,965; May 24.
 - Cleaner and decapener, Piston groove. G. C. Beck. 1,644,006; Oct. 4.
 - Cleaner and heat converter, Combination warm-air. L. M. Thorson and K. B. Ward. 1,638,605; Aug. 9.
 - Cleaning and polishing apparatus, Mold. G. B. Arduser. 1,642,289; Sept. 13.
 - Cleaning and polishing composition, Furniture. C. E. Frostman. 1,630,699; May 31.
 - Cleaning and polishing machine. E. G. Greene. 1,615,622; Jan. 25.
 - Cleaning and polishing machine, Electric shoe. H. Powell and W. P. Groves. 1,624,753; Apr. 12.
 - Cleaning and polishing machine, Fruit. B. C. Sutherland. 1,630,983; May 31.
 - Cleaning apparatus. J. Green. 1,651,766; Dec. 6.
 - Cleaning apparatus, Car. S. L. Smith. 1,651,045; Nov. 29.
 - Cleaning apparatus, Snow-. J. W. Dillahun, 1,621,156; Mar. 15.
 - Cleaning bottles, C. H. Loew. 1,642,410; Sept. 13.
 - Cleaning composition and making same. B. Bailey. 1,635,244; July 12.
 - Cleaning composition and spot remover. L. N. Cohn. 1,640,531; Apr. 30.
 - Cleaning composition. Dirt and grease. J. Lenenberg. 1,624,055; Apr. 12.
 - Cleaning composition, Dry Powdered. J. Truman. 1,640,740; Aug. 30.
 - Cleaning composition for type and the like. R. E. Neidig. 1,615,620; Jan. 11.
 - Cleaning containers. D. A. Dougherty. 1,629,486; May 24.
 - Cleaning device. P. E. Åström. 1,625,930; Apr. 26.
 - Cleaning device. W. H. Fiehlmann. 1,628,585; May 10.
 - Cleaning device. H. L. Gray. 1,628,141; May 10.
 - Cleaning device. J. Holtzman. 1,639,084; May 24.
 - Cleaning device. W. J. Kent. 1,636,002; July 19.
 - Cleaning device. C. T. Schroyer and E. C. Dessem. 1,650,542; Nov. 22.
 - Cleaning device. J. E. Twitcheil. 1,646,176; Oct. 13.
 - Cleaning device, Combined scrubbing and vacuum. A. Onofrio. 1,625,147; Apr. 19.
 - Cleaning device, Form. W. H. Smith. 1,616,556; Feb. 8.
 - Cleaning device, Window-. M. A. Kirkwood. 1,647,138; Nov. 1.
 - Cleaning garments by gasoline, System for. L. H. Clark. 1,649,572; Nov. 15.
 - Cleaning implement. M. E. Harber. 1,641,034; Aug. 30.
 - Cleaning machine. J. Carroll. 1,645,817; Oct. 11.
 - Cleaning machine. J. M. Schultz. 1,622,166; Mar. 22.
 - Cleaning machine. A. L. and M. O. Williams. 1,630,152; May 24.
 - Cleaning machine for fruit, vegetables, or the like. O. Mos. 1,646,701; Oct. 25.
 - Cleaning machine, Matrix. W. A. Wenzel and G. J. Randle. 1,648,794; Nov. 8.
 - Cleaning meat stuffers. G. R. Napier. 1,622,045; Mar. 22.
 - Cleaning mechanism. F. R. Ryberg. 1,629,740; May 24.
 - Cleaning pad. C. Field. 1,645,395; Oct. 25.
 - Cleaning plant. H. J. Wimberley. 1,650,478; Nov. 22.
 - Cleaning port, Self-. W. B. Hodge. 1,645,709; Oct. 13.
 - Cleaning solution, Device for supplying. W. C. Rushmore. 1,647,473; Nov. 1.
 - Cleaning systems, Liquid-level controlling means for dry-. R. Holland. 1,637,902; Aug. 2.
 - Cleaner, Liquid. M. Longley. 1,618,959; Feb. 22.
 - Cleansing and polishing agent. R. A. Kuever. 1,619,070; Mar. 1.
 - Cleansing comb. V. P. Carter. 1,645,318; Oct. 11.
 - Cleansing compound. R. Schless. 1,621,906; Mar. 22.
 - Cleansing-cream filler. T. J. Lewis. 1,652,537; Dec. 13.
 - Cleansing device, Hot. E. G. Gale. 1,634,495; July 5.
 - Clearance control, Three-step. W. Prellwitz. 1,616,987; Feb. 8.
 - Clearance gauge. L. N. Hampton. 1,632,067; June 14.
 - Clearance unloader. F. van D. Longacre. 1,621,913; Mar. 22.
 - Clearance unloader, Balanced chamber. W. Prellwitz. 1,616,986; Feb. 8.
 - Clearance unloader, By-pass. S. B. Redfield. 1,616,989; Feb. 8.
 - Clearance unloader, Single-end. S. B. Redfield. 1,616,990; Feb. 8.
 - Clearance unloader, Three-chamber. S. B. Redfield. 1,616,991; Feb. 8.
 - Clearance unloader, Two-chamber. S. B. Redfield. 1,616,988; Feb. 8.
 - Cleat. E. A. Richardson. 1,617,418; Feb. 15.
 - Cleat, Football. W. H. Albee. 1,648,872; Nov. 8.
 - Cleat, Gangboard. G. L. Dyer. 1,638,477; Aug. 9.
 - Cleats, Making football. W. H. Albee. 1,648,873; Nov. 8.
 - Clevis. K. Brecciani. 1,632,877; June 21.
 - Clevis. W. J. Coultas. 1,632,175; June 14.
 - Clevis. J. A. James. 1,618,663; Feb. 22.
 - Clevis. A. H. Neilson. 1,645,714; Oct. 13.
 - Clevis. D. Palmer. 1,620,387; Mar. 8.
 - Clevis hook. G. Zecher. 1,650,735; Nov. 29.
 - Climbing iron, Lineman's. W. Allahverdiyan. 1,632,688; June 14.
 - Clinker-removing device. W. Gaughrin. 1,622,312; Mar. 29.

Clip: See—

 - Concrete clip.
 - File clip.
 - Floor clip.
 - Hair clip.
 - Lens clip.
 - Magazine clip.
 - Machine-athatching clip.
 - Mowing-machine clip.
 - Paper clip.
 - Clip. H. H. Howell. 1,616,625; Feb. 8.
 - Clip. A. Montan and H. W. Falstrom. 1,653,465; Dec. 20.
 - Clip and retainer. G. T. Gillette. 1,637,564; Aug. 2.
 - Clasped spacer for reinforcements, Junction. W. B. White. 1,625,839; Apr. 26.
 - Clip for hair-waving sachets. I. B. Calvete. 1,631,793; June 7.
 - Clip for show cards, serviettes, and the like. J. W. Rooney. 1,644,280; Oct. 4.
 - Clip or fastener. R. Pollock. 1,641,096; Aug. 30.
 - Clip or file. W. C. Sutcliffe. 1,613,208; Jan. 4.
 - Clip or support for horticultural and other labels. H. T. Weeks. 1,651,652; Dec. 6.
 - Clip-setting device, Floor-strip. T. A. Moore. 1,632,242; June 14.
 - Clipper guard, Barber's. F. E. Young. 1,621,572; Mar. 22.
 - Clipper, Hair. V. Beauregard. 1,642,532; Sept. 13.
 - Clipper, Hair. S. Z. Gibson. 1,617,682; Feb. 15.
 - Clippers, Hair-collecting attachment for. J. L. Kaufmann. 1,618,713; Feb. 22.
 - Clippers, Guard for hair. A. James. 1,652,439; Dec. 13.
 - Clipper, Self-rotating device for electromagnetic. L. J. Wahl. 1,626,058; Apr. 26.
 - Clipping device. W. Gower. 1,616,447; Feb. 8.
 - Clipping machine. H. W. Orndoff. 1,653,729; Dec. 27.
 - Clock. J. C. Burke. 1,623,907; Apr. 5.
 - Clock. C. F. Bosch. 1,651,804; Dec. 6.
 - Clock. W. E. Cooke. 1,630,391; May 31.
 - Clock. C. H. Miller. 1,650,878; Nov. 29.
 - Clock. L. L. Mallard. Des. 73,387; Aug. 30.
 - Clock and calendar, Combination. G. S. Tremaine. 1,623,076; Apr. 5.
 - Clock and scale, Combination. F. E. Parkler. 1,634,039; Aug. 28.
 - Clock and watch movements, Timing device for the balance-wheel units of. W. E. Porter. 1,625,499; Apr. 19.
 - Clock, Automobile. L. Edelmann. 1,639,598; Aug. 16.
 - Clock case. A. M. Holstein. Des. 71,793; Jan. 4.
 - Clock case. J. Katz. Des. 72,712; May 24.

- Clock case. J. Katz. Des. 73,524-6; Sept. 27.
 Clock case. J. Katz. Des. 73,846; Nov. 15.
 Clock case. J. Kernes. Des. 72,737; June 7.
 Clock case. N. J. Nelson. Des. 71,808-9; Jan. 4.
 Clock case. N. J. Nelson. Des. 72,327; Mar. 29.
 Clock case. J. D. Richardson. Des. 72,931; Feb. 15.
 Clock case. H. A. Schierholz. Des. 72,932; Mar. 29.
 Clock case. R. H. Whitehead. Des. 73,460; Sept. 13.
 Clock case. R. H. Whitehead. Des. 73,989; Nov. 29.
 Clock case or similar article. A. B. Weiss. Des. 73,457; Sept. 13.
 Clock casing. L. V. Aronson. Des. 72,811-12; June 14.
 Clock casing. G. S. Brush. Des. 72,666; May 17.
 Clock casing. R. V. Kohn. 1,619,674; Mar. 8.
 Clock casing. J. Wilcox. Jr. Re16,811; Dec. 6.
 Clock, Coin-controlled. A. A. Johnson. 1,628,408; May 10.
 Clock, Compound-pendulum. T. S. Casner. 1,638,917; Aug. 16.
 Clock, Desk. F. Lux. Des. 73,849; Nov. 15.
 Clock, Electric. B. and O. Newth. 1,617,217; Feb. 8.
 Clock, Electric and self-winding. C. S. Ham. 1,637,997; Aug. 2.
 Clock, Electric-lighting time. H. Margillof. 1,614,377; Jan. 11.
 Clock, Electrically-operated. B. C. Campbell. 1,619,564; Mar. 8.
 Clock, Electromagnetic. L. Hatot. 1,651,119; Nov. 29.
 Clock, Hall. W. J. Herschede. Des. 72,426; Apr. 12.
 Clock, Handless. M. A. Vinas. 1,626,988; May 3.
 Clock, Intermittent-alarm. W. E. Porter. 1,623,698; Apr. 5.
 Clock mechanism, Noiseless. E. S. Ostler. 1,616,465; Feb. 8.
 Clock mechanism, Noiseless. E. S. Ostler. 1,623,266; Apr. 5.
 Clock movement. H. E. Warren. 1,615,664; Jan. 25.
 Clock, Rack-and-snail strike. F. X. Wehrle. 1,614,165; Jan. 11.
 Clock, Reminder. C. R. Gains. 1,620,455; Mar. 8.
 Clock-spring support. S. H. Moscovitz. 1,621,894; Mar. 22.
 Clock system, Electric. C. A. Hoxie. 1,622,588; Mar. 29.
 Clock system, Synchronous. F. W. Wood. 1,641,940; Sept. 6.
 Clock, Wall. J. H. Page. Des. 73,414; Sept. 6.
 Clock-winding mechanism. A. W. Fowler. 1,639,691; Aug. 23.
 Clock-winding mechanism, Electric. F. A. Feldkamp. 1,639,990; Aug. 23.
 Clockwork mechanism. E. E. Lehvess. 1,619,943; Mar. 8.
 Clockwork mechanisms, Locking means for the spring drums of. E. P. Lehmann. 1,615,227; Jan. 25.
 Clockwork-operated mechanical fuses for artillery projectiles, Apparatus for timing. A. Varaud. 1,615,602; Jan. 25.
 Clocks and like instruments, Resilient crystal for. R. H. Whitehead and W. E. Porter. 1,646,841; Oct. 25.
 Clocks, Attachment for alarm. W. Jenkins. 1,648,902; Nov. 15.
 Clocks, Device for controlling the operation of workmen's time. F. Wayman. 1,623,370; Apr. 5.
 Clocks, Electric battery for. B. and O. Newth. 1,617,218; Feb. 8.
 Clocks, Mechanism controlling alarm in. B. and O. Newth. 1,630,207; May 24.
 Clocks or like, Devices for illuminating. M. C. Fox. 1,628,497; May 10.
 Clocks, System of unifying a group of. M. Yokoyama. 1,627,001; May 8.
 Closed-body ventilator. J. M. Crawford. 1,635,609; July 12.
 Closet: See—
 Marine water-closet. Water-closet.
 Ventilating closet.
 Closet. A. Patterson. 1,651,901; Dec. 6.
 Closet connection. J. Bropon. 1,613,928; Jan. 11.
 Closet connection. W. C. Groeniger and J. C. Cromwell. 1,618,188; Feb. 22.
 Closet structure, Integral. W. C. Fain. 1,644,716; Oct. 11.
 Closets. Coupling for. C. W. Fankhauser. 1,626,135; Apr. 26.
 Closing bags. P. Gangler. 1,640,316; Aug. 23.
 Closing-in machine. W. Fiegel and W. S. Enderich. 1,635,987; July 19.
 Closure. L. E. Baltzley. 1,620,316; Mar. 8.
 Closure. C. D. Collins. 1,630,785; May 31.
 Closure. E. L. Greenwald. 1,652,608; Dec. 13.
 Closure. F. P. Horn. 1,623,477; Apr. 5.
 Closure. J. Jacques. 1,631,098; May 31.
 Closure. N. Lee. 1,632,088; June 14.
 Closure. T. T. Read. 1,636,487; July 19.
 Closure. H. B. Shields. 1,612,839; Jan. 4.
 Closure. C. J. Whitacre. 1,619,996; Mar. 8.
 Closure. C. A. Zarobsky. 1,627,762; May 10.
 Closure. C. A. Zarobsky. 1,664,065-6; Dec. 27.
 Closure and its support. B. C. Webster. 1,628,865; May 17.
 Closure and operating same, Folding. W. B. Gervais. 1,619,816; Mar. 8.
 Closure-applying machine. G. Ramsey. 1,653,470; Dec. 20.
 Closure-applying machine. O. N. Tervander. 1,635,514-15; July 12.
 Closure, Bottle. W. B. and H. M. Ballou. 1,653,400; Dec. 20.
 Closure, Can and jar. J. F. Hanna. 1,651,023; Nov. 29.
 Closure cap. L. R. N. Carvalho. 1,642,010; Sept. 13.
 Closure cap. G. Ramsey. 1,640,962; Aug. 30.
 Closure cap lock. F. A. McDonald and F. G. Weihe. 1,633,213; June 21.
 Closure cap, Novel. W. P. Cohoe. 1,615,504; Jan. 25.
 Closure caps to paper receptacles, Apparatus for securing. C. F. Dawson. 1,641,743; Sept. 6.
 Closure caps to paper receptacles, Method and apparatus for securing. C. F. Dawson. 1,641,742; Sept. 6.
 Closure check and adjuster. M. Victorsohn. 1,635,566; July 12.
 Closure, Collapsible sliding. G. E. Petersen. 1,628,511; May 10.
 Closure device. I. H. Kendall. 1,618,882; Feb. 22.
 Closure device. R. D. Simpson. 1,630,222; May 24.
 Closure fastener. J. A. Rice. 1,618,358; Feb. 22.
 Closure fastener. H. E. Thompson. 1,625,507; Apr. 19.
 Closure fastening. W. H. Santee. 1,638,748; Aug. 9.
 Closure for collapsible tubes. L. J. Elsas. 1,647,215; Nov. 1.
 Closure for water bags. M. B. Beach. 1,652,457; Dec. 13.
 Closure lock. J. Baron. 1,633,508; June 21.
 Closure means for filling openings. J. W. Gray. 1,613,886; Jan. 11.
 Closure member. P. J. Kroll. 1,646,154; Oct. 18.
 Closure member. L. R. Tompkins. 1,628,011; May 10.
 Closure member, Mounting for. J. W. Dupuy. 1,615,937; Feb. 8.
 Closure-member securing and bowing device. V. M. Alcaraz. 1,622,898; Mar. 29.
 Closure mounting and operating means. L. G. Siller. 1,622,886; Mar. 29.
 Closure operator. O. B. Dobbins. 1,613,649; Jan. 11.
 Closure operator. O. W. Johnson. 1,639,091; Aug. 16.
 Closure seal. J. E. Sharp. 1,622,547; Mar. 29.
 Closure-securing device. W. E. H. Bell. 1,643,538; Sept. 27.
 Closure-swinging device. J. W. Sealock and M. De Graaf. 1,624,677; Apr. 12.
 Cloth, Apparatus for cleaning. G. Stone. 1,628,690; May 19.
 Cloth, Apparatus for moiré-finishing. J. J. Lyth. 1,635,091; July 5.
 Cloth board or similar article. G. B. Scheffey. 1,616,873; Feb. 8.
 Cloth board or winder. G. B. Scheffey. 1,616,874; Feb. 8.
 Cloth board, winder, or similar article. H. B. Smith. 1,650,051; Nov. 22.
 Cloth boards and similar articles, Frame for. A. C. House and G. B. Scheffey. 1,616,898; Feb. 8.
 Cloth boards, etc., Method and mechanism for covering. H. B. Smith. 1,631,940; June 7.
 Cloth boards, Producing. H. B. Smith. 1,650,049; Nov. 22.
 Cloth boards, Sample holder for. L. E. Masson. 1,641,857; Sept. 6.
 Cloth bridge-table cover or the like, Embroidered. S. N. Mallouk. Des. 72,163; Mar. 8.
 Cloth, Cleaning. C. W. Ebbett. 1,644,053; Oct. 4.
 Cloth-cutting machine. D. S. Maimin. 1,615,288; Jan. 25.
 Cloth-cutting machine. D. S. Maimin. 1,646,031; Oct. 18.
 Cloth, Filter-press. F. R. Furbish. 1,649,822; Nov. 22.
 Cloth gauge. W. H. O'Neill. Re16,720; Aug. 23.
 Cloth gauge. W. H. O'Neill. 1,613,289; Jan. 4.
 Cloth, Hair. I. E. and S. E. Weiser. 1,615,352; Jan. 25.
 Cloth holder. J. Pabst. 1,652,952; Dec. 13.
 Cloth-holding frame. L. A. Brown. 1,613,031; Jan. 4.
 Cloth-treating process. C. H. Crowell. 1,642,360; Sept. 13.
 Clothes and dish washing machine, Combined. W. Brown and S. Morano. 1,622,221; Mar. 22.
 Clothes and other articles, Holder for. J. Emel. 1,637,688; Aug. 2.
 Clothes basket. B. H. Jones. 1,617,055; Feb. 8.
 Clothes boiler. E. Hager. 1,615,579; Jan. 25.
 Clothes cleaner. F. Sever and M. Johnson. 1,643,823; Sept. 27.
 Clothes drier. J. Bunyan. 1,645,179; Oct. 11.
 Clothes drier. H. M. Burdick. 1,648,636; Nov. 8.
 Clothes-drying rack. A. Wallace. 1,616,097; Feb. 1.
 Clothes form. B. Baker. 1,630,820; May 31.
 Clothes hamper. D. London. 1,625,668; Apr. 19.
 Clothes hanger. D. D. Jones. 1,634,750; July 5.
 Clothes hanger. C. A. Rothhouse. 1,616,870; Feb. 8.
 Clothes-hanging apparatus. J. Van Duzer. 1,641,106; Aug. 30.
 Clothes holder, Laundry. J. Engles. 1,650,824; Nov. 29.
 Clothesline cleaner. H. Koester. 1,633,382; June 21.
 Clothesline connection. S. J. Walaschek. 1,620,928; Mar. 16.
 Clothesline fastener. F. Alexander. 1,633,722; June 28.
 Clothesline holder. C. L. Kubista. 1,635,850; July 12.
 Clothesline holder. G. J. A. Molique. 1,632,616; June 14.
 Clothesline lock. S. Wood. 1,638,282; Aug. 9.
 Clothesline receiver. Self-locking. J. S. Green. 1,626,728; May 8.
 Clothesline reel. F. W. Griffin. 1,649,224; Nov. 15.
 Clothesline reel. C. O. Swanson. 1,648,628; Nov. 8.
 Clothesline support. A. and J. Russo. 1,639,275; Aug. 16.

- Clotheslines, Adjustable bracket for. H. S. Leggett. 1,645,334; Oct. 11.
- Clotheslines, Adjustable support for. A. G. Festenburg and A. and H. Sirooni. 1,616,314; Feb. 1.
- Clotheslines, Shielding tape for use upon. J. C. Kindler and J. J. Kankas. 1,633,858; Dec. 27.
- Clotheslines, Supporting attachment for. L. Hagen. 1,623,919; Apr. 5.
- Clothes peg. H. J. and J. A. H. Drew, and J. F. Gardiner. 1,621,108; Mar. 15.
- Clothes peg. G. S. Richardson. 1,615,725; Jan. 25.
- Clothes pegs of wire, Manufacturing. W. Hoppel. 1,635,619; July 12.
- Clothespin. G. Brady. 1,645,220; Oct. 11.
- Clothespin. A. L. Broking. 1,638,979; Aug. 10.
- Clothespin. T. Einarsen. 1,618,277; Feb. 22.
- Clothespin. C. Gerbaczewski. 1,635,833; July 12.
- Clothespin. J. Larson. 1,630,017; May 24.
- Clothespin. E. H. W. Warratt. 1,634,592; July 5.
- Clothespin bag. D. Conway. 1,616,572; Feb. 8.
- Clothespins, Machine for assembling. S. S. Tainter. 1,616,641; Feb. 8.
- Clothes press. F. Cabral. 1,644,367; Oct. 4.
- Clothes-pressing machines, Padding for. R. Rocco. 1,647,545; Nov. 1.
- Clothes-protecting device. J. Harmon. 1,618,157; Feb. 15.
- Clothes protector. F. Wells. 1,636,885; July 26.
- Clothes rack. H. W. Aumack. 1,644,503; Oct. 4.
- Clothes rack. J. B. Felicity. 1,620,199; Mar. 8.
- Clothes rack, Portable. C. H. Mercier. 1,624,796; Apr. 12.
- Clothes support. C. F. Parks. 1,636,431; July 19.
- Clothes washer. O. P. Greenstreet. 1,638,730; Aug. 9.
- Clothes-washing apparatus. H. G. Dugan. 1,626,397; Apr. 26.
- Clothes wringer. L. Cameto. 1,652,424; Dec. 13.
- Clothes wringer. H. J. Griner. 1,640,926; Aug. 30.
- Clothes wringer. S. N. McLean. 1,637,581; Aug. 20.
- Clothes wringer. G. Pagano. 1,628,554; May 10.
- Clothes wringer. W. A. Schnedler. 1,643,643; Sept. 27.
- Clothes wringer. W. P. Shattuck. 1,641,204; Sept. 6.
- Clothes-wringer attachment. R. L. McCoubrie. 1,624,419; Apr. 12.
- Clothing and package carrier. O. I. Massey. 1,631,543; June 7.
- Clothing, curtains, and the like, Suspension device for. J. Ellberg. 1,613,447; Jan. 4.
- Clothing, fabric, and the like, Apparatus for dyeing articles of. R. C. and A. B. Clark. 1,649,445; Nov. 15.
- Cluster construction. C. Hanson. 1,635,888; July 12.
- Clutch. C. M. Anglemeyer and W. P. Coffman. 1,627,006; May 3.
- Clutch. J. L. Baldwin. 1,632,159; June 14.
- Clutch. H. D. Campbell. 1,642,298; Sept. 13.
- Clutch. J. E. Cradick. 1,643,543; Sept. 27.
- Clutch. J. F. Gaylord. 1,642,107; Sept. 13.
- Clutch. W. S. Ireland. 1,649,116; Nov. 15.
- Clutch. V. H. Kitrell. 1,629,036; May 17.
- Clutch. L. S. Kubiac. 1,618,127; Feb. 15.
- Clutch. P. J. Kurscheidt and H. E. Norwood. 1,632,763; June 14.
- Clutch. E. G. Leonard. Rel. 568; Mar. 8.
- Clutch. V. Link. 1,652,446; Dec. 13.
- Clutch. S. W. Lombard. 1,617,717; Feb. 15.
- Clutch. J. O. Mesa. 1,638,542; Aug. 9.
- Clutch. J. S. Miller. 1,647,879; Nov. 1.
- Clutch. J. Patterson. 1,618,470; Feb. 22.
- Clutch. E. C. Pfaff. 1,643,323; Nov. 8.
- Clutch. H. V. Reed. 1,619,884; Mar. 8.
- Clutch. R. A. Smith. 1,615,814; Jan. 25.
- Clutch. J. H. Spangler. 1,649,993; Nov. 22.
- Clutch. A. Taub. 1,638,376; Aug. 9.
- Clutch. A. Taub. 1,644,759; Oct. 11.
- Clutch. K. Teskey. 1,624,025; Apr. 12.
- Clutch. J. T. Trumble. 1,631,235; June 7.
- Clutch. R. W. Weir. 1,653,938; Dec. 27.
- Clutch. A. V. D. Willgoos. 1,632,526; June 14.
- Clutch. C. G. Wood. 1,642,475; Sept. 13.
- Clutch. J. Wulf. 1,642,527; Sept. 13.
- Clutch-cooled, Air-cooled. J. H. Alley. 1,635,353; July 12.
- Clutch and brake control mechanism. G. K. Viall. 1,639,543; Aug. 16.
- Clutch and drum and mounting therefor, Combined. E. H. Fundom. 1,652,240; Dec. 13.
- Clutch and hub for wheels, Combined oil. J. A. Malm. 1,622,956; Mar. 29.
- Clutch and unidirectional driving device. G. Constantinesco. 1,617,010; Feb. 8.
- Clutch, Automatic. F. L. Broussou. 1,623,862; Apr. 5.
- Clutch, Automatic releasing. W. D. Inskeep and E. B. Parsons. 1,632,839; June 21.
- Clutch, Balanced centrifugal. J. O. Carrey. 1,614,101; Jan. 11.
- Clutch, Centrifugal. H. L. Brooke. 1,642,721; Sept. 20.
- Clutch, Centrifugal. J. T. Dickson. 1,618,643-4; Feb. 22.
- Clutch control. A. Smith. 1,624,513; Apr. 12.
- Clutch-control device. W. Cotterill. 1,634,983; July 5.
- Clutch construction. G. C. Carhart. 1,640,732; Aug. 30.
- Clutch construction. J. P. Daly. 1,652,704; Dec. 13.
- Clutch construction. C. B. Spase. 1,644,548; Oct. 4.
- Clutch construction, Spring. W. C. Starkey. 1,615,804; Jan. 25.
- Clutch device. E. L. Ackerman and A. J. Zwierzina. 1,651,052; Nov. 29.
- Clutch device. A. de Joutte. 1,642,606; Sept. 13.
- Clutch device. H. A. Meyers. Rel. 565; Mar. 1.
- Clutch device. W. C. Smith. 1,619,892; Mar. 8.
- Clutch driving mechanism, Friction-. J. Katzman. 1,647,450; Nov. 1.
- Clutch, Electromagnetic. C. Q. Payne. 1,622,261; Mar. 22.
- Clutch, Electromagnetic. E. Price. 1,629,304; May 17.
- Clutch, Electromagnetic friction. J. Bing. 1,622,939; Mar. 29.
- Clutch, Electromagnetically-operated friction. J. Bing. 1,635,068; July 5.
- Clutch-gaging device. A. J. Ersted. 1,625,769; Apr. 19.
- Clutch for power transmission. J. Kubicek. 1,614,370; Jan. 11.
- Clutch for window regulators. P. J. Kurscheidt. 1,628,672; May 17.
- Clutch, Friction. C. H. Aldridge. 1,618,259; Feb. 22.
- Clutch, Friction. Q. C. Carhart. 1,637,734; Aug. 2.
- Clutch, Friction. A. A. Conway. 1,613,845; Jan. 11.
- Clutch, Friction. A. A. Conway. 1,630,656; May 31.
- Clutch, Friction. W. C. De Roo. 1,623,236; Apr. 5.
- Clutch, Friction. D. E. Gamble. 1,623,470; Apr. 5.
- Clutch, Friction. D. E. Gamble. 1,628,877; May 17.
- Clutch, Friction. W. Geist. 1,625,201; Apr. 19.
- Clutch, Friction. A. Guay. 1,637,184; July 25.
- Clutch, Friction. J. Kalaf, jr. 1,635,086; July 5.
- Clutch, Friction. H. V. Reed. 1,626,427; Apr. 26.
- Clutch, Friction. W. C. Starkey. 1,640,472; Aug. 30.
- Clutch, Friction. C. A. Stickney. 1,645,780; Oct. 18.
- Clutch, Friction. G. W. Zabel. 1,626,373; Apr. 26.
- Clutch-holding device. V. Lockwood. 1,613,936; Feb. 22.
- Clutch, Hydraulic. A. H. Manwaring. 1,624,841; Apr. 12.
- Clutch, Hydraulic. V. A. Nelson. 1,619,751; Mar. 1.
- Clutch, Load-limiting. R. Chilton. 1,632,539; June 14.
- Clutch lock, Automobile. F. A. Miranda. 1,635,797; July 2.
- Clutch, Machine-tool. L. F. Nenninger. 1,625,738; Apr. 19.
- Clutch, Magnetic. J. W. Thropp. 1,621,383; Mar. 15.
- Clutch mechanism. C. H. Benedict. 1,628,219; May 10.
- Clutch mechanism. W. E. Broughton. 1,649,283; Nov. 17.
- Clutch mechanism. J. C. Carlton. 1,642,642; Sept. 13.
- Clutch mechanism. F. Cartledge. 1,634,489; July 5.
- Clutch mechanism. F. Cartledge. 1,648,110; Nov. 8.
- Clutch mechanism. J. B. Draper. 1,617,679; Feb. 15.
- Clutch mechanism. H. H. Kessler. 1,628,629; May 10.
- Clutch mechanism. N. J. Pepin. 1,649,728; Nov. 15.
- Clutch mechanism. F. N. Ross. 1,643,473; Sept. 27.
- Clutch mechanism. H. Swanson. 1,617,877; Feb. 15.
- Clutch mechanism. H. A. Tuttle. 1,646,125; Oct. 18.
- Clutch mechanism. V. M. Wade and C. E. Zusan. 1,643,356; Sept. 27.
- Clutch mechanism. G. Wilcox. 1,630,816; May 31.
- Clutch mechanism, Friction-. A. E. Robinson. 1,625,397; Apr. 19.
- Clutch mechanism particularly applicable to wire twisting or tying machines. E. A. Ingold. 1,622,146; Mar. 22.
- Clutch mechanism, Safety device for. J. B. Monahan. 1,625,045; Apr. 19.
- Clutch motor. R. A. McCarty. 1,638,949; Aug. 16.
- Clutch motors, Roller bearing for. R. Fruger. 1,638,959; Aug. 16.
- Clutch, Oil. J. A. Malm. 1,622,955; Mar. 29.
- Clutch, One-way. M. and W. Osterberg. 1,614,895; Jan. 13.
- Clutch, One-way. D. L. Oulton. 1,629,585; May 24.
- Clutch-operating mechanism. J. F. Wright. 1,631,392; June 7.
- Clutch-operating mechanism. J. F. Wright. 1,632,865; June 21.
- Clutch or brake, Self-adjusting. C. Stuart. 1,647,482; Nov. 1.
- Clutch pedals, Lever control for. H. J. England. 1,631,929; June 7.
- Clutch plate. D. E. Gamble. 1,652,005-7; Dec. 6.
- Clutch plate. H. E. Maynard. 1,613,669; Jan. 11.
- Clutch-protecting device. C. M. Hibbels. 1,636,959; July 26.
- Clutch-release coupling. F. A. Brinkman. 1,652,345; Dec. 13.
- Clutch release, Safety. R. H. Pratt. 1,646,458; Oct. 25.
- Clutch-releasing device, Safety. T. A. Bowe. 1,627,313; May 3.
- Clutch, Reversible. W. A. Cook. 1,651,675; Dec. 6.
- Clutch, Reversing oil. J. A. Malm. Rel. 568; July 5.
- Clutch, Ribbon-spool. S. A. Neidich. 1,620,279; Mar. 8.
- Clutch, Roller. C. Andrade, jr. 1,639,974; Aug. 23.
- Clutch, Roller. S. H. Mortimer. 1,634,202; June 28.
- Clutch-shifting mechanism, Spring-operated. P. C. Burton. 1,640,530; Aug. 30.
- Clutch, Spring. C. Drexler. 1,629,098; May 17.
- Clutch-throw-out mechanism, Automatic. J. P. Daly. 1,652,705; Dec. 13.
- Clutch transmission. Hydraulic. E. H. McKinney. 1,656,700; July 26.
- Clutch-tripping mechanism. M. Feybusch and P. W. Fleischer. 1,641,258; Sept. 6.
- Clutches and the like, Friction body for multiple-disk. J. Bing. 1,625,933; Apr. 26.
- Clutches, Attachment for. S. B. Lambert. 1,634,948; July 5.

- Clutches, Control element for. C. Andrade, jr. 1,635,599; July 12.
- Clutches, Safety device for. D. Brodkey. 1,615,005; Jan. 18.
- Coal agitator. O. Aram. 1,649,333; Nov. 15.
- Coal and ore, Apparatus for washing. G. W. Wilmot. 1,639,915; Aug. 23.
- Coal and similar material, Weigher for. M. Gordon. 1,632,595; June 14.
- Coal and the like, Drying. H. Fleissner. 1,632,829; Jan. 22.
- Coal breaker. J. T. Norman. 1,618,721; Feb. 22.
- Coal, Briquetting. S. R. Wagel. 1,618,029; Feb. 15.
- Coal, Briquetting bituminous. S. R. Wagel. 1,623,764; Apr. 5.
- Coal-chute gate. E. A. Titus. Ref. 6,633; May 24.
- Coal cutter. J. C. Brackett. 1,614,182; Jan. 11.
- Coal-cutting machine. J. C. Brackett. 1,639,255; Aug. 16.
- Coal, Distilling. R. G. Griswold. 1,635,667; July 12.
- Coal drier. H. B. Carpenter. 1,650,427; Nov. 22.
- Coal drill. J. Arvelj. 1,642,355; Sept. 13.
- Coal drying. O. W. Randolph. 1,623,553; Apr. 5.
- Coal feeder and separator and grader. J. T. Norman. 1,651,620; Dec. 6.
- Coal from dirt and like foreign substances, Apparatus for separating. W. H. Berrisford. 1,648,716; Nov. 8.
- Coal-grinding mill. M. W. Arrowood. 1,628,099; May 10.
- Coal handling apparatus. A. Allen. 1,647,168; Nov. 1.
- Coal-handling plant. G. S. Jaxon. 1,617,117; Feb. 8.
- Coal jig. W. A. Reilly. 1,646,422; Oct. 25.
- Coal-loading machine. T. L. Johnson. 1,625,726; Apr. 19.
- Coal, Method of and apparatus for breaking. P. G. Seigle and G. E. Dean. 1,620,838; Mar. 15.
- Coal-mining apparatus. N. D. Levin. 1,617,401; Feb. 15.
- Coal-mining apparatus. N. D. Levin. 1,638,447; Aug. 9.
- Coal-mining explosive. W. O. Snelling. 1,631,070; May 31.
- Coal-mining machine. M. P. Holmes. 1,652,529; Dec. 13.
- Coal-sorting-operating device. G. M. Wutzler. 1,653,914; June 28.
- Coal stoker and burner, Combined. J. C. St. Clair. 1,633,465; June 21.
- Coal system, Pulverized-. J. E. Bell. 1,641,470; Sept. 6.
- Coaster. R. E. Gardner. 1,613,508; Jan. 4.
- Coaster brake. L. G. Ouellet. 1,629,296; May 17.
- Coaster, Child's. J. J. Behm. 1,620,939; Mar. 15.
- Coaster, for children. F. W. Darling. 1,618,272; Feb. 22.
- Coaster, Marble. G. M. Nelson. 1,615,342; Jan. 25.
- Coaster-track structure. H. P. Schneck. 1,621,337; Mar. 15.
- Coaster-track structure. W. H. Strickler. 1,642,275; Sept. 13.
- Coaster vehicle. E. F. Hesch. 1,638,487; Aug. 9.
- Coaster wagon. W. M. Shewry. 1,623,443; Apr. 5.
- Coaster wagon. H. A. Trullinger. 1,620,926; Mar. 15.
- Coaster-wagon brake. E. S. Showers. 1,628,559; May 10.
- Coaster wagon, Convertible. F. A. Pearl. 1,625,422; Apr. 19.
- Coaster wagons, Steering mechanism for. W. Erni. 1,627,022; May 3.
- Coat. D. Caparola. 1,646,274; Oct. 18.
- Coat. F. Falkner. 1,623,781; Apr. 5.
- Coat. I. Farbman. 1,625,355; Apr. 19.
- Coat. G. Robbins. Des. 74,121; Dec. 20.
- Coat. M. Siegel. Des. 72,335; Mar. 25.
- Coat and trouser banger, Combination. H. W. S. Hoy. 1,617,116; Feb. 8.
- Coat, Goat and sheep. H. W. Rieck. 1,612,945; Jan. 4.
- Coat hook. J. B. O'Connor. 1,633,495; June 21.
- Coat, Reversible. S. Wolslawsky. 1,648,250; Nov. 8.
- Coating. W. H. Allen. 1,613,428; Jan. 4.
- Coating. B. Talbot. 1,633,745; Dec. 27.
- Coating article. A. F. Lindstrom. 1,613,758; Jan. 11.
- Coating articles, Process and apparatus for. F. Alburg. 1,618,159; Feb. 22.
- Coating articles with glass, enamel, quartz, and metals, Device for. M. U. Schoop. 1,617,160; Feb. 8.
- Coating composition. C. D. Hocker. 1,634,359; July 5.
- Coating composition. A. F. Lindstrom. 1,613,757; Jan. 11.
- Coating compositions. C. D. Hocker. 1,638,579; Aug. 9.
- Coating for covered conductors and applying the same, Protecting. O. A. Frederickson. 1,635,829; July 12.
- Coating inner surfaces of hollow bodies. R. P. Jackson. 1,621,016; Mar. 15.
- Coating machine. H. G. Weber. 1,618,724; Feb. 8.
- Coating machine and coating cylindrical objects. R. F. Becht. 1,622,174; Mar. 22.
- Coating machine, Candy. D. Piccardo. 1,618,471; Feb. 22.
- Coating machine, Centrifugal. H. W. Pleister. 1,618,779; Feb. 22.
- Coating, Machine for deposition of. R. G. Fordyce. 1,642,607; Sept. 13.
- Coating, Machine for deposition of. R. G. Fordyce. 1,644,993; Oct. 11.
- Coating machine. W. C. Huebner. 1,647,360; Nov. 1.
- Coating material, Apparatus or tool for applying. J. J. Preble and W. B. Thompson. 1,627,117; May 3.
- Coating materials. E. J. Haverstick. 1,619,343; Mar. 1.
- Coating materials having an iron or steel base. L. A. Wynd and J. L. Schueler. 1,630,507; May 31.
- Coating, Method of and apparatus for. P. J. Barord. 1,643,330; Sept. 27.
- Coating process. A. Eggiman and A. Perca. 1,640,185; Aug. 23.
- Coating webs with adhesive, Machine for. A. M. Becker. 1,618,631; Feb. 22.
- Coatings, Removal of. W. H. Allen. 1,639,070; Aug. 16.
- Coats, Combination muffler holder for. H. Roineck. 1,629,840; May 24.
- Cobaltous acetate, Production of. H. Schatz. 1,637,281; July 26.
- Cobbler's jack. J. A. Young. 1,637,462; Aug. 2.
- Cock and switch, Combined. C. C. Farmer. 1,649,023; Nov. 15.
- Cock, Angle. H. F. Bickel. 1,642,215; Nov. 8.
- Cock, Angle. J. A. Clift. 1,616,351; Feb. 1.
- Cock having automatic hydraulic ball. W. L. Gilchrist. 1,618,331; Feb. 22.
- Cock, Automatic hydraulic ball. W. L. Gilchrist. 1,646,691; Oct. 25.
- Cock, Blow-off. O. Huff. 1,620,464; Mar. 8.
- Cock, Gauge. F. L. Scott. 1,653,734; Dec. 27.
- Cock, Gauge. H. E. Walling. 1,618,119; Feb. 15.
- Cock having automatic seating plug, high-pressure. M. R. Shipley. 1,624,512; Apr. 12.
- Cock having floating plug, Stop. M. R. Shipley. 1,642,973; Sept. 20.
- Cock device, Angle-. G. W. Wildin and C. C. Farmer. 1,650,312; Nov. 22.
- Cock, Plug. J. F. Straitz. 1,648,613; Nov. 8.
- Cock holder, Angle. S. H. Campbell. 1,643,689; Oct. 18.
- Cock holder, Angle. L. A. Hoerr. 1,616,086; Feb. 1.
- Cock holder, Angle. F. H. Pietzsch. 1,626,690; May 3.
- Cock or valve, Gas. F. W. Moore. 1,628,263; May 10.
- Cock, Plug. T. H. Addie. 1,620,623; Mar. 15.
- Cock, Plug. T. L. Brannen. 1,643,370; Sept. 27.
- Cock, Quick-closure ball. D. Miller. 1,616,698; Feb. 8.
- Cock, Safety gas. C. J. Ermentrout. 1,618,071; Feb. 15.
- Cock, Safety try. R. D. Valentine. 1,636,397; July 19.
- Cocks, Operating mechanism for bleed. W. A. Calloway. 1,616,110; Feb. 1.
- Cocks, Safety attachment for gas. C. Muller. 1,651,038; Oct. 23.
- Cocktail shaker. J. González. Des. 73,656; Oct. 18.
- Cocoa, chocolate, and the like, Manufacture of. H. Horn. 1,621,409; Mar. 15.
- Cocoa or chocolate and milk and product thereof, Making mixtures of. C. E. North. 1,617,721; Feb. 15.
- Cocoa-welling machine. J. F. Kohler. 1,645,600; Oct. 18.
- Coconuts, Shelling. F. R. Schmitt. 1,626,361; Apr. 26.
- Code impulse combinations, Apparatus for transmitting. H. A. Wallace. 1,645,122; Oct. 11.
- Cod-liver oil a highly concentrated substance rich in antirachitic and antixerophilic vitamins and the product thereof, Obtaining from. C. Funk and H. E. Dubin. 1,629,074; May 17.
- Coffee and making the same. B. C. Gerwick. 1,624,330; Apr. 12.
- Coffee and tea pot, Combined. C. Griffin. 1,631,932; June 7.
- Coffee made from caffeine, Production of. F. Kündig. 1,629,512; May 24.
- Coffee grinders or the like, Hopper for. M. K. Akers. Des. 72,340; Apr. 5.
- Coffee, Improving the qualities of. O. Gewalt. 1,636,300; July 19.
- Coffee maker. T. Magliano. 1,638,013; Aug. 9.
- Coffee maker. I. D. Reichelmer. 1,613,483; Jan. 4.
- Coffeepot. J. B. Allen. 1,652,552; Dec. 13.
- Coffeepot. M. Bontempl. 1,619,967; Mar. 8.
- Coffeepot. L. W. Hyde. 1,631,486; June 7.
- Coffeepot. V. Lambert. 1,632,342; June 14.
- Coffeepot. E. E. Lane. 1,624,406; Apr. 12.
- Coffeepot. E. P. McClure. 1,643,309; Sept. 27.
- Coffeepot attachment. G. Mrozek. 1,654,155; Dec. 27.
- Coffeepot or analogous article. H. E. Nock. Des. 72,328; Mar. 29.
- Coffeepot or analogous article. H. E. Nock. Des. 74,153; Dec. 27.
- Coffin, product and making it. J. L. Kopf. 1,637,048; Aug. 2.
- Coffee tablet and making same. F. P. McColl. 1,641,446; Sept. 6.
- Coffee, Treating. R. Cross. 1,640,648; Aug. 30.
- Coffee urn. R. S. Gehbert. 1,636,179; July 19.
- Coffee urn. T. W. Turner. 1,637,286; July 26.
- Coffee-urn apparatus. H. L. Reckard. 1,630,904; May 31.
- Coffee-urn attachment to automatically measure more than one substance simultaneously to deliver a combined uniform volume. D. M. Clark. 1,627,147; May 3.
- Cofferdam, Knockdown. K. Schoen. 1,633,131; June 21.
- Coffin case, Metallic. B. G. McMuller. 1,622,529; Mar. 29.
- Coll. M. B. Grout. 1,625,465; Apr. 19.
- Coll. Adapter. E. C. Rodman. 1,635,096; July 5.
- Coll. Adjustable. H. Vadsen. 1,647,259; Nov. 1.
- Coll. amplification unit, Choke. E. E. Hiller. 1,615,224; Jan. 25.
- Coll. and mounting, Electrical. F. J. De Lewsky. 1,651,447; Dec. 6.
- Coll. and support for same. L. L. Karas. 1,625,212; Apr. 19.
- Coll. Choke. A. G. Steinmayer. 1,646,502; Oct. 25.
- Coll. core, Induction. G. S. Chauncey. 1,620,143; May 17.

- Coll. Electric. J. Le Ganceur. 1,614,909; Jan. 11.
 Coll. Electrical. C. H. Franks. 1,638,577; June 28.
 Coll. former. A. O. Way. 1,623,766; Apr. 5.
 Coll-forming device. L. A. Cole. 1,633,068; June 21.
 Coll-forming machine. L. A. Cole. 1,642,229; Sept. 13.
 Coll. High-frequency. E. B. Featherstone. 1,653,951; Dec. 27.
 Coll. Inductance. E. M. Hewlett. 1,652,938; Dec. 13.
 Coll. mounting. F. L. Satterlee. 1,614,020; Jan. 11.
 Coll. Pulp-heating. H. W. Lowe. 1,624,749; Apr. 12.
 Coll. Reactance. E. G. Newton. 1,629,293; May 17.
 Coll. Repeating. W. L. Casper. 1,617,372; Feb. 15.
 Coll-spacing device, Transformer-. A. Veitch. 1,624,896; Apr. 12.
 Coll-spreading machine. S. H. Browning. 1,631,084; May 31.
 Coll. tester. F. Pucillo. 1,636,968; July 26.
 Coll. Variable inductance. S. J. Wood and H. A. Greene, Jr. 1,638,385; Aug. 9.
 Coll. Water-heater. E. C. Hoyt. 1,614,242; Jan. 11.
 Coll. Water-heating. J. F. Reinecke. 1,646,560; Oct. 25.
 Coll. winder. A. J. Fathauer. 1,620,879; Mar. 15.
 Coll-winding form. H. J. Cocks. 1,640,821; Aug. 30.
 Coll-winding method and apparatus. D. R. Lovejoy. 1,637,121; July 26.
 Coll. with multiple adjustments. C. D. Richard and G. T. Morris. 1,624,864; Apr. 12.
 Coiled material, Heating. A. S. Holmes. 1,635,715; July 12.
 Coils carrying high-frequency currents. Screening of. W. S. Worthington. 1,628,569; May 10.
 Coils. Machine for forming and attaching wire. W. Kwi. 1,649,600; Mar. 15.
 Coils. Machine for winding resistance. E. N. Lightfoot. 1,627,188; May 3.
 Coils, Making. B. R. Scott. 1,643,998; Oct. 4.
 Coils, Making electrical. A. D. Cardwell. 1,616,111; Feb. 1.
 Coils, Method and apparatus for making edge-wound. G. H. Whittingham. 1,630,912; May 31.
 Coils. Mounting for inductance. A. M. Weinkle. 1,644,213; Oct. 4.
 Coin bank. F. G. Perkins. 1,653,021; Dec. 20.
 Coin bank. J. F. Funzak. Des. 73,008; July 5.
 Coin bank. Nonrefillable. P. O. Hoag. 1,637,312; July 26.
 Coin chute. W. A. Tratsch. 1,641,304; Sept. 6.
 Coin collector. W. H. Edwards and R. S. Tucker. 1,652,239; Dec. 13.
 Coin-control levers. Adjusting attachment for. H. F. Burt. 1,649,017; Nov. 15.
 Coin-controlled apparatus. G. F. Higgins. 1,632,838; June 21.
 Coin-controlled apparatus. C. Lea. 1,628,852; May 17.
 Coin-controlled apparatus. H. L. Treichler. 1,649,425; Nov. 15.
 Coin-controlled apparatus. H. Walker. 1,652,919; Dec. 13.
 Coin-controlled apparatus. J. B. Watling. 1,624,881; Apr. 12.
 Coin-controlled device. W. C. De Armond and W. R. H. Watt. 1,638,682; Aug. 9.
 Coin-controlled devices. Fraud preventer for. W. F. Donahue. 1,619,247; Mar. 1.
 Coin-controlled lock. H. C. Beebe. 1,621,100; Mar. 15.
 Coin-controlled lock. W. J. Dobkin. 1,628,711; May 17.
 Coin-controlled lock. N. W. Gayle. 1,626,193; Apr. 26.
 Coin-controlled lock. H. L. Johnson. 1,640,605; Aug. 30.
 Coin-controlled lock. H. L. Johnson. 1,643,458; Sept. 27.
 Coin-controlled lock. F. W. Kasser. 1,633,411; June 21.
 Coin-controlled machine. A. Malkin. 1,644,067; Oct. 4.
 Coin-controlled machine. J. J. Scharril, Jr. 1,621,756; Mar. 22.
 Coin-controlled machines. Slug detector for. F. Hedley and J. S. Doyle. 1,630,427; May 31.
 Coin-controlled means. M. J. Kindrat and H. Zatzerkowny. 1,649,831; Nov. 22.
 Coin-controlled mechanism. C. Di Martino and E. Lindquist. 1,623,466; Apr. 5.
 Coin-controlled mechanism. G. Giambra. 1,629,211; May 17.
 Coin-controlled vending device. F. J. McFarland. 1,632,493; June 14.
 Coin-controlled vending machine. D. Lazar and H. A. Drew. 1,630,439; May 31.
 Coin. counter and stacker. P. C. Smith. 1,618,390; Feb. 22.
 Coin-delivery machine. E. J. Brandt. 1,616,679; Feb. 8.
 Coin-delivery machine, Casing for. A. E. J. Brandt. Des. 73,556; Oct. 4.
 Coin detector. W. C. Bellows. 1,650,483; Nov. 22.
 Coin detector. M. F. Kraus. 1,640,453; Aug. 30.
 Coin-feed apparatus. H. J. Dolman. 1,646,277; Oct. 18.
 Coin-handling machine. E. J. Brandt. 1,643,941; Oct. 4.
 Coin holder. J. C. Martine. 1,615,642; Jan. 25.
 Coin holder. V. Pepe. 1,633,127; June 21.
 Coin holder. T. J. Suzbrun. 1,626,366; Apr. 26.
 Coin lock. G. Chapman. 1,653,150; Dec. 20.
 Coin machine. F. H. Brinckerhoff. 1,625,979; Apr. 26.
 Coin-operated machine, Automatic. G. R. Barr. 1,621,230; Mar. 15.
 Coin-operated soap dispenser. A. Soderholm. 1,643,961; Oct. 4.
 Coin receptacle. D. L. Chandler. 1,637,549; Aug. 2.
 Coin receptacle. F. Minto. 1,644,539; Oct. 4.
 Coin selector. G. F. Hochriem. 1,623,186; Apr. 5.
 Coin-wrapper. crimper. W. B. Howard. 1,629,625; May 24.
 Coin-wrapping machine. C. L. Burdick. 1,628,576; May 10.
 Coin-wrapping machine. G. T. Gillette. 1,628,240; May 10.
 Coke and producing the same. T. H. Hall. 1,650,126; Nov. 22.
 Coke and semicoke. Production of. E. B. G. Bascou. 1,618,563; Feb. 22.
 Coke-handling mechanism. D. P. Finney. 1,618,701; Feb. 22.
 Coke. Quenching. H. M. Crossett. 1,614,456; Jan. 18.
 Coking retort oven. J. van Ackeren. 1,613,068; Jan. 4.
 Colander. C. E. Ayres. 1,621,823; Mar. 22.
 Colander. A. M. Samson. 1,652,053; Dec. 6.
 Collapsible box. M. Leiberman. 1,651,284; Nov. 29.
 Collar. H. H. Yerk and W. J. Baumberger. 1,623,609; Apr. 5.
 Collapsible case. G. A. Bender. 1,644,909; Oct. 11.
 Collapsible chair. W. J. Bauer. 1,643,107; Sept. 20.
 Collapsible crate. J. P. Butcher. 1,624,212; Apr. 12.
 Collapsible rack. D. H. Bitney. 1,612,903; Jan. 4.
 Collapsible rack. J. Pearson. 1,621,558; Mar. 22.
 Collapsible tube. K. Kiefer. 1,624,140; Apr. 12.
 Collapsible tube. H. H. McNaugeron. 1,615,127; Jan. 18.
 Collapsible tube. S. J. Zammataro. 1,621,097; Mar. 15.
 Collar. L. H. Gilmer. 1,614,118; Jan. 11.
 Collar. L. H. Gilmer. 1,642,544; Sept. 13.
 Collar. C. Goetting. 1,613,653; Jan. 11.
 Collar. M. Kahn. 1,622,087; Mar. 22.
 Collar. H. M. Laube. 1,645,431; Oct. 11.
 Collar. W. H. Rabell. 1,640,805; Aug. 30.
 Collar and cuff. O. Roberts. 1,631,985; June 14.
 Collar and cuff and making the same. R. F. Bacon and C. H. Kidwell. 1,647,950; Nov. 1.
 Collar and forming same. Coat. W. H. Kessel. 1,618,438; Feb. 22.
 Collar and making the same. G. J. Dormandy. 1,646,192; Oct. 18.
 Collar. Apparel. P. F. Hesse. 1,643,497; Sept. 27.
 Collar buster and casing spear. Combined. P. Dietrich. 1,623,533; Mar. 10.
 Collar button. S. Kaufman. 1,629,822-3; May 24.
 Collar button. W. R. Larter. 1,638,491; Aug. 9.
 Collar-button guard. C. Heimgartner and O. Sterli. 1,626,137; Apr. 26.
 Collar clasp. Soft. M. Kasper. 1,621,730; Mar. 22.
 Collar. Cuff. F. and H. Hohenstein. 1,638,692; Aug. 9.
 Collar-display device. C. M. Connolly. 1,626,514; Apr. 26.
 Collar fastener. F. Wolf. 1,619,390; Mar. 1.
 Collar leak clamp. J. W. French and E. D. Chabasol. 1,638,482; Aug. 9.
 Collar pad. W. H. Miller. 1,653,816; Dec. 27.
 Collar. Reversible. P. Sukrow. 1,637,540; Aug. 2.
 Collar. Self-locking drive. R. R. Searies. 1,650,573; Nov. 22.
 Collar. Semisoft. R. Hunter. 1,642,858; Sept. 20.
 Collar. Set-screwless. M. R. Schall. 1,645,457; Oct. 11.
 Collar. Set-screwless. W. J. Jones and H. D. Roberson. 1,650,717; Nov. 29.
 Collar. Soft. N. E. Walter. 1,629,202; Nov. 15.
 Collar-stretching machine. M. L. Kaplan and M. Brandish. 1,619,939; Mar. 8.
 Collars. Hook for breast. P. Clavier. 1,616,350; Feb. 1.
 Collaret-reinforcing means. W. W. Burke. 1,614,278; Jan. 11.
 Colleries. Controlling apparatus for. D. F. Brown and F. J. Rymor. 1,613,788; Jan. 11.
 Collet. E. E. Minard. 1,646,926; Oct. 25.
 Colloid mill. L. A. Molin. 1,650,088; Nov. 22.
 Colloid products. Forming. S. A. Neidich. 1,643,080; Sept. 20.
 Colloidal adhesive composition. B. Dewey. 1,627,278; May 8.
 Colloidal systems. Stabilizing. W. O. Herrmann and W. Haeubel. 1,629,161; May 17.
 Color chart. E. F. Kern. 1,618,664; Feb. 22.
 Color chart. A. E. O. Munsell. 1,617,024; Feb. 8.
 Color chips to cards. Machine for attaching. D. A. Urie. 1,644,044; Oct. 4.
 Color combinations. Determining. H. H. Adler. 1,630,247; May 31.
 Color design. Producing relative. R. Sykora. 1,620,604; Apr. 8.
 Color harmony device. H. H. Adler. 1,629,330; May 17.
 Color mixer. H. Gruender. 1,619,468; Mar. 1.
 Color-printing compensator. E. A. Waller. 1,643,324; Sept. 27.
 Color printing. Half-tone photo-engraving. B. F. Hutchison. 1,618,534; Feb. 22.
 Color printing. Photographing. B. F. Hutchison. 1,618,533; Feb. 22.
 Color screen. Light. C. L. Kellert. 1,648,234; Nov. 8.
 Color-sorting machine. R. E. Rundell. 1,626,359; Apr. 26.
 Color standards. System of. B. A. and A. Ames, Jr. 1,612,791; Jan. 4.
 Colored-vapor signal. T. G. Hitt. 1,624,600; Apr. 12.
 Coloring agent. Flame. C. Ellis. 1,617,996; Feb. 15.
 Coloring composition and preparing same. Food-. W. D. Bost. 1,616,739; Feb. 8.

- Coloring for butter and oleomargarine. Powdered butter. A. F. Liles. 1,649,821; Nov. 22.
- Coloring letters or figures impressed in metal tags, badges, etc. O. M. Martin and C. M. Webster. 1,640,787; Aug. 30.
- Coloring machine. A. Wyckoff. 1,628,020; May 10.
- Coloring materials. J. P. Trickey. 1,627,939; May 10.
- Coloring matters and other impurities from solutions. Removing. M. Levy. 1,615,091; Jan. 18.
- Coloring matters. Production of polyazo. L. H. Flett. 1,616,850; Feb. 8.
- Coloring means. Fire-flame. J. A. Lahey. 1,625,475; Apr. 19.
- Colorimeter. J. P. Bader. 1,629,609; May 24.
- Colorimeter. W. L. Patterson. 1,645,515; Sept. 27.
- Colors. Device for selecting. H. H. Adler. 1,651,860; Dec. 6.
- Coloscope. E. J. Frangedakis. 1,633,443; June 21.
- Colter. E. Morberg. 1,623,488; Apr. 5.
- Colter. E. E. Wolf. 1,651,938; Dec. 6.
- Colter. Plow. A. Craig. 1,627,277; May 3.
- Colter. Rolling. F. L. Dewey. 1,636,810; July 26.
- Column and guard. W. G. Kiefer. 1,617,762; Feb. 15.
- Column clamp. C. L. Meyer. 1,634,141; June 28.
- Column clamp. Concrete. E. T. Corbin. 1,643,838; Sept. 27.
- Column clamp with castings. H. O. McMillan. 1,636,143; July 19.
- Column-form clamp. E. E. Davis. 1,636,462; July 19.
- Column joint. Deep-well. A. R. Wright. 1,647,380; Nov. 1.
- Column spacer. H. M. Forker. 1,627,026; May 3.
- Columns. Constructing. H. T. Kraft. 1,623,939; Apr. 5.
- Comb. *See*—
- Barber's comb. Hair comb.
- Body comb. Hair-cutting comb.
- Cleansing comb. Hair-retaining comb.
- Fine-tooth comb. Hair-waving comb.
- Foldable comb. Reversible comb.
- Fountain comb.
- Comb. C. G. Anderson. 1,642,916; Sept. 20.
- Comb. A. A. Elnett. 1,621,005; Mar. 15.
- Comb. R. N. Hymer. 1,633,893; June 28.
- Comb. G. Kohlmeyer. Des. 73,193; July 26.
- Comb. H. E. Scott. 1,615,408; Jan. 25.
- Comb. M. L. Speer. 1,640,429; Aug. 30.
- Comb and brush. Combination hair. H. Stephens, jr. 1,644,208; Oct. 4.
- Comb and brush. Combined. J. Zawyrucha. 1,651,659; Dec. 6.
- Comb and making the same. B. Ames. 1,637,249; July 26.
- Comb and making the same. Textile. G. J. Uzman. 1,654,105; Dec. 27.
- Comb, brush, and mirror. Combination. M. Koske. 1,626,415; Apr. 26.
- Comb for hair cutting. F. Roberts. 1,477,408; May 3.
- Comb for laying underground electric conduits. Extension. C. D. Healy. 1,650,833; Nov. 29.
- Comb holder. Combination. E. J. Harkness. 1,645,138; Oct. 11.
- Combined machine. C. Straub. 1,646,796; Oct. 25.
- Combining machine. J. J. G. Gorman. 1,620,325; Mar. 8.
- Combining machine. J. Jolly. 1,640,705; Aug. 30.
- Combining machine. J. J. O'Grady. 1,613,672; Jan. 11.
- Combining machines for combining cotton and other fibrous materials. Detaching roller of. N. and S. Jones. 1,639,802; Aug. 23.
- Combination article. A. G. Smith. 1,622,167; Mar. 22.
- Combination box. F. P. Bird. 1,616,436; Feb. 8.
- Combination clamp. E. R. Thomas. 1,645,463; Oct. 11.
- Combination light. W. Harling. 1,645,487; Oct. 11.
- Combination lock. E. J. Carnes. 1,622,489; Mar. 29.
- Combination lock. L. Haller. 1,614,459; Jan. 18.
- Combination lock. K. H. Oberg. 1,622,605; Mar. 29.
- Combination lock. G. B. Poindexter. 1,637,009; July 26.
- Combination lock. F. D. Rohmer. 1,627,462; May 3.
- Combination puller. D. H. Schonfeld. 1,629,003; May 17.
- Combination switch. W. Kalsling. 1,621,729; Mar. 22.
- Combination tool. R. C. Hofmaister. 1,624,788; Apr. 12.
- Combination tool. B. F. Shaughnessy. 1,615,410; Jan. 25.
- Combs, brushes, and the like. Attachment to folding. E. Backes. 1,651,746; Dec. 6.
- Combustible material. Treating. R. C. Newhouse. 1,628,609; May 10.
- Combustible mixtures. Method and apparatus for preparing. F. E. Aseltine. 1,649,278; Nov. 15.
- Combustion. J. L. Bresse, jr. 1,634,933; July 5.
- Combustion. C. Schwartz. 1,617,694; Feb. 15.
- Combustion. B. Valjean. 1,659,202; Aug. 16.
- Combustion apparatus. L. I. Aldrich. 1,653,611; Dec. 27.
- Combustion apparatus. J. Good. 1,625,313; Apr. 19.
- Combustion apparatus. R. J. Sovereign. 1,634,857; July 5.
- Combustion chamber. H. W. Ash and W. B. Slemmer. 1,654,358; Dec. 27.
- Combustion chambers. Supplying heated air to. G. van Dnam. 1,639,014; Aug. 10.
- Combustion-control apparatus. F. D. Potter. 1,618,474; Feb. 22.
- Combustion. Device for promoting. E. A. Earle. 1,637,741; Aug. 2.
- Combustion engine. G. L. Bull. 1,629,677; May 24.
- Combustion machines. Charging device for. F. Porsche. 1,639,784; Aug. 23.
- Combustion machines. Coupling device for blowers of. F. Porsche. 1,630,634; May 31.
- Combustion system. A. J. Boynton. 1,634,570; July 5.
- Combustion system. L. L. Scott. 1,625,629-30; Apr. 19.
- Combustion-testing apparatus. R. P. Brown. 1,615,503; Jan. 25.
- Communitated solid material. Cooling. J. O. Jensen. 1,619,577; Mar. 1.
- Commercial. Apparatus for. C. H. Birch. 1,646,184; Oct. 18.
- Comminuting mill. R. C. Newhouse. 1,620,982; Mar. 15.
- Comminuting paste and liquid materials. Apparatus for. H. Horn. 1,617,520; Feb. 15.
- Commode. P. J. Pieretti. 1,646,257; Oct. 18.
- Commode. Automobile. G. N. Handie. 1,650,155; Nov. 22.
- Communication device. M. J. Tracy. 1,635,650; July 12.
- Communication system. J. W. Horton. 1,641,431; Sept. 6.
- Communication system. H. W. O'Neill. 1,624,672; July 12.
- Communication systems. Device for the protection of. R. Rüdenberg. 1,651,729; Dec. 6.
- Commutator. E. Gratton. 1,635,886; July 12.
- Commutator. P. M. Randall. 1,641,194; Sept. 6.
- Commutator and making same. L. Bonsieur. 1,631,461; June 12.
- Commutator brushes. Method of and apparatus for grinding. H. A. Lewis. 1,614,005; Jan. 11.
- Commutator motor. Alternating-current. P. Rohde. 1,620,395; Mar. 8.
- Commutators. Manufacture of. J. J. Carter. 1,633,922; June 28.
- Commutators. Manufacturing. R. M. Critchfield. 1,641,414; Sept. 6.
- Compact. Beauty. E. S. Tipton. 1,626,311-12; Apr. 26.
- Compact case. C. N. Corryell. 1,625,114; Apr. 19.
- Compact case. B. d'Escayrac. Des. 72,700; May 24.
- Compact case. Double-swinging-mirror. S. Morrison. 1,626,474; Apr. 26.
- Compact holder. W. G. Kendall. Des. 74,014; Dec. 6.
- Compact holder. W. G. Kendall. 1,626,613; May 3.
- Compact holder. W. G. Kendall. 1,626,842; May 3.
- Compact holder. L. E. Sadler. 1,644,282; Oct. 4.
- Compact-powder holder. J. S. Lyon. 1,625,669; Apr. 19.
- Compact press and making compacts. T. J. Lewis. 1,638,598; Aug. 9.
- Compacts, tablets, wafers, and the like. Machine for making. W. G. Mudd. 1,626,860; May 3.
- Compass. R. C. Wales. 1,616,935; Feb. 8.
- Compass. A. N. Zavagno. 1,637,507; Aug. 2.
- Compass attachment for writing implements. L. M. Kirk. 1,649,553; Nov. 15.
- Compass. Beam. K. Akashi. 1,619,392; Mar. 1.
- Compass. Beam. E. Nelson. 1,619,750; Mar. 1.
- Compass. Beam. D. E. Preneville. 1,628,426; May 10.
- Compass. Beam. R. B. Ware. 1,629,328; May 17.
- Compass. Damping gyroscopic. H. L. Tanner. 1,650,162; Nov. 22.
- Compass. Drafting. P. J. Bungart. 1,629,143; May 17.
- Compass. Floating. K. Breed. 1,614,228; Jan. 11.
- Compass. Gyroscopic. H. C. Ford. 1,628,136; May 10.
- Compass. Pivoted-type. L. Y. Kimura. 1,626,540; Apr. 26.
- Compass. Spring-mounted. W. O. White and H. G. Hatch. 1,640,167; Aug. 23.
- Compensating mechanism. W. W. Benner and E. A. Hoener. 1,637,892; Aug. 2.
- Compensator. Distortion. K. Küpfmüller. 1,638,536; Aug. 9.
- Comport. W. H. Magee. Des. 72,862; June 14.
- Composing frame and color chart. Artists'. E. W. Greaser. 1,645,102; Oct. 11.
- Composite article and forming the same. Flexible. A. L. Brown. 1,633,976; June 28.
- Composite article and making the same. R. W. Seabury. 1,626,749; Apr. 19.
- Composite articles. Forming. J. W. Fay. 1,639,652; Aug. 23.
- Composite product and making same. W. C. Geer. 1,617,588; Feb. 15.
- Composite structure. F. G. Oke. 1,635,800-1; July 12.
- Composition. M. P. Iding. 1,635,675; July 12.
- Composition article and manufacture. W. J. Gaven. 1,628,400; May 10.
- Composition articles. Making. W. J. Gaven. 1,620,538; Mar. 8.
- Composition construction or heat-insulating material. W. K. Nelson. 1,641,641; Sept. 6.
- Composition containing ethyl acetate. Removing. C. Ellis. 1,618,866; Feb. 22.
- Composition for cleaning glass which will prevent misting and the collection of globules of moisture therein. J. L. Olivier. 1,638,272; Aug. 9.
- Composition for covering stains on plaster walls. J. R. Chapman. 1,651,996; Dec. 6.
- Composition for filling cavities in trees. A. F. W. Vick. 1,652,222; Dec. 13.
- Composition for preventing the accumulation of rain-drops on windows. J. F. Murray and J. Smith. 1,640,092; Aug. 23.

- Composition for repairing leaks. G. I. Ray. 1,648,869; Nov. 8.
- Composition for sealing leaks in tires and tubes and its production. F. W. Fischer and G. F. Dallas. 1,650,867; Nov. 29.
- Composition for use in the manufacture of or for use as varnishes and the like and making the same. H. W. Matheson. 1,650,899; Nov. 29.
- Composition of material, Novel. O. A. Cherry. 1,616,741; Feb. 8.
- Composition of matter. E. Alchele. 1,648,100; Nov. 8.
- Composition of matter. R. P. Drummond. 1,620,877; Dec. 13.
- Composition of matter. T. De La Concha. 1,653,088; Dec. 20.
- Composition of matter, a superrefractory body formed therefrom, and manufacturing the same. M. L. Freed. 1,644,244; Oct. 4.
- Composition of matter and forming same. M. Darrin. 1,644,711; Oct. 11.
- Composition of matter and producing the same. J. W. Van Meter. 1,654,025; Dec. 27.
- Composition of matter for treating animal tissue. C. Ellis. 1,621,528; Mar. 22.
- Composition used for marking on cloth and the like. D. H. Shapiro. 1,622,353; Mar. 29.
- Compositions of matter, Producing articles from. A. Barnes-Thomas. 1,638,108; Aug. 9.
- Compound brake. E. P. Renaux. 1,639,149; Aug. 16.
- Compound, Cleaning and polishing. L. M. De Mars. 1,652,931; Dec. 13.
- Compound for filling holes in cast iron. F. N. Childs. 1,649,100; Nov. 15.
- Compound for removing paint and stains. J. W. Jones. 1,651,130; Nov. 29.
- Compound gauge. B. McClelland. 1,628,169; May 10.
- Compound, Insulating. J. M. Wilson. 1,638,557; Aug. 9.
- Compound lining head. J. M. Young. 1,634,481; July 5.
- Compound lock. F. Borsody. 1,644,323; Oct. 4.
- Compound mill. P. Goebels. 1,650,508; Nov. 22.
- Compound tool. H. Baum. 1,617,563; Feb. 15.
- Compound wheel. T. J. Kelleher and H. Krump. 1,644,440; Sept. 6.
- Compounds insoluble or springily soluble in water, Preparations of solutions of. W. Miunich. 1,632,306; June 14.
- Compress for fibrous materials. J. W. Wright and H. F. Underwood. 1,616,838; Feb. 8.
- Compressed-air retainers, Device for charging and discharging. A. Abel. 1,630,156; May 24.
- Compresses, Housing for high-density. R. D. Webb. 1,637,976; Aug. 2.
- Compressor. W. W. Bavington. 1,623,378; Apr. 5.
- Compressor. W. Brigel. 1,614,274; Jan. 11.
- Compressor. J. O. Carrey. 1,614,100; Jan. 11.
- Compressor. F. O. Carrey. 1,620,870; Mar. 15.
- Compressor. C. P. Eisenbauer. 1,619,466; Mar. 1.
- Compressor. A. D. Ferguson. 1,649,299; Nov. 15.
- Compressor. H. A. Greenwald. 1,649,584; Nov. 15.
- Compressor. F. A. Halleck. 1,649,299; Nov. 15.
- Compressor. F. E. Holmes. 1,625,596; Apr. 5.
- Compressor. F. W. Knowles. 1,628,708; May 24.
- Compressor. H. C. Marcus and W. Fourness. 1,631,425; June 7.
- Compressor. J. B. McMullen. 1,614,481; Jan. 18.
- Compressor. D. G. Murray. 1,630,799; May 31.
- Compressor. S. T. Nelson. 1,649,297; Nov. 15.
- Compressor. W. Freilwitz. 1,649,076; Nov. 15.
- Compressor. W. G. E. Rolaff. 1,632,562; June 14.
- Compressor. C. W. Vollmann. 1,632,385; June 14.
- Compressor. J. P. Wildman. 1,638,674; Aug. 9.
- Compressor. E. Wilson. 1,635,523; July 12.
- Compressor. E. Wilson. 1,643,933; Sept. 27.
- Compressor. C. S. Worth. 1,628,096; May 10.
- Compressor, Air. H. M. Dunlap and D. M. Putnam. 1,638,114; Aug. 9.
- Compressor, Air. J. Nelson. 1,651,964; Dec. 6.
- Compressor apparatus. K. Frey. 1,635,318; July 12.
- Compressor apparatus. W. Van Rijswijk. 1,652,747; Dec. 13.
- Compressor apparatus. W. Wilson. 1,634,062; June 28.
- Compressor, Automotive. N. A. Christensen. 1,633,764; June 28.
- Compressor, Automotive engine. N. A. Christensen. 1,633,770; June 28.
- Compressor, Centripetal. P. L. Crowe. 1,644,565; Oct. 4.
- Compressor, Compensating-air. M. Riesner. 1,636,440; July 19.
- Compressor control. N. A. Christensen. 1,640,597; Aug. 30.
- Compressor-controlling device. C. C. Farmer. 1,633,778; June 28.
- Compressor-controlling mechanism. F. D. Holdsworth. 1,634,542; July 5.
- Compressor, Direct-drive. N. A. Christensen. 1,633,767; June 28.
- Compressor, Engine-driven. N. A. Christensen. 1,633,766; June 28.
- Compressor, Fluid. F. B. Stearns. 1,638,418; Aug. 9.
- Compressor, Fluid. E. Wilson. 1,635,522; July 12.
- Compressor, Front-end. N. A. Christensen. 1,633,771; June 28.
- Compressor, governor. N. A. Christensen. 1,626,076; Apr. 26.
- Compressor, Hand-actuated air. P. Voreaux. 1,651,913; Dec. 6.
- Compressor housing. J. O. Carrey. 1,639,648; Aug. 23.
- Compressor, Jet-operated. G. McKeran. 1,652,177; Dec. 13.
- Compressor, Lubricant. J. Bystricky. 1,642,940; Sept. 20.
- Compressor mounting. N. A. Christensen. 1,633,765; June 28.
- Compressor, Multicylinder automotive. N. A. Christensen. 1,633,769; June 28.
- Compressor or pumping mechanism. F. A. Halleck. 1,633,690; June 28.
- Compressor, Reciprocating. E. T. Williams. Re16,693; Aug. 2.
- Compressor, Rotary. F. C. Bell. 1,615,824; Feb. 1.
- Compressor, Rotary. A. Ruckstuhl. 1,616,992; Feb. 8.
- Compressor, Rotary. C. W. Vollmann. 1,626,768; May 3.
- Compressor, Rotary. W. E. Mild. 1,653,814; Dec. 27.
- Compressor, Rotary air. H. Strong. 1,641,833; Sept. 6.
- Compressor unit, Automatic air. F. J. Rayfield. 1,638,212; Aug. 9.
- Compressor unloader. F. van D. Longacre. 1,614,138; July 19.
- Compressor unloader. C. W. Metzgar. 1,612,933; Jan. 4.
- Compressor unloader. C. W. Metzgar. 1,614,143; Jan. 11.
- Compressor unloader. J. Naab. 1,623,489; Apr. 5.
- Compressor unloader mechanism. O. R. Cundy. 1,634,491; July 19.
- Compressor, Variable-capacity. M. Riesner. 1,636,439; July 19.
- Compressor, Variable-capacity air. B. V. Nordberg. 1,632,498; June 14.
- Compressors and condensers, Cooling device for. R. L. Alexander, W. Wishart, and H. H. Waters. 1,613,600; Jan. 11.
- Compressors, Apparatus for unloading. W. H. Callan. 1,645,798; Oct. 18.
- Compressor-controlling mechanism. F. D. Holdsworth. 1,649,900; Nov. 22.
- Compressors, Cooling. B. S. Aikman. 1,635,524; July 12.
- Compressors, Cooling-water-controlling means for. W. Raymond. 1,643,996; Oct. 4.
- Compressors, Cylinder-cap construction for. H. E. Thompson. 1,634,633; July 5.
- Compressors, Free-air unloader for. J. Le Valley. 1,653,110; Dec. 20.
- Compressors, Governor for steam-driven. W. Raymond. 1,618,129; Sept. 20.
- Compressors, Valve mechanism for. A. G. Enoch. 1,649,394; Nov. 15.
- Computer. O. Malcher. 1,622,916; Mar. 29.
- Computing devices, Casing for. S. O. Nations. Des. 73,339; Aug. 23.
- Computing instrument for balance corrections. A. F. Moyer. 1,615,339; Jan. 25.
- Computing machine. I. S. Dement. 1,641,126; Aug. 30.
- Computing machines, Feeding device for. W. A. Pringle. 1,627,201; May 3.
- Computing machines, Shutter for. A. Vanderveld. 1,638,514; Aug. 9.
- Computing wages, Machine for. J. C. Hurley. 1,617,640; Feb. 15.
- Concentrating table. E. Deister. 1,644,113; Oct. 4.
- Concentrating table. W. F. and E. Deister. 1,642,843; Sept. 20.
- Concentrating table. W. F. and E. Deister. 1,643,060; Sept. 20.
- Concentrator. J. B. Dodds. 1,627,157; May 3.
- Concentrator. E. H. Johnson and A. H. Winterton. 1,627,648; May 10.
- Concentrator. A. H. Stebbins. 1,648,235; Nov. 8.
- Concentrator. A. H. Stebbins. 1,650,725; Nov. 29.
- Concentrator deck. A. H. Stebbins. 1,622,471; Mar. 29.
- Concentrator deck. A. H. Stebbins. 1,646,985; Oct. 25.
- Concentrator table. A. H. Stebbins. 1,633,199; June 21.
- Concentrator table. A. H. Stebbins. 1,644,753; Oct. 11.
- Concentrator or accordion. R. C. Leppert. 1,634,108; June 28.
- Concrete and like composition, Bituminous. M. Lévy. Re16,821; Dec. 20.
- Concrete and wooden bench, Combination. L. G. Haase. 1,628,362; May 10.
- Concrete beams or ties, Casing or mold box for. B. Bauer. 1,628,385; May 10.
- Concrete-block composition. M. E. Von Mach, jr. 1,623,985; Apr. 12.
- Concrete-block machine. J. H. Miller. 1,636,102; July 19.
- Concrete-block mold. W. A. Threadgill. 1,631,901; June 7.
- Concrete-block molding and setting machine and method of molding. E. F. Bramin. 1,626,447; Apr. 26.
- Concrete blocks, Machine for making. J. P. Lawlor and J. I. Seay. 1,644,066; Oct. 4.
- Concrete blocks, Machine for making. F. B. Williams. 1,652,805; Dec. 13.
- Concrete blocks, Mold and molding faced. D. McPherson and F. B. Schultz. 1,635,093; July 5.
- Concrete blocks, Molding device for making. R. Krause. 1,642,247; Sept. 13.
- Concrete blocks, Sectional mold for making. C. E. San-son. 1,645,776; Oct. 18.

- Concrete building. T. L. Peterson. 1,618,886; Feb. 22.
 Concrete building construction. A. F. Bemis and H. W. Brown. 1,638,080; Aug. 9.
 Concrete building construction. A. A. Koivu. 1,616,977; Feb. 8.
 Concrete building structures, Casting in situ of. G. W. Rawlings. 1,642,893; Sept. 20.
 Concrete building unit. T. J. Florey. 1,630,698; May 31.
 Concrete buildings, Mold for. J. C. Poetz. 1,627,116; May 3.
 Concrete clip. R. E. Carrick. 1,623,228; May 10.
 Concrete column. R. S. Ellis. 1,652,431; Dec. 13.
 Concrete-column forms, Clamp for. H. O. McMillan. Re16,736; Sept. 13.
 Concrete columns, Skeleton metal element for reenforced. S. Macomber. 1,653,055; Dec. 20.
 Concrete construction. A. G. W. Wedberg. 1,626,897; May 3.
 Concrete construction, Reenforced. W. S. Edge and R. C. Olmsted. 1,637,742; Aug. 2.
 Concrete construction, Reenforced. T. J. Foster. 1,637,932; Aug. 2.
 Concrete construction, Reenforced. H. L. Katz. 1,652,443; Dec. 13.
 Concrete construction, System of. A. E. Troiel. 1,619,321; Mar. 1.
 Concrete conveyors, Closure for pneumatic. H. B. Kirk. 1,651,331; Dec. 27.
 Concrete cribbing. E. H. Dresser. 1,627,599; May 10.
 Concrete cribbing, Reenforced. R. H. Ford, C. P. Richardson, A. L. Greenbaum, and H. M. Priest. Re16,689; July 26.
 Concrete cribs, Apparatus for locating, placing, and leveling north seats for. J. H. Tromanhauser. 1,635,730; July 12.
 Concrete-distributing apparatus. A. T. Scannell. 1,649,785; Nov. 15.
 Concrete floors, Construction of reenforced. W. R. D. Innes and M. S. Stanley. 1,641,084; Aug. 30.
 Concrete floors, etc., Construction of reenforced. G. Venolingo. 1,617,929; Feb. 15.
 Concrete form. A. Denger. 1,617,746; Feb. 15.
 Concrete form. J. N. Heltzel. 1,628,316; May 10.
 Concrete form. J. N. Heltzel. 1,644,584-8; Oct. 4.
 Concrete form. T. M. Jones. 1,631,825; June 7.
 Concrete form. W. S. Smith. 1,647,202; Nov. 1.
 Concrete form. G. W. Wrocklage. 1,649,205; Nov. 15.
 Concrete form. F. Wustholz. 1,623,151; Apr. 5.
 Concrete-form clamp. F. Wustholz. 1,629,899; May 24.
 Concrete forms, Clamp and tightener for. C. Phillips. 1,648,995; Nov. 15.
 Concrete forms, Clamp for. P. A. Melvin. 1,616,460; Feb. 8.
 Concrete forms, Form tie for. H. O. McMillan. 1,635,428; July 12.
 Concrete-laying machine. A. N. George and V. Bressi. 1,652,434; Dec. 13.
 Concrete, Machine for making compressed. R. C. Stubbs. 1,638,667; Aug. 9.
 Concrete, Method of and composition for treating. N. C. Johnson. 1,637,321; July 26.
 Concrete mixer. O. C. Barrymore and R. A. Daddisman. 1,625,762; Apr. 10.
 Concrete mixer. A. Bickel. 1,650,592; Nov. 29.
 Concrete mixer. J. P. Gilson. 1,654,168; Dec. 27.
 Concrete mixer. M. Gilson. 1,648,546; Nov. 8.
 Concrete mixer. E. C. Leach. 1,647,410; Nov. 1.
 Concrete mixer. H. Powers. 1,620,287; Mar. 8.
 Concrete mixer. K. R. Schuster. 1,633,682; June 28.
 Concrete mixer, Continuous automatic. M. F. Horst. 1,628,880; May 3.
 Concrete mixers, Automatic discharge for. G. E. Webb. 1,628,378; May 10.
 Concrete mixers, Charge-synchronizing means for. E. L. Tranaas. 1,652,151; Dec. 6.
 Concrete mixers, Drive and drum support for. A. W. Rybeck. 1,648,063; Nov. 8.
 Concrete mixers, Drive for transit. C. L. Reynolds. 1,638,926; July 26.
 Concrete mixers, Loading skip for. S. Shafer, jr. 1,630,221; May 24.
 Concrete mixers, Loading skip for. S. Shafer, jr. 1,640,221; Aug. 23.
 Concrete mixers, Water-spray attachment for. P. W. Gilcox. 1,632,938; June 21.
 Concrete-mixing machine, Combination tandem. E. H. Mcmillan. 1,619,145; Mar. 1.
 Concrete mixture. H. J. Shaw. 1,615,315; Jan. 25.
 Concrete-mold form. W. E. Keller. 1,630,794; May 31.
 Concrete-molding apparatus. S. Lake. 1,626,625; Apr. 5.
 Concrete, mortar, and plaster mixer. G. W. Adams. 1,624,705; Apr. 12.
 Concrete or cementitious structure, Molding. C. Brynoldt. 1,620,514; Mar. 8.
 Concrete or other material, Apparatus for making hollow beads, angles, or such like bodies of. W. A. Porter. 1,634,045; June 28.
 Concrete pavers, Distributing bucket for. F. W. De Vinney. 1,614,980; Jan. 18.
 Concrete paving, Reenforced. G. D. Burr. 1,623,090; Apr. 5.
 Concrete pile and making same, Protected. F. S. Honneger. 1,623,103; May 17.
 Concrete pile, Apparatus for making. M. M. Upson. 1,640,101; Aug. 23.
 Concrete piles or columns, Construction of. A. Hiley. 1,629,622; May 24.
 Concrete pile, Construction of columns, Construction of. A. Hiley. 1,634,231; June 28.
 Concrete piles, Sinking. M. Blumenthal. 1,629,947; May 24.
 Concrete pipe, Forming and laying continuous. T. De La Mare. 1,648,982; Nov. 15.
 Concrete pipe machines, Compensating mechanism for. C. P. Stewart. 1,648,738; Nov. 8.
 Concrete pipe, Reenforced. D. W. Longfellow. 1,644,196; Oct. 4.
 Concrete posts, Method of and apparatus for making. D. B. Hanna. 1,651,819; Dec. 6.
 Concrete reinforcement. F. R. Wilson. 1,641,109; Aug. 30.
 Concrete reinforcement, Holding clip for. C. L. Dewey. 1,629,485; May 24.
 Concrete, Reenforcing bar for. C. S. Boardman. 1,635,658; July 12.
 Concrete-reinforcing bond and connector. F. Rebelle. 1,624,802; Apr. 12.
 Concrete-reinforcing rods, Chair for. A. E. Klinger and F. C. Burkhardt. 1,613,351; Jan. 4.
 Concrete-road foundations and like structures, Apparatus for breaking up. H. T. Cover and E. Bond. 1,644,110; Oct. 4.
 Concrete, sandstone, clay, brickwork, and the like, Production of a cold glaze upon building material, such as. K. Friedrich. 1,636,860; July 26.
 Concrete-separating strips, Supporting device for. A. C. Fischer. 1,647,564; Nov. 1.
 Concrete slab. F. D. Copock. 1,637,215; July 26.
 Concrete slabs, Device for connecting the abutting ends of. C. B. Bowers. 1,631,576; June 7.
 Concrete sleeper, Reenforced. P. J. Soulas. 1,614,405; Jan. 11.
 Concrete structure. R. S. Ellis. 1,651,516; Dec. 6.
 Concrete structures, Building form for. G. L. Hagy. 1,631,029; May 31.
 Concrete structures, Building reenforced. K. J. Ljunberg. 1,641,541; Sept. 6.
 Concrete structures, Form for. F. W. Stevens. 1,621,563; Mar. 22.
 Concrete structures, Form tie for. J. B. Hawley, jr. 1,619,933; Mar. 8.
 Concrete structures, Forming. C. E. Roop, L. M. Dieckmeyer, and C. B. Barutic. 1,642,753; Sept. 20.
 Concrete structures in water, Method of and apparatus for building. C. Brynoldt. 1,615,069; Jan. 18.
 Concrete structures, Reenforcing frame for. G. Greulich. 1,613,392; Jan. 4.
 Concrete surfaces, Device for finishing. C. S. Walsh. 1,623,142; Apr. 5.
 Concrete tie. J. S. Brown. 1,635,816; July 12.
 Concrete units, Molding faced. W. R. Tucker. 1,630,590; May 31.
 Concrete-wall boxing. A. J. Cooper. 1,647,685; Nov. 1.
 Concrete wall construction. N. Garrett. 1,618,421; Feb. 22.
 Concrete wall construction. C. D. McArthur. 1,617,535; Feb. 15.
 Concrete wall construction, Form for. W. R. Sproul and H. Layer. 1,628,752; May 17.
 Concrete walls in deep trenches, Constructing. F. P. Noel and S. M. Gooder. 1,628,682; May 17.
 Concrete work, Expansion joint for. T. Rauschenbach. 1,643,257; Sept. 20.
 Concrete work, Socket or receptacle for. A. S. Fishel and E. I. Goulder. 1,627,554; May 10.
 Condensation. N. W. Thomson. 1,654,108; Dec. 27.
 Condensation product. H. C. P. Weber. 1,630,305; May 31.
 Condensation product and making same. M. Melamid. 1,648,858; Nov. 8.
 Condensation product and making same, Water-soluble. K. Daimler, F. Marschall, and G. Balle. 1,635,888; July 26.
 Condensation products and dyestuffs of the benzanthrone series, Manufacture of. A. Lüttringhaus, H. Neresheimer, and H. Wolf. 1,633,866; June 28.
 Condensation products from mono- and diacidic phenols and aldehydes, Making. A. Amann and E. Ponrobert. 1,614,171; Jan. 11.
 Condensation product from phenols and formaldehydes, Manufacturing. E. J. P. C. de Jarny. 1,643,447; Sept. 27.
 Condensation products of urea and formaldehyde, Manufacturing homogeneous glasslike. K. Ripper. 1,625,283; Apr. 19.
 Condensation products, Making. H. W. Matheson. 1,653,302; Dec. 20.
 Condenser. E. S. Bryant. 1,641,660; Sept. 6.
 Condenser. E. B. Craft. 1,629,020; May 17.
 Condenser. A. Delas. 1,616,610; Feb. 8.
 Condenser. J. B. Dempster. 1,621,659; Mar. 22.
 Condenser. H. P. Donle. 1,644,242; Oct. 4.
 Condenser. W. Duublier. 1,639,597; Aug. 16.
 Condenser. J. A. Fried. 1,619,201; Mar. 1.
 Condenser. G. A. Gillen. 1,626,526; Apr. 26.
 Condenser. J. F. Grace. 1,650,268; Nov. 22.
 Condenser. A. Hadlock. 1,632,130; June 14.
 Condenser. T. P. Hagerman. 1,641,534; Oct. 4.
 Condenser. J. J. Hilliard. 1,628,806; Aug. 9.
 Condenser. R. E. Marbury. 1,626,684; Aug. 3

- Condenser. R. E. Marbury. 1,635,556; July 12.
 Condenser. C. Metzger and E. Luetschen. 1,649,482; Nov. 15.
 Condenser. R. B. Millard. 1,616,701; Feb. 8.
 Condenser. W. H. Pettit. 1,629,882; May 24.
 Condenser. E. P. Potter. 1,633,870; June 28.
 Condenser. W. W. Robinson. 1,633,289; June 21.
 Condenser. T. T. Rodgers, M. A. Giblin, and F. K. and G. T. Moore. 1,623,360; Apr. 5.
 Condenser. R. C. Rose. 1,646,663; Oct. 25.
 Condenser. L. B. Sauer. 1,636,329; July 19.
 Condenser. J. H. Smith. 1,621,084; Mar. 15.
 Condenser. R. C. Sprague. 1,616,832; Feb. 8.
 Condenser. H. R. Van Deventer. 1,619,223; Mar. 1.
 Condenser. G. A. Yanochowksi. 1,633,915; June 28.
 Condenser, Adjustable. R. M. Klein. 1,641,535; Sept. 6.
 Condenser, Air-cooled. F. Ljungström and I. Broberg. 1,636,521; July 19.
 Condenser and cooler. H. F. Hollister. 1,626,733; May 3.
 Condenser and cooler. H. F. Hollister. 1,635,549; July 12.
 Condenser and making it, Electrical. W. H. Priess. 1,652,212; Dec. 13.
 Condenser and making the same, Fixed-capacity. S. Siegel. 1,650,395; Nov. 22.
 Condenser and oil separator, Combination. F. C. Bell. 1,620,713; Mar. 15.
 Condenser control. R. N. Ehrhart. 1,634,256; July 5.
 Condenser-control mechanism. C. E. Trube. 1,614,505; Jan. 18.
 Condenser, cooler, and absorber. C. F. Braun. 1,623,617; Apr. 5.
 Condenser, Cotton. J. A. Taft. 1,645,630; Oct. 18.
 Condenser drive, Multiple. E. Ross. 1,615,041; Jan. 30.
 Condenser drive, Variable. A. W. Franklin. 1,618,525; Feb. 22.
 Condenser, Electric. W. R. G. Baker. 1,631,665; June 7.
 Condenser, Electric. H. A. Douglas. 1,617,618; Feb. 15.
 Condenser, Electric. F. J. Kent. 1,652,863; Dec. 13.
 Condenser, Electrical. W. A. Boeckius. 1,633,566; Feb. 22.
 Condenser, Electrical. C. S. Franklin. 1,628,659; May 17.
 Condenser, Electrical. H. F. Herman. 1,629,867; May 24.
 Condenser, Electrical. W. H. Huth. 1,633,019; June 21.
 Condenser, Electrostatic. J. O. Gargan. 1,635,990; July 19.
 Condenser, Electrostatic. G. W. Hayden. 1,621,722; Mar. 22.
 Condenser, Evaporative. J. E. Bell. 1,619,284; Mar. 1.
 Condenser, Fixed. A. Moss. 1,642,688; Sept. 20.
 Condenser, Fixed. L. T. Rhoades. 1,626,356; Apr. 26.
 Condenser for automotive-vehicle engine radiators. F. R. Perry. 1,652,793; Dec. 13.
 Condenser, High-potential. W. Dubilier. 1,639,650; Aug. 23.
 Condenser, High-potential electrical. J. A. Proctor. 1,633,285; June 21.
 Condenser, Installation. H. F. Schmidt. 1,638,645; Sept. 6.
 Condenser, Movable dielectric. H. J. Murray. 1,641,946; Sept. 6.
 Condenser, Low-level jet. R. E. S. Geare and R. M. Norstrom. 1,622,945; Mar. 29.
 Condenser mounting and adjusting mechanism. E. Tyrnau. 1,636,631; Dec. 13.
 Condenser, Multiple variable. W. M. Brower. 1,633,516; June 21.
 Condenser, Multiple variable. F. A. Kolster. 1,641,593; Sept. 6.
 Condenser or cooler. N. H. Hiller and B. F. Safberg. 1,622,645; Mar. 29.
 Condenser, Progressive. C. F. Braun. 1,640,748; Aug. 30.
 Condenser rotors, Constructing variable. C. P. Powers. 1,618,996; Mar. 1.
 Condenser, Sectional. J. Price. 1,619,034; Mar. 1.
 Condenser, Snow. E. J. Jones. 1,643,121; Sept. 20.
 Condenser, Spiral plate. F. A. Borczyk. 1,650,862; Nov. 29.
 Condenser structure. H. Le Van Horning. 1,651,786; Dec. 6.
 Condenser, Subcooling. R. J. Pabodie. 1,625,821; Apr. 26.
 Condenser, Surface. P. A. Bancel. 1,627,265; May 3.
 Condenser, Surface. P. A. Bancel. 1,628,487; May 10.
 Condenser, Surface. J. E. Goodwillie. 1,622,374; Mar. 29.
 Condenser, Surface. J. F. Grace. 1,616,656; Feb. 8.
 Condenser, Surface. F. Rodolinson. 1,634,903; July 5.
 Condenser, Surface. C. Hülsmeier. 1,650,872; Nov. 29.
 Condenser, Surface. J. F. Kirgan. 1,642,113; Sept. 13.
 Condenser, Surface. R. Lorenz. 1,631,141; June 7.
 Condenser, Surface. E. P. Worden. 1,626,772; May 3.
 Condenser, Tape. J. F. Schlime. 1,648,064; Nov. 8.
 Condenser, transmitter. A. Hund. 1,648,669; Nov. 8.
 Condenser tube and tube-sheet connection. H. H. Finch. 1,616,893; Feb. 8.
 Condenser-type heater. J. Price. 1,624,973; Apr. 19.
 Condenser, Vacuum. H. J. Nolte. 1,641,687; Sept. 6.
 Condenser, Vapor. J. Primrose. 1,654,190; Dec. 27.
 Condenser, Variable. R. L. Aspdren. 1,631,453; June 7.
 Condenser, Variable. J. R. Barnhart. 1,630,885; May 31.
 Condenser, Variable. H. L. Bradley. 1,641,314; Sept. 6.
 Condenser, Variable. E. W. Breisch and L. R. Golladay. 1,640,561; Aug. 30.
 Condenser, Variable. C. P. Brockway. 1,634,930; July 5.
 Condenser, Variable. C. N. Cahusac. 1,618,974; Mar. 1.
 Condenser, Variable. G. H. Clark. 1,631,360; June 7.
 Condenser, Variable. H. G. Dorsey. 1,636,503; July 19.
 Condenser, Variable. W. Dubilier. 1,646,226; Oct. 18.
 Condenser, Variable. J. M. Enders. 1,641,749; Sept. 6.
 Condenser, Variable. C. F. Goudy. 1,613,032; Jan. 4.
 Condenser, Variable. C. Hardy. 1,620,020; Mar. 8.
 Condenser, Variable. F. O. Hartman. 1,614,428; Jan. 11.
 Condenser, Variable. F. O. Hartman. 1,632,649-50; June 14.
 Condenser, Variable. G. W. Hayden. 1,621,721; Mar. 22.
 Condenser, Variable. B. Jirotna. 1,626,537; Apr. 26.
 Condenser, Variable. L. L. Jones. 1,641,438; Sept. 6.
 Condenser, Variable. H. Kimura. 1,637,646; Aug. 2.
 Condenser, Variable. R. H. Langley. 1,652,991; Dec. 13.
 Condenser, Variable. A. Leib. 1,631,599; June 7.
 Condenser, Variable. E. B. Lewis. 1,631,636; June 7.
 Condenser, Variable. R. H. Manson. 1,632,487-8; June 14.
 Condenser, Variable. E. Picard. 1,615,449; Feb. 1.
 Condenser, Variable. W. Reese. 1,650,465; Nov. 22.
 Condenser, Variable. T. T. Rodgers, M. A. Giblin, F. K. Moore, and G. T. Moore. 1,621,379; Mar. 15.
 Condenser, Variable. J. D. Sartakoff. 1,652,376; Dec. 13.
 Condenser, Variable. J. Scholtz and G. W. Sunday. 1,614,902; Jan. 18.
 Condenser, Variable. E. J. Schroder. 1,631,226; June 7.
 Condenser, Variable. H. M. Specht. 1,651,975; Dec. 6.
 Condenser, Variable. F. E. Swope, Jr. 1,620,244; Mar. 8.
 Condenser, Variable. R. M. Wise and E. G. Danielson. 1,618,339; Feb. 22.
 Condenser, Variable air. A. D. Cardwell. 1,626,391; Apr. 26.
 Condenser, Variable electrostatic. W. Aul, Jr. 1,652,158; Dec. 13.
 Condenser, Variable neutralizing. J. J. Wood. 1,618,255; Dec. 13.
 Condenser, Vernier. F. Koch. 1,631,738; June 7.
 Condenser-winding machine. F. C. Kroeger and H. E. Norvill. 1,651,389; Sept. 6.
 Condensers, Condenser-operating mechanism for variable. M. H. Bennett. 1,631,788; June 7.
 Condensers, Variable for protecting. A. G. Bogardus. 1,643,803; Sept. 27.
 Condensers, tanks, and such like vessels against corrosion, Electrolytic system for protection of. A. S. and M. C. Gush. 1,616,448; Feb. 8.
 Condensing apparatus. F. G. Grell. 1,645,481; Oct. 11.
 Condensing apparatus. C. E. Lucke. 1,626,849-50; June 14.
 Condensing apparatus. A. O. H. Petersen. 1,624,060; Apr. 12.
 Condensing device, Automatically governed. E. R. Hawley and C. W. Scott. 1,629,159; May 17.
 Condiment holder. E. K. Allison. Des. 73,514; Sept. 27.
 Condiment holder. E. D. Justice. 1,614,793; Jan. 18.
 Condiment holder. W. P. Smith. 1,646,322; Oct. 18.
 Conductor, Leading-in. V. L. Ronci. 1,640,469; Aug. 30.
 Conductor support. H. P. Chandler. 1,623,658; Apr. 5.
 Conductor support. S. S. Matthes. 1,623,694; Apr. 5.
 Conductor support. S. S. Matthes. 1,633,867; June 28.
 Conductor support. S. S. Matthes. 1,633,897; Aug. 16.
 Conduit box. R. P. Dunmire. 1,647,511; Nov. 1.
 Conduit-bushing adapter. T. H. Ludlow. 1,632,843; June 21.
 Conduit-bushing wrench. W. H. Vibber. 1,633,297; June 21.
 Conduit cleaner. D. McGonagle. 1,617,068; Feb. 8.
 Conduit cleaner. R. B. Scott. 1,627,122; May 3.
 Conduit construction. J. B. Fichtner and H. H. Crouch. 1,642,146; Sept. 13.
 Conduit construction, Trunking. J. M. Fitzgerald. 1,617,625; Feb. 15.
 Conduit coupling. H. K. Swaney. 1,652,064; Dec. 6.
 Conduit, Flexible. C. Sosen. 1,649,139; Nov. 15.
 Conduit, joint and making the same. H. Parker. 1,648,057; Nov. 8.
 Conduit, Sectional. D. D. Tracy. 1,639,807; Aug. 23.
 Conduits, Construction and installing subaqueous. W. F. Jones. 1,647,448; Nov. 1.
 Conduits, Construction for. E. F. McCue. 1,653,403; Dec. 20.
 Conduits, Mold for cementitious. F. M. Venzle. 1,624,191; Apr. 12.
 Conduits or pipes, Bender for light-gauge. R. H. Henderson. 1,627,034; May 3.
 Conduits, Withdrawing cords from molded. T. E. Murray. 1,619,362; Mar. 1.
 Cone. See Ice-cream cone.
 Cone carrier. G. E. Thum. 1,627,583; May 10.
 Cone-making machine. D. W. Mitchell and G. O. Robinson. 1,639,097; Aug. 16.
 Cone-type lubricator. F. P. Reeves. 1,646,370; Oct. 18.
 Cone, Resistor. M. C. Ryplinski, L. W. Staunton, and S. Bourne. Des. 72,871; June 14.
 Confection and making a confection. C. K. Nelson. 1,638,548; Aug. 9.
 Confection and making the same. L. Belcher. 1,614,057; Jan. 11.
 Confection, Coated. D. M. Freeman. 1,627,641; May 10.

- Confection-coating machine. L. A. Smith. 1,635,015; July 5.
- Confection-filling machine. C. G. Hall. 1,621,010; Mar. 16.
- Confection mold. J. Watkins. 1,627,421; May 3.
- Confectionery-coating machine. J. Massarella. 1,639,263; Aug. 16.
- Confectionery container. J. E. Mayhew. 1,613,282; Jan. 4.
- Confections and napkins, Holder for. J. D. Kohler. 1,623,926; Apr. 6.
- Confections, Apparatus for freezing and molding. M. Schnaier. 1,624,678-9; Apr. 12.
- Confections, Implement for making coated. D. M. Freeman. 1,627,842; May 10.
- Confections, Making. Z. E. Vose. 1,621,568; Mar. 22.
- Confections, Method and apparatus for making. E. Sprague, Jr. 1,645,260; Oct. 11.
- Confections, Method and apparatus for molding. C. M. Becker. 1,617,564; Feb. 15.
- Confections, Process and apparatus for making. W. S. Cloud. Re16,712; Aug. 23.
- Confetti, Garland. J. C. Fernandez. 1,652,855; Dec. 13.
- Conical diaphragms, Apparatus for making. C. L. Farrand and E. Ross. 1,645,508; Oct. 11.
- Conical projections to orthographic projections, Conversion of. N. H. Brock. 1,612,800; Jan. 4.
- Coning machines, Attachment for. J. J. McCallister. 1,652,787; Dec. 13.
- Coring machines, Tangle arrester for. E. J. Kelly. 1,629,507; May 24.
- Connector. E. H. Bobo. 1,648,605; Nov. 8.
- Connector. H. Catlin and G. B. Thomas. 1,630,166; May 24.
- Connector. H. Finkle. 1,629,783; May 24.
- Connector. J. Kachman. 1,647,697; Oct. 25.
- Connector. H. R. Meyer. 1,630,401; May 31.
- Connector. J. P. Ratigan. 1,643,587; Sept. 27.
- Connector. E. H. Wiseman. 1,647,762; Nov. 1.
- Connector, Automatic. G. A. Harmon. 1,613,825; Jan. 11.
- Connector, Battery. E. E. Bilgart and F. P. Bartlett. 1,641,937; Sept. 6.
- Connector, Cordeau. W. O. Snelling. 1,652,961; Dec. 13.
- Connector device. C. W. Wyman. 1,654,475; Dec. 27.
- Connector, Extension. P. Lauter. 1,645,957; Oct. 18.
- Connector head. J. Robinson. 1,633,227; June 21.
- Connector-head support. E. A. Robinson. 1,626,696; Dec. 8.
- Connector member. C. Branning. 1,632,112; June 14.
- Connectors, Lock for automatic. M. A. Barber. 1,612,962; Jan. 4.
- Connecting device. F. and C. A. Bourne. 1,638,978; Aug. 16.
- Connecting device. H. P. Chandler. 1,631,719; June 7.
- Connecting device. W. F. Hendry. 1,647,355; Nov. 1.
- Connecting link. W. R. Miller and I. Gordon. 1,633,539; June 21.
- Connecting member. F. Amiot. 1,623,956; Apr. 12.
- Connecting member. F. De Benedetti. 1,652,976; Dec. 13.
- Connecting rod. J. Stumpf. 1,644,756; Oct. 11.
- Connecting rod, Articulated. G. D. Angie. 1,637,979; Aug. 2.
- Connecting-rod attachment. H. A. Strupp. 1,625,965; Apr. 26.
- Connecting rod, Cutter-bar. J. M. Wanamaker. 1,622,266; Mar. 29.
- Connecting-rod safety loop. A. C. Moore. 1,644,481; Oct. 4.
- Connecting rods, Aligning and reaming machine for. W. Aab. 1,637,508; Aug. 2.
- Connecting rods and for other parts of machinery, Bearing for. G. W. McKale. 1,646,502; Oct. 18.
- Connecting two members which are not adapted to be welded together. F. Mossberg. 1,630,668; May 31.
- Connector, Resilient. C. R. Short. 1,631,228; June 7.
- Console table. O. B. Bach. Des. 72,338; Apr. 5.
- Console table. O. B. Bach. Des. 73,595; Oct. 11.
- Console table. A. S. Katz. Des. 73,611-12; Oct. 11.
- Constant-volume regulator. L. R. Huff. 1,616,450; Feb. 8.
- Construction and making the same, Externally reinforced. J. H. Lovering. 1,643,275; Sept. 20.
- Construction material, Corner formation in metal-embossed. G. R. Meyercord. 1,630,858; May 31.
- Contact apparatus. M. D. Mann, Jr., and H. M. Weir. 1,624,793; Apr. 12.
- Contact apparatus, Liquid and gas. F. H. Wagner. 1,637,975; Aug. 2.
- Contact brush and making same. W. M. Austin. 1,630,460; May 31.
- Contact carrier. H. A. Douglas. 1,634,407; July 5.
- Contact device. G. C. Cummings. 1,624,476; Apr. 12.
- Contact device. S. L. Miller. 1,632,709; June 14.
- Contact device and insulation. H. Wilhelm. 1,619,010; Mar. 1.
- Contact-making device. F. C. Bauer. 1,638,517; Aug. 9.
- Contact-making device, Centrally-operated. C. Macmillan. 1,618,766; Feb. 22.
- Contact-rectifying device. W. O. Snelling. 1,638,278; Aug. 9.
- Contacting device. E. S. Ensign. 1,652,773; Dec. 13.
- Contacting means. H. E. Boner. 1,637,468; Aug. 2.
- Container. C. J. Aulbach. 1,630,687; May 31.
- Container. G. K. Bainbridge and S. W. Reynolds. 1,641,408; Sept. 6.
- Container. J. W. Barron. 1,617,192; Feb. 8.
- Container. H. L. Beach. 1,621,451; Mar. 15.
- Container. C. Blitzer. 1,649,211; Nov. 15.
- Container. P. C. P. Booty. 1,642,868; Sept. 20.
- Container. L. H. Brodick. 1,652,754-5; Dec. 13.
- Container. R. R. Canavello. 1,641,317; Sept. 6.
- Container. D. E. Carpenter. 1,637,335; Aug. 2.
- Container. F. P. Cheney. 1,636,458; July 19.
- Container. J. Eckart. 1,644,821; Oct. 11.
- Container. R. F. Emsley. 1,624,838; Apr. 12.
- Container. M. A. First. 1,628,133; May 10.
- Container. A. Fikso. 1,612,861; Jan. 4.
- Container. G. G. Floyd. 1,646,531; Oct. 25.
- Container. W. S. Grant. 1,649,223; Nov. 15.
- Container. C. C. Grogg. 1,626,930; May 3.
- Container. H. L. Heiter. 1,650,712; Nov. 29.
- Container. R. D. Hill. 1,619,727; Mar. 1.
- Container. N. S. Lillyard. 1,621,252; Mar. 15.
- Container. H. H. Honigbaum. 1,649,591; Nov. 15.
- Container. G. T. Horton. 1,622,787; Mar. 29.
- Container. S. M. Johnson. 1,650,520; Nov. 22.
- Container. J. Kaufman. 1,624,840; May 3.
- Container. J. Kaufman. 1,631,955-7; June 14.
- Container. J. Kaufman. 1,639,590; Aug. 16.
- Container. P. J. Kroll. 1,627,851-2; May 10.
- Container. E. L. Larson and C. A. Braunger. 1,615,545; Jan. 25.
- Container. R. L. Lemon. 1,622,525; Mar. 29.
- Container. J. M. MacDonald. 1,616,696; Feb. 8.
- Container. J. M. MacDonald. 1,628,793; May 17.
- Container. C. L. Marcus. 1,650,801; Nov. 29.
- Container. T. S. Mason and E. L. Yungk. 1,627,042; May 3.
- Container. P. S. Moyer. 1,646,702; Oct. 25.
- Container. W. Nell. 1,631,935; June 7.
- Container. F. S. Oppenheim. 1,624,360; Apr. 12.
- Container. F. S. Oppenheim. 1,651,965; Dec. 6.
- Container. A. E. Payson and W. R. Hasted. 1,639,529; Aug. 16.
- Container. W. E. Savage. 1,648,785; Nov. 8.
- Container. M. Schwartz. 1,646,162; Oct. 11.
- Container. A. W. Scotcher. 1,614,997; Jan. 18.
- Container. L. K. Wynn. 1,615,319; Jan. 25.
- Container and blanks therefor, Corrugated-board. C. H. Crowell. 1,631,521; June 7.
- Container and contents therefor, Article of manufacture containing. N. M. Hopkins. 1,639,699; Aug. 23.
- Container and cover therefor. T. M. Prudden. 1,633,605; June 28.
- Container and dispenser, Combined. R. B. Pillsbury. 1,645,771; Oct. 18.
- Container and sealing means therefor. F. R. Burgess. 1,633,556-6; June 21.
- Container and sealing means therefor. F. R. Burgess. 1,640,594; Aug. 30.
- Container, Article. A. H. and D. A. Wolfe. 1,625,011; Apr. 19.
- Container, Beverage. I. Weisenfreind. Des. 73,884; Nov. 15.
- Container, bodies, Process and apparatus for forming side seams on. L. R. McCann. 1,625,269; Apr. 19.
- Container, Bread. L. F. W. Telschow. 1,644,001; Oct. 4.
- Container, Chemical. D. G. Griffin. 1,617,155; Feb. 8.
- Container closure. C. I. McLaine. 1,619,264; Mar. 1.
- Container, Clothes. F. S. Boltz. 1,618,635; Feb. 22.
- Container, Collapsible. A. Ames. 1,614,703; Jan. 18.
- Container, Collapsible. N. E. Bitts. 1,648,045; Nov. 8.
- Container, Collapsible. E. T. Johnson. 1,651,528; Dec. 6.
- Container, Collapsible. L. Korn. 1,646,544; Oct. 25.
- Container, Collapsible. J. W. Martin. 1,615,465; Jan. 25.
- Container, Collapsible. S. S. Whelan. 1,630,750; Aug. 23.
- Container, Condiment. S. Schreiber. 1,652,585; Dec. 13.
- Container construction, Metallic. L. D. Buhl. 1,648,718; Nov. 8.
- Container, Cooling-medium. C. W. Hack. 1,619,864; Mar. 8.
- Container, Cord and thread. H. F. Carlson and H. A. Recen. 1,642,805; Sept. 20.
- Container cover. W. G. Schneider. 1,625,335; Apr. 19.
- Container, Cover for. J. W. Davies. 1,615,442; Jan. 25.
- Container decoration. P. F. Webster. 1,647,489; Nov. 1.
- Container, Developing. F. F. Lucas. 1,615,880; Feb. 1.
- Container, Dispensing. R. G. Emerson. 1,653,896; Dec. 27.
- Container, Dispensing. W. H. G. Geake. 1,642,108; Sept. 13.
- Container, Dinner-pail. C. C. Hoffman. 1,646,147; Oct. 18.
- Container, Display. J. J. Ryan and J. Gaffney. 1,650,392; Nov. 22.
- Container, Draining and dumping. A. D. Brune. 1,644,977; Oct. 11.
- Container, Easy open. J. E. Gunter. 1,622,236; Mar. 22.
- Container, Fire-resisting. L. E. Cover. 1,652,853; Dec. 13.
- Container, Folding. I. Appelbaum. 1,642,529; Sept. 13.
- Container, Folding. I. Appelbaum. 1,653,690; Dec. 27.
- Container, Food. J. Korkames. 1,634,029; June 28.
- Container for candy and other articles. M. Jones and B. E. Goldstein. Des. 71,800; Jan. 4.

- Container for confections. A. Horowitz. 1,646,534; Oct. 25.
- Container for first-aid kits. A. E. Henderson. 1,644,830; Oct. 11.
- Container for fragile articles. G. S. Fletcher. 1,650,337; Nov. 22.
- Container for fruit-canning apparatus. A. T. Gahan. 1,633,856; June 28.
- Container for hair in permanent-waving process. W. S. Lewis and J. C. Murray. 1,619,798; Mar. 1.
- Container for hams and the like. D. S. Ralston. 1,635,688; July 12.
- Container for music rolls and the like. C. S. Burton. 1,616,951; Feb. 8.
- Container for powdered substances. A. H. Karwath. 1,633,105; June 21.
- Container for table service. P. L. Ebarle. Des. 72,936; June 28.
- Container for toothpicks, Envelope. G. Doscher. 1,634,096; June 28.
- Container for transporting hot food. L. C. Cranston. 1,622,494; Mar. 29.
- Container for use safety-razor blades. S. D. Baker. 1,651,987; Dec. 6.
- Container, Friction-top. J. C. Taliaferro. 1,616,288; Feb. 1.
- Container, Garbage. C. T. Faas. 1,651,020; Nov. 29.
- Container, Grease. C. F. Wallace. Re16,787; Nov. 22.
- Container holder. C. A. Wilson. 1,649,278; Nov. 15.
- Container, Hot-metal. C. P. Astrom. 1,616,074; Feb. 1.
- Container, Knockdown. F. Carlton. 1,650,262; Nov. 22.
- Container, Liquid-cleaner. F. E. Vickery. 1,615,603; Jan. 25.
- Container made of sulphur. W. H. Kobbe. 1,614,737; Jan. 18.
- Container, Metal. J. H. O'Neill. 1,639,349; Aug. 16.
- Container, Metal. J. C. Taliaferro. 1,653,621; Dec. 20.
- Container, Movable live-fish. F. L. Holman. 1,616,126; Feb. 1.
- Container opener. J. C. Thom. 1,624,375; Apr. 12.
- Container, Paper. R. A. Bennett and A. M. Bootby. 1,644,506; Oct. 4.
- Container, Perfume. G. Grunberg. 1,617,843; Feb. 15.
- Container, Polygonal. E. O. Tinsley. 1,649,088; Nov. 15.
- Container, Pick. A. Miele. 1,645,918; Oct. 18.
- Container, Portable. C. Hinde. 1,645,992; Oct. 18.
- Container, Powder. G. L. Ravit. 1,647,886; Nov. 1.
- Container, Razor-blade. S. D. Baker. Des. 73,993; Dec. 6.
- Container, Sanitary food. F. Knaust. 1,616,262; Feb. 1.
- Container, Sanitary freezer. F. A. Anton. 1,647,169; Nov. 1.
- Container, Sealed metal. H. A. Fink. 1,619,411-12; Mar. 1.
- Container, Sealed metal. W. Plumb. 1,653,371; Dec. 20.
- Container, Sheet-metal. J. Coyle. 1,616,305; Feb. 1.
- Container, Sheet-metal. C. Hurley. 1,646,537; Oct. 25.
- Container, Socket-wrench. D. F. Graham. 1,617,109; Feb. 8.
- Container, Vacuum-jacketed. W. B. Wright and W. M. Eifax. 1,651,655; Dec. 6.
- Containers, Adjustable supporting means for display. A. MacDougall. 1,616,980; Feb. 8.
- Containers, Anchoring device for. F. H. Ahlman. 1,647,069; Oct. 25.
- Containers and supports, Separable connector for sectional. T. Repay. 1,648,591; Nov. 8.
- Containers and the like, Apparatus for cleaning. L. Deutsch and A. Pfeifer. 1,635,115; July 5.
- Containers, Apparatus for producing seamless fibrous. R. E. Hall. 1,653,007; Dec. 20.
- Containers, Ball for. J. F. Egenolf. 1,646,856; Oct. 25.
- Containers, Ball for. W. Schlayer. 1,653,420; June 21.
- Containers, Cleaning machine for. E. H. Atwood, W. E. Wanner, C. A. Kieble, and E. H. Wright. 1,646,570; Oct. 25.
- Containers, Closed sifter cap for. W. G. Kendall. 1,613,518; Jan. 4.
- Containers, Closing. J. M. Hotherhall. 1,623,245; Apr. 5.
- Containers, Closure for. W. P. Harrison. 1,618,926; Feb. 22.
- Containers, Closure for. W. F. Schweigert. 1,626,099; Apr. 26.
- Containers, Closure for. R. J. Vaughan. 1,637,667; Apr. 2.
- Containers, Closure for. V. P. Wendle and M. L. Hunker. 1,639,244; Aug. 16.
- Containers, Closure for shipping. K. F. Cooper. 1,615,430; Jan. 25.
- Containers, Composite closure for sheet-metal. C. T. Cooper. 1,651,342; Nov. 29.
- Containers, Contents-level indicator for. G. M. Bechtel. 1,625,976; Apr. 26.
- Containers, Display cover for. H. G. Kuck. 1,644,734; Oct. 11.
- Containers, Device for supporting. W. E. Corcoran. 1,641,551; Sep. 6.
- Containers, Discharge mechanism for. A. Janer. 1,620,892; Mar. 15.
- Containers, Fastening device for sealed. A. D. Newcomb. 1,624,496; Apr. 12.
- Containers, Fitting for. T. W. Rieke. 1,651,632; Dec. 6.
- Containers, Forming cover-holding ring seats for. A. 1,639,661; Aug. 25.
- Containers, Holder for. M. B. Nash. 1,645,392; Oct. 11.
- Containers, Labeling. H. E. Bredemeier. 1,649,442; Nov. 15.
- Containers, Machine for applying closures to. T. E. Pennock. 1,651,902-3; Dec. 6.
- Containers, Making. E. F. Hulbert. 1,638,035; Aug. 9.
- Containers, Making. A. Katzinger. 1,627,540; May 3.
- Containers, Method and apparatus for repairing hull. E. C. Furman. 1,610,154; Mar. 8.
- Containers, Method of and machine for closing flexible. I. W. Litchfield. 1,653,051; Dec. 20.
- Containers, Pouring spout for, liquid. F. Westerbeck. 1,645,796; Sept. 27.
- Containers, Preparing interiorly-coated. J. H. Murch. 1,622,533; Mar. 29.
- Containers, Process of and machine for making. A. Schroeder. 1,635,506; July 12.
- Containers, Screw cap for. G. E. Tornsojo. 1,644,697; Oct. 11.
- Containers, Stopper or closure for. F. Lobl. 1,640,508; Aug. 30.
- Containers with pastes and the like, Filling. K. Kiefer. 1,647,232; Nov. 1.
- Continuous press. A. Columbro. 1,638,981; Aug. 16.
- Contour-milling machine. A. J. Gifford and B. S. T. Siss. 1,649,109; Nov. 15.
- Contour recorder. J. G. Ritter. 1,649,402; Nov. 15.
- Contraction expansion joint. A. C. Fischer. 1,639,763; Aug. 23.
- Contraction joint. T. De La Mare. 1,644,914; Oct. 11.
- Control and supervisory system. J. B. Marlow. 1,616,168; Feb. 1.
- Control apparatus. B. O. Austin and W. G. Horn. 1,626,659; May 3.
- Control apparatus. A. H. Candee. 1,649,018; Nov. 15.
- Control apparatus. E. F. Carter. 1,634,979; July 5.
- Control apparatus. A. Giannasi. 1,615,693; Jan. 25.
- Control apparatus. W. G. Horn. 1,647,293; Nov. 1.
- Control apparatus. W. G. Houskeeper. 1,632,074; June 14.
- Control apparatus. C. F. Ketterling. 1,623,121; Apr. 5.
- Control apparatus. H. R. Meyer. 1,654,302; Dec. 27.
- Control apparatus. L. G. Riley, A. H. Candee, and H. F. Johns. 1,656,556; Aug. 30.
- Control apparatus. L. G. Riley, H. R. Meyer, H. H. Johnston, and J. M. van Niekerken. 1,627,340; May 3.
- Control apparatus. S. B. Schenck. 1,622,677; Mar. 29.
- Control apparatus. A. A. Yaeger, jr. 1,652,550; Dec. 13.
- Control apparatus, Process. E. B. Foote. 1,630,294; May 31.
- Control apparatus, Remote. E. F. Chandler. 1,654,238; Dec. 27.
- Control device. W. H. Gransden. 1,617,841; Feb. 15.
- Control device. H. E. Norvill. 1,641,396; Sept. 6.
- Control device, Hydraulic. J. G. Grattan. 1,613,563; July 4.
- Control equipment, Automatic. G. R. McDonald. 1,652,904; Dec. 13.
- Control equipment, Automatic. M. A. Whiting. 1,652,882; Dec. 13.
- Control equipment, Automatic substation. M. A. Whiting. 1,652,969; Dec. 13.
- Control-head packer. E. V. Crowell. 1,648,377; Nov. 8.
- Control lever, Emergency. R. S. Gans. 1,614,294; Jan. 11.
- Control levers, Mounting for. O. E. Hunt. 1,627,777; May 10.
- Control mechanism. R. L. Austin. 1,637,722; Aug. 2.
- Control mechanism. J. M. Lucarella. 1,652,029; Dec. 6.
- Control mechanism. L. M. Potts. 1,631,382; June 14.
- Control mechanism. R. H. Rausch. 1,617,165; Feb. 8.
- Control mechanism. J. E. Renholdt. 1,620,230; Mar. 8.
- Control mechanism. G. E. Smith. 1,638,786; Aug. 9.
- Control mechanism. E. B. Thurston. Re16,658; June 14.
- Control method and apparatus. T. Appleby. 1,619,911; Mar. 8.
- Control regulator. H. M. Stoller. 1,624,566; Apr. 12.
- Control switch. J. R. Kelley. 1,613,517; Jan. 4.
- Control switch, Duplex. S. A. Hoge. 1,621,781; Mar. 22.
- Control system. E. M. Bouton. 1,619,398; Mar. 1.
- Control system. E. M. Bouton. 1,640,559; Aug. 30.
- Control system. H. G. Geissinger. 1,650,623; Nov. 29.
- Control system. F. W. Hild. 1,622,784; Mar. 29.
- Control system. H. D. James. 1,647,295; Nov. 1.
- Control system. H. H. Johnston. 1,642,028; Sept. 13.
- Control system. H. L. Keith. 1,642,032; Sept. 13.
- Control system. G. W. Müller. 1,614,146; Jan. 11.
- Control system. D. Peccerillo. 1,616,821; Feb. 8.
- Control system. D. C. Prince. 1,632,622; June 14.
- Control system. J. W. Thompson. 1,621,334; Nov. 1.
- Control system. G. W. Wallace and H. K. Irlig. 1,624,294; Apr. 12.
- Control system, Automatic. F. P. Whitaker. 1,628,379; May 10.
- Control system, Distant. H. W. Ewald. 1,614,192; Jan. 11.
- Control system of. R. E. De Camp. 1,654,282; Dec. 27.
- Control system, Prime-mover. C. B. Taylor. 1,628,621; May 10.
- Controller. K. Berger. 1,630,516; May 31.
- Controller. D. E. and E. F. Lewellen. 1,643,716; Sept. 27.
- Controller. F. B. Miller. 1,634,677; July 5.
- Controller, Reversing. A. C. Prescott. 1,638,325; June 28.
- Controlling apparatus. F. J. Bast. 1,621,620; Mar. 22.

- Controlling apparatus. E. A. Ullmann. 1,625,000; Apr. 19.
- Controlling apparatus, Attachment means for. W. A. Allen. 1,625,761; May 17.
- Controlling device. H. E. Campbell. 1,621,233; Mar. 15.
- Controlling device. J. O. Carrey. 1,642,141; Sept. 13.
- Controlling device. H. P. Sparkes. 1,622,815; Mar. 29.
- Controlling device and system employing the same. H. W. Brown. 1,634,973; July 5.
- Controlling instrument. E. H. Bristol. 1,641,944; Sept. 6.
- Controlling mechanism. G. A. Bouvier. 1,614,597; Jan. 18.
- Controlling mechanism. G. Goddu. 1,651,452; Dec. 6.
- Controlling mechanism. F. D. Holdsworth. 1,634,577; July 5.
- Controlling mechanism. M. P. Holmes. 1,645,004; Oct. 11.
- Controlling mechanism. M. P. Holmes. 1,646,694; Oct. 25.
- Controlling mechanism, Automatic. A. E. Loewy. 1,628,980; May 17.
- Controlling mechanism, Compressor-. C. B. Officer. 1,649,920; Nov. 22.
- Controlling switch. J. P. Ellenbecker. 1,624,483; Apr. 12.
- Controlling switch. W. E. Hoyer. 1,644,526; Oct. 4.
- Controlling switch. S. L. Smith. 1,653,517; Dec. 20.
- Convection heater. W. W. Hicks. 1,651,890; Dec. 6.
- Convection heater. W. W. Hicks. 1,652,438; Dec. 13.
- Conversion process. H. H. Armstrong. 1,613,010; Jan. 4.
- Convertible chair. E. Guenther. 1,631,811; June 7.
- Convertible table. A. Peterson. 1,641,010; Aug. 30.
- Converting motion, Mechanism for. A. F. Sanford. 1,632,923; June 21.
- Conveyance guard, Child's-. F. Hornquist. 1,646,790; Oct. 25.
- Conveyances, Speed and course indicator for. F. G. Simpson. 1,632,567; June 14.
- Conveyances, Ventilating and heating means for. D. K. Swartwout. 1,643,956; Oct. 4.
- Conveyor. W. B. Bankson. 1,625,347; Apr. 19.
- Conveyor. A. Ruckstahl and R. T. Cadwell. 1,649,926; Nov. 22.
- Conveyor. F. W. Cutler. 1,629,776; May 24.
- Conveyor. J. W. Greer. 1,635,406; July 12.
- Conveyor. W. F. Hall. 1,631,124; June 7.
- Conveyor. R. A. Hatfield. 1,636,303; July 19.
- Conveyor. J. K. Hencken. 1,615,453; Jan. 25.
- Conveyor. F. D. Hoffman. 1,618,338; Feb. 22.
- Conveyor. J. G. Jones. 1,641,437; Sept. 6.
- Conveyor. E. J. Lamy. 1,644,049; Oct. 4.
- Conveyor. E. M. McVicker. 1,620,268; Mar. 8.
- Conveyor. F. H. Meyer. 1,615,027; Jan. 18.
- Conveyor. M. W. Mitchell. 1,647,370; Nov. 1.
- Conveyor. T. H. Oppenheim and B. Selhorst. 1,639,808; Aug. 23.
- Conveyor. R. Peale. 1,640,959; Aug. 30.
- Conveyor. H. M. Shields. 1,652,419; Dec. 13.
- Conveyor. O. N. Tevander. 1,649,267; Nov. 15.
- Conveyor. O. N. Tevander. 1,651,981; Dec. 6.
- Conveyor. T. Thorsten. 1,627,354; May 3.
- Conveyor. H. L. Young. 1,650,971; Nov. 29.
- Conveyor, Adjustable roller. P. H. York. 1,614,816; Jan. 18.
- Conveyor and ejector, Ash. C. Wotruba. 1,626,490; Apr. 26.
- Conveyor apparatus. J. E. Batie. 1,647,599; Nov. 1.
- Conveyor, Ball. B. Lanza. 1,630,345; May 31.
- Conveyor belt and guiding the same. O. E. Segrin and C. J. Clemens. 1,628,436; May 10.
- Conveyor belts, Support for. P. R. Hunter. 1,618,957; Feb. 22.
- Conveyor fitting. H. S. Ayling. 1,614,770; Jan. 18.
- Conveyor, Flexible. H. Phillips and W. E. Hunt. 1,650,037; Nov. 22.
- Conveyor, Hydraulic. F. L. Ward. 1,644,699; Oct. 11.
- Conveyor lubricator. G. E. Petersen. 1,628,512; May 10.
- Conveyor mechanism. R. Peale. 1,643,786; Sept. 27.
- Conveyor mechanism. J. G. Swab. 1,615,194; Jan. 18.
- Conveyor mechanism and particularly conveyor pulley supports. G. D. Francisco. 1,636,051; July 19.
- Conveyor, Overhead. R. A. McCurry. 1,630,959; May 31.
- Conveyor pan. E. E. Slick. 1,634,273; July 5.
- Conveyor, Pneumatic. T. H. Oppenheim and B. Selhorst. 1,647,463; Nov. 22.
- Conveyor, Pneumatic material. G. Bernert. 1,641,149; Sept. 6.
- Conveyor press. J. C. Ledbetter. 1,644,928; Oct. 11.
- Conveyor, Power-driven. A. J. Hartley. 1,643,986; Oct. 4.
- Conveyor-roller feed. M. O. Haeger. 1,625,653; Apr. 19.
- Conveyor supports. Stone shield for. B. Gronke. 1,646,452; Oct. 25.
- Conveyor system. L. Threefoot and G. W. Elkin. 1,632,203-4; June 14.
- Conveyor, Traveling. J. L. Herold. 1,652,277; Dec. 13.
- Conveyor, Traveling. W. H. Robertson. 1,625,501; Apr. 19.
- Conveyor, wrapping and labeling machine. P. D. Parsons. 1,629,525; May 24.
- Conveyers, Automatic transfer mechanism for. S. Olson. 1,638,429; July 19.
- Conveyers or screens, Mechanism for operating reciprocating. R. S. Jacobsen. 1,641,435; Sept. 6.
- Conveyers, Roller for gravity. G. W. Beulke and P. C. Wego. 1,622,758; Mar. 29.
- Conveyers, Transfer device for. O. E. Swartz. 1,629,323; May 17.
- Conveying and piling apparatus. H. A. E. Nilsson. 1,639,435; Aug. 16.
- Conveying apparatus. R. La France. 1,626,738; May 3.
- Conveying apparatus. A. G. Kinyon. 1,652,281; Dec. 13.
- Conveying apparatus. E. B. Powell and G. Todd. 1,649,041; Nov. 15.
- Conveying apparatus. N. H. Preble. 1,639,751; Aug. 23.
- Conveying apparatus. L. D. Soubier. 1,653,480; Dec. 20.
- Conveying apparatus. E. B. Tolman, jr. 1,632,206; June 14.
- Conveying apparatus for use in connection with the manufacture of matches, Match-stick-. F. Mange. 1,617,646; Feb. 15.
- Conveying mechanism. P. Q. Williams. 1,633,053; June 21.
- Conveying mechanism. P. Q. Williams. 1,650,408; Nov. 22.
- Conveyor, Leer. P. Q. Williams. 1,646,047; Oct. 18.
- Cooker. W. Laabs. 1,630,124; May 24.
- Cooker. L. Sanguinetti. 1,651,730; Dec. 6.
- Cooker. C. F. Smith and C. Edwards. 1,624,989; Apr. 19.
- Cooker and mixer, Combined. A. Jacobson. 1,642,445; Sept. 13.
- Cooker, Continuous. F. D. Chapman. 1,646,577; Oct. 25.
- Cooker, Electric. J. E. Smith. 1,630,237; May 24.
- Cooker, Fireless. F. V. Detwiler. 1,652,300; Dec. 13.
- Cooker, Fireless. H. Mock. 1,647,742; Nov. 1.
- Cooker, Fireless. A. S. N. Olson. Des. 71,810; Jan. 4.
- Cooker, Potato-chip. E. A. Fontaine and T. H. Self. 1,641,262; Sept. 6.
- Cooker, Pressure. S. S. Graves. 1,635,476; July 12.
- Cooker, Rotary tubular crystallizer. F. Lafauille. 1,649,601; Nov. 15.
- Cooker, Steam. W. E. Cary and W. J. Miller. 1,617,235; Feb. 8.
- Cooker, Steam. W. McKenna. 1,628,895; May 17.
- Cooker, Steam. J. F. Waters. 1,653,243; Dec. 20.
- Cooker, Steam-pressure. F. W. Allen. 1,627,005; May 3.
- Cooker sweep. S. J. Ellis. 1,644,878; Oct. 11.
- Cooker, Waterless. E. T. Heinson. 1,640,190-1; Aug. 23.
- Cooking and drying apparatus. C. Offenhauser. 1,630,071; May 24.
- Cooking and heating device, Safety. H. Chilingirian. 1,641,624; Sept. 6.
- Cooking and serving installation. F. H. White. 1,642,706; Sept. 20.
- Cooking apparatus. E. Binnew. 1,622,081; Mar. 22.
- Cooking apparatus. P. T. Jackson. 1,631,418; June 7.
- Cooking apparatus. A. Theophilides. 1,636,393; July 19.
- Cooking apparatus, Automatic. J. T. Grady. 1,618,487; Feb. 22.
- Cooking apparatus, Electrical. M. J. De Roos. 1,628,310; May 10.
- Cooking, Apparatus for. J. H. Willson. 1,646,778; Oct. 25.
- Cooking apparatus, Pretzel-. W. Ehrhart. 1,644,516; Oct. 4.
- Cooking appliance. G. H. Cox. 1,624,604; Sept. 13.
- Cooking chestnuts. J. Aoki. 1,616,944; Feb. 8.
- Cooking device. F. H. Smith. 1,630,676; May 31.
- Cooking device, Electric. B. Mayer. 1,620,602; Mar. 8.
- Cooking pulp, Apparatus for. C. H. Allen. 1,632,779; June 21.
- Cooking receptacles, Cutlery holder for. A. Rovelli. 1,627,575; May 10.
- Cooking utensil. E. A. Allson. 1,616,435; Feb. 8.
- Cooking utensil. A. Atwater. 1,622,075; Mar. 22.
- Cooking utensil. S. J. Bell. 1,632,326; June 14.
- Cooking utensil. C. E. Cullen. 1,630,787; May 31.
- Cooking utensil. M. A. Endicott. 1,648,725; Nov. 8.
- Cooking utensil. T. Gefas. 1,628,360; May 10.
- Cooking utensil. H. E. Grossenbacher. 1,646,558; Oct. 25.
- Cooking utensil. H. R. Larsen. 1,627,187; May 3.
- Cooking utensil. E. P. McClure. 1,635,189; July 12.
- Cooking utensil. J. E. Quizey. 1,618,675; Feb. 22.
- Cooking utensil. W. F. Schoeneweltz. 1,619,159; Mar. 1.
- Cooking utensil. H. M. Schwab. 1,630,806; May 31.
- Cooking utensil, Domestic. C. E. Bean. 1,615,865; Feb. 1.
- Cooking utensil with hinged and removable lid. E. Neumann. 1,633,494; June 21.
- Cooking utensils and the like, Steam-escape device for. W. N. C. Louw. 1,638,589; Aug. 9.
- Cooking utensils, Cover-indexing device and fastener for. R. N. Kircher. 1,639,093; Aug. 16.
- Cooking utensils, Handle for. A. F. Lee. 1,625,731; Apr. 19.
- Cooking vessel, Domestic. M. S. Irish. 1,625,999; Apr. 26.
- Cooking vessels, Appliance for. F. L. Housel. 1,622,587; Mar. 29.
- Cooking vessels, Detachable cover for. R. N. Kircher. 1,641,681; Sept. 6.
- Cooking vessels, Overflow device for. J. Barron. 1,616,408; Feb. 1.

- Cookstove, Camp. A. C. Sladky and J. Sladky. 1,635,643; July 12.
- Cookstove, Gas. B. F. Rodgers. 1,630,030; May 24.
- Cooler & Sec.—
 Air cooler. Rotary cooler.
 Beverage cooler. Transformer cooler.
 Bottle cooler. Vertical cooler.
 Flash water cooler. Water cooler.
 Milk cooler.
- Cooler attachment. W. A. Schatz. 1,648,594; Nov. 8.
- Cooling and condensation, Apparatus for. V. C. Canter. 1,622,024; Mar. 22.
- Cooling and dispensing apparatus, Beverage. F. W. Holderle and C. L. Holderle. 1,626,935; May 3.
- Cooling and ventilating, Method of and apparatus for. L. Lewis. Re1,611; May 3.
- Cooling apparatus. N. H. Hiller. 1,622,511; Mar. 29.
- Cooling apparatus for, Congealable substances. O. C. Schmidt. 1,630,864; May 31.
- Cooling apparatus for cream and other viscous liquids. P. Matthews and A. Bracher. 1,634,910; July 5.
- Cooling arrangement. C. Krämer. 1,652,893; Dec. 13.
- Cooling box. H. B. Harris. 1,626,084; Apr. 26.
- Cooling device. G. Treck. 1,640,162; Aug. 23.
- Cooling device, Liquid. G. D. Gates. 1,638,571; Aug. 9.
- Cooling heated surfaces. E. N. Fales. 1,635,039; July 5.
- Cooling system. A. H. Leipert. 1,637,382; Aug. 2.
- Cooling system. W. W. Muir. Re1,676; July 12.
- Cooling system. W. W. Muir. 1,630,063-5; May 24.
- Cooling system. C. B. Page and W. D. Burton. 1,646,659; Oct. 25.
- Cooling system. S. W. Rushmore. 1,651,157; Nov. 29.
- Cooling system. H. A. Steinmeyer and J. H. Voss. 1,649,931; Nov. 22.
- Cooling system, Automatic. W. W. Muir. 1,649,248; Nov. 15.
- Cooling system, Transformer. C. L. Knotts. 1,624,346; Apr. 12.
- Cooling systems, Method of and device for preventing freezing of motor. H. R. Bernard. 1,634,394; July 5.
- Cooling tower. J. S. Fluor. 1,632,397; June 14.
- Cooling transformers. S. D. Sprong. 1,641,702; Sept. 6.
- Cooling unit. J. P. B. Fiske. 1,632,283; June 14.
- Cooling wheel. G. E. Cox. 1,649,511; Nov. 15.
- Coop. S. S. Barker. Re1,537; Jan. 18.
- Coop, Brooder. G. T. Markey. 1,652,629; Dec. 13.
- Coop. Chicken. A. E. Bugenhagen. 1,616,731; Feb. 8.
- Coop, Collapsible chicken. M. C. D. Fleming. 1,650,620; Nov. 29.
- Coop or crate, Poultry. C. T. Hatch. 1,644,472; Oct. 4.
- Cooper, Hardening. W. H. Weiser. 1,638,076; Aug. 9.
- Cop holder or support. H. R. Blair. 1,652,601; Dec. 13.
- Cop tube. J. Franz. 1,628,457; May 10.
- Cop-winding frame. O. Lamm. 1,623,191; Apr. 5.
- Coping and punching machine. H. L. Christie. 1,638,526; Aug. 9.
- Copper-arsenic dust. G. E. Sanders. 1,642,511; Sept. 13.
- Copper carbonate, Machine for treating grain with. J. Hilbach. 1,623,001; Mar. 29.
- Copper-extraction process. W. E. Greenawalt. 1,614,668-70; Jan. 18.
- Copper derivatives for combating animal and plant pests. K. Lieske and W. Bonrath. 1,649,536; Nov. 15.
- Copper from sulphate solution, Precipitating. N. C. Peterson. 1,613,922; Sept. 27.
- Copper-lime dust. G. E. Sanders. 1,620,490; Mar. 8.
- Copper, Refining. E. H. Jacobs. 1,648,947; Nov. 15.
- Copper together with a formula applicable thereto, Re-etching half tones on. V. C. Ronning. 1,628,857; May 17.
- Copper, zinc, and other metals from solutions containing chlorides and sulphates. K. Mattenklodt and H. Schramm. 1,639,610; Aug. 16.
- Copyholder. W. H. Gleeson. 1,640,121; Aug. 23.
- Copyholder. P. Grabler. 1,637,075; July 26.
- Copyholder. M. Hunt. 1,616,854; Feb. 8.
- Copyholder. J. F. Slavik. 1,615,959; Feb. 1.
- Copyholding apparatus. P. Grabler. 1,620,961; Mar. 15.
- Copy-pad composition. S. Cossia and A. Triunfo. 1,646,391; Oct. 25.
- Cord-attaching device. W. R. Larter. 1,637,698; Aug. 2.
- Cord, Attachment. C. E. Orndorf. 1,646,869; Oct. 25.
- Cord-circuit repeater. S. P. Shackleton and L. L. Glezen. 1,625,227; July 12.
- Cord connector. W. He. 1,627,286; May 3.
- Cord connector. A. Rubin. 1,637,836; Aug. 2.
- Cord disks and product of the same, Manufacturing. E. Vincke. 1,617,693; Feb. 15.
- Cord fabric, Manufacture of. W. M. Castriem and G. B. Taylor. 1,651,804; Dec. 6.
- Cord grip for curtains, draperies, and the like, Traverse. C. Romhof. 1,653,586; Dec. 20.
- Cord-gulding device. M. Castriem. 1,624,532-3; Apr. 12.
- Cord holder, Adjustable droplight. L. Moran. 1,633,344; Jan. 21.
- Cord lock. F. F. Hillix. 1,643,658; Sept. 27.
- Cord, Nonstretchable. J. H. Hunter. 1,644,529; Oct. 4.
- Cord protecting and supporting device. M. R. Rodrigues. 1,617,866; Feb. 15.
- Cord take-up. H. W. Robinson. 1,614,393; Jan. 11.
- Cord take-up. F. L. Westbrook. 1,614,221; Jan. 11.
- Cord-tire fabric. S. A. Sterco. 1,635,196; July 12.
- Cordage, Manufacture of. W. K. Lewis. 1,639,041; Aug. 16.
- Cording device. L. A. Brooks. 1,637,804; Aug. 2.
- Cording machine. J. W., and H. Platt. 1,625,868; Apr. 26.
- Core and chuck, Collapsible. L. A. Moreland. 1,633,263; June 21.
- Core and method of and apparatus for coating same, Coated. F. W. Willard. 1,615,428; Jan. 25.
- Core bar. J. E. Perry. 1,618,130; Feb. 15.
- Core bar, Wrought iron or steel. H. H. Ridsill. 1,615,887; Feb. 15.
- Core barrel. C. H. Benckenstein. 1,619,328; Mar. 1.
- Core box, Electrolytic. A. K. Laukel. 1,649,312; Nov. 15.
- Core, Coated. H. G. Walker and A. T. March. 1,615,425; Jan. 25.
- Core, Collapsible. C. H. Terry. 1,631,838; June 7.
- Core drill. W. C. Barnes. 1,634,565; July 5.
- Core drill. L. F. Bonney. 1,638,893; July 26.
- Core drill. T. L. Dee. 1,637,295-6; July 26.
- Core drill. H. B. Halvorsen. 1,643,338; Sept. 27.
- Core drill. W. H. Jones and M. Kinnebrew. 1,614,199; Jan. 11.
- Core drill. J. S. Mitchell. 1,634,506; July 5.
- Core drill. J. S. Mitchell. 1,654,223; Dec. 27.
- Core drill. F. Oliver. 1,624,146; Apr. 12.
- Core drill. C. P. Osgood. 1,650,384; Nov. 22.
- Core drill. R. Wilcox. 1,653,245; Dec. 20.
- Core drill, Rotary. R. B. Moran and A. F. Spengler. 1,624,249; Apr. 26.
- Core drill, Rotary. W. N. Thompson. 1,615,921; Feb. 1.
- Core, Expandable. A. Huettner. 1,616,959; Feb. 8.
- Core, Expansion. J. R. Taylor and E. Wood. 1,640,013; Aug. 23.
- Core-extracting device. G. K. Ieniston and C. E. Priestley. 1,650,017; Nov. 22.
- Core for molds. H. C. Pfeil. 1,630,357; May 31.
- Core form, Collapsible and portable. H. J. Yager. 1,652,081; Dec. 6.
- Core lamina, Making. J. C. Daley. 1,635,152; Dec. 20.
- Core, Laminated. P. Paszkowski. 1,654,306; Dec. 27.
- Core, Magnetic. W. Ehlers. 1,615,685; Jan. 25.
- Core-milling machine, Dry-cell. C. S. Affholder. 1,645,878; Oct. 18.
- Core, Method of and apparatus for serving a. C. D. Hart. 1,651,024; Nov. 29.
- Core, Multipart. M. Guyot. 1,638,846; Aug. 16.
- Core-supporting means. R. M. Johnstone. 1,642,680; Sept. 20.
- Core tip. E. M. Hill. 1,648,399; Nov. 8.
- Core tip. E. M. Hill. 1,651,705; Dec. 6.
- Core-tip-removing machine. E. Larbalester. 1,633,593; June 28.
- Core tube cutter. C. J. Roberts. 1,641,866; Sept. 6.
- Core article and producing such articles. R. E. McFarland. 1,615,094; Jan. 18.
- Cored articles of hard rubber and the like, Making irregularly. A. E. Sidel and E. C. F. Hartmann. 1,642,664; Sept. 13.
- Cored castings, Testing device for. G. A. Mohr. 1,622,002; Mar. 29.
- Corer, Apple and pear. C. A. Maile. 1,639,523; Aug. 16.
- Coring device. B. H. Dye. 1,629,026; May 17.
- Coring device. R. R. Hall. 1,648,225; Nov. 8.
- Cores, Apparatus for coating. J. S. Little. 1,615,304; Jan. 25.
- Cores, Coating. J. S. Little. 1,615,393; Jan. 25.
- Cores, Coating. H. G. Walker and A. T. March. 1,615,416; Jan. 25.
- Cores, Coating. H. G. Walker and A. T. March. 1,615,421; Jan. 25.
- Cores, Machine for coating. H. G. Walker and A. T. March. 1,615,417; Jan. 25.
- Cores, Machine for coating. H. G. Walker and A. T. March. 1,615,420; Jan. 25.
- Cores, Making magnetic. W. Ehlers. 1,618,818; Feb. 22.
- Cores, Method and apparatus for coating. H. F. Albright. 1,615,431; Jan. 25.
- Cores, Method and apparatus for coating. W. F. Hosford. 1,615,381; Jan. 25.
- Cores, Method and apparatus for coating. J. S. Little. 1,615,390; Jan. 25.
- Cores, Method and apparatus for coating. H. G. Walker. 1,615,423; Jan. 25.
- Cores, Method and apparatus for coating. H. G. Walker and A. T. March. 1,615,419; Jan. 25.
- Cores, Method of and apparatus for coating. H. W. Jespersen. 1,615,387; Jan. 25.
- Cores, Method of and apparatus for coating. J. S. Little. 1,615,395; Jan. 25.
- Cores, Method of and apparatus for coating. H. G. Walker and A. T. March. 1,615,418; Jan. 25.
- Cores, Method of and apparatus for coating. H. G. Walker and A. T. March. 1,615,422; Jan. 25.
- Cores, Producing coated. F. Gill. 1,615,375; Jan. 25.
- Cores, Producing coated. J. L. Ray. 1,630,451; May 31.
- Cork article and making the same, Compressed. H. F. Busch. 1,642,989; Sept. 20.
- Cork bodies and the like, Manufacturing solid. G. Schellhaas. 1,637,877; Aug. 2.
- Cork disk, Composite. E. Vincke. 1,628,082; May 10.
- Cork facing. W. F. Gruppe. 1,618,704; Feb. 22.
- Cork ribbon and making the same. H. F. Busch. 1,646,187; Oct. 18.
- Corkscrew, Collapsible. P. Mertens. 1,644,936; Oct. 11.
- Cork taps, Machine for the manufacture of. A. Parenti and V. Bolognini. 1,634,040; June 28.

- Cork textile rolls, Treatment of. H. F. Busch. 1,629,145; May 17.
- Corn and meal mill, Concentrated cracked. G. H. Haines. 1,653,459; Dec. 20.
- Corn crib construction. E. B. Nelson. 1,646,308; Oct. 18.
- Corn-expansion machine. C. Suzuki. 1,647,483; Nov. 1.
- Corn from the cob, Machine for cutting green. F. W. Burpee. 1,623,088; Apr. 5.
- Corn gatherer and husker. U. A. Shirey. 1,616,283; Feb. 1.
- Corn, grains, and the like, Apparatus for cleaning, peeling or shelling. S. Camilla and F. Pagliani. 1,637,678; Aug. 2.
- Corn harvesting and husking machine. A. C. Beckman. 1,646,004; Oct. 18.
- Corn huskers, Discharge spout for. T. H. Oppenheim and B. Selhorst. 1,647,714; Nov. 1.
- Corn huskers, Gear case for. T. H. Oppenheim and B. Selhorst. 1,645,252; Oct. 11.
- Corn huskers, Shaker trough for. A. Rosenthal. 1,629,930; May 24.
- Corn-husking machine. H. F. Freise. 1,635,400; July 12.
- Corn-husking machine. W. W. Morral. 1,628,325; May 10.
- Corn-husking machine. T. H. Oppenheim and B. Selhorst. 1,621,682; Mar. 22.
- Corn-husking machine. M. W. Sells. 1,634,758; July 5.
- Corn-husking machine and method. R. Cover. 1,627,838; May 10.
- Corn-husking machines, Shaking screen mechanism for. T. H. Oppenheim and B. Selhorst. 1,629,357; May 17.
- Corn, Machine for handling and treating. M. W. Sells. 1,639,706; Aug. 23.
- Corn, Machine for trimming ears of. C. F. Shumaker. 1,645,525; Sept. 27.
- Corn rubberer. E. W. Hopkins. 1,621,928; Mar. 22.
- Corn pickers, Motor attachment for. G. Fuck. 1,645,868; Oct. 18.
- Corn picking and husking machine. S. W. Barnett. 1,646,741; Oct. 25.
- Corn planter. J. M. Ray. 1,625,390; Apr. 19.
- Corn-planter attachment. H. Heronimus. 1,616,799; Jan. 10.
- Corn-plaster machine. O. G. Schmitt. 1,637,624; Aug. 2.
- Corn plasters, Making. O. G. Schmitt. 1,637,623; Aug. 2.
- Corn popper. J. E. Dempsey and L. E. Burton. 1,624,040; Apr. 12.
- Corn popper. J. A. Jackson. 1,620,765; Mar. 15.
- Corn popper. J. G. Le Pere. 1,658,493; Aug. 9.
- Corn popper. F. B. Richardson. 1,650,044; Nov. 22.
- Corn sheller. W. M. Jordan and C. S. Nichols. 1,650,988; Nov. 29.
- Corn popper and popping corn. R. W. Pritchard. 1,648,005; Nov. 8.
- Corn shelling machine. F. A. Hill. 1,621,113; Mar. 15.
- Corn sheller. A. E. Gilman. 1,614,921; Jan. 18.
- Corn shellers and the like, Separating mechanism for. R. M. Mitchell. 1,651,037; Nov. 29.
- Corn shredder and husker. H. P. Grossman. 1,628,461; May 10.
- Corn-snapping mechanisms, Clearing device for. C. Duker. 1,627,021; May 3.
- Corn-snapping roller. O. J. Schuld. 1,647,936; Nov. 1.
- Corn turner. L. L. Sizelove. 1,613,486; Jan. 4.
- Corner bead. L. E. Curtis. 1,624,541; Apr. 12.
- Corner bead. C. E. Keas. 1,652,674; Dec. 13.
- Corner-bead erector. J. J. Berscheid. 1,630,601; May 31.
- Corner beads, Apparatus for expanding metal. L. E. Curtis. 1,624,542; Apr. 12.
- Corner-board-positioning device. C. A. Karelius. 1,651,712; Dec. 6.
- Corner bracket. G. F. Voight. 1,642,392; Sept. 13.
- Corner guide and plumb rule. W. G. Elder. 1,643,880; Sept. 27.
- Corner light. G. Graff. Des. 72,419; Apr. 12.
- Corner mounts, Machine for making. L. S. Riley. 1,627,667; May 10.
- Corner plate. L. C. MacDonald. 1,622,656; Mar. 29.
- Cornice block. J. Lynch. 1,635,893; July 12.
- Corrosive divider. R. R. McAllen. 1,636,101; July 19.
- Corrosion, Prevention of. S. Fowler and E. Edser. 1,624,938; Apr. 19.
- Corrosion-resisting coating on iron and steel and products thereof, Producing. C. H. Humphries. 1,614,303; Jan. 11.
- Corrugated board, Machine for manufacturing. J. Kramer and A. H. Israel. 1,629,511; May 24.
- Corrugated sheet, Welded composite. P. H. Trout. 1,625,061; Apr. 19.
- Corrugating and bending machine. W. J. McLaughlin. 1,617,069; Feb. 8.
- Corrugating machine. D. V. Edwards. 1,623,467; Apr. 5.
- Corrugating machine. C. A. Frick. 1,623,916; Apr. 5.
- Corset. T. G. Bowers. 1,643,109; Sept. 20.
- Corset. B. R. Brock. 1,642,195; Sept. 13.
- Corset. B. Cervelli. 1,623,031; Mar. 29.
- Corset. J. Leonard. 1,637,313; July 26.
- Corset. A. Lipman. 1,619,874; Mar. 8.
- Corset. I. R. Versoy. 1,636,023; July 19.
- Corset. I. R. Versoy. 1,636,899; July 19.
- Corset. M. Von Halle. Rel. 6,226; May 17.
- Corset and brassiere, Combined. J. J. Kispert. 1,625,664; Apr. 19.
- Corset and brassiere, Combined detachable. W. Somers. 1,638,787; Aug. 9.
- Corset clasp. A. Kautzsch. 1,631,535; June 7.
- Corset, Maternity. A. H. Lockwood. 1,620,264; Mar. 8.
- Corset, Shaped seamless elastic. O. C. Wiese. 1,649,633; Nov. 15.
- Cosmetic case. J. L. Younghusband. 1,642,188; Sept. 13.
- Cosmetic container. V. Vivaudou. 1,623,509; Apr. 5.
- Cosmetic jar. A. Orzo. Des. 72,249; Mar. 15.
- Cosmetic pad holder. W. G. Kendall. 1,647,916; Nov. 1.
- Cosmetics. A. L. Davis. 1,629,096; May 17.
- Cosmetics and like materials, Container for. B. R. Morrison. 1,650,028; Nov. 22.
- Costume slip. L. Conyers. 1,642,300; Sept. 13.
- Costume slip. A. A. Hoffman. 1,618,198; Feb. 22.
- Costumer. W. P. Neal. Des. 73,576; Oct. 4.
- Costumer and wardrobe, Combined. E. B. Skinner. 1,641,832; Sept. 6.
- Cot, Adjustable. F. Tiedemann. 1,644,043; Oct. 4.
- Cot, Exercising. F. T. Mittag. 1,641,185; Sept. 6.
- Cot, Folding. W. E. Brown. 1,632,114; June 14.
- Cot for automobiles. W. C. Brye. 1,620,433; Mar. 8.
- Cotter pin. E. W. Beatty. 1,621,346; Mar. 15.
- Cotter-pin and staple puller. F. Foote. 1,629,953; May 24.
- Cotter-pin puller. W. H. Burke. 1,638,616; Aug. 9.
- Cotton and hull separator. C. A. Brust. 1,628,451; May 10.
- Cotton and other fibrous materials, Apparatus for use in treating. J. W. Cook. 1,629,068; May 17.
- Cotton and other fibrous materials, Opening, mixing, and blending. R. W. B. Sparks. 1,632,931; June 21.
- Cotton batting and making the same. E. A. Rogers. 1,642,509; Sept. 13.
- Cotton blocker. J. E. Williams. 1,635,521; July 12.
- Cotton chopper. O. S. Hellums. 1,631,032; May 31.
- Cotton chopper. R. S. McClintock. 1,625,087; Apr. 19.
- Cotton chopper. A. H. Winnert. 1,623,898; Apr. 5.
- Cotton chopper and weeder. E. W. Beasley. 1,634,010; June 28.
- Cotton, chopper, Cross-row. H. A. Turner. 1,642,277; Sept. 13.
- Cotton-chopping machine. A. McGregor. 1,648,775; Nov. 8.
- Cotton cleaner. C. J. Baker. 1,619,178; Mar. 1.
- Cotton cleaner. T. G. Medders. 1,614,624; Jan. 18.
- Cotton cleaning and reclaiming machine. J. E. Mitchell. 1,613,242; Jan. 4.
- Cotton, Device for picking. I. Martinez. 1,634,621; July 5.
- Cotton-distributing mechanism. R. S. Curley. 1,630,375; May 31.
- Cotton-distributing mechanisms, Controlling apparatus for. J. W. Woodward. 1,640,138; Aug. 23.
- Cotton during spinning operations, Device for distinguishing different sorts of. J. Lauffer. 1,645,432; Oct. 1.
- Cotton duster. R. L. Woodruff. 1,614,269; Jan. 11.
- Cotton-dusting machine. W. H. Thompson. 1,646,224; Oct. 18.
- Cotton fabrics, Producing woollike effects on. H. I. Huey. 1,616,749; Feb. 8.
- Cotton feeder and separator. E. L. Farley. 1,647,860; Nov. 1.
- Cotton fibers, Preparation of. P. Karer. 1,650,989; Nov. 29.
- Cotton file. A. S. Skelton. 1,649,263; Nov. 15.
- Cotton-gathering machine. D. M. Key. 1,615,330; Jan. 25.
- Cotton gin. R. L. Willis. 1,642,982; Sept. 20.
- Cotton gin, Compound vacuum. J. F. Levering. 1,646,060; Oct. 18.
- Cotton-gin lint flue. E. Munger. 1,646,656; Oct. 25.
- Cotton gins, Rib rail for. I. Leech and T. H. Bradley. 1,630,018; May 24.
- Cotton lappers, Attachment for. E. Mills. 1,628,797; May 17.
- Cotton, Machine for opening and preparing. J. W. Goodroe. 1,632,372; June 14.
- Cotton or other threads containing cellulose, Treating. G. Tagliani. 1,633,617; June 28.
- Cotton picker. H. N. Berry. 1,635,161; July 5.
- Cotton picker. A. E. Brown. 1,624,308; Apr. 12.
- Cotton-picking machine. W. T. Hoofnagle. 1,636,132; July 19.
- Cotton-picking machine. J. B. Neil. 1,635,725; July 12.
- Cotton-picking machine. F. and M. F. Phelps. 1,646,594; Oct. 22.
- Cotton pickers, Automatic knock-off for. O. Brown. 1,645,412; Oct. 11.
- Cotton stapling. E. E. Chandler. 1,643,198; Sept. 20.
- Cottonseed and product thereof, Preparatory treatment of. H. Bollmann. 1,653,201; Dec. 20.
- Cottonseed cleaner. C. G. Kime. 1,627,782; May 10.
- Cottonseed hulls, Apparatus for deburring. T. J. Kidd. 1,654,263; Dec. 27.
- Cottonseed hulls, Process and apparatus for delinting. T. J. Kidd. 1,639,568; Aug. 16.
- Couch. A. Yaremko. Des. 73,733; Oct. 25.
- Couch, Folding. D. C. Travis. 1,649,621; Nov. 15.
- Couches and the like, Spring-lifting mechanism for folding. H. J. Jacobs. 1,650,217; Nov. 22.
- Couches, Post for. F. Chalfant. 1,610,740; Feb. 8.
- Counter. W. T. Sherer. 1,626,013; Apr. 26.
- Counter. F. P. Stell. 1,629,933; May 24.
- Counter and heel guard. M. M. Doran. 1,631,310; June 7.

- Counterbalance. R. C. Baker. 1,636,274; July 19.
Counterbalancing device. L. M. Llewellyn and H. G. Pederson. 1,624,414; Apr. 12.
Counterbalancing device. H. G. Pederson. 1,645,254; Oct. 11.
Counter, Fish-dressing. R. H. Holt. 1,617,484; Feb. 15.
Countersinking machine. W. G. Aldeen. 1,624,648; Apr. 12.
Counterweight. M. F. Yount. 1,616,100; Feb. 1.
Counting and delivering folded products, Mechanism for. H. P. Claiberg. 1,616,075; Feb. 1.
Counting and indicating mechanism. A. Broadmeyer. 1,631,616; June 7.
Counting device. F. J. Cannon. 1,614,712; Jan. 18.
Counting machine. C. H. Veeder. 1,617,730; Feb. 15.
Counting machine. Can cover. J. R. Edwards. 1,641,476; Sept. 6.
Counting mechanism. M. D. Nolet. 1,647,143; Nov. 1.
Counting mechanism. O. L. Seward. 1,618,140; Feb. 15.
Counting mechanism in machines for franking postal matter and the like, Driving device of. U. Kohler. 1,620,665; Mar. 15.
Counting-relay operation. F. A. Stearn. 1,650,745; Nov. 29.
Counting sheets, Machine for. C. L. Burdick. 1,640,563; Aug. 30.
Counting sorter for perforated cards. W. W. Lasker. 1,643,386; Sept. 27.
Coupler. N. Kurti. 1,650,366; Nov. 21.
Coupler. D. Robinson. 1,647,544; Nov. 1.
Coupler adapter. H. F. Woernley. 1,653,140; Dec. 20.
Coupler, Automatic air-break. M. W. Dreihelbis. 1,635,782; July 12.
Coupler, Blow-off. W. H. Clegg. 1,613,742; Jan. 11.
Coupler-centering device. V. Willoughby. 1,616,603; Feb. 8.
Coupler for miner's cars, Automatic. T. Kolinger and L. Habunek. 1,621,419; Mar. 16.
Coupler mechanism. E. P. Kinne. 1,639,300; Aug. 16.
Coupler-positioning device. V. E. Sisson. 1,636,163; July 19.
Coupler-release rigging. W. C. Sleeman and A. J. Monfee. 1,634,693; July 5.
Coupler-release rigging, Separable. A. F. O'Connor. 1,625,144; Apr. 19.
Coupler, Sound-box. W. Tures. 1,648,080; Nov. 8.
Coupler striking plate. J. J. Tatum. 1,624,993; Apr. 19.
Coupler, Trailer. T. Dempsey. 1,636,295; July 19.
Coupler, Variable. H. Vadersen. 1,616,643; Feb. 8.
Couplers open, Device for holding the movable jaws of. J. Holnowski. 1,633,784; June 28.
Couplers, Operating means for. S. V. Coney. 1,614,654; Jan. 18.
Coupling. Transition device for car. R. J. Wittmer. 1,652,263; Dec. 13.
Coupling: See—
Air-brake coupling. Radio condenser coupling.
Box and pin coupling. Rod coupling.
Cable coupling. Rotary coupling.
Car coupling. Screen coupling.
Casting coupling. Sealing coupling.
Chain coupling. Separable coupling.
Clutch-release coupling. Shaft coupling.
Conduit coupling. Sleeve coupling.
Draft coupling. Slip-joint coupling.
Drawbar coupling. Spring-cross yieldable coupling.
Driving coupling. Spool coupling.
Electric coupling. Tank-hose coupling.
Flanged coupling. Threaded coupling.
Flexible adjustable coupling. Tractor-drawbar coupling.
Flexible coupling. Trailer coupling.
Friction coupling. Train-pipe coupling.
Gas-line coupling. Tram-pipe coupling.
Grease coupling. Tube coupling.
Hose and pipe coupling. Tubular coupling.
Hose coupling. Universal coupling.
Pipe coupling. Vehicle coupling.
Pipe float coupling. Yieldable coupling.
Coupling. H. Anlauf, and T. J. Warhurst. 1,622,216; Mar. 22.
Coupling. H. E. Brice. 1,629,375; May 17.
Coupling. B. E. Cagnon. 1,652,705; Dec. 6.
Coupling. C. W. Cassels. 1,617,044; Feb. 8.
Coupling. H. P. Dahlstrand. 1,641,740; Sept. 6.
Coupling. W. B. Flanders. 1,630,737; May 31.
Coupling. G. H. Fletcher and H. Rusby. 1,633,935; June 28.
Coupling. W. J. Gagnon. 1,650,505-6; Nov. 22.
Coupling. H. W. Goff. 1,653,899; Dec. 27.
Coupling. R. A. Hage. 1,623,110; Apr. 5.
Coupling. C. Hoddard. 1,639,019; Aug. 16.
Coupling. J. F. Johnson. 1,647,136; Nov. 1.
Coupling. J. L. Lemerond. 1,637,081; July 26.
Coupling. G. C. Long. 1,634,153; June 28.
Coupling. L. Reilsfeld. 1,636,706; July 26.
Coupling. L. M. Sartain. 1,613,909; Jan. 11.
Coupling. W. G. Stevens. J. 1,635,144; July 5.
Coupling and change-speed gear, Hydraulic. S. G. Wingquist. 1,645,585; Oct. 18.
Coupling and hose, Steam iron. J. J. Mulconroy. 1,619,583; Mar. 1.
Coupling and making the same. J. W. Napier. 1,623,064; Apr. 5.
Coupling device. S. M. Chase. 1,627,885; May 10.
Coupling device. A. R. Keller. 1,637,944; Aug. 2.
Coupling device. H. J. Neufang. 1,648,317; Nov. 8.
Coupling device, Electromagnetic. S. E. Anderson. 1,616,102; Feb. 1.
Coupling device, Inductive. J. C. Gabriel. 1,641,925; Sept. 6.
Coupling device, Inductive. L. M. Hull and R. W. Seabury. 1,625,723; Apr. 19.
Coupling for armored hose. W. A. Johnson. 1,649,594; Nov. 15.
Coupling for lifting ropes and the like, Detachable. E. J. Thunberg and H. G. A. Åkerlund. 1,618,851; Feb. 22.
Coupling for logs, Chain. E. Larsson. 1,619,675; Mar. 1.
Coupling for railway cars, Emergency. P. L. Hudgins. 1,653,433; Dec. 20.
Coupling for suspended shaft casings. M. E. Layne. 1,652,365; Dec. 13.
Coupling for wires, etc. C. H. Ericson. 1,641,627; Sept. 6.
Coupling loosener. F. L. Scott. 1,638,219; Aug. 9.
Coupling pin. J. A. Campo. 1,621,624; Mar. 22.
Coupling-pin retainer. B. F. Kurtz. 1,640,413; Aug. 30.
Couplings, Fitting for quick-detachable. G. W. De Loache. 1,623,997; Apr. 22.
Couplings for rheostats and the like, Constructing. F. C. Hersee. 1,625,604; Apr. 19.
Couplings or pipe lines, Reinforcing means for flexible. J. C. Roddy. 1,625,584; Apr. 19.
Couplings, Uncoupling device for. T. N. Russell. 1,622,055; May 22.
Coupon. Merchandising. V. J. Garvin. 1,613,881; Jan. 11.
Cover and strainer, Combined. F. W. Kuhnast. 1,624,745; Apr. 12.
Cover construction. Removable. M. J. Trumble. 1,653,137; Dec. 20.
Cover device. W. D. Lord. 1,649,714; Nov. 15.
Cover drier. Electric. F. Essler. 1,613,887; Jan. 11.
Cover edges, Machine for folding. C. H. Ohlsson. 1,640,515; Aug. 8.
Cover fastener. E. F. Loewer. 1,615,987; Feb. 1.
Cover holder. A. B. R. Moore. 1,646,792; Oct. 25.
Cover-operating mechanism for garbage, ash, wagons, and the like. H. Lutz. G. 1,651,138; Nov. 29.
Cover or similar article, Lace. S. N. Mallouk. Des. 72,227-34; Mar. 15.
Cover retainer. A. A. Phillips. 1,647,579; Nov. 1.
Cover, Sanitary. J. Kim. Re16,705; Aug. 16.
Cover, spring sleeve and lubricator, Spring. E. F. Hartzell. 1,639,942; Aug. 23.
Covered pan. A. Katzinger. 1,627,541; May 3.
Covering for containers, Insulating and indicating. S. Wanamaker. 1,633,298; June 21.
Covering machine. R. A. McCauley. 1,640,903; Aug. 30.
Covering material, Making. J. C. Morrell. 1,618,102; Feb. 5.
Coverings and forming same, Refractory material suitable for. G. B. Luckett and J. A. Johnson. 1,643,988; Oct. 4.
Coverings, Method of and apparatus for laying protective. A. C. Chenoweth. 1,619,331; Mar. 1.
Covers or closures, Implement for removing. C. A. Macintosh. 1,645,107; Oct. 11.
Covers, Web notching and blanking mechanism for outside. C. H. Olson. 1,640,466; Aug. 30.
Cow-tail tie. G. L. Short. 1,619,274; Mar. 1.
Cowl. H. C. Wehrfritz. 1,641,060; Aug. 30.
Cowl light. O. E. Hunt. 1,640,831; Aug. 30.
Cowl ventilator. H. C. Maisie. 1,632,796; June 21.
Cowl ventilator. W. C. Zoller. 1,642,319; Sept. 13.
Cracker can. A. Pittelkow. 1,645,772; Oct. 18.
Crackers and the product of said process, Producing. H. F. Rippey. 1,633,872; June 28.
Cracking apparatus. E. W. Hartman. 1,618,427; Feb. 22.
Cracking machine. Nut-. J. L. Pickens. 1,654,430; Dec. 27.
Craft, Over-water. J. B. Williams. 1,627,876; May 10.
Craft, propulsion means. J. V. Martin. 1,644,787; Oct. 11.
Cramping device. C. Gronski. 1,618,654; Feb. 22.
Cranberry-harvesting apparatus. H. B. Maglathlin. 1,629,831; May 24.
Crane. U. Hamberger. 1,653,834; Dec. 27.
Crane. F. W. Deady. 1,622,574; Mar. 29.
Crane. L. D. Nilson. 1,641,351; Sept. 6.
Crane. L. D. Nilson. 1,643,348; Sept. 27.
Crane. L. Pierce. 1,613,409; Jan. 4.
Crane. K. Sleckmann. 1,624,988; Apr. 19.
Crane and motor stand, Combination. D. A. Snook. 1,614,697; Jan. 18.
Crane, Automobile. R. S. Moore. 1,629,521; May 24.
Crane, Boat's. J. Petersen. 1,614,318; Jan. 11.
Crane, Derrick. F. W. Hake. 1,632,329; June 14.
Crane, Excavator. R. Ljunskrud. 1,625,859; Apr. 26.
Crane, Foundry ladle. A. Thomas. 1,629,184; May 17.
Crane mechanism, Motor-driven traveling. E. Durhan, Jr. 1,645,119; Jan. 13.
Crane, Traveling. A. Amsler. 1,614,769; Jan. 18.
Crane, Traveling. H. B. Baker. 1,652,265; Dec. 13.
Crane, Traveling. E. J. G. Phillips. 1,643,842; Sept. 27.
Crane, Turntable. B. F. Fitch. 1,645,744; Oct. 18.
Crane, Wrecking. J. H. Staley. 1,629,532; May 24.
Cranes, Operating mechanism for. E. G. Deucher. 1,630,877; May 31.

- Cranes, Trolley construction for. G. E. Moore. 1,627,746; May 10.
- Crank. M. Anthony. 1,629,469; May 24.
- Crank. C. C. Trester. 1,640,165; Aug. 23.
- Crank and pitman mechanism. H. Ford. 1,639,334; Aug. 16.
- Crank-case and pit drainer. A. M. Morrison. 1,651,016; Dec. 6.
- Crank-case construction. G. D. Angle. 1,619,012; Mar. 1.
- Crank-case heater. F. H. Hinkley. 1,620,382; May 17.
- Crank-case repair arm. H. Y. Hooper. 1,635,847; July 12.
- Crank-case ventilator. J. D. Shannon. 1,654,147; Dec. 27.
- Crank cases, Apparatus for cleaning. W. L. Osborne. 1,633,283; June 21.
- Crank cases, Electric heater for. J. H. Loper. 1,627,564; May 10.
- Crank casing. W. B. Pohle. 1,636,756; July 26.
- Crank holder. W. J. Coultas. 1,622,028; Mar. 22.
- Crank holder. A. Manchester. 1,615,592; Jan. 25.
- Crank motion. Automatically-variable. A. E. Miller. 1,622,917; Mar. 20.
- Crank shaft. E. A. Jimerson. 1,647,230; Nov. 1.
- Crank shaft. K. R. Nelson. 1,651,465; Dec. 6.
- Crank shaft. C. R. Short. 1,627,809; May 10.
- Crank shaft. O. W. Thompson. 1,630,038; May 24.
- Crank shaft, Balanced. J. A. Oldson. 1,645,717-8; Oct. 18.
- Crank-shaft formation. H. Ford. 1,624,228; Apr. 12.
- Crank shaft, Six-throw, four-bearing balanced. J. A. Oldson. 1,649,541; Nov. 15.
- Crank shaft, Two-piece. W. F. Kasper. 1,613,835; Jan. 11.
- Crank shafts, Device for damping the oscillations of multiple. H. Fittinger. 1,636,050; July 19.
- Crank shafts, Power take-off for engine. R. D. Caffarella. 1,629,949; May 24.
- Crank-shaping machines, Bull-gear inclosure for. G. H. Knight. 1,624,954; Apr. 19.
- Cranking device, Safety. R. L. Green. 1,651,695; Dec. 6.
- Crankless mechanism. A. G. M. Michell. 1,613,116; Jan. 4.
- Cranks, Pin attachment for. C. Eurit. 1,652,617; Dec. 13.
- Crane. M. A. Brown. 1,636,804; July 26.
- Crane. C. and O. A. Flagstad. 1,617,444; Feb. 15.
- Crane. J. S. Horton. 1,656,607; July 19.
- Crane. J. F. Maurer, jr. 1,635,135; July 5.
- Crane. F. Walther. 1,620,585; Mar. 8.
- Crane. C. A. Woolsey. 1,638,229; Aug. 9.
- Crane. C. A. Woolsey and H. V. Bowman. 1,639,873; Aug. 23.
- Crane. C. A. Woolsey and H. V. Bowman. 1,644,865; Oct. 11.
- Crane attachment, Milk bottle. W. E. Bonesteel. 1,641,526; Sept. 6.
- Crane, Bottle. H. H. and E. A. Gerding. 1,625,359; Apr. 19.
- Crane, Collapsible. J. W. Curry. 1,618,062; Feb. 15.
- Crane, Collapsible. C. Flagstad. 1,646,284; Oct. 18.
- Crane, Collapsible. C. and O. A. Flagstad. 1,618,420; Feb. 22.
- Crane, Collapsible shipping. W. B. Hiatt. 1,651,121; Nov. 29.
- Crane, Folding. J. Cobb. 1,652,887; Dec. 13.
- Crane, Folding. T. J. Murray. 1,626,009; Apr. 26.
- Crane for animals, Shipping. B. E. Tarman. 1,619,895; Mar. 8.
- Crane for furniture, Collapsible and adjustable. E. F. Rau. 1,633,354; June 21.
- Crane or box. B. E. Gaylord. 1,616,618; Feb. 8.
- Crane, Portable collapsible. W. D. Thixton. 1,633,425; June 21.
- Crane, Poultry. B. A. Stamp. 1,624,517; Apr. 12.
- Crane, Shipping. H. A. Clark. 1,639,555; Aug. 16.
- Crane, Shipping. H. C. Geran. 1,651,267; Nov. 29.
- Crane, Shipping. J. W. Parks. 1,653,116; Dec. 20.
- Crane, Shipping. J. W. Samples. 1,637,060; Aug. 2.
- Cream-can lifter. O. Carlson. 1,618,568; Feb. 22.
- Cream-dispensing device. A. Slaten. 1,650,806; Nov. 29.
- Cream remover. E. G. Lambert. 1,622,832; Mar. 29.
- Cream-removing apparatus. G. Haberman. 1,619,973; Mar. 8.
- Cream-removing device. A. T. Laws. 1,615,785; Jan. 25.
- Cream saver, Sanitary. H. F. Rohrke. 1,629,309; May 17.
- Cream separator. C. E. Benedict. 1,625,385; Apr. 19.
- Cream separator. E. H. Fahrney. 1,631,194; June 7.
- Cream separator. W. A. Guyer. 1,650,444; Nov. 22.
- Cream separator. E. G. Johanson. 1,641,493; Sept. 6.
- Cream, Skin. F. E. Goodall. 1,628,814; May 3.
- Cream, Sterilizing. B. H. Webb. 1,646,671; Oct. 25.
- Cream-testing device. H. Wangbo. 1,612,996; Jan. 4.
- Cream-treating process. R. K. Cooney. 1,626,576; Mar. 22.
- Creamer attachment for coffee urns. Combination sanitary automatic. D. M. Clark. 1,618,363; Feb. 22.
- Creamer or similar article. F. Schmidt. Des. 72,282; Mar. 22.
- Creasing and folding machine. F. Thomas. 1,620,986; Mar. 15.
- Creasing device, Hand-operated. H. B. Walter. 1,633,655; June 28.
- Credit form, Mercantile. D. L. Cline. 1,637,985; Aug. 2.
- Credit slip, Authorizing apparatus. A. Block. 1,644,229; Oct. 4.
- Creel. R. P. Clark. 1,648,757; Nov. 8.
- Creel. J. O. McKean. 1,625,546; Apr. 5.
- Creel carrier. W. R. Davis. 1,635,928; July 12.
- Creel equipped with automatic tension device. M. Simoneau, sr. 1,614,497; Jan. 18.
- Creel stand. J. Krückels. 1,647,972; Nov. 1.
- Creeling frames, Automatic signal indicator for. A. J. Dion. 1,638,339; June 21.
- Creels or jacks, Cushion for. H. H. Hellawell and F. Radhuber. 1,653,566; Dec. 20.
- Creeper for automobile mechanics. C. M. Mohler. 1,649,721; Nov. 15.
- Crib. F. Kusterle. 1,618,447; Feb. 22.
- Crib and baby walking device, Combined. F. Urso. 1,642,184; Sept. 13.
- Crib, Folding. W. C. Baxter. 1,640,024; Aug. 23.
- Crib, Folding. M. M. Hood. 1,630,941; May 31.
- Crib, Folding. I. Kauteberg. 1,639,110; Aug. 16.
- Cribbing. W. L. McDaniel. 1,648,556-7; Nov. 8.
- Cribs, Top of the, Wheel mounting for. W. C. Baxter. 1,640,025; Aug. 23.
- Cribs or support for. C. H. Boardman. 1,624,467; Apr. 12.
- Cricket, Hockey, and like ball. G. W. Beldam. 1,624,822; Apr. 12.
- Crinkle to warp threads, Device for imparting. W. K. Gunter. 1,628,142; May 10.
- Crookes glass, Colorless. P. V. W. Gell, C. E. Gould, W. M. Hampton, and H. S. Martin. 1,634,182; June 28.
- Cross arm. C. W. Cassels. 1,620,949; Mar. 15.
- Cross arm. R. F. Hosford. 1,642,025; Sept. 13.
- Cross arm. J. H. Neville. 1,648,462; Nov. 8.
- Cross brace. K. C. Gardner. 1,641,855; Sept. 6.
- Crosshead, Locomotive. H. Guest. 1,648,118; Nov. 8.
- Crossie. G. C. Christner. 1,643,923; Sept. 27.
- Crossing. S. G. Davis. 1,629,778; May 24.
- Crossing gate. M. R. Caputo. 1,651,326; Nov. 29.
- Crossing gate. J. Honor. 1,621,370; Mar. 15.
- Crossing gate control. G. I. Wright. 1,650,783; Nov. 29.
- Crossing gate, Grade. J. D. Paul. 1,626,964; May 3.
- Crossing gate, Railway. B. E. Spratlen. 1,648,072; Nov. 8.
- Crossing gate, Railway and highway. J. M. Jones. 1,620,026; Mar. 8.
- Crossing signal. J. B. Gebbard and H. Althaus. 1,620,600; Mar. 8.
- Crossing signal, Automatic railway. F. Van Way. 1,648,288; Nov. 8.
- Crossings, Stop signal for. G. L. Estes. 1,620,087; Mar. 8.
- Crotonaldehyde, Manufacture of condensation products of. W. Kropf. 1,640,899; Aug. 30.
- Crown-block bearing-sheave unit. E. Timbs. 1,649,995; Nov. 22.
- Crown blocks, Pulley support for. E. Timbs. 1,639,116; Aug. 16.
- Crown ring. J. M. Walsh. 1,619,224; Mar. 1.
- Crow sheaves, Unitary structure for. E. Timbs and L. E. Zerbe. 1,642,979; Sept. 20.
- Crown stopper. C. Benetti. 1,626,500; Apr. 26.
- Crucible, Electrothermic. C. E. Foley. 1,638,660; Aug. 9.
- Crucibles and the like, Machine for the manufacture of. H. E. Porter. 1,637,708; Aug. 2.
- Crucibles and the like, Manufacturing. H. E. Porter. 1,637,707; Aug. 2.
- Crucibles, Forming refractory. H. T. Reeve. 1,648,149; Nov. 8.
- Crucibles or clay pots, Cleaning the bottoms of. F. Merian. 1,614,923; Jan. 15.
- Crude oil motor, High-pressure. E. Schaeren. 1,646,042; Oct. 18.
- Crushed ore and the like, Classifying. S. H. Dolbear and B. L. Eastman. 1,624,134; Apr. 12.
- Crusher. See—Stone crusher.
Disk pan crusher. Vegetable and fruit crusher.
Ore crusher.
- Crusher. R. C. Newhouse. 1,641,776; Sept. 6.
- Crusher. C. G. Sprado. 1,628,619; May 10.
- Crusher and constructing the same. J. S. Bond. 1,641,728; Sept. 6.
- Crusher and grass destroyer. Clod. J. M. Perrone. 1,647,717; Nov. 1.
- Crusher and pulverizer. H. J. Shelton. 1,648,625; Nov. 8.
- Crushers, Inner disk for disk. C. B. Andrews. 1,624,032; May 3.
- Crushing and grinding machine. A. C. Hamey. 1,627,506; May 3.
- Crushing and sifting device, Pneumatically-fed. E. Barthelme. 1,635,527; July 12.
- Crushing disk. E. B. Symons. 1,630,502; May 31.
- Crushing machinery. Screen bar for. G. W. Borton. 1,624,886; Apr. 12.
- Crushing roll, Segmental. C. W. Flieger. 1,614,784; Jan. 18.
- Crust breaker. G. W. Carey. 1,653,760; Dec. 27.
- Crust breaker. P. Nen. 1,639,307; Aug. 16.
- Crutch. W. H. Fullinton. 1,652,110; Dec. 6.
- Crutch. R. N. Hunter. 1,621,255; Mar. 15.

- Crutch, J. A. Weis. 1,635,914; July 12.
 Crystal detector. H. C. Adam. 1,633,059; June 21.
 Crystal detector. L. Lane. 1,617,956; Feb. 15.
 Crystal detector. E. A. Wright. 1,636,269; July 19.
 Crystal growth. Gelter for controlling. W. C. Sproesser. 1,626,687; May 3.
 Crystal mounting. Piezo-electric. C. F. Rudolph. 1,649,081; Nov. 15.
 Crystallizing. F. Lafeuille. 1,653,712; Dec. 27.
 Crystallizing liquid. G. T. Walker. 1,644,161; Oct. 4.
 Cuing sliced material. Apparatus for. W. E. Leibing. 1,640,951; Aug. 30.
 Cucurbititrin. Preparation of. I. S. Barksdale. 1,626,321; Apr. 26.
 Cue tip. H. J. Grenier. 1,648,613; Nov. 8.
 Cue tip and manufacture thereof. F. B. Seeberger. 1,624,984; Apr. 19.
 Cue-tip chalk. O. H. Mahaffey. 1,654,424; Dec. 27.
 Cue-tip drier. F. Alexander. 1,643,402; Sept. 27.
 Cue-tip fastener. H. J. Grenier. 1,620,545; Mar. 8.
 Cue-tip-securing means. M. Vargo. 1,614,414; Jan. 11.
 Cuff. C. J. Smith. 1,648,913; Nov. 15.
 Cuff. Detachable. W. D. Torrey. 1,648,833; Oct. 18.
 Cuff for garments. Adjustable. F. H. Sprague. 1,616,640; Feb. 8.
 Cuff link. S. Bochonok. 1,651,437; Dec. 6.
 Cuff link. S. Fischer. Des. 71,962; Feb. 8.
 Cuff link. C. W. Hensley. 1,645,907; Oct. 18.
 Cuff link. J. S. Mitchell. 1,616,099; Feb. 8.
 Cuff link. J. Pabst. 1,617,269; Feb. 8.
 Cuff link. W. E. Roberts. 1,627,460; May 3.
 Cuff, Reinforced shirt. G. I. Bennett. 1,620,319; Mar. 8.
 Cuff, Reversible. J. K. Broderick. 1,651,370; Dec. 6.
 Culinary apparatus. C. F. Downs. 1,626,922; May 3.
 Culinary implement. E. R. Cain and C. R. McMillan. 1,644,464; Oct. 4.
 Culinary implement. N. P. Hayes. 1,638,486; Aug. 9.
 Culinary machine. Automatic. H. E. Harkin. 1,618,190; Feb. 22.
 Culinary utensil. L. D. Hubbard. 1,627,285; May 3.
 Culinary utensil. J. J. Kastner. 1,617,120; Feb. 8.
 Culinary vessel. W. W. Decker, Jr. 1,625,847; Apr. 26.
 Cultivating apparatus. L. M. Lee. 1,629,109; May 17.
 Cultivating implement. G. A. Newhouse. 1,643,898; Sept. 27.
 Cultivating implement. C. J. Rodriguez. 1,644,449; Oct. 4.
 Cultivating implement. P. N. Torres. 1,644,315; Oct. 4.
 Cultivating means. G. T. Strite. 1,641,207; Sept. 6.
 Cultivator. W. P. Allen and E. H. Fincher. 1,621,764; Mar. 22.
 Cultivator. H. E. Altgelt. 1,637,925; Aug. 2.
 Cultivator. H. E. Altgelt. 1,642,801; Sept. 20.
 Cultivator. A. Breden. 1,624,488; Mar. 29.
 Cultivator. D. Brink. 1,613,079; Jan. 4.
 Cultivator. M. Evans. 1,625,302; Apr. 19.
 Cultivator. F. J. Farrington. 1,622,863; Mar. 29.
 Cultivator. J. R. Fell. 1,616,359; Feb. 1.
 Cultivator. F. J. Foster. 1,615,902; Feb. 1.
 Cultivator. R. G. Gallagher. 1,629,768; Aug. 23.
 Cultivator. R. H. Griffith. 1,619,862; Mar. 8.
 Cultivator. R. H. Griffith. 1,645,422; Oct. 11.
 Cultivator. R. H. Griffith. 1,649,825; Nov. 22.
 Cultivator. F. G. Griggs. 1,636,936; July 26.
 Cultivator. P. Hennes. 1,646,024; Oct. 18.
 Cultivator. B. S. Howell and G. M. Fast. 1,647,700; Nov. 1.
 Cultivator. A. B. Johnson. 1,652,012; Dec. 6.
 Cultivator. A. J. Kern. 1,623,120; Apr. 5.
 Cultivator. N. D. Kern. 1,632,706; June 14.
 Cultivator. J. Martikainen. 1,619,797; Mar. 1.
 Cultivator. A. McEntee. 1,637,122; July 26.
 Cultivator. W. Mills. 1,648,738; Nov. 8.
 Cultivator. J. W. and L. E. 1,632,638; 1,639,463; Aug. 16.
 Cultivator. G. W. Mobley. 1,618,595; Feb. 8.
 Cultivator. J. M. Moyer and H. C. Hoozee. 1,645,507; Oct. 11.
 Cultivator. J. H. Nixon. 1,628,181; May 10.
 Cultivator. H. E. Orthman. 1,622,968; Mar. 29.
 Cultivator. N. W. Palmer. 1,647,658; Nov. 1.
 Cultivator. V. L. Paul. 1,644,080; Oct. 4.
 Cultivator. H. Petersen. 1,644,271; Oct. 4.
 Cultivator. H. Petersen. 1,650,722; Nov. 29.
 Cultivator. F. B. Salvesen. 1,628,748; May 17.
 Cultivator. G. W. Stitzenbauer. 1,625,834; Apr. 26.
 Cultivator. C. G. Strandlund. 1,626,215; Apr. 26.
 Cultivator. C. G. Strandlund. 1,644,042; Oct. 4.
 Cultivator. J. W. Walker. 1,632,638; June 14.
 Cultivator. J. D. Wright. 1,630,996; May 31.
 Cultivator. J. Yackley. 1,643,328; Sept. 27.
 Cultivator and weed cutter. Agricultural. C. J. Maheras. 1,640,786; Aug. 30.
 Cultivator attachment. J. S. Davis. 1,643,200; Sept. 20.
 Cultivator attachment. J. F. Gallup. 1,613,092; Jan. 4.
 Cultivator attachment. G. Hamersley. 1,616,417; Feb. 1.
 Cultivator attachment. O. J. Lewis. 1,639,777; Aug. 23.
 Cultivator attachment. H. S. Poston. 1,615,518; Jan. 25.
 Cultivator attachment. A. C. Rippey. 1,617,029; Feb. 8.
 Cultivator attachment. H. F. Westrick. 1,639,358; Aug. 16.
 Cultivator. Automatic rotary pulverizing. P. H. Mackie. 1,641,393; Sept. 6.
 Cultivator blade. A. L. Frieberg. 1,632,958; June 21.
 Cultivator blade. M. Ramsey. 1,641,050; Aug. 30.
 Cultivator. Cotton. C. Jones. 1,628,542; May 10.
 Cultivator. Disk. J. D. Johnson. 1,616,313; Feb. 1.
 Cultivator. Disk. R. Killefer. 1,619,208; Mar. 1.
 Cultivator. Disk. H. F. Towney. 1,627,356; May 3.
 Cultivator fender. G. E. Nix. 1,622,665; Mar. 29.
 Cultivator for eliminating quack grass. L. Leonard and R. J. Beise. 1,620,510; Mar. 8.
 Cultivator. Garden. L. J. Lindsay. 1,618,382; Feb. 22.
 Cultivator. Garden. S. W. Shaw. 1,625,829; Apr. 26.
 Cultivator hitch. Lister. I. B. Myers. 1,616,700; Feb. 8.
 Cultivator hopple. V. E. Penny and W. A. Reinke. 1,647,467; Nov. 1.
 Cultivator hopple. L. C. Summers. 1,644,757; Oct. 11.
 Cultivator. Motor. E. A. Keesse. 1,612,823; Jan. 4.
 Cultivator. Riding. S. H. Tiusman. 1,630,772; May 31.
 Cultivator. Seat-guide. J. P. Seaholm. 1,622,740; Mar. 29.
 Cultivator. Seat-guide. J. P. Seaholm. 1,628,435; May 10.
 Cultivator. Self-guiding and riding. A. L. Stewart. 1,626,888; May 3.
 Cultivator shield. E. E. Blume and C. Anderson. 1,630,415; May 31.
 Cultivator. Sled-riding. J. M. Burkhalter. 1,646,007; Oct. 18.
 Cultivator standard. G. O. Franke. 1,622,865; Mar. 29.
 Cultivator. Three-wheel riding. K. B. Rubins. 1,635,560; July 12.
 Cultivator-tool clamp. J. Spahn. 1,629,548; May 24.
 Cultivator tooth. H. L. Carr. 1,650,007; Nov. 22.
 Cultivator tooth. W. C. Warren. 1,622,619; Mar. 29.
 Cultivator tooth and sweep. Combined. P. Simons. 1,630,585; May 31.
 Cultivator. Tractor-drawn. F. T. Court and A. B. Walker. 1,648,639; Nov. 8.
 Cultivators. Attachment for. P. A. Caldwell. 1,633,394; June 21.
 Cultivators. Attachment for. J. B. Vaughan and J. Terrell. 1,627,298; May 3.
 Cultivators. Attachment for shovel. P. E. Dion. 1,636,219; July 19.
 Cultivators. Break-pin device for. C. G. Sigurd. 1,635,442; July 12.
 Cultivators. Elevating and depressing mechanism for. S. J. Dennis. 1,643,153; Sept. 30.
 Cultivators. Harrow attachment for. R. H. Kipp. 1,652,440; Dec. 13.
 Cultivators. Leaf-lifting device for riding. A. C. Dibble. 1,622,497; Mar. 29.
 Cultivators. Mulcher attachment for. W. T. Atchley. 1,633,449; June 21.
 Cultivators or harrows. Drag attachment for disk. J. D. Wiese. 1,626,572; Apr. 26.
 Cultivators. Plow-attaching device for. B. S. Davidson. 1,612,855; Jan. 4.
 Cultivators. Pulverizer attachment for. E. C. Baethe. 1,614,590; Jan. 13.
 Cultivators. Quick-adjusting fender or shield lifter attachment for. P. Towns. 1,625,292; Apr. 19.
 Cultivators. Shield-lifting mechanism for. A. Eichsteadt. 1,617,239; Feb. 8.
 Cultivators. Truck for disk. A. Wennndt. 1,619,904; Mar. 29.
 Culture containers. Closure for. D. M. Stump. 1,641,400; Sept. 6.
 Culture germs. Apparatus for propagation of. F. J. Matchette. 1,618,461; Feb. 22.
 Culvert. M. A. Quinn. 1,648,148; Nov. 8.
 Culvert. Corrugated-metal. A. S. Cushman. 1,652,703; Dec. 13.
 Culvert. Highway. H. L. Zander. 1,638,428; Aug. 9.
 Culverts. Flow-increasing attachment for. F. A. Nagler. 1,643,953; Oct. 4.
 Culverts. Head-wall structure for. A. F. Fischer. 1,620,089; Mar. 8.
 Cup. See.
 Gold-collecting cup. Milking cup.
 Grasse cup. Oil cup.
 Lubricant cup. Paper cup.
 Lubricating cup. Paper drinking cup.
 Lubricant-expressing cup. Shaving cup.
 Cup. J. Blainstein. 1,622,853; Mar. 29.
 Cup and making the same. Drinking. J. V. Weckbaugh. 1,654,490; Dec. 27.
 Cup and producing same. Electrically-heated. J. H. Karlson. 1,649,067; Nov. 15.
 Cup carton. Dispensing. C. F. Dawson and E. G. Wessman. 1,633,983; June 25.
 Cup dispenser. J. W. Anderson and W. B. Rice. 1,621,098; Mar. 15.
 Cup dispenser. W. B. Mangold. 1,622,597; Mar. 29.
 Cup dispenser. J. W. McCarthy. 1,623,353; Apr. 5.
 Cup dispenser. E. G. Wessman. 1,634,566; July 5.
 Cup. Filling machine. Paper. C. Barbieri. 1,623,329; Apr. 5.
 Cup-machine carton-loading attachment. C. Barbieri. 1,623,330; Apr. 5.
 Cup measure. H. A. O'Haver. 1,622,967; Mar. 29.
 Cup or similar article. G. R. Ahrendts. Des. 73,549; Oct. 4.
 Cup or similar article. S. W. Farber. Des. 73,029; July 12.

- Cup or similar article. U. Hagmann. Des. 73,607; Oct. 11.
- Cup or similar article. R. R. Kintz. Des. 72,901; June 21.
- Cup or similar article. F. Schmidt. Des. 72,281; Mar. 22.
- Cup or similar article. C. H. Walker. Des. 72,248; Mar. 15.
- Cups and the like. Device for handling. M. H. Eaton. 1,640,184; Aug. 23.
- Cups, Manufacture of paper. J. V. Weckbaugh. 1,646,802; Oct. 25.
- Cups, Process and apparatus for making. J. G. Norton. 1,623,197; Apr. 5.
- Capola charger. K. L. Friend. 1,618,181; Feb. 22.
- Capola charger. J. W. Moore and S. D. Moxley. 1,647,643; Nov. 1.
- Capola furnace. A. Poumay. 1,640,251; Aug. 23.
- Capolas and the like, Apparatus for charging. W. A. Griffin. 1,643,208; Sept. 20.
- Capolas, Process of and apparatus for operating. F. K. Vial and G. S. Evans. 1,627,536; May 3.
- Curb and gutter form. J. N. Heltzel. 1,637,998; Aug. 2.
- Curb and gutter form. R. M. Moss and O. B. Pullis. 1,615,178; Jan. 18.
- Curb inlet. D. G. Slee. 1,643,960; Oct. 4.
- Curbing section. C. P. Snell. Des. 72,289; Mar. 22.
- Curette. P. A. Currey. 1,640,113; Aug. 23.
- Curette. S. F. Robinson. 1,628,275; May 10.
- Curier and waver. Combination hair. J. S. Walton. 1,639,357; Aug. 16.
- Curier, Hair. S. Durnerin. 1,612,911; Jan. 4.
- Curier, Hair. E. O. Frederics. 1,650,012; Nov. 22.
- Curier, Hair. J. A. Hartvig and A. A. McLaurin. 1,640,893; Aug. 30.
- Curier, Hair. J. Kreisberg. 1,635,046; July 5.
- Curier, Hair. A. O'Brien. 1,612,983; Jan. 4.
- Curier, Hair. K. M. Stahl. 1,643,035; Sept. 20.
- Curier rod. Hair-waving. W. S. Lewis. 1,642,450; Sept. 13.
- Curier, Steam hair. F. C. Salisbury. 1,639,900; Aug. 23.
- Curier, Apparatus. Hair. P. Kunin and R. A. Olsen. 1,643,411; Sept. 27.
- Curling devices, Support for. W. G. Barnett. 1,649,145; Curling iron. M. F. Fitzgerald. 1,633,171; June 21.
- Curling iron. A. P. Kietz. 1,639,136; Aug. 16.
- Curling iron. R. B. Marcel. 1,622,584; Mar. 29.
- Curling iron. A. B. Pedersen. 1,618,306; Feb. 22.
- Curling iron. E. A. Rutenber. 1,630,766; May 31.
- Curling iron. A. T. Smith. 1,630,078; May 24.
- Curling iron. A. C. Veltan. 1,639,015; Aug. 16.
- Curling iron. W. H. Walker. 1,645,465; Oct. 11.
- Curling iron, Holder for a. J. R. McGranaghan. Des. 73,517; Oct. 11.
- Curling stick. J. Metz. 1,653,812; Dec. 27.
- Current accumulator battery, Anodic. G. Reinstrom. 1,653,731; Dec. 27.
- Current, Apparatus for varying the wave form of alternating. H. C. Snook. 1,653,881; Dec. 27.
- Current apparatus. Winding for alternating. M. A. Savage. 1,643,178; Sept. 20.
- Current-carrying device, Unidirectional. L. O. Grondahl. 1,640,835; Aug. 23.
- Current collector. J. and R. Lusse. 1,645,437; Oct. 11.
- Current controlling mechanism or switch, Automatic. E. J. Balluff. 1,641,146; Sept. 6.
- Current computer machine, Alternating. C. MacMillan. 1,622,596; Mar. 29.
- Current converter. E. von Lepel. 1,613,494; Jan. 4.
- Current cut-out device for polyphase circuits, Automatic alternating. M. N. Mikulic. 1,620,483; Mar. 8.
- Current from direct-current generators, Apparatus for controlling the flow of. S. W. Mann. 1,645,150; Oct. 11.
- Current generator, Continuous. T. C. Lennox. 1,635,000; July 5.
- Current generator, Continuous. E. Rosenberg. 1,650,851; Nov. 29.
- Current generator system, Direct. S. W. Mann. 1,645,149; Oct. 11.
- Current installations, Protective device for use in polyphase. R. Keller. 1,638,533; Aug. 9.
- Current-interrupting device. A. Herz. 1,637,810; Aug. 2.
- Current-limiting device. J. Slepian. 1,645,300; Oct. 11.
- Current meter. C. H. Au. 1,626,715; May 3.
- Current meter. C. H. Au. 1,644,005; Oct. 4.
- Current meter, Alternating. L. A. Paine. 1,624,178; Apr. 12.
- Current, Method and apparatus for conducting. K. H. Kingston and I. Langmuir. 1,648,183; Nov. 8.
- Current motor. J. H. Hardestie. 1,645,486; Oct. 11.
- Current motor. H. W. Robinson. 1,631,647; June 7.
- Current motor. C. Rugger. 1,653,970; Dec. 27.
- Current motor. A. Whittle. 1,627,589; May 10.
- Current motor, Accelerating alternating. E. L. Martin. 1,650,142; Nov. 22.
- Current motor, Alternating. C. Altwickler. 1,625,760; Dec. 27.
- Current motor, Alternating. S. R. Bergman. 1,622,567; Mar. 29.
- Current motor, Alternating. J. I. Hull. 1,634,944; July 5.
- Current motor, Alternating. K. Krauss. 1,630,390; May 31.
- Current motor, Alternating. C. W. Steen. 1,641,704; Sept. 6.
- Current motor, Alternating. C. A. M. Weber. 1,624,378; Apr. 12.
- Current motor, Alternating. H. Welschel. 1,614,092-3; Jan. 11.
- Current motor, Alternating. H. Weichsel. 1,643,327; Sept. 27.
- Current rectifier, Electric. S. Ruben. 1,649,741-4; Nov. 22.
- Current rectifying and controlling system. B. T. Umsted and E. N. Harris. 1,637,015; July 26.
- Current-regulating apparatus. M. Morrison. 1,628,678; May 17.
- Current relay, Alternating. D. Grimes. 1,621,533; Mar. 22.
- Current retarder. L. Jorgensen. 1,633,530; June 21.
- Current selector, Alternating. H. G. Dorsey. 1,637,442; Aug. 2.
- Current, Static converter of. P. M. R. Salles. 1,650,470; Nov. 15.
- Current supply means, Alternating. W. J. Shackelton. 1,654,097; Dec. 27.
- Current switch with electromagnetic and thermic release, Automatic excess. S. Ruppel. 1,641,201; Sept. 6.
- Current system, Remote-control carrier. E. F. Carter. 1,635,779; July 12.
- Current-theft indicator. O. Flener. 1,631,025; May 31.
- Current transformer, Continuous. T. C. Lennox. 1,635,002; July 5.
- Current transmission, Electric. A. M. Curtis. 1,646,811; Oct. 25.
- Current voltage, Arrangement for transforming direct. S. Saikawa. 1,626,097; Apr. 26.
- Currents, Apparatus for diminishing injurious earthing. J. Jonas. 1,647,869; Nov. 1.
- Currents, Apparatus for influencing alternating. L. Kuhn. 1,653,859; Dec. 27.
- Currents, Controlling alternating. E. F. W. Alexander. 1,634,970; July 5.
- Currents, Inductive limiting device for alternating. F. Remond. 1,642,343; Sept. 13.
- Currents, Method and apparatus for producing alternating. R. D. Fay and E. Wolf. 1,623,665; Apr. 5.
- Currier and roller, Automatic. E. Larson. 1,627,516; May 3.
- Curtain. M. Leslie. 1,619,945; Mar. 8.
- Curtain and awning rollers, Control for. H. Smith. 1,630,777; May 31.
- Curtain and drape fixture. H. Tielkemeyer. 1,630,549; May 31.
- Curtain and portière rod. J. H. Boye. Des. 73,891-4; Nov. 15.
- Curtain and shade bracket. O. Weresiuk. 1,617,039; Oct. 4.
- Curtain and shade holder and rod for use therewith, Combined. J. Rasp. 1,636,835; July 26.
- Curtain and shade holder, Combination. J. Donny. 1,623,578; Apr. 5.
- Curtain and shade roller, Combined. D. Montalbano. 1,627,022; Feb. 8.
- Curtain and shade support. F. F. Stos. 1,653,591; Dec. 20.
- Curtain, Automobile. W. H. Pritchett. 1,627,457; May 3.
- Curtain-bar support or the like. H. W. A. Lehnert. 1,613,000; Jan. 11.
- Curtain bracket. J. Colone. 1,626,186; Apr. 26.
- Curtain bracket. W. W. Huyser. 1,629,820; May 24.
- Curtain crane. A. Dlouhy. Des. 73,165-6; Aug. 2.
- Curtain-draping device. A. A. Moats. 1,637,704; Aug. 2.
- Curtain fastener. J. Vodicak. 1,629,603; May 24.
- Curtain, Fire-resisting. R. H. Greeger. 1,644,646; Oct. 4.
- Curtain fixture. W. C. Barrett. 1,619,456; Mar. 1.
- Curtain fixture. J. H. Boye. 1,630,778; May 31.
- Curtain fixture. J. S. Eagan. 1,621,243; Mar. 15.
- Curtain fixture. M. Krattli. 1,633,026; June 21.
- Curtain fixtures. Bracket and rod coupling for. J. H. Boye. 1,644,105; Oct. 4.
- Curtain fixtures, Bracket and rod coupling for. J. H. Boye. 1,649,214; Nov. 15.
- Curtain for vehicles, Slidable. F. G. Proctor. 1,618,022; Feb. 15.
- Curtain guide and support. Z. E. Russell. 1,646,493; Oct. 25.
- Curtain handle, Vestibule. P. G. Emery. 1,638,685; Aug. 9.
- Curtain hanger. J. P. Mahoney. 1,654,222; Dec. 27.
- Curtain hanger, Window. J. Witemann. 1,646,893; Oct. 25.
- Curtain holdback. F. A. Cokefear. 1,615,215; Jan. 25.
- Curtain holder. G. W. and D. S. Dover. 1,652,662; Dec. 13.
- Curtain-light apparatus. E. H. Wunst. 1,612,847; Jan. 4.
- Curtain or drapery holder. B. Kleinbamer. 1,654,002; Dec. 27.
- Curtain pole. J. O. Crawford. Des. 71,939; Feb. 1.
- Curtain-pole end. A. Dlouhy. Des. 72,004-5; Feb. 15.
- Curtain-pole end. A. Dlouhy. Des. 72,251; Mar. 22.
- Curtain-pole end. W. F. Hofmann. Des. 73,178-80; Aug. 2.
- Curtain-pole fixture. W. F. Hofmann. Des. 73,131; July 26.
- Curtain pull. C. W. Smith. 1,620,741; Mar. 15.
- Curtain rod. G. A. Booth. 1,639,551; Aug. 16.

- Curtain rod. J. H. Boye. 1,646,049; Oct. 18.
Curtain rod. E. M. Krist. 1,617,103; Feb. 8.
Curtain-rod bracket. A. C. Acker. 1,649,275; Nov. 15.
Curtain-rod bracket. J. H. Boye. 1,622,700; Mar. 29.
Curtain-rod bracket. J. N. Henry. 1,632,071; June 14.
Curtain-rod holder. O. Reinhardt. 1,646,360; Oct. 18.
Curtain rod or similar article. F. J. Whincap. Des. 73,679-80; Oct. 18.
Curtain rod or similar article. F. J. Whincap. Des. 73,727-8; Oct. 25.
Curtain stretcher. A. W. Knittel. 1,645,245; Oct. 11.
Curtain support. A. Foster. 1,648,171; Nov. 8.
Curtain supporting and operating apparatus. W. K. Brown. 1,649,215; Nov. 15.
Curtain-threading device. C. N. Hathaway. 1,628,667; May 17.
Curtain rods, Runner for. R. C. Johnson. 1,628,984; May 17.
Curtain, shade, and drapery support, Combined. A. Givens. 1,636,601; July 19.
Curtain sign exhibitor. A. G. and R. Mariolle. 1,617,307; Feb. 8.
Curtain stretcher. F. Bonswor. 1,621,765; Mar. 22.
Curtain stretcher. L. N. Bourdeau. 1,638,824; Aug. 16.
Curtain stretcher. M. Ellis. 1,617,750; Feb. 15.
Curtain stretcher. F. J. Thayer. 1,638,069; Aug. 9.
Curtain-stretcher clamp. C. G. Carlson. 1,632,995; June 21.
Curtain support. A. E. Robert. Re16,545; Feb. 8.
Curtain supporter. A. Monich. 1,631,219; June 7.
Curtain-supporting device. E. J. Vallen. 1,615,856; Feb. 1.
Curtain, Vehicle. J. L. Drohen. 1,637,297; July 26.
Curtain, Vehicle side. M. B. Harris. 1,638,334; Aug. 9.
Curtains. Actuating apparatus for theater. E. F. Allen. 1,651,985; Dec. 6.
Curtains and the like. Suspending and drawing. C. E. Stoer. 1,649,371; Nov. 15.
Curtains, Button or distance piece for supporting the run-
ner rails of. R. C. Johnson. 1,648,903; Nov. 15.
Curtains. Drawing and suspending. T. B. Bertuccioli. 1,652,656; Dec. 13.
Cushion. *See—*
Accelerator cushion. Pressure cushion.
Die cushion. Seat cushion.
Came-table cushion. Tire cushion.
Cushion adjuster. F. Kleinsmith. 1,643,715; Sept. 27.
Cushion connection for vehicle construction. C. F. Drumm and E. R. Gurney. 1,616,613; Feb. 8.
Cushion for chair rockers. V. Teel. 1,636,260; July 19.
Cushion, mattress and the like. Pneumatic. R. W. Sampson. 1,640,618; Aug. 30.
Cushion, mattress, seat, and bed. Spring. D. T. Owen and G. W. Lehmann. 1,637,584; Aug. 2.
Cushion rebound check. L. H. Oberreich. 1,636,386; July 19.
Cushion-spring connection. V. Massacese. 1,622,202; Mar. 22.
Cushion wheel. Pneumatic. J. B. Kerr and J. R. Young. 1,633,748; June 28.
Cushioning and filler-locking flat. L. Oxhandler. 1,626,870; May 3.
Cushions. Manufacturing fabric-covered. M. S. Lower. 1,645,248; Oct. 11.
Cushions or mattresses. Spring structure for. H. H. Knipper. 1,648,951; Nov. 15.
Cuspidor. A. F. Pieper. 1,649,183; Nov. 15.
Cuspidor. C. H. Thompson. 1,615,729; Jan. 25.
Cuspidor container. F. Huss. 1,638,441; Aug. 9.
Cuspidor cover. W. E. Brown. 1,624,824; Apr. 12.
Cuspidor or similar article. M. I. Goldsmith. Des. 71,911; Jan. 25.
Cuspidors. Trap for. A. F. Pieper. 1,649,182; Nov. 15.
Cuticle stick. A. Provost. 1,636,148; July 19.
Cutlery. H. E. Miller. 1,630,627; May 31.
Cutlery article. D. J. Giles. 1,633,753; June 28.
Cutlery cleaner. O. Thomaschewski. 1,646,887; Oct. 25.
Cut-off. C. R. Renehan. 1,619,956; Mar. 8.
Cut-off. Automatic. M. F. Hipps. 1,632,968; June 21.
Cut-off device for gas service. Safety. W. G. Slater. 1,615,776; Jan. 25.
Cut-off machine. Automatic U-bar. H. A. Palmer. Des. 73,948; Feb. 22.
Cut-off mechanism. G. B. Scheffey. 1,624,367; Apr. 12.
Cut-out. I. J. Olness. 1,628,738; May 17.
Cut-out. M. J. Sandin. 1,630,358; May 31.
Cut-out. P. Sorensen. 1,631,988; June 14.
Cut-out and fuse box. S. Bromberg. 1,613,437; Jan. 4.
Cut-out, Automatic. C. M. Starr. 1,628,330; May 10.
Cut-out. Electrical. H. V. M. Fell. 1,645,476; Oct. 11.
Cut-out for gas mains and the like. Safety. R. H. Shadrick. 1,648,662; Nov. 8.
Cut-out for heating circuits. Automatic. O. Pletscher, jr. 1,646,835; Oct. 25.
Cut-out sheets. Structure for feeding. W. H. Streepor. 1,644,849; Oct. 4.
Cut-out switch. Time-control. A. Plein and J. W. Hoffmann. 1,645,506; Nov. 8.
Cut-over and safety switch. Automatic. L. A. Brown. 1,652,194; Dec. 13.
Cutter. *See—*
Bolt cutter. Casing cutter.
Butter cutter. Cheese cutter.
Can-label cutter. Cigar cutter.
Carcass cutter. Coal cutter.
Cutter. *See—*
Core-tube cutter. Pile-wire cutter.
Double carving cutter. Potato cutter.
Dough cutter. Pulp-web cutter.
Drill cutter. Rope cutter.
Ensilage cutter. Rotary cutter.
Fodder cutter. Scoring cutter.
Food cutter. Screw cutter.
Glass cutter. Sheet-metal cutter.
Grass cutter. Spiral cutter.
Green-vegetable cutter. Stalk cutter.
Hair cutter. Strip cutter.
Ice-cream cutter. Tape cutter.
Lacing cutter. Thread and cord cutter.
Lenther-strip cutter. Thread cutter.
Lens cutter. Thong cutter.
Line cutter. Tile cutter.
Meat cutter. Twine and rope cutter.
Metal cutter. Valve-seat cutter.
Milling cutter. Vegetable cutter.
Molting cutter. Weed and grass cutter.
Nut and bolt cutter. Well-casing cutter.
Packing cutter. Windshield cutter.
Paper cutter. Wire cutter.
Pastry cutter. Wire-cable cutter.
Cutter. E. Curtner. 1,620,153; Mar. 8.
Cutter. W. S. Jones. 1,614,840; Jan. 18.
Cutter. G. Kernats. 1,642,372; Sept. 13.
Cutter. L. B. Larsen. 1,653,578; Dec. 20.
Cutter. J. D. Lasswell. 1,641,636; Sept. 6.
Cutter. D. P. Owens. 1,623,201; Apr. 5.
Cutter and grinder. Feed. W. E. Fritz. 1,634,026; June 23.
Cutter and peeler. Bark. J. Kero. 1,617,953; Feb. 15.
Cutter board. F. O. Spies. 1,616,600; Feb. 8.
Cutter for milk-bottle seal rings. A. C. Griscom. 1,625,603; Apr. 19.
Cutter head. E. E. Beaty. 1,636,403; July 19.
Cutter head. J. E. Coville. 1,639,488; Aug. 16.
Cutter head. J. A. Eden, jr. 1,639,024; Aug. 18.
Cutter head. F. T. Finchbaugh. 1,634,494; July 5.
Cutter head. T. H. Oppenheim and B. Selhorst. 1,639,807; Aug. 23.
Cutter head. T. H. Oppenheim and B. Selhorst. 1,648,422; Nov. 8.
Cutter head. C. Wolf. 1,629,760; May 24.
Cutter-head journal assembly. O. W. Webb. 1,612,998; Jan. 4.
Cutter holder. J. M. Redinger. 1,615,233; Jan. 25.
Cutter, mill, or the like. F. O. Carlson. 1,626,598; May 3.
Cutting and coating machine. H. H. Weaver and E. A. Bolen. 1,647,594; Nov. 1.
Cutting and creasing presses. Preparing make-ready on. D. J. Marlowe. 1,615,026; Jan. 18.
Cutting and work-treating machine. W. Mobus. 1,640,513; Aug. 30.
Cutting apparatus. F. Swickard. 1,649,002; Nov. 15.
Cutting board and guide. M. L. Kaplan. 1,619,940; Mar. 8.
Cutting compound distribution system. E. P. Bullard, jr. 1,635,702; July 12.
Cutting device. R. W. Donovan. 1,636,812; July 26.
Cutting device. L. N. Hampton. 1,632,004; June 14.
Cutting machine. A. A. Bels. or the like. Machine for. E. D. Putt and H. D. Stevens. 1,622,253; Mar. 22.
Cutting head. Rotary. T. C. Alfred. 1,628,870; May 17.
Cutting machine. W. H. Albee. 1,635,166; July 12.
Cutting machine. A. Bataille. 1,633,979; Dec. 27.
Cutting machine. F. Consoli. 1,645,181; Oct. 11.
Cutting machine. F. M. Furber. 1,650,119; Nov. 22.
Cutting machine. B. J. Gundlach. 1,653,563; Dec. 20.
Cutting machine. P. S. Mitts. 1,613,048; Jan. 4.
Cutting machine. P. Wolkogon-Wolynski. 1,633,755; June 28.
Cutting machine. Bias. J. W. Brundage. 1,635,531; July 12.
Cutting machine. Biscuit or like embossing and T. Vicars and E. L. Vicars. 1,627,679; May 10.
Cutting machine. Cloth. E. W. Hoosier. 1,644,381; Oct. 4.
Cutting machine. Cloth. M. G. Sackerman and I. E. Straub. 1,615,489; Mar. 22.
Cutting machine. Container. A. M. Ross. 1,649,194; Nov. 15.
Cutting machine. Flock. W. J. Decoteau. 1,634,741; July 5.
Cutting machine. Grass. H. A. T. Stokess. 1,649,868; Nov. 22.
Cutting machine. Portable cabbage. C. E. Smith and J. N. Karp. 1,638,416; Aug. 9.
Cutting machine. Wrapper. E. B. Wilhelm. 1,613,427; Jan. 4.
Cutting machines. Control mechanism for veneer. C. Straub. 1,615,489; Jan. 25.
Cutting mechanism. F. M. Hargrave. 1,644,553; Oct. 4.
Cutting mechanism. J. Holtzman. 1,649,957; Nov. 22.
Cutting mechanism. G. L. Taylor. 1,653,129; Dec. 20.
Cutting or trimming device. W. G. Rounds. 1,622,053; Mar. 22.
Cutting press. C. F. Parcher. 1,613,766; Jan. 11.
Cutting tip or the like. G. L. Walker. 1,624,377; Apr. 12.
Cutting tool. H. Goldblatt. 1,624,136; Apr. 12.
Cutting tool. C. E. Hamilton. 1,628,315; May 10.

- Cutting tool. J. H. Montstream. 1,631,641; June 7.
 Cutting tool. T. C. Porter. 1,613,480; Jan. 4.
 Cutting tool. T. C. Porter. 1,613,568; Jan. 4.
 Cutting tool. G. Tanguay. 1,625,838; Apr. 28.
 Cutting tool, Rotary. F. G. Echols. 1,623,953; Apr. 5.
 Cutting tools, Forming. A. W. Cochran. 1,631,623; June 7.
 Cutters, Device for stoning. C. C. Koehn. 1,613,174; Jan. 4.
 Cyanamide of manures containing soluble organic nitrogen, Manufacture from. J. Breslau and C. Goudet. 1,652,753; Dec. 13.
 Cyanamide, Producing aqueous solutions of free. A. M. Muckenfuss. 1,622,731; Mar. 29.
 Cyanide compound into ammonia, Converting. G. H. Buchanan and J. L. Osborne. 1,638,522; Aug. 9.
 Cyanide product, Calcium. R. W. Poindexter, jr. 1,652,909; Dec. 13.
 Cyanide solutions, Preparation of alkali-metal. K. Andrich. 1,615,208; Jan. 25.
 Cyanides from masses containing the same, Removing. C. B. Jacobs. 1,623,599; Apr. 5.
 Cyanides, Preparing alkali-metal. R. W. Poindexter, jr., and P. T. Dolley. 1,624,147; Apr. 12.
 Cyanides, Producing heavy metal. K. F. Cooper. 1,614,523; Jan. 18.
 Cyanoogen compounds, Preparation of. R. W. Poindexter and W. E. Olberg. 1,642,694; Sept. 20.
 Cyanoogen mercury compounds, Production of nuclear substitute aromatic. S. Klages. 1,618,095; Feb. 15.
 Cycle. M. E. Roe. 1,636,327; July 19.
 Cycle and like saddles, Manufacture of. H. and J. Jelley. 1,620,554; Mar. 8.
 Cycle and similar lamp brackets, Locking device for. W. H. Brecknell. 1,642,297; Sept. 18.
 Cycles and the like, Shock-absorbing device for the handle bars of. J. Johnson. 1,622,912; Mar. 29.
 Cycles, Free-wheel device and back-pedal brake for. K. Müller. 1,618,215; Feb. 22.
 Cyclohexyl phthalates and making same. E. B. Reid and R. L. Schwartz. 1,643,393; Sept. 27.
 Cyclohexyl resorcinol and making the same. M. Phillips. 1,650,036; Nov. 22.
 Cylinder and head construction. R. Schneider. 1,622,813; Mar. 29.
 Cylinder and lining construction. H. A. Gehres. 1,625,357; Apr. 19.
 Cylinder and plunger arrangement for high-pressure compressors. M. Riesner. 1,636,438; July 19.
 Cylinder and valve testing device. P. E. Thal. 1,649,994; Nov. 22.
 Cylinder cap, Ammonia. H. C. Bierman and G. W. Speirs. 1,627,371; May 3.
 Cylinder cock. J. J. Blunt. 1,628,024; May 10.
 Cylinder cock and drift valve, Manually controlled steam-operated. A. T. Kuehner. 1,629,037; May 17.
 Cylinder cock, Safety. M. R. Feeley, C. Stern, and R. W. Braden. 1,647,826; Nov. 1.
 Cylinder construction. F. Balzer. 1,622,275; Mar. 29.
 Cylinder construction. J. H. Skitt. 1,615,240; Jan. 25.
 Cylinder device, Brake. C. C. Farmer. 1,615,370; Jan. 25.
 Cylinder, Dobby. W. M. Wattle. 1,639,826; Aug. 23.
 Cylinder drainage and relief valve. F. C. Miller. 1,629,354; May 17.
 Cylinder gauge. C. C. Robbins. 1,619,370; Mar. 1.
 Cylinder gauge. R. J. Simpson. 1,625,401; Apr. 19.
 Cylinder gauge. L. C. Tingley. 1,619,771; Mar. 1.
 Cylinder gauge, Outside. W. Ames. 1,617,005; Feb. 8.
 Cylinder grinder, Internal. L. D. and R. M. Warwick and G. H. McKay. 1,630,353; May 31.
 Cylinder-head construction. C. Y. Knight. 1,650,363; Nov. 22.
 Cylinder head, High-power. O. F. Halbe. 1,645,423; Oct. 11.
 Cylinder, High-speed collecting. A. Zimniewicz. 1,643,481; Sept. 27.
 Cylinder-honing device. W. Johnson. 1,643,459; Sept. 27.
 Cylinder-jacketing process and apparatus. G. T. Voorhees. 1,635,749; Dec. 27.
 Cylinder lock. C. Ledin. 1,641,767; Sept. 6.
 Cylinder lock. M. C. Maxwell. 1,637,953; Aug. 2.
 Cylinder lock. J. J. Murphy. 1,629,172; May 17.
 Cylinder lock. S. C. Patterson. 1,652,953; Dec. 13.
 Cylinder lock, Pin-tumbler. W. Wolff. 1,650,564; Nov. 22.
 Cylinder lubrication. R. W. Davenport. 1,632,119; June 14.
 Cylinder, Shut-out. N. B. Hurd. 1,650,568; Nov. 22.
 Cylinder structure, Engine. A. Lleo and C. Baradat. 1,624,002; Apr. 12.
 Cylinder structure, Locomotive. L. W. Hance. 1,649,687; Nov. 15.
 Cylinder, Washing-machine. W. K. Howe. 1,635,578; July 12.
 Cylinders and the like and draining the same, Steam-heated. J. M. Arnot. 1,633,723; June 28.
 Cylinders and the like, Rope or belt drive for drying. J. O. 1,627,018; May 31.
 Cylinders, Breaking device for hollow. W. S. Piorce, jr. 1,630,759; May 31.
 Cylinders, Device for closing compressed or liquid gas. L. Lemolie. 1,632,447; June 14.
 Cylinders, Discharging device for rotary. A. C. Deer. 1,623,527; Apr. 5.
 Cylinders, Gripping member for. J. A. Steinmetz. 1,639,786; Aug. 23.
 Cylinders, Making air-cooled. H. M. Williams. 1,649,274; Nov. 15.
 Cylinders, Supporting rotary. L. I. Yeomans. 1,642,834; Sept. 20.
 Cylindrical drier. C. H. Crowell. 1,642,381; Sept. 13.
 Cylindrical formations or hollow bodies from veneer or thin sheet wood, Method of and apparatus for producing. G. Schiesinger. 1,645,936; Oct. 18.
 Cylindrical objects, Apparatus for printing. F. C. Howes and F. L. Savageau. 1,643,605; Sept. 27.
 Cymbals, Operating device for. W. D. Gladstone. 1,643,553; Sept. 27.
 D handle. C. L. Hertel. 1,642,994; Sept. 20.
 d. L-nerolidol, Manufacture of. L. Ruzicka. 1,644,546; Oct. 4.
 Dairy-equipment cleaner. B. F. Beatty. 1,627,824; May 10.
 Dairy-equipment cleaner. E. Shurts. 1,645,356; Oct. 11.
 Dairy machine. F. Kuchenmeister. 1,643,503; Sept. 27.
 Dams and headgate. D. C. McCandless. 1,645,913; Oct. 18.
 Dam gate operating apparatus. D. Dalin and J. B. C. Lockwood. 1,647,508; Nov. 1.
 Dam, River. J. M. L. A. Aubert. 1,624,571; Apr. 12.
 Damper. J. M. Fackler. 1,652,712; Dec. 13.
 Damper. O. Kelm. 1,648,182; Nov. 8.
 Damper, Air-cooled. J. E. Shook. 1,649,749; Nov. 15.
 Damper and the like, Heat-resisting. F. A. Fabrenwald. 1,629,689; May 24.
 Damper, Automatic. J. Beaulieu. 1,641,875; Sept. 6.
 Damper, Automatic. J. M. Fackler. 1,652,713; Dec. 13.
 Damper, Automatic. H. L. Fetterly. 1,652,710; Mar. 29.
 Damper, back-draft. I. D. Morgan. 1,652,790; Dec. 13.
 Damper construction. W. A. Schmidt. 1,634,559; July 5.
 Damper, Contact-spring vibration. G. R. Lum. 1,613,616; Jan. 11.
 Damper control, Thermostatic. S. F. Richards. 1,622,973; Mar. 29.
 Damper device, Furnace. J. Verba. 1,630,591; May 31.
 Damper, Dome. R. S. Sutton. 1,616,094; Feb. 1.
 Damper for ventilator openings. J. R. Replogle. 1,652,216; Dec. 13.
 Damper regulator. I. A. Backlund. 1,618,044; Feb. 15.
 Damper regulator. J. V. Giesler. 1,628,140; May 10.
 Damper regulator. J. L. Kimball. 1,649,707; Nov. 15.
 Damper regulator, Temperature. H. A. Thrush. 1,645,886; Oct. 18.
 Damper, Smoke. F. Baentsch and A. Stober. 1,618,905; Feb. 22.
 Damper, Stovepipe. J. Cowie. 1,627,013; May 3.
 Damper, Vibration. E. W. Kellogg. 1,614,393; Jan. 11.
 Damping device. W. E. Trumpler. 1,637,361; Aug. 2.
 Dandelion digger and puller. H. G. Davis. 1,619,850; Mar. 8.
 Danger signal. H. L. Goodnow. 1,615,621; Jan. 25.
 Danger signal. P. G. Myers. 1,615,310; Jan. 25.
 Dash and trouble light. A. L. Hallin. 1,630,843; May 31.
 Dash-board control. G. P. Long. 1,631,277; June 7.
 Dash control. A. R. Cooper. 1,637,737; Aug. 2.
 Dashpot-controlled switch. G. O. Wilms. 1,616,551; Feb. 15.
 Date indicator, Mechanical. T. G. Thörnblad. 1,649,142; Nov. 15.
 Date picker. L. C. De Forest. 1,622,309; Mar. 29.
 Date-recording instrument. J. R. Phelps. 1,652,324; Dec. 13.
 Davenport. M. D. Miesnor. 1,649,719; Nov. 15.
 Davenport, Bed. E. A. Velds. 1,625,437; Apr. 19.
 Davenport, Swinging. J. T. Atkinson. 1,650,178; Nov. 22.
 Davit. H. Fuller. 1,613,030; Jan. 4.
 Davit. B. M. Schauman. 1,640,671; Aug. 30.
 Dead-center device. J. H. Towers. 1,636,395; July 19.
 Dead-ending clamp. P. G. Fitzpatrick. 1,621,530; Mar. 22.
 Deaerating water. G. H. Gibson. 1,634,776; July 5.
 Deaerating. R. C. Jones. 1,622,283; Mar. 29.
 Deaerator. R. C. Jones. 1,654,280-2; Dec. 27.
 Deacomania transfer sheet. J. O. Hartz. Des. 72,152; Mar. 8.
 Decanter. A. S. Reese. Des. 74,073; Dec. 13.
 Decarbonizer. W. Davis. 1,622,705; Mar. 29.
 Decentrator, Circular. A. H. Stebbins. 1,650,726; Nov. 29.
 Decklid construction. W. Marshall. 1,649,607; Nov. 15.
 Deck screen, Multiple. H. S. Woodward. 1,639,678; Aug. 23.
 Decolorizing and clarifying agent. H. S. Christopher. 1,617,478; Feb. 15.
 Decolorizing medium, Absorbent. C. B. Davis. 1,618,149; Feb. 15.
 Decorated box. F. Eberhardt. Des. 73,400; Sept. 6.
 Decorated box. F. Eberhardt. Des. 73,971-2; Nov. 29.
 Decorating, Apparatus for. F. F. Conwill. 1,644,238; Oct. 18.
 Decorating celluloid article and decorated celluloid article. H. Manovill. 1,636,523; July 19.
 Decoration, Mural. R. M. Surphen. 1,627,214; May 8.
 Decoration, Table. G. Gerlinger. 1,631,631; June 7.
 Decorticate apparatus for the treatment of sisal and other fibrous leaves and stalks. J. Cook. 1,641,119; Aug. 30.

- Decorating device. E. Wiss. 1,613,149; Jan. 4.
Decoy. W. H. Matthai. 1,617,075; Feb. 8.
Decoy duck. J. V. Winter. 1,641,215; Sept. 6.
Decoy, Flying-duck. J. R. Gelsinger. 1,629,442; May 17.
Decoy for wild fowl and the like. G. Sinibaldi. 1,616,006; Feb. 1.
Decoys, Device and method for anchoring live. W. A. Gibbs. 1,617,153; Feb. 8.
Defect-removing and patch-cutting machine. M. E. Steger. 1,629,595; May 24.
Detector and light filter. W. G. Stein. 1,643,187; Sept. 20.
Deflector, Paper. L. R. Tufts. 1,635,197; July 12.
Deflector, Smoke. W. C. Crist. 1,636,217; July 19.
Defeculating and emulsifying, Apparatus for. E. A. Butler. 1,624,037; Apr. 12.
Degumming. L. N. Gillis. 1,619,111; Mar. 1.
Dehydrating unit. P. S. Moyer. 1,614,753; Jan. 18.
Dehydrator. C. G. Ronsheimer. 1,651,293; Nov. 29.
Dehydrator. E. L. Younger. 1,648,468; Nov. 8.
Dehydrator, Walnut. G. I. Bauer. 1,621,651; Mar. 22.
Delinter. J. E. Redus. 1,624,435; Apr. 5.
Delivery apparatus. A. M. Lee. 1,647,530; Nov. 1.
Demagnetizing mechanism. M. T. Ashe. 1,621,619; Mar. 22.
Demand meter. D. C. Davis. 1,632,120; June 14.
Demonstrating device. H. E. Lichtenstein. 1,632,302; June 14.
Demonstrating machine. P. W. Mowry. 1,638,406; Aug. 9.
Demountable rim. F. D. Allen. 1,631,906; June 7.
Demountable seat. H. C. McGregor and D. B. McGregor. 1,623,259; Apr. 5.
Demountable wheel. F. Felder. 1,653,264; Dec. 20.
Demountable wheel. A. C. Hynan. 1,649,349; Nov. 15.
Demountable wheel. C. G. Schenken. 1,651,105; Nov. 29.
Demountable wheel. J. F. Zeller. 1,637,003; Feb. 8.
Denatured ethyl-alcohol composition. E. B. Putt. 1,635,635; July 12.
Density meter, Gas-. J. W. McNairy. 1,648,693; Nov. 8.
Dental amalgamator. O. F. Hallum and A. Sletten. 1,613,847; Sept. 2.
Dental anastomosis. W. J. L. Pryor and C. G. Schuller. 1,615,034; Jan. 18.
Dental apparatus. E. S. Brothers. 1,620,990; Mar. 15.
Dental apparatus. A. D. Gritman. 1,646,749; Oct. 25.
Dental apparatus. L. C. Hickok. 1,613,659; Jan. 11.
Dental apparatus. A. F. Pieper. 1,626,689; May 3.
Dental apparatus. Pedestal for. O. H. and A. F. Pieper. Des. 71,944; Feb. 1.
Dental appliance. B. Joesch. 1,628,499; May 10.
Dental articulator. W. R. Badger. 1,639,626; Aug. 16.
Dental articulator. A. E. Brown. 1,654,453; Dec. 27.
Dental attachment. R. F. Stoeffer. 1,641,325; Jan. 11.
Dental attachments, Making. H. E. S. Chayes. 1,626,720; May 3.
Dental bridge. M. C. Lasky. 1,649,905; Nov. 22.
Dental bridgework, Removable locking. A. Moore. 1,645,340; Oct. 11.
Dental canals by suction, Arrangement for removing secretions from. R. Rust. 1,620,599; Mar. 8.
Dental case. R. M. Kerr. 1,623,793; Apr. 5.
Dental casting device. J. C. Shottom. 1,628,437; May 10.
Dental casting device. A. E. Veatch. 1,654,026; Dec. 27.
Dental casting flask. H. Spiro. 1,639,416; Aug. 16.
Dental casting machine. S. L. Jefferies. 1,653,911; Dec. 27.
Dental casting machine. H. W. Van Sieten. 1,616,601; Feb. 8.
Dental cement and making the same. P. Poetschke. 1,613,532; Jan. 4.
Dental chair. A. J. May. 1,642,258; Sept. 13.
Dental chairs, Restraining device for. T. A. Hart. 1,614,126; Jan. 11.
Dental chuck. W. F. Dunlop. 1,626,519; Apr. 26.
Dental cleansing device. A. B. Cough. 1,637,738; Aug. 2.
Dental compact. E. S. Tipton. 1,626,310; Apr. 26.
Dental cotton holder. R. J. Berkinshaw. 1,630,729; May 31.
Dental engine. A. F. Pieper. 1,649,181; Nov. 15.
Dental equipment stand, Base assembly for. R. C. Angell. Des. 72,785; June 7.
Dental facings. T. E. Dimelow. 1,634,612; July 5.
Dental fastening means. A. K. Simmons. 1,621,175; Mar. 15.
Dental flask. N. J. Delohl. 1,613,506; Jan. 4.
Dental flask. D. Folb. 1,639,404; Aug. 16.
Dental flask. M. D. King. 1,647,048; Oct. 25.
Dental floss holder. C. Kirley. 1,640,607; Aug. 30.
Dental floss holder. W. Miller. 1,644,390; Oct. 4.
Dental floss holder, Sanitary. F. J. Raycraft. 1,618,351; Feb. 22.
Dental forceps. P. B. J. Griveau. 1,636,861; July 26.
Dental grinding device and process. J. W. Needles. 1,636,321; July 19.
Dental hand piece. G. A. Terry. 1,638,175; Aug. 9.
Dental handpiece wrist-joint guard. G. A. Terry. 1,632,860; June 21.
Dental impression tray. G. H. Light. 1,634,717; July 5.
Dental impression tray. B. F. Sahr. 1,629,177; May 17.
Dental instrument. A. S. Wells. 1,639,914; Aug. 23.
Dental kit. A. De Lellis. 1,649,814; Nov. 22.
Dental light. J. A. Hand and C. R. Pelton. 1,642,367; Sept. 13.
Dental machinery. C. A. Priest. 1,635,766; July 12.
Dental marking device. J. M. Craigo. 1,629,861; May 24.
Dental matrix holder. D. R. Smith. 1,612,950; Jan. 4.
Dental mold trimmer. R. E. Irish. 1,617,623; Feb. 15.
Dental mold. J. Luks and J. M. Garnett. 1,639,262; Aug. 16.
Dental molding plate. S. Dobrik. 1,613,384; Jan. 4.
Dental mounds, Clamp for. W. J. Clark and W. M. Romine. 1,651,376; Feb. 8.
Dental mouth mirror and water syringe, Combined. M. W. Gaillard. 1,647,862; Nov. 1.
Dental parts and the like, Machine for casting. R. Y. Richmond. 1,644,543; Oct. 4.
Dental plate retainer. W. K. Badger. 1,619,647; Mar. 1.
Dental plates and preparing the same, Lining for. E. K. Peters. Re 16,754; Oct. 4.
Dental retainer. J. Homer. 1,622,910; Mar. 29.
Dental replacement, Predetermining. B. F. Stenz. 1,654,387; Dec. 27.
Dental surgery, Apparatus for. R. Niedermann. 1,614,760; Jan. 18.
Dental triturating appliance. M. M. House. 1,637,569; Aug. 2.
Dental unit. J. P. Clarke. 1,616,253; Feb. 1.
Dental unit. A. F. Pieper. 1,649,251; Nov. 15.
Dental vibratory matrix. T. Teragawa. 1,621,762; Mar. 22.
Dental vibratory matrix. T. Teragawa. 1,634,058-9; June 28.
Dental X-ray-film package. H. I. Marler. 1,631,497; June 7.
Dentifrice. R. H. Brownlee. 1,645,791-3; Oct. 18.
Dentifrice. R. H. Brownlee. 1,645,852; Oct. 18.
Dentifrice. W. P. Larson. 1,633,336; June 21.
Dentifrice. F. W. Nitaray, K. A. Bartlett, and F. F. Berg. 1,622,391; Mar. 29.
Dentifrice compound. W. Bruck. 1,643,618; Sept. 27.
Dentiphone for phonographic use. W. C. McClain. 1,612,872; Jan. 4.
Dentist's drill. J. S. Pecker. 1,626,754; May 3.
Dentist's furnace. R. M. White. 1,620,179; Mar. 8.
Denture. B. C. Scott. 1,626,761; May 3.
Denture, Artificial. L. E. Eaton. 1,649,517; Nov. 15.
Denture, Artificial. B. H. Eisenstein. 1,641,626; Sept. 6.
Denture, Artificial. F. H. Nies. 1,639,782; Aug. 23.
Denture attachment. I. Stern. 1,638,553; Aug. 9.
Denture attachment. I. Stern. 1,641,557; Sept. 6.
Denture grinder. R. H. Downing. 1,652,818; Dec. 13.
Denture, Removable. J. Goldfarb. 1,641,887; Sept. 6.
Dentures and the like, Manufacture of. A. L. Burlin. 1,615,212; Jan. 25.
Dentures in metal, Casting of. F. W. Nunn. 1,632,712; June 14.
Deodorant and insecticide, Solidified. E. E. Martin and H. W. Dietrich. 1,641,183; Sept. 6.
Deodorizing. S. M. Cadwell. 1,648,259; Nov. 8.
Deodorizing, cooling, and dehydrating fluids and apparatus therefor. H. L. Murray. 1,641,349; Sept. 6.
Deoxidizer. C. J. Rodman. 1,652,496; Dec. 13.
Dephlegmator, Process and apparatus of. J. D. Seguy. 1,623,136; Apr. 5.
Dephlegmator. J. A. Campbell. 1,622,703; Mar. 29.
Dephlegmator. R. G. Jones. 1,633,990; June 28.
Dephlator. H. Gernsbach. 1,620,539; Mar. 8.
Depth charge and like submarine explosive body. H. B. Pratt. 1,639,665; Aug. 23.
Depth-indicating device. H. W. King. 1,634,427; July 5.
Depth indicator. C. H. Page. 1,646,311; Oct. 18.
Derall, Portable. S. W. Hayes. 1,627,092; May 3.
Derraler. G. H. Frazier and A. E. Herrold. 1,643,376; Sept. 27.
Derriment brake. E. J. M. St. Jacques. 1,613,252; Jan. 4.
Derrick. F. D. Bearly. 1,645,980; Oct. 18.
Derrick. C. E. Ranney. 1,631,156; June 7.
Derrick for bunkers, Building. F. H. Gerdeman. 1,652,403; Feb. 13.
Derrick girls, Corner brace for tubular. C. J. Gougler. 1,643,887; Sept. 27.
Derrick, Hoisting. W. O. Bechman and F. G. Knudsen. 1,646,183; Oct. 18.
Derrick leg clamp, Sectional. W. F. Speakman and G. E. Crockett. 1,616,995; Feb. 8.
Derrick oil tower. J. W. Brown. 1,622,086; Mar. 22.
Derrick, Portable. J. Hansen. 1,653,432; Dec. 20.
Derrick, Revolving. J. W. Page. 1,627,249; May 3.
Derrick safety cage. M. Schwafel. 1,615,657; Jan. 25.
Derrick, Semiportable. M. J. Sassen. 1,650,656; Nov. 29.
Derrick-top assembly. C. W. Lynch. 1,636,522; July 19.
Derrick, Well. S. O. Hale. 1,648,268; Nov. 8.
Derricks, Bottom-leg construction for well. D. D. Wertzberger. 1,636,886; July 26.
Derricks, Girt brace for. C. J. Gougler. 1,643,888; Sept. 27.
Desiccator. G. B. Ridley. 1,619,765; Mar. 1.
Desiccator. G. B. Ridley. 1,620,289; Mar. 8.
Designation device. E. A. Reinke. 1,644,084; Oct. 4.
Designs, Forming. O. W. Judkins. 1,645,534; Oct. 18.
Designs, pictures, and the like, Method of and composition for transferring. H. J. Hurt. 1,629,165; May 17.
Designs to a surface, Applying. L. S. Rosener. 1,638,364; Aug. 9.

- Designs to textiles, Composition for transferring wall-paper, W. V. and I. M. MacGillivray, 1,652,949; Dec. 13.
- Desk, C. C. Fraser and J. A. Goss, 1,652,774; Dec. 13.
- Desk and file, Combination, J. A. Hughes, 1,640,277; Aug. 23.
- Desk and table, Combination, S. L. Murray, 1,645,769; Oct. 18.
- Desk appliance, J. Orth, 1,615,230; Jan. 25.
- Desk body, Spinnet, F. Schimmel, Des. 73,711; Oct. 25.
- Desk bumper device, A. S. Newton, 1,626,955; May 3.
- Desk, Child's, A. F. Perego, Des. 74,022; Dec. 6.
- Desk construction, J. A. Hughes, 1,621,324; Mar. 15.
- Desk construction, Metal, G. C. Brainerd, 1,649,805; Nov. 22.
- Desk for auction clerks, Portable, C. C. Carek, 1,613,440; Jan. 4.
- Desk or cabinet, Watchmaker's, A. S. Thompson, 1,643,101; Sept. 20.
- Desk and holder, W. C. Hlering, 1,637,485; Aug. 2.
- Desk, Portable, D. B. O'Kelly, 1,636,783; July 26.
- Desk-sanding machine, M. E. Johnson, 1,621,931; Mar. 22.
- Desk set, A. Cavallaro, Des. 74,096; Dec. 20.
- Desk set, M. Finstone, Des. 72,147; Mar. 8.
- Desk set, B. W. Hanle, 1,629,574; May 24.
- Desk set and pencil sharpener, K. A. Johnson, 1,627,705; May 10.
- Desk set, Boudoir, M. Finstone, Des. 71,786; Jan. 4.
- Desk set, Fountain pen, F. D. Hammons, 1,641,949; Sept. 6.
- Desk set, Pad-holding, M. Finstone, 1,648,545; Nov. 8.
- Desk sets, Swivel support for, M. Finstone, 1,648,544; Nov. 8.
- Desk stand and penholder, Combined, R. Back and G. A. Cooper, Des. 71,994; Feb. 15.
- Desk, Student's portable, S. J. Holderman and R. E. Cryder, 1,632,476; June 14.
- Desk, Leg construction for metal, P. M. Wege, 1,637,503; Aug. 2.
- Desulphurizing coal, water, or mixed gases for illuminating or heating, E. Raffoer, 1,624,625; Apr. 12.
- Detachable cap, Quick, A. E. Bronson, 1,637,332; Aug. 2.
- Detachable handle, G. Polhamus, 1,648,281; Nov. 8.
- Detecting and measuring the unevenness of a surface, Device for, H. Andrew, 1,633,841; June 28.
- Detector: See—
- Automobile-theft detector, Leak detector.
- Burglar detector, Track detector.
- Carbon-monoxide detector, Weft detector.
- Crystal detector.
- Detector, E. J. Haverstick, 1,630,383; May 31.
- Detector and clip, Crystal, J. Buchanan, 1,652,927; Dec. 13.
- Detector and controlling the same, E. L. Chaffee, 1,627,231; May 3.
- Detector switch, Paper break, H. Berglund, 1,641,658; Sept. 6.
- Detector tubes, Exhausting, R. T. St. James, 1,646,633; Oct. 25.
- Detectormeter, H. H. Duley, 1,633,930; June 28.
- Detervative compound, J. F. Moseley, 1,627,446; May 3.
- Detector-control mechanism, J. H. Hammond, jr., 1,623,475; Apr. 5.
- Detonator, High-explosive, A. Djidics, 1,617,675; Feb. 15.
- Detonator igniter terminals, Method and apparatus for stripping, J. M. Olin and J. B. Smith, 1,626,119; Apr. 26.
- Detonator igniter terminals, Method of and apparatus for forming, J. M. Olin, V. L. Davis, and J. B. Smith, 1,627,860; May 10.
- Detonator package, F. W. Olin, 1,631,756; June 7.
- Detonators, Method and apparatus for making igniter connections for, J. M. Olin, V. L. Davis, and J. B. Smith, 1,626,118; Apr. 26.
- Detonators, Testing of, L. Wohler, 1,615,606; Jan. 25.
- Device for correcting respiration, K. Härtl, 1,635,272; July 12.
- Device for determining a difference in length, H. Gerdlen, 1,644,333; Oct. 4.
- Device for protecting liquid containers from bursting, J. Vantier, 1,648,467; Nov. 8.
- Device for putting permanent waves in hair, J. D. Langdon, 1,642,251; Sept. 13.
- Device for regulating the advance of a band with reference to cinematographic apparatus controlling said band, C. E. B. Delcommune, 1,633,478; June 21.
- Device for retaining hernial supporting pads in place, J. G. Homan, Re16,792; Nov. 22.
- Device to hold a cow's tail, L. Andrzejewicz, 1,648,159; Nov. 8.
- Dextrose, Making, C. Copland, 1,652,898; Dec. 18.
- Dextrorse, Manufacture of large-grained, W. B. Newkirk, 1,640,717; Aug. 30.
- Di-acetylacetyl-arylenediamine and making same, A. Zitser and R. Schmitt, 1,634,090; June 28.
- Diagnostic analysis, W. Smith, 1,622,887; Mar. 29.
- Diagnostic apparatus, D. M. Ryan, 1,619,886; Mar. 8.
- Diagnostic instrument, H. L. De Zeng, 1,618,970-1; Mar. 1.
- Diagnostic instrument, H. L. De Zeng, 1,621,461; Mar. 15.
- Diagnostic instrument, H. L. De Zeng, 1,635,822; July 12.
- Diagnostic instrument, H. L. De Zeng, 1,638,986; Aug. 16.
- Diagnostic instrument, D. D. Evans, 1,648,939; Nov. 15.
- Diagram holder, H. Ruscher, 1,631,986; June 14.
- Dial, R. D. Kennedy, 1,646,408; Oct. 25.
- Dial, R. H. Langley, 1,631,687; June 7.
- Dial control, Illuminated, S. S. Shapiro, 1,639,618; Aug. 16.
- Dial gauge, W. B. Hughes, 1,617,485; Feb. 15.
- Dial, Illuminating, A. H. Grebe, 1,642,676-7; Sept. 20.
- Dial indicator, R. J. O. Simpson, 1,625,766; Apr. 19.
- Dial, scale and similar apparatus, E. Gase, 1,634,324; July 5.
- Dial-testing circuit, B. B. Miller, 1,624,422; Apr. 12.
- Dial, Vernier tuning, A. W. Franklin, 1,619,338; Mar. 1.
- Diamino-diaryl-urea, Manufacture of, F. Heinze, 1,617,947; Feb. 15.
- Diamond gauge, W. S. Myers, 1,616,060; Feb. 1.
- Diamond lap, E. Gauthier, 1,625,463; Apr. 19.
- Diamonds, Hand device for cutting and polishing, A. Anzelewitz, 1,636,671; July 19.
- Diaper, C. R. Hoyme, 1,649,958; Nov. 22.
- Diaphragm, A. Nyman, 1,633,950; June 28.
- Diaphragm, L. Schmidt, 1,646,261; Oct. 18.
- Diaphragm and making same, C. Messick, 1,645,110; Oct. 11.
- Diaphragm buffer mechanism, N. C. Thalheimer, 1,636,156; July 19.
- Diaphragm device, Flexible, C. C. Farmer, 1,626,673; May 8.
- Diaphragm face plates, Buffer mechanism for, A. E. Small, 1,653,069; Dec. 20.
- Diaphragm for light pressure, Sensitive, J. Ely, 1,630,292; May 31.
- Diaphragm for loud speakers, Utilizing fabric of aircraft as, J. M. Coburn and B. Knapp, 1,628,230; May 10.
- Diaphragm muffler, B. Q. Jones, 1,622,150; Mar. 22.
- Diaphragm, Nonresonant, E. Reisz, 1,637,243; July 26.
- Diaphragm, Pressure-responsive, H. Y. Norwood, 1,630,306; May 31.
- Diaphragm sounder, K. Wenz, 1,614,858; Jan. 18.
- Diaphragm structure, H. J. Waddell, 1,646,376; Oct. 18.
- Diaphragms, Apparatus for making conical, C. L. Farland and E. Ross, 1,641,327; Sept. 6.
- Diaphragms, Vibration modifier for, J. G. Nolen, 1,646,628; Oct. 25.
- Diaryston, Edin, Manufacture of, C. J. T. Cronshaw and W. J. S. Nanton, 1,639,724-5; Aug. 23.
- Diathermic apparatus, J. Pernet, 1,641,095; Aug. 30.
- Diathermic apparatus for treatment of internal organs adjacent to the rectum, D. B. Catlin, 1,614,875; Jan. 18.
- Diathermy device, F. H. Reijnders, 1,628,806; May 17.
- Diathermy ear applicator, J. D. Pollard, 1,623,552; Apr. 5.
- Diazo compound and making same, Stable, G. de Montmollin and G. Bonhöte, 1,629,906; May 24.
- Dibble, G. L. Ford, 1,624,488; Apr. 12.
- Dice box, L. Bonell, 1,629,142; May 17.
- Dice, Shaking or throwing device, W. H. Droge, 1,627,492; May 8.
- Dice-throwing machine, Casing for, W. D. Walker, Des. 73,626; Oct. 11.
- Dichroic inks, Production and utilization of, C. Blittinger, 1,629,250; May 17.
- Dieting machine or similar article, Casing for a, F. C. Hinckley, Des. 74,111; Dec. 20.
- Dieldiamid, Making, G. Barsky, 1,618,504; Feb. 22.
- Die: See—
- Brick die, Printing die.
- Embossing die, Quick-opening die.
- Flowerpot die, Thread-cutting die.
- Marking die, Wire-drawing die.
- Plate-sinking die.
- Die, G. A. Ackermann, 1,650,314; Nov. 22.
- Die, T. N. Aikens, 1,641,366; Sept. 6.
- Die, H. L. Glaze and G. C. Humphrey, 1,653,269; Dec. 20.
- Die, G. H. Miller, 1,625,131; Apr. 19.
- Die, W. H. Schneider, 1,617,547; Feb. 15.
- Die and ejector for making clay heating elements, W. B. Louthan, 1,648,649; Nov. 8.
- Die-casting apparatus, E. Hotter, 1,622,788; Mar. 29.
- Die-casting machine, W. F. Bailey, 1,654,157; Dec. 27.
- Die-casting machine, J. S. Gullborg, 1,637,566; Aug. 2.
- Die-casting machine, T. C. Korsmo, 1,627,784; May 10.
- Die-casting machine, T. C. Korsmo, 1,631,686; June 7.
- Die-casting machine, E. P. Pierce, 1,618,223; Feb. 22.
- Die-casting machine, G. A. Theobald and T. A. Olson, 1,645,167; Oct. 11.
- Die-casting machine, E. Thieslack, 1,638,717; Aug. 9.
- Die cushion, F. J. Rode, 1,626,051; Apr. 26.
- Die cushion, F. J. Rode, 1,644,086; Oct. 4.
- Die-cutting machine, J. C. Fletcher, 1,618,577; Jan. 4.
- Die-cutting wheel, R. H. Burgess, 1,650,425; Nov. 22.
- Die, Cancan, Automatic, H. L. Bryant, 1,649,284; Nov. 15.
- Die for hydraulic or steam pipe presses, T. A. Hibbins, 1,651,204; Nov. 29.
- Die for pipe-threading machines, Self-opening, F. M. Davis, 1,653,258; Dec. 20.
- Die head, C. W. Bettcher, 1,615,676; Jan. 25.

- Die head. W. A. Leonard. 1,617,854; Feb. 15.
 Die head. E. W. Mikaelson. 1,618,608; Feb. 22.
 Die head. H. T. Shearer. 1,631,556; June 7.
 Die head, Nonrotary self opening. A. F. Breitenstein and E. A. Bartelt. 1,643,832; Sept. 27.
 Die head, Self-opening. A. F. Breitenstein. 1,639,719; Aug. 23.
 Die head, Self-opening. R. M. Strickland. 1,639,712; Aug. 23.
 Die mechanism. E. N. Miller. 1,646,550; Oct. 25.
 Die mechanism. M. Schwartz. 1,616,659; June 14.
 Die mechanism. M. Schwartz. 1,613,961; Jan. 11.
 Die opening and closing mechanism. J. A. Kinney. 1,643,662; Sept. 27.
 Die plates, Guide for. C. H. Boyd. 1,613,980; Jan. 11.
 Die press. H. Greenberg. 1,629,288; May 17.
 Die press, Automatic. C. D. McDonald. 1,633,340; June 21.
 Die separating means. R. L. Wilcox. 1,622,936; Mar. 29.
 Diestock. I. W. Nonneman. 1,644,143; Oct. 4.
 Diestock. T. Petersen. 1,648,589; Nov. 8.
 Dies, Apparatus for treating. H. P. Arkema. 1,630,775; May 31.
 Dies for cutting paper figures, Making and holding. E. G. and R. C. Bates. 1,618,048; Feb. 15.
 Dies, Making. A. B. Braden. 1,624,920; Apr. 19.
 Dies, Manufacturing. F. Honig. 1,637,111; July 26.
 Dies, Method of and apparatus for making cutting. M. V. Preston. 1,647,415; Nov. 1.
 Dielectric carbon compounds by means of ionized gases, Bringing about physical and chemical changes in. H. R. Vogel. 1,621,143; Mar. 15.
 Differential. C. Andrade. 1,626,907; May 3.
 Differential. F. E. Crawford. 1,632,787; June 21.
 Differential. F. W. Seck. 1,626,120; Apr. 26.
 Differential drive. A. Loughheed. 1,625,264; Apr. 19.
 Differential driving mechanism. S. R. Dadds. 1,644,589; Apr. 12.
 Differential mechanism. O. E. Hunt. 1,616,627; Feb. 8.
 Differential mechanism. F. M. Lewis. 1,619,141; Mar. 1.
 Differential mechanism. M. B. Morgan. 1,641,190; Sept. 6.
 Differential transmission, Polypphase distant-control system for. E. Granat. 1,616,795; Feb. 8.
 Digester. C. Riddle. 1,639,613; Aug. 16.
 Digester: See—
 Grass digger. Posthole digger.
 Peanut and potato digger. Potato digger.
 Peanut digger.
 Digging apparatus. C. E. Payne. 1,647,840; Nov. 1.
 Digging device. J. Miotke. 1,653,777; Dec. 27.
 Digging machine, Ditch. J. S. Walch. 1,639,871; Aug. 23.
 Digging mechanism. Hole. J. O. Donnelly and F. D. Simminger. 1,643,549; Sept. 27.
 Dihydroxy perylene, Manufacturing. A. Zinke and A. Klingler. 1,629,194; May 17.
 Dike or revetment. A. W. Farney. 1,641,966; Sept. 13.
 Dilator. H. W. Naylor. 1,625,906; Apr. 26.
 Dilator. A. F. Reitz. 1,628,272; May 10.
 Dilator. A. F. Reitz. 1,629,119; May 17.
 Diluent separator. S. W. Briggs. 1,646,724; Oct. 25.
 Diluometer. C. M. Larson and C. L. Knopf. 1,635,553; July 12.
 Dimension gauge. H. Frauenthal. 1,625,462; Apr. 19.
 Dimensional figures from two-dimensional records of the same, Machine for producing three. H. M. Edmunds. 1,615,261; Jan. 25.
 Dimmer. H. K. Lorenzen. 1,645,654; Oct. 18.
 Dimmer glasses. J. L. Rollins. 1,650,236; Nov. 22.
 Dimmer switch. R. C. Bolton. 1,612,852; Jan. 4.
 Dimmer switch, Electrical. W. Row. 1,633,647; June 28.
 Dinitro-antraquinone, Making 2-7. B. Stein. 1,622,168; Mar. 22.
 Dinitro perylene quinone, Manufacturing. A. Zinke. 1,642,203; Sept. 13.
 Dinner plate or similar article, Decalcomania strip for. H. Habermann. Des. 73,657; Oct. 18.
 Dioxidiaminoarsenobenzene, Preparation of solutions of derivatives of. S. R. MacEwen. 1,615,989; Feb. 1.
 Diphenylhydrazine. W. Scott. 1,642,180; Sept. 13.
 Diphenylamine from smokeless powder, Removing. D. G. Butts. 1,650,689; Nov. 29.
 Dipper-door latching and unlatching means. J. A. Orndorff. 1,629,634; May 24.
 Dipper-front construction. W. M. Bager, W. Lehman, and F. C. Rubloff. 1,642,191; Sept. 13.
 Dipper tooth, Reversible joint. C. A. Fallander. 1,620,132; Mar. 8.
 Dipping apparatus. J. H. Theiss. 1,616,397; Feb. 1.
 Dipping machine, Automatic. S. S. Roby. 1,628,431; May 10.
 Direct mixer. F. and J. Dietrich and W. E. Miner. 1,631,584; June 7.
 Direct-return trap. E. C. Wiley. 1,638,900; Aug. 16.
 Direction and temperature indicating device. C. E. Swenson. 1,628,006; May 10.
 Direction, Finding. R. D. Fay. 1,619,017; Mar. 4.
 Direction finding and indicating system. F. A. Hubbard. 1,645,810; Oct. 18.
 Direction indicator. W. C. P. Baldwin. 1,633,303; June 21.
 Direction indicator. C. E. Blais. 1,650,595; Nov. 29.
 Direction indicator. G. A. Cummings. 1,638,579; Nov. 8.
 Direction indicator. A. Durehin. 1,632,437; June 14.
 Direction indicator. I. Edlund. 1,615,746; Jan. 25.
 Direction indicator. A. F. Haddad. 1,629,501; May 24.
 Direction indicator. C. H. Johnson. 1,630,014-15; May 24.
 Direction indicator. G. E. Metherell. 1,646,159; Oct. 18.
 Direction indicator. R. H. Morris. 1,641,774; Sept. 6.
 Direction indicator. W. J. Parks and L. B. Evans. 1,619,536; Mar. 1.
 Direction indicator. R. K. Pershad. 1,621,597; Mar. 22.
 Direction indicator. E. Petzold and M. Sönnel. 1,651,804; Dec. 6.
 Direction indicator. W. P. Wiemann. 1,622,895; Mar. 29.
 Direction indicator, Automobile. E. L. Crowell. 1,646,445; Oct. 25.
 Direction indicator for vehicles. A. Müller. 1,644,847; Oct. 11.
 Direction indicator for vehicles. J. S. Santiago. 1,645,454-8; Oct. 11.
 Direction indicator Motor-vehicle. A. J. Allard. 1,638,429; Aug. 9.
 Direction indicator, Vehicle. T. Laconi and A. Ferretti. 1,654,129; Dec. 27.
 Direction signal. L. E. Huber. 1,642,995; Sept. 20.
 Direction signal. D. H. Noyes. 1,647,051; Oct. 25.
 Direction signal. S. M. Terwilliger and W. T. Severer. 1,647,380; Nov. 1.
 Direction signal. J. R. West. 1,647,896; Nov. 1.
 Direction signal, Automobile. G. Schock. 1,621,338; Mar. 15.
 Direction signal, Automobile. J. S. Warbis. 1,654,060; Aug. 27.
 Directional signal. W. L. Carter. 1,613,931; Jan. 11.
 Directional signal. J. J. Caudle. 1,613,019; Jan. 4.
 Directory. E. E. Cowles. 1,637,685; Aug. 2.
 Directory. J. O'Leary. 1,616,464; Feb. 8.
 Directory rack. J. R. Dumont. 1,614,779; Jan. 18.
 Directory, Telephone. W. M. Clark. 1,650,430; Nov. 22.
 Dirigible. R. H. Upson. 1,648,630; Nov. 8.
 Dirigible balloon. F. H. Bassett. 1,633,238; June 21.
 Dirigible-light mounting. R. R. Freund. 1,631,480; June 7.
 Dirt collector, Centrifugal. S. L. Joiner. 1,637,257; July 26.
 Dirt conditioner. G. W. Stark. 1,650,400; Nov. 22.
 Disappearing seat. R. C. Matthews. 1,649,608; Nov. 15.
 Discharge bar for neutralizing static electricity. W. H. Chapman. 1,653,599; Dec. 20.
 Discharge from containers, Regulating. B. Bruhn. 1,640,528; Aug. 30.
 Discharge-gap device. J. L. McCoy. 1,649,035; Nov. 15.
 Discharge-pipe apparatus. J. Van Ackeren. 1,616,561; Feb. 8.
 Discharge unloader. S. B. Redfield. 1,637,875; Aug. 11.
 Disconnecting switch. H. J. Crabb. 1,633,979; June 28.
 Dish and cover, Combination. A. L. Alaj. 1,635,918; July 26.
 Dish, Covered. A. J. Bennett. Des. 71,821; Jan. 11.
 Dish, Covered. E. Magnusson. Des. 72,775; May 31.
 Dish, Covered. E. H. Sebring. Des. 72,114; Mar. 1.
 Dish, Covered. H. Witte. Des. 72,050; Feb. 15.
 Dish drainer. M. E. Hatcher. 1,622,909; Mar. 29.
 Dish drainer. P. J. Leonard. 1,617,064; Feb. 8.
 Dish, Drainer and tub cover, Combination. M. H. Rossner. 1,643,905; Sept. 27.
 Dish drier. A. G. Andrews. 1,646,179; Oct. 18.
 Dish, Fruit and nut. A. Abrahams. Des. 73,953; Nov. 29.
 Dish holder. H. Nias. Des. 71,884; Jan. 18.
 Dish mop and scraper, Combination. A. Sacks. 1,643,857; Sept. 27.
 Dish mounting. S. Foreman. Des. 72,010; Feb. 15.
 Dish or analogous article. R. Dimes, Jr. Des. 73,284; Aug. 23.
 Dish or analogous article. H. W. Thomas. Des. 72,641; May 10.
 Dish or similar article. G. N. Allen. Des. 73,634; Oct. 18.
 Dish or similar article. R. R. Kintz. Des. 72,898; June 21.
 Dish or similar article. E. Sainson. Des. 71,928; Jan. 25.
 Dish or similar article. F. Schmidt. Des. 72,777; Mar. 22.
 Dish or similar article. C. H. Walker. Des. 71,991; Feb. 8.
 Dish or similar article, Vegetable. J. Harrison. Des. 72,944; June 21.
 Dish, Paper. A. Moore. 1,627,050-1; May 3.
 Dish, Service. R. Haley. Des. 73,519; Sept. 27.
 Dish, Serving. F. Macy. 1,650,457; Nov. 22.
 Dish stand. E. Heloian. 1,643,450; Sept. 27.
 Dish and the like, Device for washing. J. T. McGrath. 1,642,932; Sept. 20.
 Dishes or similar articles, Border panel for metal. E. T. Beck. Des. 72,884; June 21.
 Dishes or similar articles, Side panel for metal. E. T. Beck. Des. 72,881-2; June 21.
 Dishwasher. F. G. Brotz. 1,651,083; Nov. 29.
 Dishwasher. E. Kraft. 1,653,577; Dec. 20.
 Dishwasher. C. M. Patterson. 1,651,045; May 31.
 Dishwasher. J. F. Matton. 1,623,203; Apr. 5.
 Dishwashing apparatus. J. Fassio. 1,646,142; Oct. 18.
 Dishwashing machine. G. P. Antstiss. 1,639,834; Aug. 23.
 Dishwashing machine. F. A. Ballin. 1,633,803; June 28.

- Dishwashing machine. P. E. Barker. 1,624,380; Apr. 12.
 Dishwashing machine. P. E. Barker. 1,624,461; Apr. 12.
 Dishwashing machine. G. S. Blakeslee. 1,619,230; Mar. 1.
 Dishwashing machine. H. Cave. 1,646,052; Oct. 18.
 Dishwashing machine. N. W. Cease. 1,645,227; Oct. 11.
 Dishwashing machine. D. X. Clarin. 1,633,395; June 21.
 Dishwashing machine. J. J. Gibney. 1,637,376; Oct. 2.
 Dishwashing machine. E. Gilbertson. 1,645,749; Aug. 18.
 Dishwashing machine. R. Harvey and A. P. Washlake. 1,623,182; Apr. 5.
 Dishwashing machine. A. G. Haskins. 1,632,182; June 14.
 Dishwashing machine. N. H. Henderson. 1,626,194; Apr. 26.
 Dishwashing machine. R. J. Irvin. 1,633,669; June 28.
 Dishwashing machine. M. J. Kehoe. 1,632,007; June 14.
 Dishwashing machine. T. J. and M. J. Kehoe. 1,631,968; June 14.
 Dishwashing machine. J. Knapp. 1,615,844; Feb. 1.
 Dishwashing machine. A. W. McQuaide. 1,654,466; Dec. 27.
 Dishwashing machine. R. B. Mitchell. 1,617,021; Feb. 8.
 Dishwashing machine. G. L. Olmurt. 1,638,549; Aug. 9.
 Dishwashing machine. J. J. Owens. 1,634,083; June 28.
 Dishwashing machine. G. Webb. 1,654,355; Dec. 27.
 Dishwashing machine. G. Wenzelmann and H. G. Paton. 1,647,420; Nov. 1.
 Dishwashing machine. F. A. Wilcox. 1,633,800; June 28.
 Dishwashing machine. C. L. Woodward. 1,630,684; May 31.
 Dishwashing machines, Rack for. G. S. Clarkson. 1,621,830; Mar. 22.
 Disinfectant and making same. M. Engelmann. 1,618,371-2; Feb. 22.
 Disinfectant composition. G. G. Gordon. 1,619,861; Mar. 8.
 Disinfecting agent. R. Lieske, W. Schulemann, and W. Bonrath. 1,640,901; Aug. 30.
 Disinfecting apparatus. M. Trootneff and J. Gromeko. 1,646,774; Oct. 25.
 Disinfecting composition. M. Engelmann and A. R. Albright. 1,618,369; Feb. 22.
 Disinfecting or cleansing spray for hygienic and medical purposes. Producing a. J. Freng and E. Bergeve. Re16,593; Apr. 19.
 Disintegrating machine. D. C. Addicks. 1,643,938; Oct. 4.
 Disintegrating mill. A. Leggemann. 1,647,183; Nov. 1.
 Disintegrating mill. D. Welsh. 1,647,275; Nov. 1.
 Disintegrator. G. W. Nelson. 1,628,419; May 10.
 Disk and method and apparatus for making the same. Spray. A. P. Keller. 1,633,531; June 21.
 Disk bit. W. S. Holdaway. 1,620,889; Mar. 15.
 Disk bit. Central-shank-reaming. F. W. Hild. 1,627,179; May 3.
 Disk boring tool, Rotary-. S. A. D. Cox. 1,618,270; Feb. 22.
 Disk brake. W. R. Hendrix. 1,652,130; Dec. 6.
 Disk brake. J. L. Price. 1,649,185; Nov. 15.
 Disk crusher. E. B. Symons. 1,616,240; Feb. 1.
 Disk cutters, Forming. W. T. Woods. 1,614,332; Jan. 11.
 Disk drill. Rotary. J. W. Loy. 1,646,620; Oct. 25.
 Disk drill. Rotary. W. J. Wilson and A. J. Carlton. 1,651,859; Dec. 6.
 Disk harrow. W. L. Paul. 1,639,104; Aug. 16.
 Disk, Prism-lens. C. F. Jenkins. Re16,789; Nov. 22.
 Disk, Thermostatic. O. A. Colby. 1,654,320; Dec. 27.
 Disk, Thermostatic. L. J. Greenawald. 1,654,519; Dec. 27.
 Disk wheel. G. H. Forsyth. 1,630,740; May 31.
 Disk wheel. G. H. Forsyth. 1,652,433; Dec. 13.
 Disk wheel. J. Klee. 1,651,715; Dec. 6.
 Disk wheel. T. E. Murray. 1,614,567; Jan. 18.
 Disk wheel. R. H. Pierce and G. A. Anderson. 1,643,172; Dec. 27.
 Disk wheel. F. C. Schoenthal. 1,640,378; Aug. 30.
 Disk wheel. F. C. Schoenthal. 1,652,735; Dec. 13.
 Disk wheel. D. M. White. 1,644,163; Oct. 4.
 Disk wheel. W. E. Williams. 1,617,978; Feb. 15.
 Disk Wheel, Automobile steel. W. E. Williams. 1,640,063; Aug. 23.
 Disk wheel, Demountable-rim. W. E. Williams. 1,650,781; Nov. 29.
 Disk wheel, Fabric. J. H. Doty. 1,631,928; June 7.
 Disk wheel, Wood. E. C. Sendelbach. 1,620,398; Mar. 8.
 Disk wheels, Carrier for spare. H. V. Ludwick. 1,619,026; Mar. 15.
 Disk wheels, Liftlike lever for. E. A. Nelson. 1,624,356; Apr. 12.
 Disk wheels, Machine for straightening. J. Bushek. 1,647,211; Nov. 1.
 Disklike element, Making an annular laminated. R. M. Peterson. 1,622,043; Mar. 22.
 Disks, Machine for trimming the edges of molded. C. B. Wells. 1,633,552; June 21.
 Disks, Manufacturing ball rolling. H. L. Heathcote. 1,624,597; Apr. 12.
 Disks, Mounting for. W. L. Paul. 1,641,688; Sept. 6.
 Disks, Roll for making tapered. J. W. Smith. 1,647,843; Nov. 1.
 Dislodging mechanism. N. D. Levin. 1,639,741; Aug. 23.
 Disodium phosphate, Manufacture of. H. E. Meyers. 1,648,656; Nov. 8.
 Dispatch carrier, Pneumatic-. E. C. Bengel. 1,645,495; Oct. 11.
 Dispatch carrier, Pneumatic-. J. G. Maclaren. 1,613,471; Jan. 4.
 Dispatch carriers, Closure device for pneumatic. W. H. Dinspel. 1,647,788; Nov. 1.
 Dispatch systems, Controlling apparatus for pneumatic-. J. T. Cowley. 1,615,932; Feb. 1.
 Dispatch systems, Power-control apparatus for pneumatic-. J. G. Maclaren. 1,625,903; Apr. 26.
 Dispatch systems, Power-control device for pneumatic-. J. T. Cowley. 1,619,707; Mar. 1.
 Dispatch systems, Pressure-control mechanism for pneumatic-. J. T. Cowley. 1,628,600; May 10.
 Dispatch-tube apparatus, Pneumatic-. J. G. Maclaren. 1,615,990; Feb. 1.
 Dispatch unit, Single-tube pneumatic. J. J. Stoetzel. 1,626,214; Apr. 26.
 Dispenser. H. D. Fiegel. 1,639,370; Aug. 16.
 Dispenser. E. S. Henson. 1,653,096; Dec. 20.
 Dispenser. C. T. Newton. 1,620,280; Mar. 8.
 Dispenser. S. J. Poplawski. 1,639,415; Aug. 16.
 Dispenser. W. G. Woods and N. T. Shaw. 1,649,435; Nov. 15.
 Dispenser, Automatic. H. G. Fittl. Re16,524; Jan. 4.
 Dispenser, Beverage. L. Loran. 1,623,544; Apr. 26.
 Dispenser box. W. A. Lorenz. 1,633,865; June 28.
 Dispenser, Perfume. P. F. W. Muller. 1,644,432; Oct. 4.
 Dispensing and advertising device. H. A. Jones. 1,625,944; Apr. 26.
 Dispensing and refrigerating apparatus, Bottle. D. V. Wright. 1,619,999; Mar. 8.
 Dispensing and weighing machine, Automatic. C. E. Gordon. 1,646,817; Oct. 25.
 Dispensing apparatus. G. A. Bannister. 1,650,179; Nov. 22.
 Dispensing apparatus. C. S. Choy. 1,653,430; Dec. 20.
 Dispensing apparatus. C. Hall. 1,642,300; Sept. 13.
 Dispensing apparatus. F. Huber. 1,639,564; Aug. 16.
 Dispensing apparatus. H. A. Niven. 1,642,623; Sept. 13.
 Dispensing apparatus. J. and H. J. Reuther. 1,633,287; June 21.
 Dispensing apparatus. S. Schreiber. 1,631,430; June 7.
 Dispensing apparatus and operating same. L. Rothschild and G. Clements. 1,641,783; Sept. 6.
 Dispensing apparatus, Beverage. J. M. Travis. 1,619,278; Mar. 1.
 Dispensing apparatus, Coin-controlled. J. McGranighan. 1,626,348; Apr. 26.
 Dispensing apparatus, Liquid-. G. Cippola. 1,614,344; Apr. 26.
 Dispensing apparatus, Lubricant-. E. W. Davis. 1,651,256; Nov. 29.
 Dispensing apparatus, Safety mechanism for. L. E. Baker. 1,634,817; July 5.
 Dispensing can. J. H. Miller. 1,638,778; Aug. 9.
 Dispensing container. R. Stewart. 1,619,770; Mar. 1.
 Dispensing container, Beverage. W. E. Leibing. Dec. 73,324; Aug. 23.
 Dispensing container for lubricating grease, etc. L. Ware. 1,625,968; Apr. 26.
 Dispensing containers, Closure for. F. McLaughlin. 1,614,077; Jan. 11.
 Dispensing device. W. F. Flisar. 1,651,687; Dec. 6.
 Dispensing device. G. A. Hultenius. 1,627,647; May 10.
 Dispensing device. G. Kirkegaard. 1,622,831; Mar. 29.
 Dispensing device. W. D. La Rue. 1,613,614; Jan. 11.
 Dispensing device. R. H. Little. 1,623,690; Apr. 5.
 Dispensing device. G. T. Lyons. 1,626,943; May 3.
 Dispensing device. L. Marchione. 1,637,951; Aug. 2.
 Dispensing device. R. J. Miele. 1,650,459; Nov. 22.
 Dispensing device. C. E. Page. 1,654,050; Dec. 27.
 Dispensing device. H. A. Perry and J. Millinore. 1,646,313; Oct. 18.
 Dispensing device. J. H. Pieper. 1,634,594; July 5.
 Dispensing device. N. C. Pike. 1,638,456; Aug. 9.
 Dispensing device. A. F. Routh. 1,618,731; Feb. 22.
 Dispensing device. J. J. Seelman. 1,623,708; Apr. 5.
 Dispensing device. E. Stebbings. 1,639,388; Aug. 16.
 Dispensing device. K. N. Vartabedian. 1,618,118; Feb. 15.
 Dispensing device. E. O. and R. M. Warwick. 1,620,178; Mar. 8.
 Dispensing device. G. H. Woods. A. B. Denison, and W. A. Wiley. 1,621,861; Mar. 22.
 Dispensing device, Article. J. C. Jensen and O. L. Miles. 1,620,766; Mar. 15.
 Dispensing device, Grease-. M. J. Morton. 1,652,318; Dec. 13.
 Dispensing device, Straw-. G. B. Shoun. 1,646,983; Oct. 25.
 Dispensing machine. A. F. Files. 1,625,461; Apr. 19.
 Dispensing machine. M. Goldman. 1,644,371; Oct. 4.
 Dispensing machine. S. Hanson. 1,633,207; June 21.
 Dispensing-machine case. P. R. Hoopes. Dec. 73,228; Aug. 9.
 Dispensing machine, Cup-. T. M. Prudden. 1,648,147; Nov. 8.
 Dispensing machine, Selective. W. C. Cutler. 1,619,293; Mar. 1.
 Dispensing machines, Coin-controlled actuating mechanism for. F. R. Oliver. 1,633,675; June 28.
 Dispensing material from rolls. Mechanism for. W. M. Wheldon. 1,625,179; Apr. 19.

- Dispensing mechanism, Seed. W. A. Van Brunt. 1,639,317; Aug. 16.
- Dispensing receptacle, A. Mosheim. 1,636,063; July 19.
- Dispensing service, J. A. Conques. 1,639,329; Aug. 16.
- Dispensing service, W. A. Seidemann. 1,627,870; May 10.
- Dispensing stand, G. H. Russell. 1,621,905; Mar. 22.
- Dispensing top, L. S. Burbank. 1,637,548; Aug. 2.
- Dispensing top for containers, S. Greenfield. 1,622,714; Mar. 29.
- Dispensing tube, S. J. Lewis. 1,622,526; Mar. 29.
- Dispensing-tube holder, B. F. Baker. 1,620,748; Mar. 15.
- Dispensing matter into finely-divided form, H. L. Glaze. 1,615,268; Apr. 19.
- Displacement-responsive device, E. E. Johnson. 1,620,465; Mar. 8.
- Display and vanity case, Combination. T. J. Lewis. 1,638,638; Aug. 9.
- Display and vending apparatus, C. E. Karst. 1,628,846; May 17.
- Display and vending device, Sanitary. C. L. Bell and M. S. Kessler. 1,628,673; May 24.
- Display apparatus, G. G. Beckhardt. 1,649,652; Nov. 15.
- Display apparatus, A. Bernstein. 1,622,409; Mar. 29.
- Display apparatus, M. R. Castille. 1,614,714; Jan. 18.
- Display apparatus, E. S. De Vries. 1,653,394; Dec. 20.
- Display apparatus, T. A. Lewis. 1,645,935; Oct. 11.
- Display apparatus, L. R. McDonald. 1,615,467; Jan. 25.
- Display apparatus, I. Schwartz. 1,648,827; Nov. 8.
- Display apparatus, Decorating changeable, A. Archipenko. 1,626,497; Apr. 26.
- Display background, M. S. Goldman and E. W. Huttig. 1,618,719; Mar. 1.
- Display block for mounting artificial teeth, J. A. Sanders. 1,634,687; July 5.
- Display board or similar article, S. H. Harris. Des. 73,128; July 26.
- Display box, E. E. Asplund. 1,640,870; Aug. 30.
- Display box, H. L. Baker. 1,631,080; May 31.
- Display box, L. A. Diebold. 1,646,902; Oct. 25.
- Display box, F. X. List. 1,622,284; Mar. 29.
- Display box, S. Moss. 1,641,861; S-pt. 6.
- Display box, L. D. Young. 1,653,595; Dec. 20.
- Display box and supporting element for suspenders, H. A. Peter. 1,654,435; July 5.
- Display box, Collapsible, L. Thompson. 1,614,811; Jan. 18.
- Display box, Merchandise, F. A. Portman. 1,639,750; Aug. 23.
- Display box, Paper, M. Hoge. 1,616,047; Feb. 1.
- Display bracket, W. F. Tritcher. 1,613,917; Jan. 11.
- Display card, E. A. Eallon, Jr. 1,617,743; Feb. 15.
- Display card, B. A. Fueglin. 1,636,991; July 26.
- Display card, C. Schrayshuen. 1,639,672; Aug. 23.
- Display card, M. Signer and E. M. Duckwall. Des. 73,713; Oct. 25.
- Display card for toilet-paper rolls, F. W. Hoefler. 1,632,478; June 14.
- Display card, Necktie, H. E. and W. E. Ulrich and R. Rietheimer. 1,644,963; Oct. 11.
- Display card, price ticket, and the like, W. H. Smedley. 1,646,263; Oct. 18.
- Display carton, Shoe, E. B. Loewenbach. 1,623,545; Apr. 5.
- Display case, J. Erdoes. 1,618,178; Feb. 22.
- Display case, W. T. Euenberg. 1,644,661; Oct. 11.
- Display case, T. L. Sopher. 1,633,461; June 20.
- Display case, H. Stelnruck. 1,640,583; Aug. 30.
- Display case, Advertising, C. D. Oversmith. Des. 71,886; Jan. 18.
- Display case, Biscuit, J. L. Emanuel and P. I. Jacoby. 1,617,799; Feb. 15.
- Display-case closure, A. G. Stephens. 1,643,632; Sept. 27.
- Display case, Handkerchief, R. W. Eldridge. 1,620,808; Mar. 15.
- Display case or roll for flat-metal tableware, L. Schaefer. 1,650,393; Nov. 22.
- Display case, Refrigerator, J. Acusro, jr. 1,612,790; Jan. 4.
- Display case, Refrigerator, E. F. Deacon. 1,639,841; Aug. 23.
- Display chest for silverware, A. L. Lietung. 1,631,780; June 7.
- Display container, W. E. Doughty. Des. 73,689; Oct. 25.
- Display container, H. A. Feigelman. 1,620,810; Mar. 15.
- Display container, E. E. Freeman. 1,622,194; Mar. 22.
- Display container, R. A. MacDougall. 1,641,293; Sept. 6.
- Display container, R. E. Myrick. 1,638,208; Aug. 9.
- Display container, J. Staubly. 1,628,439; May 10.
- Display container, A. J. Tanner. 1,618,707; Feb. 8.
- Display container, A. J. Tanner. 1,625,171; Apr. 19.
- Display container, A. J. Tanner. 1,647,820; Nov. 1.
- Display containers, Duplex closure for, H. Hermani. 1,620,156; Mar. 8.
- Display counter, Refrigerated, J. F. Barghausen. Re16,595; Apr. 10.
- Display cover, G. A. Taylor. 1,628,204; May 10.
- Display device, H. D. Andrews. 1,630,917; May 31.
- Display device, B. Barnett. 1,631,785; June 7.
- Display device, Z. D. Brumbaugh. Des. 73,399; Sept. 6.
- Display device, Z. D. Brumbaugh. 1,620,944; Mar. 15.
- Display device, B. E. Drake. 1,619,858; Mar. 1.
- Display device, G. F. Egan. 1,654,244-5; Dec. 27.
- Display device, F. G. Fullgraff. 1,620,533; Mar. 8.
- Display device, A. R. Griffes. 1,643,987; Nov. 15.
- Display device, J. F. Hohmann. 1,630,744; May 31.
- Display device, N. B. Holt. 1,626,037; Apr. 26.
- Display device, S. N. Hope. 1,642,497; Sept. 13.
- Display device, A. H. Kogge. 1,632,607; June 14.
- Display device, W. A. Leppke and J. H. Scharf. 1,624,741; Dec. 12.
- Display device, L. L. Molloy. 1,648,025; Nov. 8.
- Display device, P. H. Monarque. 1,651,536; Dec. 6.
- Display device, R. Paul. 1,652,636; Dec. 13.
- Display device, C. E. Preston. 1,632,504; June 14.
- Display device, A. J. Smith. 1,639,754; Aug. 23.
- Display device, J. Usoskin. 1,619,095; Mar. 1.
- Display device, T. L. Viscount. 1,633,177; Aug. 9.
- Display device, C. Vitolo. 1,618,539; Feb. 22.
- Display device, G. M. Wiley. 1,652,335; Dec. 13.
- Display device, Advertising, F. A. Reid. 1,624,507; Apr. 12.
- Display device, Animated, R. D. Greenawalt. 1,636,415; July 19.
- Display device, Automobile, J. de J. Santos. 1,617,724; Feb. 15.
- Display device for slippers, S. Horowitz. 1,635,673; July 12.
- Display device, Sample, F. Wolf. 1,644,318; Oct. 4.
- Display easel and tray, G. C. Gillan. 1,625,647; Apr. 19.
- Display fixture, F. Sobel. Des. 73,875-6; Nov. 15.
- Display fixtures or similar articles, Base for, H. Glaberman. Des. 73,908; Nov. 22.
- Display folder, R. F. Augur. 1,652,971; Dec. 13.
- Display form and making same, L. W. Reinhardt. Des. 73,921; Apr. 6.
- Display forins, Producing, O. G. Fuller. 1,613,989; Jan. 11.
- Display holder, L. Flier. 1,653,500; Dec. 20.
- Display holder, P. J. Knorrp. 1,622,726; Mar. 29.
- Display holder, T. J. Rabitzer. 1,642,086; Sept. 13.
- Display hook, W. F. Irish. 1,629,557; Mar. 22.
- Display package, F. G. Fisher. 1,633,779; June 28.
- Display package, J. N. Turner. 1,614,635; Jan. 18.
- Display pedestal, E. P. Seidel. Des. 72,242; Mar. 15.
- Display plaque and method of making, W. Van Diest. 1,620,046; Mar. 8.
- Display tableau, L. J. Buks. Des. 73,826; Nov. 15.
- Display rack, T. J. Abele. 1,620,313; Mar. 8.
- Display rack, C. Bell and M. S. Kessler. 1,635,201; July 12.
- Display rack, H. S. Best. 1,626,501; Apr. 26.
- Display rack, H. S. Best. 1,638,230; Aug. 9.
- Display rack, C. Denschke. 1,634,456; July 5.
- Display rack, H. Glaberman. 1,636,771; July 26.
- Display rack, C. C. Hammes. 1,621,465; Mar. 15.
- Display rack, J. H. Hoth. 1,619,420; Mar. 1.
- Display rack, N. Jensen. 1,625,544; Apr. 19.
- Display rack, G. Johansson. 1,637,573; Aug. 2.
- Display rack, W. Lewis. 1,637,578; Aug. 2.
- Display rack, B. B. Lowe. 1,633,041; Jan. 4.
- Display rack, R. B. Mitchell. 1,612,937; Jan. 4.
- Display rack, W. H. Stansfield. 1,634,804; July 5.
- Display rack, R. Warren. 1,619,900; Mar. 8.
- Display rack, C. E. Watson. Des. 72,537; Apr. 26.
- Display rack, C. Widen. 1,640,971; Aug. 30.
- Display rack, R. F. Williams. 1,620,148; Feb. 8.
- Display rack, R. C. Zirlinger. Des. 73,648,528; Nov. 8.
- Display rack, Cardboard, J. G. Pollock. 1,652,326; Dec. 13.
- Display rack, Foldable, E. M. Mullin. 1,654,088; Dec. 27.
- Display rack, Folding, W. H. Averill. 1,622,612; Mar. 29.
- Display rack for face powders, T. A. Hoops. 1,628,146; May 10.
- Display rack, Linoleum, H. F. Klein. 1,627,783; May 10.
- Display rack, Mattress, J. C. Jennings. 1,626,282; Apr. 26.
- Display sample device, F. J. Garrety. 1,627,281; May 8.
- Display sign, C. A. Fullerton. 1,615,449; Jan. 25.
- Display sign, J. Parkinson. 1,636,108; July 19.
- Display sign, Advertising, C. D. Winters. 1,621,096; Mar. 15.
- Display stand, H. Ackeret. 1,626,711; May 3.
- Display stand, L. L. Brown. 1,615,323; Jan. 25.
- Display stand, L. Cofar. 1,632,820; June 21.
- Display stand, A. Cossins. 1,626,330; Apr. 26.
- Display stand, J. R. Friedman. Des. 73,693; Oct. 25.
- Display stand, C. E. Hamlin. 1,651,523; Dec. 6.
- Display stand, R. B. Meier. 1,645,654; Nov. 8.
- Display stand, W. F. Meyers. 1,646,305; Oct. 18.
- Display stand, A. L. Hansen. Des. 71,940; Feb. 1.
- Display stand, A. L. Hansen. Des. 72,672; May 17.
- Display stand, A. Karnicker and G. Engel. 1,627,652; May 10.
- Display stand, W. E. Kehoe. Des. 73,230; Aug. 9.
- Display stand, J. B. Pontikis. 1,645,399; Oct. 11.
- Display stand, P. Stellmach. 1,644,359; Oct. 4.
- Display stand, J. Stranders. 1,625,436; Apr. 19.
- Display stand, C. F. Strunck. 1,630,870; May 31.
- Display stand, J. J. Vorzier. 1,618,027; Feb. 15.
- Display stand, L. J. Williams. 1,620,148; Mar. 8.
- Display stand, S. Wise. Des. 73,017; July 5.
- Display stand and carrying tray for articles of silver and the like, Combination, A. H. Vegkey. 1,635,911; July 12.

- Display stand, Jewelry-. M. Horn. 1,615,275; Jan. 25.
Display stand or similar article. B. F. Muldoon. Des. 73,412; Sept. 6.
Display stand, Rotatable. J. B. Vogler. 1,627,130; May 3.
Display stands or similar articles, Leg for. G. R. Wanler. Des. 71,857; Jan. 11.
Display support, Piece-goods. A. J. Dobbin. 1,617,070; Feb. 15.
Display support, Vending. E. O. Tinsley. 1,639,787; Aug. 23.
Display table. T. W. Timson. 1,644,289; Oct. 4.
Displaying and selling merchandise. W. P. Pitt. 1,631,905; Dec. 6.
Displaying device. H. H. Hendsch. 1,637,305; July 26.
Displaying device, Illuminated. S. Lubarsky. 1,648,772; Nov. 8.
Displaying information, advertisements, and the like, Apparatus for. E. Roscoe. 1,648,304; Nov. 8.
Disruptive effects, Method of and apparatus for obtaining. J. M. Sheedy and W. Myers. 1,631,290; June 7.
Distance by echo, Method and apparatus for determining. R. A. Fessenden. 1,636,502; July 19.
Distance control for movable parts. G. Piel, jr. 1,652,794; Dec. 13.
Distance finder. J. M. Washburn. 1,617,612; Feb. 15.
Distillation. D. M. Allard. 1,631,229; Mar. 15.
Distillation. J. S. Morgan. 1,622,964; Mar. 29.
Distillation and condensation, Apparatus and process for fractional. J. E. Bell. 1,619,396; Mar. 1.
Distillation apparatus. E. R. Hamilton. 1,614,791; Jan. 18.
Distillation apparatus. W. K. Lewis. 1,626,346; Dec. 26.
Distillation, Fractional. N. E. Loomis and W. K. Lewis. 1,646,610; Oct. 25.
Distillation process and apparatus, Fractional. H. Koppers. 1,646,698; Oct. 25.
Distilling and refluxing unit. H. H. Armstrong. 1,616,840; Feb. 8.
Distilling apparatus. W. E. Brown. 1,620,593; Mar. 8.
Distilling apparatus. J. H. Burlingham. 1,626,223; Apr. 26.
Distilling apparatus. E. V. Oliver. 1,625,222; Apr. 19.
Distilling materials. H. B. Cannon. 1,651,994; Dec. 6.
Distilling oil in presence of comminuted carbonaceous fuel. W. B. Tront. 1,641,305; Sept. 6.
Distributing block. H. J. Nanno. 1,618,021; Feb. 15.
Distributing device, Material-. F. C. Spencer. 1,641,300; Sept. 6.
Distributing plate, Multiple. B. P. Doppke. 1,615,168; Jan. 18.
Distributing switch. H. Sanner. 1,653,313; Dec. 20.
Distribution of intelligence, System of. L. M. Dieterich. 1,628,126; May 10.
Distribution system. E. F. W. Alexanderson. 1,620,506; Mar. 8.
Distribution system. R. D. Evans. 1,619,337; Mar. 1.
Distribution system. R. D. Evans. 1,651,449; Dec. 6.
Distribution, System of. T. F. Barton. 1,631,715; June 7.
Distribution, System of. C. L. Fortescue. 1,647,348; Nov. 1.
Distribution, System of. J. F. Peters. 1,640,125; Nov. 15.
Distributor and loader, Straw or fertilizer. W. E. Bruce. 1,614,870; Jan. 18.
Distributor heads, Cleaning device for. J. Stewart. 1,636,083; July 19.
Distributor mounting. B. H. Anibal. 1,631,185; June 7.
Ditch gate. P. Roots. 1,630,407; May 31.
Ditch maintenance. G. E. Kernes. 1,636,156; July 19.
Ditch-maintaining drag. D. Atkins, jr., F. O. Anderson, and E. E. Lindsey. 1,637,673; Aug. 2.
Ditching machine. J. G. Lindeman. 1,632,303; June 14.
Ditching machine. W. H. McDonald. 1,631,639; June 7.
Ditching machines, Digging member for. H. H. Barber. 1,623,957; Apr. 12.
Ditches, Machine for cutting and dredging. H. Kleinwort. 1,614,070; Jan. 11.
Diuretic product and making the same. P. Caccia. 1,617,701; Feb. 15.
Dividable box. F. H. Tanner. 1,654,225; Dec. 27.
Divider, Combination. A. Van Gale. 1,639,773; May 31.
Divider or caliper, Vernier. V. H. Gaa. 1,650,704; Nov. 29.
Dividing and spacing instrument. H. Adler. 1,624,031; Apr. 12.
Dividing board. W. S. Brown. 1,635,204; July 12.
Diving sinker for deep-sea angling. C. B. Sanford. 1,645,874; Oct. 18.
Dock. E. W. McCullers. 1,643,464; Sept. 27.
Dockage tester. C. W. Carter. 1,644,872; Oct. 11.
Docking apparatus. E. Johnson. 1,614,131; Jan. 11.
Document-binding clamp. S. J. Babian. 1,644,625; Oct. 4.
Documents, Aiding the sorting of. J. H. Fuller. 1,643,841; Sept. 27.
Dog races, Disappearing rabbit for. J. L. Shaughnessy. 1,628,518; May 10.
Dog-racing apparatus. A. V. Wilson and H. F. Wilson. 1,647,067; Oct. 25.
Dog whifflet. B. F. Pihla. 1,642,310; Sept. 13.
Dogging device. F. C. Sittkus. 1,616,876; Feb. 8.
Dolly or the like, Lace. S. N. Mallouk. Des. 72,219; Mar. 15.
Dolly or the like, Table. A. L. Ejik. Des. 73,650; Oct. 18.
Doll. M. S. Barnett. Des. 73,737; Nov. 1.
Doll. J. M. Bell. Des. 72,787; June 7.
Doll. W. Berndt. Des. 72,749; May 31.
Doll. J. A. Bolton. 1,630,240; May 24.
Doll. H. T. Chinn. 1,632,171; June 14.
Doll. H. Conzelmann. Des. 72,901; Feb. 15.
Doll. E. Goldberger. Des. 73,404; Sept. 6.
Doll. B. Goldenberg. 1,644,827; Oct. 11.
Doll. K. Knudsen. Des. 73,088; July 19.
Doll. E. Manuel. Des. 72,380; Apr. 5.
Doll. E. W. McCarroll. Des. 71,844; Jan. 11.
Doll. H. T. Payne. 1,615,401; Jan. 25.
Doll. G. A. Peters. Des. 72,527; Apr. 26.
Doll. G. D. Pullman. 1,617,498; Feb. 15.
Doll. C. Stein and W. M. Heller. Des. 72,640; May 10.
Doll. C. Stein and W. M. Heller. 1,651,738; Dec. 6.
Doll. E. H. Ufford. Des. 72,782; May 31.
Doll. C. F. Vogel. 1,640,260; Aug. 23.
Doll and toy nursing bottle, Combination. O. E. Dentelle. 1,616,845; Feb. 8.
Doll, Bouncing. J. H. O'Neill. 1,644,027; Oct. 4.
Doll eyes, Attaching. A. Konoff. 1,621,073; Mar. 15.
Doll eyes, Movable. C. Reinhardt and B. Pelz. 1,619,763; Mar. 1.
Doll made of fibrous materials. E. A. Francke. 1,612,805; Jan. 4.
Doll manufacture, Wig for. P. Harris. 1,628,591; May 10.
Doll, Musical. H. D. Du Bois. 1,621,157; Mar. 15.
Doll, Novelty. G. E. Austin. 1,619,393; Mar. 1.
Doll, similar article. J. G. Stokes. Des. 72,502; Apr. 19.
Doll, Paper. M. T. Basinger. 1,621,231; Mar. 15.
Doll, Poodle-dog. B. L. Henry. 1,634,189; June 28.
Doll, Radio speaking. N. C. Smith. 1,652,539; Dec. 13.
Doll, Smiling. P. J. Christensen. 1,618,671; Feb. 22.
Doll, Stuffed. S. A. Reichner. Des. 73,659; Oct. 18.
Doll, Talking. O. A. Garland. 1,622,441; Mar. 29.
Doll, Two-faced. G. J. Merseburger. 1,618,772; Feb. 22.
Doll with movable limbs. B. K. Christensen. 1,645,228; Oct. 11.
Dolls and other figure toys, Forming eye openings in the heads of. L. J. Grubman. 1,639,093; Aug. 16.
Dolls and parts thereof from cellulose derivatives, Manufacture of. A. Beyer. 1,645,275; Oct. 11.
Dolls, Attachable flexible upper eyelid for. P. D. Meiers. 1,648,418; Nov. 8.
Doll's eye with locking mechanism. W. Sörgel. 1,621,139; Mar. 15.
Doll's eyes with lashes. A. Konoff. 1,620,667; Mar. 15.
Doll's limb. I. A. Rommer. 1,621,434; Mar. 15.
Doll's rubber head. I. A. Rommer. 1,650,468; Nov. 22.
Dolls, Sleeping eye for rubber. A. Geisler. 1,652,777; Dec. 13.
Dolly and jack, Combination. G. F. Nash. 1,650,031; Nov. 22.
Dolly retainer. A. E. Peters. 1,653,968; Dec. 27.
Dome light. T. A. Galt. 1,651,592; Dec. 6.
Dome light. G. Graff. Des. 73,405; Sept. 6.
Domestic boiler. R. Kania. 1,616,050; Feb. 1.
Door. M. R. Guilbert, jr. 1,653,170; Dec. 20.
Door. A. Kirschbaum. 1,619,578; Mar. 1.
Door-actuating means, Garage-. T. McInerney. 1,619,654; July 5.
Door alarm. M. Glaus. 1,632,893; June 21.
Door and curtain. F. D. Ritter. 1,626,757; May 8.
Door and ladder structure, Silo. J. Cowin. 1,652,428; Dec. 13.
Door and mounting, Dumping. W. M. Sheehan. 1,628,922; May 17.
Door and operating mechanism therefor. A. Rush and R. H. Gregor. 1,629,973; May 24.
Door and operating mechanism therefor, Garage. C. G. Johnson. 1,621,669; Mar. 22.
Door and securing panels thereto, Automobile. W. S. Smith. 1,643,395; Sept. 27.
Door and step, Manually operable. H. Rowntree. 1,627,749; May 10.
Door and table, Combined. C. F. Berry. 1,632,268; June 14.
Door and the like holder. J. H. Bruhn and J. F. Becker. 1,615,357; Jan. 25.
Door and window screen catch and fastener. B. Moore. 1,629,725; May 24.
Doorbell and light-control switch. P. D. Monica. 1,647,708; Nov. 1.
Doorbell structure. G. S. Rest. 1,647,558; Nov. 1.
Door bolt. P. Lang. 1,622,791; Mar. 29.
Door brace. P. J. Piccirilli. 1,631,979-80; June 14.
Door buffer. C. J. Williams. 1,623,767; Apr. 5.
Door bumper. L. Covaleva. 1,628,826; May 17.
Door bumper. H. C. Maise. 1,627,190; May 8.
Door bumpers, Support for. H. C. Maise. 1,624,960; Apr. 19.
Door-butt gauge. T. P. Willoughby. 1,642,474; Sept. 13.
Door catch. K. H. Beck and E. H. Blackburn. 1,627,825; May 10.
Door catch. W. H. L. Delmer. 1,645,234; Oct. 11.
Door catch. G. A. Moon. 1,642,167; Sept. 13.
Door catch. A. W. Scott. 1,622,926; Mar. 29.

- Door catch, Clip. I. C. Larson, and G. S. Cooper. 1,636,697; July 26.
- Doorcheck. H. E. Anderson. 1,621,305; Mar. 15.
- Doorcheck. J. P. Brennan. 1,612,904; Jan. 4.
- Doorcheck. M. Brown. 1,636,549; July 19.
- Doorcheck. J. M. Conley. 1,649,339; Nov. 15.
- Doorcheck. F. K. Eastman. 1,646,680; Oct. 25.
- Doorcheck. A. F. Hickie. 1,624,836; Apr. 12.
- Doorcheck. P. H. Ripple. 1,629,120; May 17.
- Doorcheck strap. J. R. Gammeter. 1,619,067; Mar. 1.
- Door check and holder. M. D. Hildinger. 1,642,203; Sept. 13.
- Door checks and closers, Holder arm for. G. W. Isley. 1,646,406; Oct. 25.
- Door closer. T. Brady. 1,624,910; Apr. 19.
- Door closer. F. Hensel. 1,650,834; Nov. 29.
- Door closer. R. S. Potter. 1,629,963; May 24.
- Door closer. H. Schmidt. 1,632,924; June 21.
- Door closer. T. O. Schrader. 1,617,771; Feb. 15.
- Door closer. E. Stocker. 1,629,596; May 24.
- Door closer. E. L. Teich. 1,643,932; Sept. 27.
- Door closer, Spring. G. L. Sherwood. 1,652,643; Dec. 13.
- Door closing and check mechanism. W. W. Weeks. 1,646,045; Oct. 4.
- Door closing and locking means, Automatic. J. B. McCutchen. 1,621,847; Mar. 22.
- Door-closing device. W. G. Laird. 1,615,878; Feb. 1.
- Door-closing handle. W. M. Archibald. 1,629,195; May 17.
- Door-closing means, Check for garage. M. Kirnbauer. 1,620,109; Mar. 8.
- Door closure. T. Brady. 1,624,911; Apr. 19.
- Door, Colling. W. C. Grant, E. J. Thomas, and G. W. Drew. 1,621,717; Mar. 22.
- Door construction, Metal. E. V. Coulston. 1,623,334; Apr. 6.
- Door construction, Refrigerator. R. A. Riek. 1,654,094; Dec. 27.
- Door control. C. A. Hennicke. 1,640,989; Aug. 30.
- Door-control means. A. A. Nelson. 1,639,747; Aug. 23.
- Door-control mechanism. J. O. Neikirk. 1,643,081; Sept. 20.
- Door-control system. C. S. Klump. 1,636,746; July 26.
- Door, Dwelling incinerator. H. F. Fisher. 1,642,365; Sept. 13.
- Door, Elevator. W. G. Miller. 1,624,964; Apr. 19.
- Door fastener. J. A. Hicks. 1,647,226; Nov. 1.
- Door fastener. S. J. Small. 1,627,752; May 10.
- Door fastener. A. Zukor. 1,636,947; July 26.
- Door fastener, Automatic actuator for. W. B. Bolles. 1,646,990; Oct. 25.
- Door fastening. H. Sakalian. 1,645,352; Oct. 11.
- Door-fastening device, Railway-car. J. A. Hicks. 1,647,228; Nov. 1.
- Door, Fire. S. P. Smurr. 1,641,506; Sept. 6.
- Door, Fireproof dry-kln. D. D. Bundrick. 1,647,080; Oct. 25.
- Door, Folding. L. C. Thorne. 1,626,764; May 3.
- Door for automobile bodies. J. Ledwinka. 1,644,680; Oct. 11.
- Door for cottonseed boxes. C. B. Counts. 1,619,784; Mar. 1.
- Door for locomotive smoke boxes, Netting. B. H. Pedigo. 1,652,580; Dec. 13.
- Door for wash wheels, Supply. W. O. Olson. 1,635,141; July 5.
- Doorframe. A. Z. Johnson. 1,623,874; Apr. 5.
- Doorframe anchor. H. S. Scarth. 1,642,175; Sept. 13.
- Door, Freight-car. G. G. Gilpin. 1,649,582; Nov. 15.
- Door, furnace. H. H. Weiss. 1,645,171; Oct. 11.
- Door, Grain. C. B. Collins. 1,613,162; Jan. 4.
- Door, Grain. E. Dugaw. 1,628,958; May 17.
- Door, Grain. C. F. Morgan. 1,638,508; Aug. 9.
- Door, Grain-car. S. Deneka. 1,649,815; Nov. 22.
- Door, Grain-car. C. I. Twedt and M. Hegg. 1,630,680; May 31.
- Door, Granary. B. S. Badura. 1,627,548; May 10.
- Door guide. S. C. Evans. 1,654,163; Dec. 27.
- Door handle. B. J. Goldsmith. 1,633,177; June 21.
- Door handle. V. R. Shinkze. 1,634,342; July 5.
- Door handle, Making. J. Goodman. 1,626,278; Apr. 23.
- Door handle, Outside. F. E. Greene. Des. 73,256; Aug. 16.
- Door hanger. J. M. Crum. 1,647,610; Nov. 1.
- Door hanger. R. W. Disbro. 1,650,435; Nov. 22.
- Door hanger. G. H. Knight. 1,639,378; Aug. 16.
- Door hanger. M. A. Parsons. 1,640,250; Aug. 23.
- Door hanger. C. Schneider. 1,647,976; Nov. 1.
- Door hanger and track structure. N. B. Shelly. 1,622,400; Mar. 29.
- Door, Hatchway. G. W. Lyons. 1,647,836; Nov. 1.
- Door holder. L. J. Gingras and A. St. Ong. 1,626,810; May 3.
- Door holder. N. B. Hurd. 1,629,387; May 17.
- Door holder. F. Holder. Letz. 1,628,502; May 10.
- Door holder. M. F. Rettman. 1,650,654; Nov. 29.
- Door holder. I. W. Williams. 1,633,202; June 21.
- Door holder and check device, Combined. J. Deenihan. 1,621,974; Mar. 22.
- Door-holding attachment. H. L. Ferris. 1,636,468; July 19.
- Door-holding device. S. Fromath. 1,634,070; June 28.
- Door-holding device. C. B. Mitchell. 1,636,007; Apr. 20.
- Door-holding device. A. R. Nicolai. 1,618,348; Feb. 22.
- Door, Hopper. R. Metcalf and M. Jones. 1,625,671; Apr. 19.
- Door, Irrigation. S. A. Carlsson. 1,633,395; June 21.
- Door jamb, Adjustable. C. B. Ricken. 1,614,318; Jan. 11.
- Door knob. C. F. Rood. 1,630,032; May 24.
- Door-knob fastener. W. R. Schlage. 1,621,174; Mar. 15.
- Door knob or similar article. M. F. Camera. Des. 73,828; Nov. 15.
- Door-knob spindle. W. C. Werst. 1,623,324; Apr. 5.
- Door knobs and automobile handles, Protector for glass and metal. G. Jones. 1,633,988; June 28.
- Door knocker. E. M. Pickard. Des. 72,236; Mar. 15.
- Door knocker. M. M. Whitaker. Des. 72,420; Sept. 6.
- Door knocker or similar article. R. L. S. Doggett. Des. 72,060; Feb. 22.
- Door latches or the like, Handle for. G. Graff. Des. 73,429; Sept. 13.
- Door-latching device, Car. G. A. Hall. 1,626,834; May 8.
- Door lock. G. Diete. 1,613,023; Jan. 4.
- Door lock. F. J. Dowling. 1,623,579; Apr. 5.
- Door lock. S. Edelson. Des. 72,822; June 14.
- Door lock. S. Edelson. 1,653,157; Dec. 20.
- Door lock. J. P. Fredrick. 1,639,036; Aug. 16.
- Door lock. W. H. Hoffman. 1,655,714; July 12.
- Door lock. W. Marshall and F. Kiebler. 1,616,459; Feb. 8.
- Door lock. V. Peterson. 1,637,275; July 26.
- Door lock. J. C. Smith. 1,617,655; Feb. 15.
- Door lock. C. Thorne. 1,649,424; Nov. 15.
- Door lock and electric switch. C. Norton. 1,649,484; Nov. 15.
- Door lock, Automobile. M. D. Corell. 1,614,656; Jan. 18.
- Door lock, Car. T. W. Elder, Jr. 1,631,312; June 7.
- Door-lock construction. W. C. Devereaux. 1,643,764; Sept. 27.
- Door lock, Electric. H. B. Burr and M. A. Grieve. 1,635,028; July 5.
- Door-lock mechanism and burglar alarm, Combined. G. Jakopec and V. Schwarz. 1,639,565; Aug. 16.
- Door lock, Railway-car. J. A. Hicks. 1,647,225; Nov. 1.
- Door lock, Three-way. S. L. Ornoski. 1,637,127; July 26.
- Door locker. G. W. Brooks. 1,649,807; Nov. 22.
- Door locks and the like, Interlocking device for. L. C. Bush. 1,614,711; Jan. 18.
- Door mechanism. C. C. Tomkinson. 1,646,432; Oct. 25.
- Door mechanism, Oven. J. T. Hueckel. 1,640,036; Aug. 23.
- Door, Metal. A. J. Connell and J. Cohen. 1,618,814; Feb. 22.
- Door, Metal. E. H. Ellison and A. W. Beckstrom. 1,620,451; Mar. 8.
- Door, Metal. J. O. Nyman. 1,642,553; Sept. 13.
- Door, Metallic car. A. S. Barrows. 1,636,891; July 26.
- Door-morising machine. R. L. Carter. 1,621,061; Mar. 15.
- Door mounting, Furnace. D. S. Tewksbury and E. Newton. 1,631,840; June 7.
- Door mounting, Oven. S. H. Hobson. 1,634,358; July 5.
- Door operer. A. G. Rayburn. 1,617,864; Feb. 15.
- Door operer, Electric. C. A. Martindale. 1,630,127; May 24.
- Door opener, Garage. M. J. Lewis. 1,653,862; Dec. 27.
- Door opener, Safety electric. P. A. Caron. 1,638,240; Aug. 9.
- Door opening and closing apparatus, Electric. L. A. Philbin. 1,614,255; Jan. 11.
- Door opening and closing mechanism. J. A. Crewes. 1,621,459; Mar. 15.
- Door opening and closing mechanism, Sliding. N. C. Thalheimer. 1,649,626; Nov. 15.
- Door-opening device. W. G. Petersen. 1,634,233; June 28.
- Door-opening means, Garage. W. W. De Long. 1,617,796; Feb. 15.
- Door-opening mechanism. C. J. Carlisle. 1,622,088; Mar. 22.
- Door operating and locking device, Car. R. S. Smith. 1,643,352; Sept. 27.
- Door operating and sealing mechanism. G. Madland and W. W. Darrow. 1,654,180; Dec. 27.
- Door operating and supporting mechanism, Garage. J. P. Fredrick. 1,641,160; Sept. 6.
- Door-operating apparatus, Electrically-controlled. P. R. Forman. 1,623,173; Apr. 5.
- Door-operating apparatus, Emergency. F. Hedley and J. S. Doyle. 1,632,623; Dec. 13.
- Door-operating device. J. A. Luther. 1,636,674; July 19.
- Door-operating device, Automatic. J. Lemma. 1,654,334; Dec. 27.
- Door-operating device, Electromechanical. G. C. Webb. 1,642,317; Sept. 13.
- Door-operating device, Garage. D. E. Green. 1,614,789; Jan. 18.
- Door-operating means. C. A. Connelly. 1,641,067; Aug. 30.
- Door-operating means. T. Flemming. 1,639,130; Aug. 16.
- Door-operating means. H. W. Shonnard. 1,649,989; Nov. 22.
- Door-operating mechanism. F. P. Angell. 1,631,907; June 7.
- Door-operating mechanism. A. Campbell. 1,615,796; Jan. 25.

- Door-operating mechanism. P. R. Dobson. 1,650,332; Nov. 22.
- Door-operating mechanism. T. M. Ferguson. 1,625,250; Apr. 19.
- Door-operating mechanism. S. B. Haseltine. 1,631,127; June 7.
- Door-operating mechanism. M. Johnsen and F. C. Holling. 1,646,025; Oct. 18.
- Door-operating mechanism. F. R. Lemon. 1,632,237; June 14.
- Door-operating mechanism. F. R. Lemon. 1,635,758; July 12.
- Door-operating mechanism. J. L. Quinn. 1,622,394; Mar. 29.
- Door-operating mechanism. A. E. Thomas. 1,645,168; Oct. 11.
- Door-operating mechanism. R. C. Walter. 1,641,210; Sept. 6.
- Door-operating mechanism, Double-garage-. M. Maroney. 1,654,555; Nov. 8.
- Door-operating mechanism, Dump-. A. Campbell. 1,617,574; Feb. 15.
- Door-operating mechanism, Jail-. B. J. Hoppenjans. 1,617,950; Feb. 15.
- Door-operating mechanism, Jail-. M. J. Tracy. 1,643,248; Nov. 8.
- Door-operating mechanism, Lock for car-. A. Kassler. 1,631,321; June 7.
- Door-operating mechanism, Refrigerator-. S. B. Haseltine. 1,648,305; Nov. 8.
- Door-operating mechanism, Refrigerator-car-. J. F. O'Connor. 1,640,213; Aug. 22.
- Door-operating system for one-man cars. P. R. Forman. 1,623,174; Apr. 5.
- Door operator. I. F. Keisling. 1,632,028; June 14.
- Door operator. J. F. O'Connor. 1,616,755; Feb. 8.
- Door or window screen. J. R. Brewer. 1,615,739; Jan. 25.
- Door or window screen. M. Zecchino. 1,634,312; July 5.
- Door, Oven. F. A. Gerlich and J. B. Gardner. 1,652,008; Dec. 6.
- Door, Oven. M. A. Possons. 1,643,283; Sept. 20.
- Door, Oven. H. M. White. 1,632,719; June 14.
- Door panel, Movable. H. P. Stevens. 1,627,579; May 10.
- Door-pocket strap. W. S. Turner. 1,616,009; Feb. 1.
- Door protector and gang board, Inside-. C. E. Cannaday. 1,623,776; Apr. 5.
- Door, Refrigerator. W. H. Whittier. 1,630,100; May 24.
- Door, Screen. H. A. Hansen. 1,653,274; Dec. 20.
- Door seal, Car-. S. K. Wood. 1,653,079; Dec. 20.
- Door-securing means, Car-. F. J. Novak and F. J. Cisek. 1,628,904; May 17.
- Door, Service. A. R. Rossman. 1,626,157; Apr. 28.
- Door shaft-operating means. Dump-. A. Campbell. 1,617,578; Feb. 15.
- Door, Steel. A. Washberg and W. W. Darrow. 1,627,216; May 8.
- Doorstop. K. Kroehling. 1,616,265; Feb. 1.
- Doorstop. C. C. Read. 1,634,886; July 5.
- Doorstop. A. Rickenbacher. 1,613,806; Jan. 11.
- Doorstop. G. W. Wells. 1,618,250; Feb. 22.
- Door stop and catch device, Combination. S. B. Haseltine. 1,640,035; Aug. 23.
- Door stop and holder. W. P. Doolittle. 1,645,186; Oct. 11.
- Door structure. J. H. Rowley. 1,624,760; Apr. 12.
- Door structure, Furnace-. A. S. McCleave. 1,645,764; Oct. 18.
- Door supporting and raising means. A. Campbell. 1,615,797; Jan. 25.
- Door, Vehicle-operated garage. H. H. Wolff. 1,613,973; Jan. 11.
- Door-window finish-strip assembly. W. Marshall. 1,630,534; May 31.
- Door, Wooden panel. J. C. De Penning. 1,635,466; July 12.
- Doors and other movable elements, Lock hinge for. A. J. Walters. 1,616,671; July 12.
- Doors and the like, Adjusting device for. L. G. Priskey. 1,637,655; Aug. 2.
- Doors and windows, Hinge for. K. Klobn. 1,614,071; Jan. 11.
- Doors, Automatic catch for garage. F. M. Brown. 1,644,868; Jan. 18.
- Doors, Auxiliary fastener for. P. Belvin. 1,635,920; July 12.
- Doors, Control mechanism for. E. B. Smith. 1,646,460; Oct. 25.
- Doors, Control mechanism for motor-actuated. F. Hedley and J. S. Doyle. 1,634,665; July 5.
- Doors, Control system for coiling. J. F. Winn, Jr. 1,649,797; Nov. 15.
- Doors, Device for facilitating the fitting and hanging of. G. Hobbisiefken. 1,620,971; Mar. 15.
- Doors, Device for opening and closing garage. E. S. Hall. 1,651,698; Dec. 6.
- Doors, Draft and rain excluder attachment for. R. Bingham. 1,630,821; May 31.
- Doors, Electric interlock for elevator. R. S. Peelle. 1,623,267; Apr. 5.
- Doors, Electromechanical bar interlock for elevator. P. Lang. 1,615,090; Jan. 18.
- Doors, Finger guard for foldable bus. C. J. Kuhu. 1,626,844; May 3.
- Doors, gates, etc., Bolt for. D. Booth. 1,646,136; Oct. 18.
- Doors, Hinge construction for. W. Marshall. 1,654,426; Dec. 27.
- Doors, Hinge for. C. V. Hill. 1,627,329; May 3.
- Doors, Latch device for refrigerator. T. O. Schrader. 1,642,512; Sept. 18.
- Doors, Lever-control bolt for. J. Pokorney. 1,628,473; May 10.
- Doors, Lock for elevator. C. J. Anderson. 1,615,607; Jan. 18.
- Doors, Lock for hotel-guest-room. E. S. B. Smith. 1,642,313; Sept. 18.
- Doors, Making wooden. J. C. De Penning. 1,645,692; Oct. 18.
- Doors, Means for excluding draughts from under. W. Scott and S. D. Marjoribanks. 1,643,332; Sept. 20.
- Doors of railway coaches, System for operating the exit and trap. H. Rowntree and R. D. Conklin. 1,623,556; Apr. 5.
- Doors of tramway or like vehicles, Apparatus for operating and controlling the. H. R. Hockley. 1,644,380; Oct. 4.
- Door-Operating mechanism for shaft. F. A. Boedtker. 1,620,450; Mar. 8.
- Doors, Roller bearing for sliding. L. Suter. 1,619,443; Mar. 1.
- Doors, Safety device for safe. D. E. Hunter. 1,613,755; Jan. 11.
- Door, Screen and seal for automobile. M. H. Rogers. 1,651,889; Dec. 6.
- Doors, Starting and closing means for. S. F. Kloba. 1,651,064; Nov. 29.
- Doors, Support for folding. J. C. Koop. 1,637,194; July 26.
- Doors, Turnstiles, and the like, Utilizing the surplus energy exerted in operating revolving. B. B. Bryan, Jr. 1,624,656; Apr. 12.
- Doors, walls, or other parts of buildings, Receiving apparatus for attachment to house. S. Hole. 1,643,639; Sept. 27.
- Doors, windows, and the like, Control for swinging. A. V. Neitzel and H. N. Holm. 1,612,939; Jan. 4.
- Doors, windows, and the like, Hollow frame bar for. H. S. Kellander and J. T. Isaacson. 1,644,531; Oct. 4.
- Dosing flask. J. A. Ferdinand. 1,641,328; Sept. 6.
- Double-acting trap. C. F. King. 1,623,841; Apr. 5.
- Double-carving cutter. J. Dumont. 1,630,173; May 24.
- Double-curling device. W. W. Blakely. 1,630,520; May 31.
- Double-throw switch. M. Guett. 1,634,185; June 28.
- Double-wall conductor pipe. C. J. Holub. 1,652,827; Dec. 13.
- Double wrench. M. J. Tully. 1,629,895; May 24.
- Doubling and twisting machines, Attachment for silk. M. Kuffer. 1,623,685; Apr. 5.
- Douche means. A. Bouchery. 1,652,889; Dec. 13.
- Dough-conditioning machine. A. Benz, Jr. 1,643,366; Sept. 27.
- Dough cutter. W. W. Stauffer. 1,618,685; Feb. 22.
- Dough-depositing machine. A. W. Copland. 1,624,316; Apr. 12.
- Dough divider, Coffee ring. A. Oertel. 1,629,295; May 17.
- Dough-dividing machine. C. Dorn. 1,619,104; Mar. 1.
- Dough-forming machine. J. A. Cozzone. 1,653,036; Dec. 20.
- Dough layer, Packaged unbaked. M. I. Byrnes. 1,642,804; Sept. 20.
- Dough mixing and conditioning machine. F. X. and E. J. Lauterbur. 1,651,092; Nov. 29.
- Dough molder. W. G. Kirchhoff. 1,620,559; Mar. 8.
- Dough molder. F. H. Van Houten. 1,631,992; June 14.
- Dough-molding machine. H. F. Johnson. 1,653,211; Dec. 20.
- Dough moulders, Extender attachment for. E. T. Farson. 1,642,693; Sept. 20.
- Dough machine and the like. C. E. Carpenter. 1,641,118; Aug. 30.
- Doughnut machine, Greaseless. J. A. Burrichter. 1,632,115; June 14.
- Dough, Producing commercial baking. D. S. Donovan and J. R. Brown. 1,617,514; Feb. 15.
- Dough products, Producing leavened. T. B. Wagner and C. A. Glabau. 1,649,144; Nov. 15.
- Dough raiser. W. J. Loudenslager. 1,625,036; Apr. 19.
- Dough-rolling machine. J. Kukla. 1,650,758; Nov. 29.
- Doup heddle. R. H. Fish. 1,644,573; Oct. 4.
- Doverall construction, Adjustable. E. E. Lundberg. 1,640,953; Aug. 30.
- Dovetailing machine. B. A. Linderman. 1,651,897; Dec. 6.
- Dovetailing mechanism. R. L. Carter. 1,651,510; Dec. 6.
- Doveling machine. J. M. Myrdal. 1,624,274; Apr. 12.
- Down indicator. J. J. Lipp. 1,636,719; July 12.
- Draft appliance. W. T. Comley. 1,648,939; Nov. 15.
- Draft appliance. C. Daugherty. 1,628,123; May 10.
- Draft appliance. F. W. Fritchey. 1,648,894; Nov. 15.
- Draft appliance. W. Hagedorn. 1,628,721; May 17.
- Draft appliance, Railway. E. George, Jr. 1,648,340; Nov. 8.

- Draft appliance, Railway. W. J. Regan. 1,648,325; Nov. 8.
- Draft connection. L. H. Kaupke. 1,615,630; Jan. 25.
- Draft control. H. W. Heyman. 1,622,782; Mar. 29.
- Draft control. C. M. Norberg. 1,627,194; May 3.
- Draft controller, Hydraulic. W. L. Morris. 1,645,713; Oct. 13.
- Draft coupling. J. Burchach. 1,637,854; Aug. 2.
- Draft device. C. G. Strandlund. 1,653,877; Dec. 27.
- Draft device. C. G. Strandlund and T. Brown. 1,653,676; Dec. 27.
- Draft equalizer. H. Chilcoat. 1,613,085; Jan. 4.
- Draft equalizer. L. Rusconl. 1,647,888; Nov. 1.
- Draft equalizer. A. E. E., and J. Scruthr. 1,646,768; Oct. 25.
- Draft equalizer. V. J. Tichota. 1,650,883; Nov. 29.
- Draft equalizer. J. Wurzer. 1,648,098; Nov. 8.
- Draft evenor. F. F. Wulf. 1,645,569; Oct. 18.
- Draft gauge. L. M. Ellison. 1,616,033; Feb. 1.
- Draft gauge, Multiple. L. M. Ellison. 1,615,871; Feb. 1.
- Draft-inducing means. J. M. Schütz. 1,612,838; Jan. 4.
- Draft regulator. F. T. Hope. 1,628,980; May 17.
- Draft regulator. C. Prichard. 1,628,428; May 10.
- Draft regulator, Automatic. J. L. Breesee, jr. 1,628,644; May 17.
- Draft regulator, Chimney-. J. Subert. 1,633,687; June 25.
- Draft rigging. D. S. Barrows. 1,637,099; July 26.
- Draft rigging. D. S. Barrows. 1,650,974; Nov. 29.
- Draft rigging. G. F. Couch. 1,634,398; July 5.
- Draft rigging. B. W. Kadel. 1,616,559; Feb. 22.
- Draft rigging. B. W. Kadel. 1,634,366; July 5.
- Draft rigging. B. W. Kadel. 1,639,567; Aug. 18.
- Draft rigging. R. T. Knapp. 1,641,087; Aug. 30.
- Draft rigging. E. F. Mechlin. 1,634,429; July 5.
- Draft sill. C. M. House. 1,628,048; May 10.
- Draft yoke. E. George, jr. 1,648,339; Nov. 8.
- Draft yoke. W. McConway, jr. 1,628,170; May 10.
- Draft yokes, Manufacturing. B. W. Kadel. 1,633,670; June 28.
- Drafting and lay-out instrument. G. L. Terna. 1,618,788; Feb. 22.
- Drafting device. J. O. Fortin. 1,633,628; June 28.
- Drafting device. V. Kvasnicka. 1,622,524; Mar. 29.
- Drafting ellipsograph. D. Grieve. 1,635,270; July 12.
- Drafting implement. S. P. Crouse. 1,633,163; June 21.
- Drafting instrument. J. C. Beem. 1,632,267; June 14.
- Drafting instrument. G. A. Haederer. 1,650,269; Nov. 22.
- Drafting instrument. M. Maurer. 1,625,735; Apr. 19.
- Drafting machine. J. O. Fortin. 1,633,629; June 28.
- Drafting table. J. Rundgren and C. A. Billetdoux. 1,622,847; Mar. 29.
- Drag. I. C. Moore. 1,641,348; Sept. 6.
- Drag-line-excavator counterbalance. H. S. and N. A. Cole. 1,614,979; Jan. 18.
- Drag-link element, Making a. F. C. Crawford. 1,625,795; Apr. 26.
- Drag or falling saw, Power. F. Halvorsen. 1,624,662; Apr. 12.
- Drags, Drawbar for. D. Schmidt. 1,621,031; Mar. 15.
- Drain board. M. Capra. 1,653,000; Dec. 20.
- Drain board and cover, Combination. J. W. Russel. 1,628,746; May 17.
- Drain board and tub cover, Combined. J. W. Russel. 1,643,906; Sept. 27.
- Drain board, Portable. L. Wolff. 1,627,721; May 10.
- Drain board, Wringer. H. W. Eden. 1,613,028; Jan. 4.
- Drain cock, Cooling-system. H. A. Gschwind. 1,624,168; Apr. 12.
- Drain device. H. E. Decker. 1,646,994; Oct. 25.
- Drain device. J. L. Hutchings. 1,617,333; Feb. 15.
- Drain device. J. L. Hutchings. 1,621,164; Mar. 15.
- Drain device. J. J. Jakosky. 1,626,089; Apr. 26.
- Drain device, Automatic. A. L. Mitchell. 1,630,628; May 31.
- Drain flushers, Faucet connection for. J. H. Laney. 1,647,804; Nov. 1.
- Drain plug or valve for containers. G. P. Hawes, jr. 1,621,251; Mar. 15.
- Drain protector. C. Burkelman. 1,651,321; Nov. 29.
- Drain trap. C. W. Anderson. 1,634,530; July 5.
- Drain trap. G. D. Casper. 1,616,752; Oct. 4.
- Drain trap. N. Morris. 1,625,561; Apr. 19.
- Drain tube. J. E. Long. 1,642,819; Sept. 20.
- Drainage system, Soil-pipe. A. E. Stringer. 1,640,058; Aug. 23.
- Drainer. H. M. Bridges. 1,634,705; July 5.
- Draining rack for containers. J. Davidson. 1,623,392; Apr. 5.
- Draperies or similar articles, Valance for window. J. Derk. 1,619,501; Feb. 8.
- Drapery hangers, Device for vertically adjusting. L. H. Robinson. 1,658,411; Aug. 9.
- Drawbar coupling. T. Franks. 1,628,587; May 10.
- Drawbar reverse lock. V. H. Jackson. 1,634,501; July 5.
- Drawbar support, Antifriction. E. E. Duffy. 1,628,356; May 10.
- Drawbridge. T. E. Brown. 1,618,267; Feb. 22.
- Draw works. M. B. Davis. 1,642,230; Sept. 13.
- Draw works, Rotary. L. H. Keim and R. E. Kline. 1,628,847; May 17.
- Draw works with cooling apparatus. E. Timbs. 1,613,680; Jan. 11.
- Drawer guide. W. Conwell and C. Mahoney. 1,622,422; Mar. 29.
- Drawer pull. N. V. D. Brock. 1,617,901; Jan. 25.
- Drawer pull. E. Burton. 1,633,640; Oct. 18.
- Drawer pull. E. L. Knapp. 1,627,798; June 7.
- Drawer pull. M. H. Rosenthal. 1,628,725; May 24.
- Drawer pull and latch. O. A. Jacobson. 1,650,836; Nov. 29.
- Drawer stop. R. A. Pilla. 1,626,354; Apr. 26.
- Drawer support, Extension-. C. S. Moore. 1,640,664; Aug. 30.
- Drawing and spinning machine. L. P. Frieder. P. S. Huntley, and J. W. Hollas. 1,614,465; Jan. 18.
- Drawing and spooling mechanism and method. J. H. Lee and E. Honig. 1,637,700; Aug. 2.
- Drawing apparatus. P. L. Ormiston. 1,622,229; Mar. 22.
- Drawing demonstrator, Mechanical. R. F. Ashbrook. 1,639,448; Aug. 16.
- Drawing dies or stones, Machine for drilling. S. Loewenherz. 1,636,475; July 19.
- Drawing head. O. A. Feld. 1,616,789; Feb. 8.
- Drawing hollow ware of sheet metal, Press for. C. J. Rhodes. 1,629,839; May 24.
- Drawing implement. J. Solary. 1,641,016; Aug. 30.
- Drawing instrument. C. Bennett. 1,651,504; Dec. 6.
- Drawing instrument. P. Cobella and Vasconcelo. 1,613,221; Jan. 4.
- Drawing instrument. T. F. McCaffery, jr. 1,619,427; Mar. 1.
- Drawing instrument, Protractor. F. N. Perrin. 1,633,903; June 28.
- Drawing instrument, Self-adjusting. J. M. Angeletti. 1,644,221; Oct. 4.
- Drawing machine. G. Gillespie. 1,617,632; Feb. 15.
- Drawing or drafting mechanism for drawing or drafting cotton and other fibrous material. W. B. Walton. 1,645,733; Oct. 18.
- Drawing press. A. A. Byerlein. 1,623,960; Apr. 12.
- Drawing press. F. J. Rode. 1,638,881; Aug. 16.
- Drawing apparatus for producing animated. E. Hurd. 1,633,547; June 21.
- Drawings, Reproducing. A. H. Adams. 1,651,011; Nov. 29.
- Dredge sluice jig. D. Steel. 1,651,046; Nov. 29.
- Dredge tumbler. L. D. Hopfield. 1,632,602; June 14.
- Dredger. G. E. Dear. 1,643,201; Sept. 20.
- Dredges, Anchoring. H. O. Bedgood. 1,613,374; Jan. 4.
- Dredging. N. A. Yulle. 1,636,205; July 19.
- Dredging machine. V. F. Casey. 1,619,850; Mar. 8.
- Dredging pipes, Coupling sleeve for. N. C. Bray. 1,628,302; May 10.
- Dresses. K. E. Burns. 1,623,827; Nov. 15.
- Dress. K. E. Burns. 1,623,964; Nov. 29.
- Dress. K. E. Burns. 1,640,934; Dec. 20.
- Dress. T. Davis. 1,623,309; Mar. 29.
- Dress. T. Davis. 1,623,792; June 7.
- Dress. T. Davis. 1,623,701; July 19.
- Dress. B. Lemolae. 1,623,001; July 5.
- Dress. M. Rochas. 1,623,011; July 5.
- Dress. M. C. Schmolze. 1,623,155; Dec. 27.
- Dress. M. Siegel. 1,623,244; Mar. 15.
- Dress. M. Siegel. 1,623,501; Apr. 19.
- Dress. M. Siegel. 1,623,531; Apr. 26.
- Dress. M. Siegel. 1,623,013; July 5.
- Dress. J. C. Worth. 1,623,923; June 21.
- Dress and apron, Combination. R. Voorsanger. 1,647,385; Nov. 1.
- Dress, Pantaloons. P. M. Crane. 1,626,024; Apr. 26.
- Dress pattern. T. McCampbell. 1,649,479; Nov. 15.
- Dress, Reversible. B. H. Dryer. 1,630,838; May 31.
- Dress shield. B. E. Tedstone. 1,630,228; May 24.
- Dressing wheel. E. C. Anderson. 1,614,555; Jan. 18.
- Dressing wheel. A. P. Slade. 1,646,501; Oct. 25.
- Drier: See—
- Centrifugal drier. Fruit drier.
- Clothes drier. Paper drier.
- Coal drier. Rotary drier.
- Cover drier. Shoe-sole drier.
- Cue-tip drier. Tunnel drier.
- Cylindrical drier. Veneer drier.
- Dish drier.
- Drier. F. C. Chapman. 1,645,738; Oct. 18.
- Drier. C. J. Crane. 1,648,640; Nov. 8.
- Drier. J. A. Dole. 1,618,176; Feb. 22.
- Drier. C. H. Greenwood. 1,615,222; Jan. 25.
- Drier. G. Komarek. 1,641,337; Sept. 6.
- Drier. R. R. Morrill. 1,634,882; July 5.
- Drier. C. Oppenhausser. 1,622,921; Mar. 29.
- Drier. J. Roberts. 1,646,259; Oct. 18.
- Drier. I. Schuman and B. E. Frank. 1,620,577; Mar. 27.
- Drier. W. Stricker. 1,646,223; Oct. 18.
- Drier, Conveyor for. A. W. M. Schwartz. 1,615,237; Jan. 25.
- Drier and cleaner, Grain. J. H. Woodward. 1,645,568; Oct. 18.
- Drier felt, Asbestos. E. v. Asten. 1,638,721; Aug. 9.
- Drier for linings and other strip material, Rack-. A. O. Hurstall. 1,624,735; Apr. 12.
- Drier for sheet material. A. J. Vance. 1,632,750; June 14.
- Drier for tubular fabrics. M. M. Kasanof. 1,647,449; Nov. 1.
- Drier or dehydrating plant. F. F. Knipschild. 1,645,769; Oct. 18.

- Driers, Air baffle for. F. Kershaw and A. O. Hurxthal. 1,642,446; Sept. 13.
- Driers, Condensation remover for steam-heated. J. Young. 1,640,019; Aug. 23.
- Driers, Girt for loop. A. O. Hurxthal. 1,613,460; Jan. 4.
- Driers, Heaters, or the like, Seal for. R. R. Jones. 1,633,548; June 21.
- Driers, Recovering soluble matter from air currents in. O. Faber. 1,615,872; Feb. 1.
- Driers, Steam-circulating system for. J. O. Woodsome. 1,643,972-8; Oct. 4.
- Driftwood and manufacturing same, Imitation. C. E. Schmidt. 1,628,918; May 17.
- Drill: See—
- Anchor-shell drill. Impact drill.
 - Boring drill. Mining drill.
 - Breast drill. Oil drill.
 - Coal drill. Radial drill.
 - Core drill. Ratchet drill.
 - Disk drill. Reamer drill.
 - Earth-boring drill. Rock drill.
 - Electric drill. Rotary drill.
 - Grain drill. Seed drill.
 - Hand drill. Well drill.
- Drill, J. Burcham. 1,617,231; Feb. 8.
- Drill, O. Luschnig. 1,619,209; Mar. 1.
- Drill, W. R. Penson. 1,629,881; May 24.
- Drill, S. T. Skeen. 1,640,810; Aug. 30.
- Drill and underreamer, Combined. G. B. Sipe. 1,647,670; Nov. 1.
- Drill-assembling unit. E. J. Bowman and J. S. Myhre. 1,630,825; May 31.
- Drill attachment, Grain-. C. B. Taylor. 1,642,908; Dec. 20.
- Drill bit, H. H. Cassriel. 1,613,932; Jan. 11.
- Drill bit, E. W. Keller. 1,625,030; Apr. 19.
- Drill bit, C. U. Metzger and M. Manning. 1,644,142; Oct. 4.
- Drill-bit-blade construction. G. B. Sipe. 1,647,669; Nov. 1.
- Drill bit, Reamer. A. D. Alford. 1,631,449; June 7.
- Drill bit, Rock. W. J. Kirby. 1,627,909; May 10.
- Drill bit, Rotary. L. C. Black. 1,621,921; Mar. 22.
- Drill blades, Manufacturing thin. H. W. Pleister. 1,628,684; May 17.
- Drill bushing. G. E. Swartz. 1,617,554; Feb. 15.
- Drill chuck. G. W. Cary. 1,620,440; Mar. 8.
- Drill-collar protector. P. McLaren. 1,613,039; Jan. 4.
- Drill collar, Releasable. T. A. Creighton. 1,621,583; Mar. 22.
- Drill connection, Rotary. M. C. Risher. 1,650,301; Nov. 22.
- Drill cutter. F. L. Scott and L. H. Wellensiek. 1,647,753; Nov. 1.
- Drill heads, Lubricating system for. D. C. Klausmeyer. 1,653,576; Dec. 20.
- Drill-heating furnace. H. K. Fox. 1,628,964; May 17.
- Drill holder. R. M. Galloway, W. F. Bockhoff, and J. M. Meloy. 1,645,948; Oct. 18.
- Drill holder. F. J. Peters. 1,631,286; June 7.
- Drill holder, Rock-. W. H. and J. H. Goodland. 1,636,934; July 26.
- Drill holder, Swivel-head. J. V. Nelson. 1,623,747; Apr. 5.
- Drill mechanism. J. W. Doyle. 1,630,528; May 31.
- Drill or boring machine, Coal. W. J. Thomas. 1,626,568; Apr. 26.
- Drill pipe, Collapsible. D. J. Scott. 1,635,289; July 12.
- Drill pipes in well-boring apparatus, Slips for supporting. E. C. Pearson and J. Childs. 1,643,750; Sept. 27.
- Drill-rod device, Antislip. L. Orwig. 1,620,913; Mar. 15.
- Drill set. L. R. Hupp. 1,643,378; Sept. 27.
- Drill set. S. P. Shell. 1,653,786; Dec. 27.
- Drill socket. W. Käsmaier. 1,634,716; July 5.
- Drill spindles, Brake mechanism for. D. C. Klausmeyer. 1,634,149; June 28.
- Drill-steel centralizer. C. C. Hansen. 1,614,123; Jan. 11.
- Drill-steel retainer. G. M. Nell and W. G. Kale. 1,637,912; Aug. 2.
- Drill-steel retainer. A. H. Skaer. 1,613,139; Jan. 4.
- Drill-steel-retaining device. C. A. Hultquist. 1,647,628; Nov. 1.
- Drill steels, Centralizer for. J. F. Mock. 1,644,026; Oct. 4.
- Drill-stem clamp. G. R. Livergood. 1,637,383; Aug. 2.
- Drill-supporting structure. J. E. Shaw. 1,629,745; May 24.
- Drilling and countersinking tool. M. B. Wilder. 1,620,848; Mar. 15.
- Drilling and the like, Apparatus for. C. D. King. 1,623,250; Apr. 5.
- Drilling apparatus. M. A. Baker. 1,623,084; Apr. 5.
- Drilling apparatus. L. S. Boyd. 1,613,555; Jan. 4.
- Drilling apparatus. F. F. Davis. 1,628,033; May 10.
- Drilling apparatus. F. A. Holleck. 1,627,539; May 3.
- Drilling apparatus. N. Madsen. 1,627,291; May 3.
- Drilling apparatus. E. C. Morgan. 1,649,911; Nov. 22.
- Drilling apparatus. W. Sheldon. 1,634,087; June 28.
- Drilling apparatus. E. Whinnin. 1,649,998; Nov. 22.
- Drilling apparatus. Deep-well-. C. E. Reed. 1,636,667; July 19.
- Drilling apparatus, Deep-well-. C. E. Reed. 1,649,858; Nov. 22.
- Drilling apparatus, Deep-well rotary. C. E. Reed. 1,642,403; Sept. 13.
- Drilling apparatus, Deep-well rotary. E. A. Reed. 1,653,876; Dec. 27.
- Drilling apparatus for deep wells, Rotary. C. E. Reed. 1,653,929; Dec. 27.
- Drilling apparatus, Flexible pipe slip for. F. J. O'Brien. 1,637,200; July 26.
- Drilling apparatus, Oil-well-. W. Sheldon. 1,621,689; Mar. 22.
- Drilling apparatus, Rotary deep-well-. C. E. Reed. 1,636,664; July 19.
- Drilling apparatus, Well-. W. Sheldon. 1,634,917; July 5.
- Drilling apparatus, Well-. E. Smith. 1,641,206; Sept. 6.
- Drilling bit, G. B. Louderback. 1,615,547; Jan. 25.
- Drilling bit, W. W. Mills. 1,645,962; Oct. 18.
- Drilling bit, Rotary. W. T. Woods. 1,615,251; Jan. 25.
- Drilling bit, Rotary well-. G. Gartling. 1,634,869; July 5.
- Drilling clamp, Wire-line. C. S. Wright. 1,614,581; Jan. 18.
- Drilling clamp, Wire-line. C. S. Wright. 1,621,616; Mar. 22.
- Drilling concrete, etc., Tool for. A. W. Machiet. 1,629,581; May 24.
- Drilling, Core bit and plug for. W. L. Acker. 1,642,572; Sept. 13.
- Drilling cutter and bearing therefor, Well-. C. E. Reed. 1,636,663; July 19.
- Drilling device. C. Wolkenstorfer. 1,618,900; Feb. 22.
- Drilling device, Rock-. E. G. Gartin. 1,620,885; Mar. 15.
- Drilling device, Wire-cable well-. F. F. Davis. 1,621,191; Mar. 15.
- Drilling, filling, and sealing hollow bodies, Device for. R. Siegart. 1,643,260; Sept. 20.
- Drilling jar, Making. P. Arbon. 1,637,511; Aug. 2.
- Drilling machine. G. H. Gilman. 1,616,486-90; Feb. 8.
- Drilling machine. G. H. Gilman. 1,632,400; June 14.
- Drilling machine. G. H. Gilman. 1,635,476; July 12.
- Drilling machine. G. H. Gilman. 1,635,934; July 12.
- Drilling machine. G. H. Gilman. 1,642,949; Sept. 20.
- Drilling machine. G. H. Gilman. 1,644,120; Oct. 4.
- Drilling machine and the like. A. M. Johnson. 1,617,910; Feb. 15.
- Drilling machine, Automatic. E. J. Kingsbury. 1,652,247; Dec. 13.
- Drilling machine, Electric. M. H. Nesbitt. 1,652,833; Dec. 13.
- Drilling machine, Multiple-spindle. E. P. Bullard, Jr. 1,635,703; July 12.
- Drilling machine of well-boring apparatus, Rotary-. J. Childs. 1,628,032; May 10.
- Drilling machine or drilling rig. L. A. Krupp. 1,649,239; Nov. 15.
- Drilling machine, Radial. G. Feather. 1,631,256; June 7.
- Drilling machine, Rotary-. H. M. Harris and O. H. Attridge. 1,628,363; May 10.
- Drilling machine, Well-. G. L. Lane and W. E. Sykes. 1,621,636; Mar. 22.
- Drilling machines, Go-around tongs for. J. W. Champion. 1,636,031; July 5.
- Drilling mechanism. E. G. Gartin. 1,653,268; Dec. 20.
- Drilling mechanism. T. R. E. Rundqvist. 1,654,514; Dec. 27.
- Drilling mechanism. H. Tardiff. 1,653,240; Dec. 20.
- Drilling mechanism, Holder for. E. C. Holmes. 1,631,683; June 7.
- Drilling mechanism, Rock-. E. G. Gartin. 1,651,199; Nov. 29.
- Drilling mechanism, Rock-. C. F. Osgood. 1,641,451; Sept. 6.
- Drilling or chiseling away rock, Device for. K. P. zu Lowenstein. 1,622,896; Mar. 29.
- Drilling rig, Well-. G. P. Gebhart. 1,636,631; July 19.
- Drilling rigs, Crank for. E. E. Greve. 1,621,665; Mar. 22.
- Drilling stems, Elevator for oil-well-. K. D. Neely. 1,637,270; July 26.
- Drilling tools, Facing the cutting edges of. R. D. Davies. 1,613,842; Jan. 11.
- Drilling tools, Feeding device for cable. J. Penrod. 1,638,876; Aug. 16.
- Drilling, Well. W. Sheldon. 1,651,161; Nov. 29.
- Drilling wells. L. H. Wellensiek. 1,621,569; Mar. 22.
- Drilling wells, Apparatus for. F. J. Lewis. 1,641,176; Sept. 6.
- Drilling wells, Rotary bit for. A. Stewart. 1,637,694; Aug. 2.
- Drills, Attachment for track. M. Schroyer. 1,613,809; Jan. 11.
- Drills, Chuck for rock. L. C. Bayles. 1,649,651; Nov. 15.
- Drills, Combined washer and shield for. H. W. Fletcher. 1,641,261; Sept. 6.
- Drills, Drill collar for hydraulic rotary. L. E. Nebergall. 1,616,666; Feb. 8.
- Drills, Front head for percussive. E. Penberthy. 1,632,921; June 21.
- Drills, Handle for rock. W. Prellwitz. 1,644,030; Oct. 4.
- Drills, Making tubular. J. T. Wright. 1,651,795; Dec. 6.
- Drills, Mud guard for submarine. C. C. Hansen. 1,645,989; Oct. 13.
- Drills, Operating track. E. J. Honl. 1,634,943; July 5.

- Drills, Portable mounting for electric. C. A. Mowles 1,630,205; May 24.
- Drills, Press-wheel boxing for grain. A. M. Strecker. 1,624,022; Apr. 12.
- Drills, Reversing mechanism for electric. R. A. Norling. 1,632,671; June 14.
- Drills, Rotation mechanism for rock. C. C. Hansen. 1,638,526; June 21.
- Drills, Tractor hitch for. H. B. Bozard. 1,636,802; July 26.
- Drills, Work-holding device for multiple spindle. H. V. Ludwick. 1,628,729; May 17.
- Drink dispenser. H. C. Smith. 1,639,619; Aug. 16.
- Drink-dispensing machine. J. H. McLellan. 1,634,036; June 28.
- Drink mixer. C. M. Ball, jr. 1,633,470; June 21.
- Drink mixer. C. H. Beach. 1,650,256; Nov. 22.
- Drink mixer. R. B. Gilchrist. 1,616,655; Feb. 8.
- Drink mixer. R. B. Gilchrist. 1,618,650; Feb. 22.
- Drink mixer. B. J. Grigsby. 1,615,875; Feb. 1.
- Drinking attachment. F. D. Padgett. 1,629,358; May 17.
- Drinking fountain. H. W. Taylor. 1,624,081; Apr. 12.
- Drinking fountain. H. W. Taylor. 1,635,446; July 12.
- Drinking fountain, Automatic. O. C. White. 1,653,525; Dec. 20.
- Drinking fountain, Inclined-nozzle. P. Mueller and A. C. Schuermann. 1,630,206; May 24.
- Drinking fountains, Cooling device for. C. W. Carter. 1,642,228; Sept. 13.
- Drinking glass. R. I. Ratner. Des. 72,188; Mar. 8.
- Drinking glass. O. Thesen. 1,651,485; Dec. 6.
- Drinking vessel. E. G. Barker. 1,615,254; Jan. 25.
- Drip catcher. C. W. Spicer. 1,617,968; Feb. 15.
- Drip-pan alarm. H. L. and A. Pierce. 1,615,647; Jan. 25.
- Drip sheet. T. M. Taylor. 1,630,639; May 31.
- Drip vent, Circulating. A. Buss. 1,619,238; Mar. 1.
- Dive gate, Automatic. J. Landis. 1,624,256; Apr. 12.
- Drive mechanism. E. A. Slater. 1,621,033; Mar. 15.
- Drive mechanism, Friction. A. A. Dennis. 1,629,452; May 17.
- Drive-shaft puller. W. J. Rappley. 1,631,889; June 7.
- Drive units, Lubricating system for distributor. S. I. Fekete and S. G. Baite. 1,613,027; Jan. 4.
- Drum for driving thin-walled dowels into railway sleepers. M. Rüping. 1,618,889; Feb. 22.
- Driving and controlling mechanism. J. Derry. 1,650,197; Nov. 22.
- Driving bit. J. S. Bristol. 1,632,589; June 14.
- Driving box. V. J. Shepard. 1,637,594; Aug. 2.
- Driving box. H. S. Vincent. 1,621,785-5; Dec. 6.
- Driving box mounting. W. R. Blackley and R. M. Meredith. 1,628,223; May 10.
- Driving connection. C. Schramm and P. F. Vokal. 1,634,386; July 5.
- Driving connection, Resilient. G. H. F. Holy. 1,619,345; Jan. 1.
- Driving coupling, Flexible. H. L. Walker. 1,636,725; July 26.
- Driving device, Unidirectional. G. Constantinesco. 1,618,915; Feb. 22.
- Driving device, Unidirectional. G. Constantinesco. 1,645,645; Sept. 13.
- Driving mechanism. J. O. Carrey. 1,639,647; Aug. 23.
- Driving mechanism. E. F. Giannattasio. 1,613,991; Jan. 11.
- Driving mechanism. R. L. Lee. 1,649,962; Nov. 22.
- Driving mechanism and method. T. A. Bryson. 1,635,259; Aug. 8.
- Driving mechanism, Friction. C. McPherson. 1,647,412; Nov. 1.
- Driving mechanism for blast-furnace stacks, Distributor. A. G. McKee. 1,622,461; Mar. 29.
- Driving mechanism, Yielding rotary. F. R. Simms. 1,631,453; June 7.
- Driving or power-transmitting device, Resilient. C. L. Sheppy. 1,646,772; Oct. 25.
- Driving shield. F. B. Moran. 1,643,509; Sept. 27.
- Driving tools, Power mechanism for. G. E. Ruffner. 1,617,512; Feb. 15.
- Driving wheel. A. Beyer. 1,630,886; May 31.
- Propelling device. A. L. Schram. 1,634,560; July 5.
- Drop pit. A. L. Walter. 1,632,256; June 14.
- Dropper; See—
Sugar-beet-seed dropper.
- Dross furnace. G. C. Schimpf. 1,634,217; June 28.
- Drum mixer. W. N. Shaw. 1,634,563; July 5.
- Drum. W. A. Barry. 1,648,212; Nov. 8.
- Drum. B. W. Hagen. 1,615,202; Jan. 18.
- Drum. J. H. Ward. 1,619,046; Mar. 1.
- Drum and band structure. J. S. Reid. 1,654,192; Dec. 27.
- Drum, Collapsible. F. D. Mason. 1,634,951; July 5.
- Drum, Cleaners, Cleaning means for. J. E. Alexander and C. E. Youngchild. 1,621,706; Mar. 22.
- Drum, Drying. J. B. Vernay. 1,628,481; May 10.
- Drum for drying materials. J. Cuypers. 1,648,542; Nov. 8.
- Drum hoists, Parting flange for. J. C. Fairbank. 1,645,106; Sept. 13.
- Drum mill. P. Goebels. 1,646,532; Oct. 25.
- Drum or pulley attachment. S. A. Taljan. 1,631,899; June 7.
- Drum, Sheet-metal. C. H. Draper. 1,649,292; Nov. 15.
- Drum, Shipping. H. E. McCrery. 1,643,252; Sept. 20.
- Drum, Snare. C. H. Strupe. 1,638,106; Aug. 6.
- Drum-snare-adjusting means. H. A. Hiers. 1,615,699; Jan. 25.
- Drum-supporting device. W. D. Gladstone. 1,630,701; May 31.
- Drum trap. R. Wensley. 1,631,445; June 7.
- Drum, Symbal holder for. B. C. Streepfer. 1,641,558; Sept. 8.
- Drums, sleeves, and the like, Adjustable bearing mechanism for. G. R. Taaffe. 1,635,797; June 28.
- Dry and steam heating apparatus, Combination. J. A. Bruns. 1,631,509; Dec. 6.
- Dry battery. H. M. R. Dam. 1,613,585-6; Jan. 4.
- Dry battery. E. E. Meiskothken. 1,613,327; Jan. 4.
- Dry battery. E. J. Reich. 1,640,617; Aug. 30.
- Dry battery. V. Yngve. 1,624,455; Apr. 12.
- Dry battery. V. Yngve. 1,631,568; June 7.
- Dry cell. C. G. Birdsall. 1,641,524; Sept. 6.
- Dry cell. B. K. Brown. 1,639,984; Aug. 28.
- Dry cell. F. H. Cirves. 1,643,480; Sept. 27.
- Dry cell. W. F. Hendry. 1,631,200; June 7.
- Dry cell. W. F. Hendry. 1,631,528; June 7.
- Dry cell. W. F. Hendry. 1,637,446; Aug. 2.
- Dry cell. W. F. Hendry. 1,644,017; Oct. 4.
- Dry cell. G. M. Little and J. G. Ford. 1,627,334; May 3.
- Dry cell. H. de Olaneta. 1,622,719; Apr. 5.
- Dry cell. H. de Olaneta. 1,653,800-1; Dec. 27.
- Dry cell. H. Vignon. 1,654,227; Dec. 27.
- Dry cell. V. Yngve. 1,626,178; Apr. 26.
- Dry cell. V. Yngve. 1,634,006; June 28.
- Dry cell. V. Yngve. 1,637,433; Aug. 2.
- Dry cell and electrode therefor. G. W. Helise, H. H. Thompson, and N. K. Chaney. 1,624,409; Apr. 12.
- Dry cell and lining for same. C. P. Deibel and W. G. Walitt. 1,640,488; Aug. 30.
- Dry-cell depolarizer. B. K. Brown. 1,639,985; Aug. 23.
- Dry cell or battery. J. Smith. 1,622,402; Mar. 29.
- Dry cell, Lining for. C. P. Deibel. 1,654,938; Dec. 27.
- Dry cleaning. J. T. Aydelotte. 1,615,897; Feb. 1.
- Dry-cleaning system, Caustic tank for. M. M. and S. S. Schwab. 1,630,673; May 31.
- Dry-cleaning systems, Scrubber for. M. M. and S. S. Schwab. 1,633,195; June 21.
- Dry dock. W. T. Donnelly. 1,617,990; Feb. 15.
- Dry dock, Heating for. P. Matthiessen and A. D. Möller. 1,632,491; June 14.
- Dry-pan crusher. J. S. Fowler. 1,628,887; Apr. 26.
- Dry-steam sleeve board. I. W. Cox. 1,634,471; July 5.
- Dry storage. S. L. Richmond. 1,649,732; Nov. 15.
- Dry storage. S. L. Richmond. 1,649,733; Nov. 15.
- Drying and heating apparatus, Vertical. M. Baechler. 1,653,332; Dec. 20.
- Drying and enameling, Method of and apparatus for. A. Maehler and K. Siegle. 1,638,811; Aug. 9.
- Drying and grinding machine for clay and other plastic materials. G. Hidoux. 1,634,364; Jan. 11.
- Drying and heating material, Apparatus for. L. B. West. 1,641,108; Aug. 30.
- Drying and pressing or shaping of garments and the like, Apparatus for the. F. Dewhurst. 1,653,761; Dec. 27.
- Drying and storing dried material preparatory to processing, Method of and apparatus for. W. F. Hosford. 1,625,468; Apr. 19.
- Drying and storing material, Method of and apparatus for. A. B. Brown. 1,625,451; Apr. 19.
- Drying apparatus. J. L. Buckley. 1,618,913; Feb. 22.
- Drying apparatus. M. E. Bussler. 1,630,652; Mar. 31.
- Drying apparatus. C. W. Christoph. 1,622,017; Mar. 29.
- Drying apparatus. A. B. Cibul. 1,643,056; Sept. 20.
- Drying apparatus. E. Davénès. 1,650,330; Nov. 22.
- Drying apparatus. F. Head. 1,631,483; June 7.
- Drying apparatus. C. J. Hunt. 1,623,540; Apr. 5.
- Drying apparatus. K. C. Nielsen. 1,614,253; Jan. 11.
- Drying apparatus. E. C. Head. 1,639,947; Aug. 23.
- Drying apparatus. F. A. Secord. 1,621,855; Mar. 22.
- Drying apparatus. L. H. Zeun. 1,629,942; May 24.
- Drying apparatus, Electrical heating unit for. L. H. Zeun. 1,629,943; May 24.
- Drying apparatus, Fur-. H. A. Alter, H. J. Wollner, and M. D. Schwartzman. 1,635,876; July 12.
- Drying apparatus, Rotary. H. A. Marston. 1,649,839; Nov. 22.
- Drying berries, Apparatus for. T. W. W. Forrest. 1,632,180; June 14.
- Drying cylinder. D. Shlick. 1,640,855; Aug. 30.
- Drying gases, Method and agent for. W. Müller. 1,644,439; Oct. 4.
- Drying hay or other products, Apparatus for. C. J. Tucker and L. J. Chapman. 1,642,469; Sept. 13.
- Drying machine. C. F. Gregg. 1,652,276; Dec. 13.
- Drying machine. H. Morshead and H. H. Wigglesworth. 1,620,120; Mar. 8.
- Drying machine. S. A. Staegle. 1,624,371; Apr. 12.
- Drying machine. A. R. and F. M. Stevens. 1,636,082; July 19.
- Drying machine. H. H. Wigglesworth. 1,627,529; May 3.
- Drying machine. H. H. Wigglesworth and W. P. Greiner. 1,642,478; Sept. 13.
- Drying machine, Centrifugal. J. S. Gage. 1,636,177; July 19.
- Drying machine, Centrifugal. W. H. Himes. 1,649,115; Nov. 15.

- Drying machine, multiple-cylinder. G. Dod. 1,630,331; May 31.
- Drying material. J. E. Alexander. 1,645,366; Oct. 11.
- Drying means a large superficial area, Imparting to. E. Smolczyk. 1,633,959; June 28.
- Drying rack. M. W. McArdie. 1,632,032; June 14.
- Drying rack. A. M. Wilson. 1,617,231; Feb. 8.
- Drying system. M. L. Mueller. 1,624,754; Apr. 12.
- Drying system. Air-. H. C. Cole. 1,634,931; July 5.
- Drying tank blocks. T. H. Rhoads. 1,622,051; Mar. 22.
- Dual-tired wheel. L. D. Kay. 1,640,339; Aug. 23.
- Dumb-bell bolt. J. J. Williams. 1,618,619; Feb. 22.
- Dummy. Tackling. G. S. Warner. 1,622,091; Mar. 29.
- Dump body. L. Fleetwood. 1,618,871; Feb. 22.
- Dump body. J. C. Gay, R. E. Smith, and H. J. Quirk. 1,615,207; Jan. 25.
- Dump body. C. L. Nein. 1,615,131; Jan. 18.
- Dump body, Self-cleaning. E. A. Nelson. 1,627,336; May 3.
- Dump bodies, Double-pivot support for. E. A. Dewald. 1,653,038; Dec. 20.
- Dump-bottom extractor. E. J. Carroll. 1,633,570; June 28.
- Dump-door mechanism. D. Hindahl. 1,620,097; Mar. 8.
- Dumping apparatus. C. C. Avery. 1,654,032; Dec. 27.
- Dumping apparatus. C. E. Claessen. 1,649,815; Oct. 23.
- Dumping apparatus. R. Raddatz. 1,615,404; Jan. 25.
- Dumping apparatus, Ash-can-. N. Selman and J. W. Young. 1,614,400; Jan. 11.
- Dumping apparatus, Elevating. E. R. Barrett. 1,646,679; Oct. 25.
- Dumping appliance. J. J. Dougherty. 1,621,462; Mar. 15.
- Dumping device. H. F. Flowers. 1,624,323; Apr. 12.
- Dumping skip or hopper, Self-loading. E. Pederson. 1,616,466; Feb. 8.
- Duplicating. D. Gestetner. 1,615,221; Jan. 25.
- Duplicating. D. Gestetner. 1,650,868; Nov. 29.
- Duplicating apparatus. E. Lichtenstein. 1,630,395; May 31.
- Duplicating apparatus. E. Lichtenstein. 1,651,924; Dec. 6.
- Duplicating device. A. Burdell. 1,622,415; Mar. 29.
- Duplicating device. H. Spurrer. 1,617,278; Feb. 8.
- Duplicating device. E. D. Straw. 1,623,366; Apr. 5.
- Duplicating device. G. W. Wright. 1,647,207; Nov. 1.
- Duplicating machine. T. A. Heyer and M. L. Vance. 1,614,741; Jan. 18.
- Duplicating machine. H. A. Irwin. 1,615,084; Jan. 18.
- Duplicator. F. F. Fecher, T. Danheiser, and R. Baldauf. 1,648,219; Nov. 8.
- Duplicator. E. Lichtenstein. 1,636,780; July 26.
- Duplicator. D. Wolfson. 1,615,058; Jan. 18.
- Duplicators, Adjustable-delivery ink container for rotary. L. L. Lievens. 1,633,596; June 28.
- Dust. Apparatus for applying. G. J. Mead. 1,642,551; Sept. 13.
- Dust arrester. G. A. Boesger. 1,621,824; Mar. 22.
- Dust cap and lock nut, Combination. A. T. Christian. 1,627,480; May 8.
- Dust cap and tire gauge, Combination. H. L. McPherson. 1,626,294; Apr. 26.
- Dust-cap construction. A. E. Bronson. 1,627,374; May 3.
- Dust catcher, Centrifugal. C. G. Hawley. 1,622,644; Mar. 29.
- Dust collector. R. F. Feind. 1,628,601; May 10.
- Dust collector. A. F. Mangold. 1,626,852; May 3.
- Dust collector. H. Miscampbell. 1,650,292; Nov. 22.
- Dust collector. A. P. Nesbit. 1,633,602; June 28.
- Dust-extracting unit. A. H. Stebbins. 1,629,593; May 24.
- Dust-feed mechanism. Coal. E. S. Salyards. 1,645,932; Oct. 18.
- Dust from and settling fur, hair, and the like material, Extracting. S. W. Howarth. 1,626,339; Apr. 26.
- Dust-mop cleaner. A. and A. D. W. Rado. 1,614,968; Jan. 18.
- Dustpan. W. P. Eries. 1,645,806; Oct. 18.
- Dustpan. W. C. Rice. 1,639,899; Aug. 23.
- Dust receiver. F. H. Wilcox. 1,629,244; May 17.
- Dust-removing instrument. E. S. Genchy. 1,652,778; Dec. 13.
- Dust separator. A. M. Goodloe. 1,649,220; Nov. 15.
- Dust separator, Centrifugal. C. G. Hawley. 1,622,643; Mar. 29.
- Dust-settling machine. F. H. Campbell. 1,616,303; Feb. 1.
- Duster. F. F. Dorsey. 1,633,076; June 21.
- Duster, Flour. H. F. Tiedke. 1,642,519; Sept. 13.
- Dusting machine. P. W. Wilcox. 1,643,144; Sept. 20.
- Dusting machine, Rotary. W. H. La Fountain. 1,616,132; Feb. 1.
- Dusting powdered substances on surfaces, Apparatus for. P. W. Wilcox. 1,643,143; Sept. 20.
- Dustproof guard. A. W. Wadsworth. 1,627,471; May 3.
- Dye and producing same, Azo. H. Wagner. 1,635,594; July 12.
- Dye composition. J. M. Matthews. 1,630,624; May 31.
- Dye composition containing soluble-cotton yellow. G. H. Wenker. 1,647,162; Nov. 1.
- Dye, Disazo. J. P. Penny. 1,647,145; Nov. 1.
- Dye of diphenyl urea and chromotrope acid, Diazo. R. J. Fletcher. 1,617,244; Feb. 8.
- Dye solution. K. Lüttich. 1,635,628; July 12.
- Dyestuffs derived from 2-hydroxynaphthalene-3-carboxylic-acid-arylamides, Manufacture of azo. H. Wagner. 1,622,690; Mar. 29.
- Dyestuffs from aminodiphenyloxide, Azo. E. Glietenberg. 1,624,944; Apr. 19.
- Dyestuffs, Manufacture of stable derivatives of vat. A. Wolfram. 1,639,206; Aug. 16.
- Dyestuffs, Manufacture of vat. P. Nawiasky, K. Zahn, and K. Saurwein. 1,638,997; June 28.
- Dyestuffs, Manufacture of vat. M. P. Schmidt. 1,625,828; Apr. 26.
- Dyestuffs of the anthraquinone series, Vat. A. Holl. 1,627,738; May 10.
- Dyestuffs of the thioindigo series, Green blue to green vat. R. Herz and J. Müller. 1,623,410; Apr. 5.
- Dyestuffs, Preparation of azo. W. Neelmeier and T. Nocken. 1,650,090; Nov. 22.
- Dyestuffs to fabrics, Transferring. H. S. Sadtler. 1,651,470; Dec. 6.
- Dyes and making same, Greenish-yellow azo. H. Wagner and A. Funke. 1,644,003; Oct. 4.
- Dyestuff and manufacture, Trisazo. J. B. Oesch. 1,615,550; Jan. 25.
- Dyestuff derivatives from vat dyestuffs and alkyl esters of monochloroacetic acid, Preparing vat. B. Wylam, J. E. G. Harris, and J. Thomas. 1,640,018; Aug. 23.
- Dyestuff of the isatine oxythionaphthene group, Vat. C. Kraubs. 1,650,139; Nov. 22.
- Dyestuff of the 2-thionaphthene-2-indolindigo series, New vat. R. Herz and J. Müller. 1,613,275; Jan. 4.
- Dyestuff of the 2-thionaphthene-2-indolindigo series, Violet vat. R. Herz. 1,631,865; June 7.
- Dyestuffs and making same. F. Straub. 1,626,168; Apr. 26.
- Dyestuffs and making same. F. Straub and H. Schneider. 1,617,872; Feb. 15.
- Dyestuffs and making same. F. Straub and H. Schneider. 1,624,637; Apr. 12.
- Dyestuffs and making same, Azo. H. Wagner, W. Langbein, K. Beck, and K. Thiess. 1,613,919; Jan. 11.
- Dyestuffs and making same, Thioindigo vat. K. Thiess, C. J. Müller, E. Runne, and A. Schaeffer. 1,632,252; June 14.
- Dyestuffs, Brown substituted benzidine wool. W. Neelmeier. 1,646,793; Oct. 25.
- Dyestuffs, Chromable brown, Disazo. W. Neelmeier, T. Nocken, and W. Reiner. 1,643,222; Sept. 20.
- Dyestuffs containing chromium and making same. F. Straub. 1,626,169; Apr. 26.
- Dyestuffs containing chromium and making same, Azo. H. Gubler, H. Stabel, and F. Straub. 1,623,005; Mar. 29.
- Dyestuffs containing chromium and making the same. F. Straub. 1,626,167; Apr. 26.
- Dye. Sulphur black. O. Zeller and C. Waldman. 1,630,818; May 31.
- Dyeing. W. Herzberg and H. Ohlendorf. 1,640,657; Aug. 30.
- Dyeing. P. Rabe. 1,622,122; Mar. 22.
- Dyeing. M. E. Tice. 1,652,649; Dec. 13.
- Dyeing acetyl cellulose or fabrics containing the same and new products for use therein. J. Baddley, A. Shepherdson, H. Swann, J. Hill, and L. G. Lawrie. 1,616,103; Feb. 1.
- Dyeing alcidyl celluloses. P. Rabe and W. Schepss. 1,645,450-1; Oct. 11.
- Dyeing and oxidizing machine. J. C. McFalls. 1,619,203; Mar. 1.
- Dyeing and printing with phenylamine black. G. Aris. 1,643,233; Sept. 20.
- Dyeing, Apparatus for piece. T. J. Bachofen. 1,644,460; Oct. 4.
- Dyeing machine. R. C. Rahm. 1,654,092; Dec. 27.
- Dyeing machine. J. H. Skitt. 1,627,347; Mar. 3.
- Dyeing, Machine for piece. T. J. Bachofen. 1,644,462; Oct. 4.
- Dyeing machines, Paddle for. J. H. Skitt. 1,622,928; Mar. 29.
- Dyeing machines, Paddle wheel for. A. S. Kohout. 1,648,771; Nov. 8.
- Dyeing machines, Yarn rack for. J. H. Thompson. 1,614,410; Jan. 11.
- Dyeing materials comprising cellulose acetate and products produced. G. H. Ellis. 1,618,415; Feb. 22.
- Dyeing of bell-shaped felt pieces employed in hat manufacture, Process and apparatus for the. F. Stoffel. 1,614,408; Jan. 11.
- Dyeing on the fiber, Fast. T. Kircheisen. 1,646,296; Oct. 18.
- Dyeing on vegetable fibers, Reserve. H. Leemann and G. Tagliana. 1,649,710; Nov. 15.
- Dyeing or coloring of products made with cellulose acetate. G. H. Ellis. 1,618,413-14; Feb. 22.
- Dyeing, Piece. T. J. Bachofen. 1,641,641; Oct. 4.
- Dyeing process, Viscose-filament-. S. A. Neidich. 1,652,832; Dec. 13.
- Dyeing skins, Apparatus for. O. T. Dehle. 1,621,238; Mar. 15.
- Dyeing textile materials. H. B. Smith. 1,623,709; Apr. 5.
- Dyeing warps. E. E. Carlson and L. A. Stead. 1,646,526; Oct. 25.
- Dyeings, Obtaining fast-colored discharges on fast. W. Cotton. 1,638,475; Aug. 9.

- Dyeings, Production of fast. F. Peterhauser. 1,645,925; Oct. 18.
- Dyes and making same, Intermediate products for the synthesis of. H. Fritzsche, E. Krummenacher, H. Gubler, and O. Kaiser. 1,625,530; Apr. 19.
- Dyes and making same, Intermediate products for the synthesis of azo. H. Fritzsche, E. Krummenacher, H. Gubler, and O. Kaiser. 1,625,531; Apr. 19.
- Dyes and making same, Intermediate products for the synthesis of azo. H. Fritzsche, E. Krummenacher, H. Gubler, and O. Kaiser. 1,625,533; Apr. 19.
- Dyes and manufacture, Tetrakisazo. J. B. Oesch. 1,615,551; Jan. 25.
- Dyes, Black sulphurized naphthol. C. H. Marschalk. 1,641,182; Sept. 6.
- Dyes, Making intermediate products for the manufacture of azo. H. Fritzsche, E. Krummenacher, H. Gubler, and O. Kaiser. 1,625,532; Apr. 19.
- Dyes, Manufacturing. W. Penecke. 1,615,646; Jan. 25.
- Dynamite, Low-density. J. Marshall. 1,614,447; Jan. 11.
- Dynamite magazine, Transportable. G. M. Norman. 1,625,491; Apr. 19.
- Dynamo. J. C. Campbell. 1,634,770; July 5.
- Dynamo-electric machine. H. T. Lang. 1,623,846; Apr. 6.
- Dynamo-electric machine. J. C. Lincoln. 1,618,962; Feb. 22.
- Dynamos, Belt-driving device for railway-carriage. H. Gallou. 1,622,315; Mar. 29.
- Dynamos of variable speed and load, Regulating the voltage of. H. Bénit. 1,621,452; Mar. 15.
- Dynamometer. G. E. Chatillon. 1,647,272; Nov. 1.
- Dynamometer. F. Faber. 1,614,354; Jan. 11.
- Dynamometer, Deflection. E. M. Matthews and J. A. Carr. 1,631,143; June 7.
- Dynamometer fluid. J. Tracy. 1,642,095; Sept. 13.
- Dynamometer gauge. T. H. Frost and P. Heymans. 1,623,238; Apr. 5.
- Ear-corn cleaner. M. Bakker. 1,621,575; Mar. 22.
- Ear phone. D. A. Reynolds. 1,630,028; May 24.
- Earpiece for sound receivers. H. Morser. 1,615,028; Jan. 18.
- Ear protector. A. A. Thompson. 1,619,772; Mar. 1.
- Ear protector. B. M. Walsh. 1,651,650; Dec. 6.
- Ear protector. G. H. and V. E. Wiegand. 1,628,483; May 10.
- Earring. R. Hahn. Des. 73,566; Oct. 4.
- Ear-testing device. M. J. Haffey. 1,642,923; Sept. 20.
- Earth-boring drill. C. E. Reed. 1,636,665-6; July 19.
- Earth boring, Rotary for. E. E. Grove. 1,612,974; Jan. 4.
- Earth, Compacting. C. N. Friz. 1,650,827; Nov. 29.
- Earth-treating process. Fullers-. R. R. Rosenbaum. 1,649,193; Nov. 15.
- Earth-working implement. J. B. Smith. 1,628,562; May 10.
- Earthen material to metal, Applying. F. S. McCullough. 1,615,022; Jan. 18.
- Earthy material, Machine for treating. R. E. Bressler. 1,622,762; Mar. 29.
- Ensel. N. E. Harris. 1,637,255; July 26.
- Ensel. H. G. Huebner. 1,634,715; July 13.
- Ensel, Display. G. H. Alles. 1,627,183; May 3.
- Ensel, Folding. F. O. Matsson. 1,625,904; Apr. 26.
- Ensel, Folding wire. E. Ramlin. 1,648,243; Nov. 8.
- Ensel mount, Foldable. J. A. Cameron. 1,635,030; July 5.
- Easy chair. H. S. Bere. 1,614,226; Jan. 11.
- Eaves, Producing ornamented. J. D. Stoakes. 1,642,903; Sept. 20.
- Eaves-trough elbow. M. Rachlin. 1,642,556; Sept. 13.
- Eaves-trough hanger. C. G. Inman. 1,630,746; May 31.
- Eaves-trough hanger. F. C. Richner. 1,635,690; July 12.
- Eaves-trough hanger. J. C. Wilson. 1,635,871; July 12.
- Eaves-trough hanger. S. C. Wilson. 1,639,916; Aug. 23.
- Eaves-trough support. C. P. Mullen. 1,632,036; June 14.
- Ebonite, Manufacturing porous bodies, Diaphragms, filters, and the like of. M. Wilderman. 1,631,567; Dec. 6.
- Eccentric, Adjustable. P. Buffard. 1,631,466; June 14.
- Economizer boiler. E. S. Hight. 1,632,291; June 7.
- Edge folder. W. M. Wheeldon. 1,625,178; Apr. 19.
- Edge-setting machine. L. E. Topham. 1,616,717; Feb. 8.
- Edge tools and special composition of steel for same, Manufacturing. A. E. G. T. Von Vegesack. 1,644,097; Oct. 4.
- Edge-trimming machine. L. E. Topham. 1,616,715; Feb. 8.
- Edger. G. S. Sergeant. 1,654,435; Dec. 27.
- Edging machine. L. H. Fisher. 1,636,469; July 19.
- Edging machine. H. J. Gaisman and C. Schumacher. 1,637,074; July 26.
- Edging machine. W. A. Gunning. 1,630,264; May 31.
- Edging machine. P. H. Lange. 1,615,711; Jan. 25.
- Edging machine. A. Maynard. 1,619,358; Mar. 1.
- Educational and amusement device. A. C. Daman. 1,647,276; Nov. 1.
- Educational and game device. H. Wolke. 1,617,831; Feb. 15.
- Educational apparatus. J. O. B. Jacobsen. 1,634,289; July 5.
- Educational apparatus. P. E. Klopsteg. 1,636,234; July 19.
- Educational apparatus. C. A. Peterson. 1,617,272; Feb. 8.
- Educational appliance. J. J. R. Guichard. 1,630,939; May 31.
- Educational appliance. D. Vershinsky. 1,624,450; Apr. 12.
- Educational board. S. G. Mayers. 1,618,952; Feb. 22.
- Educational device. R. G. Deming. 1,649,578; Nov. 15.
- Educational device. M. A. Gaines. 1,634,713; July 5.
- Educational device. M. Kahn. 1,645,008; Oct. 11.
- Educational device. A. E. MacQuarrie. 1,621,262; Apr. 13.
- Educational device. A. E. Miller. 1,641,773; Sept. 6.
- Educational device. G. E. Randall. 1,614,390; Jan. 11.
- Educational device. J. W. Studebaker. 1,617,657; Feb. 15.
- Educational device. H. H. Walters. 1,618,560; Feb. 22.
- Educational device for teaching spelling. H. H. Steele. 1,619,160; Mar. 1.
- Educational work and play, Base frame for primary. A. H. Stewart. 1,627,211; May 3.
- Egg and process therefor, Preserved. H. F. Zoller. 1,643,913; Sept. 27.
- Egg beater. O. R. Boynton. 1,627,314; May 3.
- Egg beater. F. E. Corwin. 1,637,103; July 26.
- Egg beater. R. W. Jackson. 1,615,386; Jan. 25.
- Egg beater. R. B. Lienhard. 1,623,256; Apr. 5.
- Egg beater. R. G. Maxwell. 1,616,817; Feb. 8.
- Egg-beater holder. R. W. Douglas. 1,617,747; Feb. 15.
- Egg beater, Sanitary. A. A. Kopenhaber. 1,629,956; May 24.
- Egg beaters, Brace for agitator blades of. E. N. Humphrey. 1,647,800; Nov. 1.
- Egg boiler, Automatic. P. P. Chapin and W. J. Kupec. 1,623,093; Apr. 5.
- Egg-candling device. W. B. Hausman. 1,652,983; May 24.
- Egg-case filler. J. F. Schloemer. 1,644,898; Oct. 11.
- Egg cases, Apparatus for removing contents of. H. G. Collis. 1,639,487; Aug. 16.
- Egg container. N. B. Parrish. 1,631,055; May 31.
- Egg crate. B. A. Lange. 1,618,381; Feb. 22.
- Egg crate. D. M. Russell and J. H. Shley. 1,621,904; Mar. 22.
- Egg-dumping board. C. C. Craig. 1,622,493; Mar. 29.
- Egg holder. A. Hope. 1,622,143; Mar. 22.
- Egg-marking device. J. Schierenbeck. 1,641,238; Sept. 6.
- Egg meter. A. K. Wilke. 1,645,468; Oct. 11.
- Egg opener. G. O. Bessette. 1,648,379; Nov. 15.
- Egg-peeling device. D. C. Fowler. 1,644,119; Oct. 4.
- Egg-preservation process and product thereof. A. J. Bellamy. 1,639,549; Aug. 16.
- Egg preserver. H. Bogan. 1,627,141; May 3.
- Egg product and making same. C. H. Parsons. 1,630,756; May 31.
- Egg separator. C. L. Christian and J. R. Boustead. 1,646,682; Oct. 25.
- Egg sheller. J. T. Snapp. 1,618,682; Feb. 22.
- Egg supporting and turning device. D. M. Torrance. 1,643,102; Sept. 20.
- Egg-testing device. M. Shapiro. 1,643,093; Sept. 20.
- Egg tray. E. G. Calkins. 1,616,782; Feb. 8.
- Egg-turning device. G. M. Turpin. 1,638,072; Aug. 9.
- Egg-turning rack. H. A. Hilton. 1,616,972; Feb. 8.
- Eggs, Device for candling. E. H. Mueller. 1,638,870; Aug. 16.
- Eggs, Preserving. G. Hofmann. 1,635,843; July 12.
- Eggs, Treating. M. Kasser. 1,636,420; July 19.
- Ejector mechanism. H. D. Yoder. 1,617,093; Feb. 8.
- Ejector, Saliva. J. R. MacKinnon. 1,620,773; Mar. 15.
- Elastic filament, Machine for covering. C. B. Webster. 1,642,523; Sept. 13.
- Elastic strapping. H. J. Martin. 1,620,162; Mar. 8.
- Elastic webbing. G. E. Clauss. 1,644,667; Oct. 11.
- Elastic webbing. G. E. Clauss. 1,644,816; Oct. 11.
- Elastic webbing. H. S. Guild. 1,628,361; May 10.
- Elastic wheel. J. I. Duchateau. 1,628,533; May 10.
- Elaterite, Refining. R. E. Haughey. 1,653,766; Dec. 27.
- Elbow-bending machine. F. W. Engelke. 1,622,426; Mar. 29.
- Elbows, Guide for cutting. C. H. Wagner. 1,646,129; Oct. 15.
- Electric accumulator casing. W. Haddon. 1,633,094; June 21.
- Electric air heater. W. W. Hicks. Des. 73,432-3; Sept. 13.
- Electric air heater. W. W. Hicks. Des. 73,502; Sept. 20.
- Electric and air switch, Automatic. H. E. Drabing. 1,643,233; Sept. 20.
- Electric and the like machine, Magneto-. M. Schäfer, W. Hähnel, and W. Walther. 1,650,879; Nov. 29.
- Electric apparatus. P. C. Hewitt. 1,638,158; Aug. 9.
- Electric apparatus, Control of. M. Buchholz. 1,642,400; Sept. 13.
- Electric apparatus, Controlling. M. Buchholz. 1,642,398; Sept. 13.
- Electric apparatus, Controlling liquid-insulated. M. Buchholz. 1,642,399; Sept. 13.
- Electric apparatus, Protecting. M. Buchholz. 1,640,310; Aug. 23.
- Electric apparatus, Protecting liquid-insulated. M. Buchholz. 1,642,397; Sept. 13.
- Electric apparatus. Protection of. M. Buchholz. 1,642,402; Sept. 13.
- Electric apparatus, Protective system for. M. Buchholz. 1,640,309; Aug. 23.

- Electric apparatus serving as a dynamo or motor and as an engine starter. L. Lanquetin. 1,644,065; Oct. 4.
- Electric apparatus and system of protection of. M. Buchholz. 1,642,406; Sept. 13.
- Electric-appliance support and connection. J. W. Hooley. 1,647,002; Oct. 25.
- Electric-arc cutting and welding apparatus, Transformer for. F. C. Owen. 1,637,237; July 26.
- Electric-arc cutting and welding apparatus, Transformer for. F. C. Owen. 1,647,928; Nov. 1.
- Electric-arc-welding apparatus, Transformer for. F. C. Owen. 1,619,753; Mar. 1.
- Electric assembling machine. E. N. Taylor. 1,648,010; Nov. 8.
- Electric audible signal. F. E. Detmers. 1,622,862; Mar. 29.
- Electric battery and making the same. E. Powers. 1,634,850; July 5.
- Electric-bracket outlet. O. A. Frederickson. 1,624,547; Apr. 12.
- Electric brake. J. Joyce. 1,652,362; Dec. 13.
- Electric brake. H. Karl. 1,649,597; Nov. 15.
- Electric brake. O. F. Shepard. 1,628,202; May 10.
- Electric bulb, Incandescent. F. L. Weiss. 1,641,465; Sept. 6.
- Electric bulb, Plural-filament. E. R. Cloward. 1,636,460; July 19.
- Electric bulbs, Apparatus for removing and inserting. J. L. Berry and W. Holden. 1,619,559; Mar. 1.
- Electric butt-seam welding and apparatus therefor. F. L. Sessions. Re16,804; Nov. 29.
- Electric butt-seam welding and apparatus therefor. F. L. Sessions. 1,630,866; May 31.
- Electric cable, High-tension. L. Emanuelli. 1,647,563; Nov. 1.
- Electric cables, Terminal plug and sheath for. H. Kocourek. 1,643,462; Sept. 27.
- Electric calling device. A. W. Whittlecroft. 1,645,563; Oct. 18.
- Electric candle cup. J. A. Boehringer. Des. 72,931; June 28.
- Electric cell. S. Apostoloff. 1,617,230; Feb. 8.
- Electric cell. C. Féry. 1,621,481; Mar. 15.
- Electric cell with constant intensity. J. Pellini. 1,621,518; Mar. 22.
- Electric cigar lighter. M. H. Schoenberg and L. Schon. Des. 72,040; Feb. 15.
- Electric-circuit-closing plug. F. Dominick. 1,628,636; May 10.
- Electric-circuit-control device. C. E. Sickler. 1,619,638; Mar. 1.
- Electric-circuit-controlling apparatus. S. G. Fisher. 1,631,024; May 31.
- Electric-circuit-controlling apparatus. J. W. Townley. 1,627,357; May 3.
- Electric-circuit-controlling apparatus. J. E. Long. Re16,809; Dec. 6.
- Electric-circuit interrupter, Repeating. E. Alchele. 1,614,223; Jan. 11.
- Electric-circuit making and breaking relay. R. Hase. 1,620,967; Mar. 15.
- Electric circuits, Apparatus for controlling. W. Schwagerman. 1,622,004; Mar. 22.
- Electric circuits, Protective device for. C. J. Saxtell. 1,629,332; May 17.
- Electric circuits, Regulation of. F. L. Requa. 1,625,282; Apr. 19.
- Electric circuits, Thermal protective device for. O. Dreyer. 1,636,953; July 26.
- Electric circuits, Transmission tower for. P. H. Thomas. 1,616,931; Feb. 8.
- Electric condenser. O. Burger. 1,621,058; Mar. 15.
- Electric condenser. W. Dubiller. 1,627,495; May 3.
- Electric condenser. P. R. Fortin. 1,614,113; Jan. 11.
- Electric condenser. H. B. Reppart. 1,625,094; Apr. 19.
- Electric condenser, Variable. F. R. Machin. 1,641,979; Sept. 13.
- Electric condenser, variometer, and the like, Variable. A. F. Holliday. 1,621,253; Mar. 15.
- Electric conductor, Composite. D. Basch. 1,637,033; July 26.
- Electric conductor, Paper-insulated. J. R. Long. 1,636,748; July 26.
- Electric-conductor terminal. O. H. Maurer. 1,625,485; Apr. 19.
- Electric conductors, Connector for. R. C. Armen. 1,648,887; Nov. 15.
- Electric conductors, Connector for. F. F. Hillix. 1,643,659; Sept. 27.
- Electric conductors, Metal cross arm for supporting. L. H. Hardin. 1,640,828; Aug. 30.
- Electric conductors, Reel for. A. E. F. Moore. 1,636,193; July 19.
- Electric conduits, Connector for. H. E. Plunkett. 1,650,233-4; Nov. 22.
- Electric connector. J. Berg. 1,627,306; May 3.
- Electric connector. A. H. Simmons. 1,637,059; July 26.
- Electric connector for branch circuits. A. W. Reiser. 1,626,875; May 8.
- Electric connecting system for the purposes of telecontrol. M. Schuler. 1,648,915; Nov. 15.
- Electric connection device. P. Hartmann. 1,649,305; Nov. 15.
- Electric contact plug. E. C. Pénin. 1,628,683; May 17.
- Electric control device. E. L. Fonseca. 1,622,635; Mar. 29.
- Electric control device, Pressure-actuated. I. E. McCabe. 1,636,191; July 19.
- Electric control system, Selective. S. Olson. 1,645,619; Oct. 18.
- Electric controller. H. E. Campbell. 1,652,391; Dec. 13.
- Electric controller. J. E. Sederholm. 1,619,960; Mar. 8.
- Electric controllers, Operating mechanism for. C. T. Evans. 1,638,838; Aug. 16.
- Electric-cord anchorage. W. P. Leahy. 1,625,477; Apr. 19.
- Electric-cord connector. G. Davies and A. C. Mires. 1,613,647; Jan. 11.
- Electric-cord reel. P. Buddendorf. 1,636,587; July 19.
- Electric-cord-supporting device. J. F. Hubener. 1,636,866; July 19.
- Electric coupling. J. R. Gammeter. 1,616,654; Feb. 8.
- Electric-crystal apparatus, Piezo-. C. W. Hough. 1,619,125; Mar. 1.
- Electric-crystal apparatus, Piezo-. E. L. Powell. 1,654,189; Dec. 27.
- Electric crystal system, Piezo-. A. H. Taylor. 1,639,817; Aug. 23.
- Electric-current-affecting device. H. J. Murray. 1,647,652; Nov. 1.
- Electric current. Apparatus for controlling and distributing. G. Roucaurol. 1,621,279; Mar. 15.
- Electric current, Converter of. F. G. Simpson. 1,625,504; Apr. 19.
- Electric-current-dispensing device. W. E. Knowles. 1,649,354; Nov. 15.
- Electric current in a three-wire circuit, Measuring the flow of. S. L. B. Lines. 1,634,546; July 5.
- Electric current, Method and apparatus for transmitting. J. A. Rose. 1,627,409; May 3.
- Electric-current regulator. T. P. Peterson. 1,623,492; Apr. 5.
- Electric-current regulator, Automatic. W. Langdon-Davies and A. Soames. 1,615,018; Jan. 18.
- Electric currents to vacuum tubes, Apparatus for supplying. F. Zacher. 1,623,569; Apr. 5.
- Electric-current transmission. W. J. Adams, jr. 1,616,162; Feb. 1.
- Electric current, Vibratory distributor of. E. S. Sandberg. 1,635,802; July 12.
- Electric currents, Crystal detector of. H. M. Dowsett. 1,645,623; Oct. 18.
- Electric currents, Filter for periodic. M. K. Zinn. 1,632,814; June 21.
- Electric currents for therapeutic purposes, Portable apparatus for producing and applying. C. Firpo. 1,647,691; Nov. 1.
- Electric currents, Optical means for generating, amplifying, and controlling. W. W. Coblentz. 1,640,393; Aug. 30.
- Electric currents, Spark intensifier for. G. M. Smith. 1,623,982; Apr. 12.
- Electric cut-out. C. I. Hall. 1,626,462; Apr. 26.
- Electric cut-out, Automatic. A. E. Hague. 1,653,804; Dec. 27.
- Electric detonators, Protecting device for. H. L. Grant. Re16,544; Feb. 8.
- Electric differential control system. E. Granat. 1,616,794; Feb. 8.
- Electric-discharge device. E. E. Charlton. 1,648,293; Nov. 8.
- Electric discharge device. J. B. Johnson. 1,632,080; June 14.
- Electric-discharge device, Low-impedance. H. C. Snook. 1,629,009; May 17.
- Electric-discharge devices, Circuit for. R. W. Chestnut. 1,647,605; Nov. 1.
- Electric discharge devices, Control apparatus for. O. E. Buckley. 1,649,016; Nov. 15.
- Electric discharge devices, Electrode for. F. Skaupy. M. Pirani, F. Bahr, and W. Fehse. 1,640,428; Aug. 30.
- Electric discharge devices, Controlling the distribution of. E. L. Harrington. 1,616,044; Feb. 1.
- Electric distribution, System of. H. Bany. 1,615,670; Jan. 25.
- Electric distribution, System of. F. J. Champlin. 1,626,451; Apr. 26.
- Electric distribution, System of. F. J. Champlin. 1,651,869; Dec. 6.
- Electric distribution, System of. J. F. Spease. 1,651,844; Dec. 6.
- Electric distribution system. P. Torchio. 1,652,261; Electric drill. F. P. Fors. 1,652,401; Dec. 13.
- Electric distribution, System of. N. Japolsky and M. Kostenko. 1,617,394; Feb. 15.
- Electric droplight fixture. R. S. Aspinwall. Des. 72,130-1; Mar. 8.
- Electric elevator. T. F. Scollard. 1,634,854; July 5.
- Electric-energy-translation system. A. G. Landen. 1,647,998; Nov. 8.
- Electric extension plugs, Attachment for an. E. T. Scaock. 1,635,507; July 12.
- Electric fires, radiators, and the like, Heating element for. H. H. Berry and J. W. Reld. 1,620,627; Mar. 15.
- Electric fitting. C. E. Godley. 1,630,936; May 31.
- Electric fitting. M. Peterson and M. J. Danielson. 1,635,903; July 12.
- Electric fitting. W. A. Stacey. 1,639,541; Aug. 10.
- Electric fixture. M. K. Maxwell. 1,620,909; Mar. 15.

- Electric-fixture attachment. P. W. Sprecher. 1,649,497; Nov. 15.
- Electric-fixture support and connector. R. B. Benjamin. 1,631,997; June 14.
- Electric fixtures, Adjustable wall-bracket hanger for. E. R. Graham. 1,648,117; Nov. 8.
- Electric fixtures, Handle for assembling parts of. H. T. Paiste. 1,629,405; May 17.
- Electric frying pan. E. J. Rohne. 1,629,737; May 24.
- Electric furnace. H. O. Breaker. 1,636,041; July 19.
- Electric furnace. V. J. Chapman. 1,645,091; Oct. 11.
- Electric furnace. J. R. Coe. 1,615,109; Jan. 18.
- Electric furnace. F. T. Cope. 1,624,217; Apr. 12.
- Electric furnace. F. T. Cope and R. F. Benzing. 1,647,726; Nov. 1.
- Electric furnace. D. Croese. 1,642,359; Sept. 13.
- Electric furnace. F. A. J. Fitz Gerald. 1,643,508; Sept. 27.
- Electric furnace. F. A. J. Fitz Gerald. 1,646,058; Oct. 18.
- Electric furnace. C. B. Foley. 1,640,926; Aug. 30.
- Electric furnace. L. H. Giddings. 1,632,126; June 14.
- Electric furnace. A. E. Greene. 1,616,796; Feb. 8.
- Electric furnace. A. E. Greene. 1,654,419; Dec. 27.
- Electric furnace. W. J. Keenan. 1,641,704; Sept. 6.
- Electric furnace. A. D. Keene. 1,622,650-1; Mar. 29.
- Electric furnace. A. D. Keene. 1,624,344; Apr. 12.
- Electric furnace. A. D. Keene. 1,638,867; Aug. 16.
- Electric furnace. A. D. Keene. 1,643,774; Sept. 27.
- Electric furnace. J. Kelleher. 1,637,486; Aug. 2.
- Electric furnace. J. A. Seede. 1,626,431; Apr. 28.
- Electric furnace. J. A. Seede. 1,645,074; Oct. 11.
- Electric furnace. J. A. Seede. 1,646,221; Oct. 18.
- Electric furnace. J. A. Seede. 1,650,658; Nov. 29.
- Electric furnace. E. L. Smalley. 1,614,321; Jan. 11.
- Electric furnace. C. Steenstrup. 1,645,119; Oct. 11.
- Electric furnace. I. R. Valentine. 1,628,376; May 10.
- Electric furnace. J. M. Weed. 1,650,675; Nov. 29.
- Electric furnace. J. C. Woodson. 1,622,821-2; Mar. 29.
- Electric furnace. J. C. Woodson. 1,633,967; June 28.
- Electric furnace, High-frequency. F. Gerich. 1,645,526; Oct. 18.
- Electric furnace, Open. P. L. J. Miguet. 1,654,139; Dec. 27.
- Electric fuse. H. T. Bussmann. 1,629,948; May 24.
- Electric-fuse indicator. F. Scordamaglia. 1,641,203; Sept. 6.
- Electric gas-filled discharge device. G. Holst, E. Oosterhuis, and J. Bruijnes. 1,617,684; Feb. 15.
- Electric gas switch. W. H. Overton. 1,630,212; May 24.
- Electric generator. B. P. Remy. 1,621,469; Mar. 15.
- Electric generator, Thermal. D. T. Simonds. 1,648,700; Nov. 8.
- Electric governor. L. W. Burnett. 1,650,786; Nov. 29.
- Electric governor. H. K. Whitehorn. 1,646,672; Oct. 25.
- Electric grate. I. M. Marks. Des. 73,005-6; July 5.
- Electric hair curler. A. J. Buchl. 1,631,189; June 7.
- Electric heat element. S. L. Kelly. 1,649,023; Nov. 15.
- Electric heater. C. C. Abbott. 1,614,168; Jan. 11.
- Electric heater. C. C. Abbott. 1,651,361; Dec. 6.
- Electric heater. A. W. Daniel. 1,638,573; June 28.
- Electric heater. A. M. Duffie. 1,625,989; Apr. 26.
- Electric heater. G. Eaton. Des. 73,560; Oct. 4.
- Electric heater. W. E. Hudson. 1,631,484; June 7.
- Electric heater. A. Johnson. 1,620,787; May 15.
- Electric heater. A. Johnson. 1,636,369; July 19.
- Electric heater. A. J. Kercher and W. W. Hicks. 1,617,916; Feb. 15.
- Electric heater. W. F. Long. 1,615,950; Feb. 1.
- Electric heater. F. H. McCormick. Des. 73,439; Sept. 13.
- Electric heater. E. Midulla. 1,631,753; June 7.
- Electric heater. J. Schoenfeld. 1,649,421; Nov. 15.
- Electric heater. J. E. Sederholm. 1,620,296; Mar. 8.
- Electric heater. H. N. Shaw. 1,629,744; May 24.
- Electric heater. R. S. Smart. 1,634,046; June 28.
- Electric heater. C. L. Wright. 1,646,345; Oct. 25.
- Electric heater. H. A. Ziola. 1,630,649; May 31.
- Electric heater base or similar article. A. H. Simmons. Des. 72,336; Mar. 29.
- Electric heater circuits, Switching arrangement for. W. R. Walker. 1,630,232; May 24.
- Electric heater, Clamp-on. P. L. Fowler. 1,642,197; Sept. 13.
- Electric heater for waving or curling the hair. E. F. Suter. 1,617,138; Feb. 8.
- Electric heater, Manifold. W. Besser. 1,625,448; Apr. 19.
- Electric heater unit. O. A. Colby. 1,638,820; Aug. 16.
- Electric heaters, Making. E. N. Lightfoot. 1,640,361; Aug. 30.
- Electric heating. J. A. Seede. 1,646,498; Oct. 25.
- Electric heating device. A. and M. Bersted. 1,622,485; Mar. 29.
- Electric heating device. L. Reichold. 1,613,770; Jan. 11.
- Electric heating unit. A. D. Keene and C. Elhrgott. 1,634,222; Dec. 27.
- Electric impulses, Device for counting. M. B. Richter. 1,615,884; Feb. 1.
- Electric impulses, Method of and device for transmitting. E. A. Fuller and E. E. Kleinschmidt. 1,620,638; Mar. 15.
- Electric indicating means. M. J. Huggins. 1,617,287; Feb. 8.
- Electric ionic medication. Instrument for. W. Richter. 1,652,327; Dec. 13.
- Electric iron. C. A. Brewer. 1,649,500; Nov. 15.
- Electric iron. F. A. Fahrenwald. 1,648,169; Nov. 8.
- Electric iron. J. M. Wintrob. 1,631,779; June 7.
- Electric-iron cord holder. W. G. Aufenast. 1,644,061; Oct. 11.
- Electric jump-spark coil. C. H. Thordarson. 1,629,132; May 17.
- Electric key socket. C. S. Mallett and W. J. Aldis. 1,628,415; May 10.
- Electric-lift machine and the like. J. B. M. Knutsen. 1,625,349; Apr. 5.
- Electric lifts and the like, Apparatus for the control and operation of. J. B. M. Knutsen. 1,639,190; Aug. 16.
- Electric-light bracket. J. R. Buchanan and R. H. Abbott. Des. 72,085; Mar. 1.
- Electric-light bracket. W. S. Snow. Des. 72,686; May 17.
- Electric-light bulb, Multiple-color. G. M. Parks. 1,649,975; Nov. 22.
- Electric-light bulbs, Mask for. E. G. Chase. 1,625,591; Apr. 19.
- Electric-light bulbs, Mask for. E. G. Chase. 1,642,646; Sept. 13.
- Electric-light equipment. L. P. Graner. 1,652,981; Dec. 13.
- Electric-light fixture. N. E. Chapman. Des. 73,897-8; Nov. 22.
- Electric-light fixture. G. B. Kurtzon. 1,644,926; Oct. 11.
- Electric-light fixture. G. Lipschutz. Des. 72,215; Mar. 15.
- Electric-light fixture. G. Lipschutz. Des. 72,714; May 24.
- Electric-light fixture. G. Lipschutz. Des. 73,386; Aug. 30.
- Electric-light fixture. G. Lipschutz. Des. 73,706; Oct. 25.
- Electric-light fixture. C. W. Logan. Des. 72,320; Mar. 29.
- Electric-light fixture, Hanging. J. Short. Des. 73,873; Nov. 15.
- Electric-light fixtures, Arm for. C. W. Logan. Des. 72,376; Apr. 5.
- Electric-light fixtures, Bobeche for. J. R. Buchanan and R. H. Abbott. Des. 72,086; Mar. 1.
- Electric-light fixtures or similar articles, Bridge arm for. F. M. Portitz. Des. 72,570-2; May 3.
- Electric-light fixtures or similar articles, Column for. F. M. Portitz. Des. 72,573-5; May 3.
- Electric-light fixtures, Wall plate for. C. W. Logan. Des. 72,321; Mar. 29.
- Electric-light fixtures, Wall plate for. F. Yokel. Des. 73,375; Aug. 23.
- Electric-light housing. C. W. Dake. 1,634,399; July 5.
- Electric light, Portable. H. A. Walker. 1,652,964; Dec. 13.
- Electric-light shade. W. W. Dunn, jr. Des. 73,371; Aug. 30.
- Electric-light shade. L. H. Oliver. 1,616,227; Feb. 1.
- Electric-light-socket adapter. M. Baum. Des. 73,821; Nov. 15.
- Electric-lighting fixture. H. Friedman. Des. 71,789; Jan. 4.
- Electric-lighting fixture. H. Friedman. Des. 71,964-8; Feb. 8.
- Electric-lighting fixture or similar article, Arm for an. G. E. McFadden. Des. 73,854; Nov. 15.
- Electric-lighting fixture or similar article, Decorative metal panel for an. G. E. McFadden. Des. 73,855; Nov. 15.
- Electric-lighting fixture or similar article, Scroll arm for an. G. E. McFadden. Des. 73,853; Nov. 15.
- Electric-lighting fixture or similar article, Wall-bracket back for an. G. E. McFadden. Des. 73,851; Nov. 15.
- Electric-lighting fixture or similar articles, Canopy for. J. A. Boehringer. Des. 72,973; July 5.
- Electric-lighting switch, Door-controlled. J. M. Kern. 1,619,134; Mar. 1.
- Electric-lighting switch, Door-controlled. J. M. Kern. 1,652,364; Dec. 13.
- Electric-lighting switch, Wall fixture or similar article. G. E. McFadden. Des. 73,852; Nov. 15.
- Electric lights, Automatic switch for. A. Berthel. 1,628,222; May 10.
- Electric lights, Dual-socket base and plug for. J. W. Mackenzie. 1,649,906; Nov. 22.
- Electric low-speed unit. O. Cullman. 1,637,106; July 26.
- Electric machine and winding therefor, Dynamo. W. H. Powell. 1,628,611-13; May 10.
- Electric machine and winding therefor, Dynamo. W. H. Powell. 1,641,644; Sept. 6.
- Electric-machine armatures and windings for same, Building dynamo. V. G. Apple. 1,631,186; June 7.
- Electric machine, Dynamo. F. Kesselring. 1,626,199; Apr. 26.
- Electric machine, Dynamo. E. R. Knight. 1,631,737; June 7.
- Electric machine, Dynamo. H. T. Lang. 1,635,047; July 5.
- Electric machine, Dynamo. M. Latour. 1,650,947; Nov. 29.
- Electric machine, Dynamo. M. L. Norris. 1,646,211; Oct. 18.
- Electric machine, Dynamo. S. G. Nottage. 1,643,785; Sept. 27.
- Electric machine, Dynamo. R. Pohl. 1,645,070; Oct. 11.

- Electric machine, Dynamo. H. K. Schrage. 1,632,628; June 14.
- Electric machine, Dynamo. S. A. Staeger. 1,638,890; Aug. 16.
- Electric machine, Dynamo. H. M. Stoller. 1,613,625; Jan. 11.
- Electric machine, Dynamo. H. M. Stoller. 1,641,359; Sept. 6.
- Electric machine for continuous current, High-speed dynamo. M. Kostenko and N. Japolsky. 1,624,254; Apr. 12.
- Electric machine, Inclosed dynamo. D. P. Thomson. 1,652,134; Dec. 6.
- Electric machine, Magneto. M. A. Pattay and E. Jaquemot. 1,648,564; Nov. 8.
- Electric machine with split poles. H. Papst. 1,620,608; Mar. 8.
- Electric machinery, Cooling. R. Ridenberg. 1,631,765; June 7.
- Electric machinery, Testing. A. Ytterberg. 1,624,457; Apr. 12.
- Electric machines and apparatus, Machine for tightening the insulation applied on winding bars of. E. Haefely. 1,633,741; June 28.
- Electric machines. Brush-shifting arrangement for dynamo. J. I. Hull. 1,648,688; Nov. 8.
- Electric machines, Control of dynamo. A. A. Pollock. 1,628,425; May 10.
- Electric machines, Cooling of dynamo. P. Faber. 1,633,845; Dec. 27.
- Electric machines, Frame for dynamo. J. F. Lincoln. 1,629,877; May 24.
- Electric machines, Protective device for dynamo. H. C. Hastings and C. J. Sarjeant. 1,631,726; June 7.
- Electric machines, Regulating or control system for dynamo. T. W. Ross. 1,647,313; Nov. 1.
- Electric machines, Regulating system for dynamo. R. E. Doherty. 1,633,808; June 28.
- Electric machines, Regulating system for dynamo. V. Karapetoff. 1,646,821; Oct. 25.
- Electric machines, Regulation of dynamo. V. Karapetoff. 1,646,822-3; Oct. 25.
- Electric machines, Rotor for dynamo. F. Laszlo. 1,629,081; May 17.
- Electric machines, Ventilation of dynamo. G. Lawiniec. 1,645,064; Oct. 11.
- Electric machines, Ventilation of dynamo. S. G. Nottage. 1,654,305; Dec. 27.
- Electric machines with split poles, Magnet frames for. H. Papst. 1,622,204; Mar. 22.
- Electric magnetic switch for controlling the circuits of train-lighting and similar installations. A. H. Darker. 1,636,900; July 26.
- Electric measuring instrument. L. A. Paine. 1,620,126; 8.
- Electric meter. W. H. Pratt. 1,637,408; July 26.
- Electric meter. G. Spertl. 1,619,002; Mar. 1.
- Electric meter. B. A. Warner. 1,615,731; Jan. 25.
- Electric meter and the mounting thereof. F. W. Erickson. 1,634,098; June 28.
- Electric-meter circuit. F. P. Church. 1,618,058; Feb. 15.
- Electric-meter cover. J. L. Hoyle. 1,631,684; June 7.
- Electric motor. E. N. Baker. 1,627,949; May 10.
- Electric motor. S. C. Benson. 1,652,999; Dec. 20.
- Electric motor. B. E. Getz. 1,646,400; Oct. 25.
- Electric motor. H. W. Jeannin. 1,638,531; Aug. 9.
- Electric motor. F. W. Merrill. 1,631,977; May 14.
- Electric motor. A. E. Oswald. 1,641,548; Sept. 6.
- Electric motor. H. K. Sandell. 1,634,852; July 5.
- Electric motor. V. Wisniewski. 1,635,372; July 12.
- Electric motor-control system. A. H. Jackson. 1,633,102; June 21.
- Electric motor, Inclosed and ventilated. C. L. Dunn and P. E. Keller. 1,645,496; Oct. 11.
- Electric motor-operated machines, Coin control for. W. Werner. 1,641,212; Sept. 6.
- Electric motor, Reciprocating. H. E. Fox. 1,637,813; Aug. 2.
- Electric motor, Reciprocating. C. S. Weyandt. 1,651,306; Aug. 29.
- Electric musical recorder. A. Barbieri. 1,637,674; Aug. 2.
- Electric operating mechanism. C. L. Perry. 1,648,741; Nov. 8.
- Electric oscillations, Arrangement for generating. O. Von Bronk. 1,645,557; Oct. 18.
- Electric outlet. W. W. Dodge, Jr. 1,648,582; Nov. 8.
- Electric overload protective system. J. Pfitzschner. 1,630,214; May 24.
- Electric plates, Preparing plexo. A. Hund. 1,649,828; Nov. 22.
- Electric plug. W. H. Clark. 1,627,594; May 10.
- Electric plug. T. W. Kirkman. 1,645,650; Oct. 18.
- Electric plug and controller, Combined. E. Anthony. 1,613,261; Jan. 4.
- Electric plug, Multiple-socket. I. F. Gilms. 1,650,869; Nov. 29.
- Electric power-transmission system. A. M. Taylor. 1,638,647; Aug. 9.
- Electric press. A. R. Braun. 1,644,911; Oct. 11.
- Electric protective system. M. Buchholz. 1,642,405; Sept. 13.
- Electric receptacle. J. W. Phelps. 1,623,205; Apr. 5.
- Electric rectifier. M. B. Stazak. 1,647,418; Nov. 1.
- Electric regulator. F. A. Byles. 1,650,604; Nov. 29.
- Electric regulator. F. A. Byles. 1,652,928; Dec. 13.
- Electric regulating system. W. Brückel. 1,641,732; Sept. 6.
- Electric relay. L. B. Turner. 1,642,861; Sept. 20.
- Electric saloon. J. E. Marsden. 1,644,139; Oct. 4.
- Electric safety apparatus. J. D. Lewis and A. Pinto. 1,646,028; Oct. 18.
- Electric safety device. C. E. Hanny. 1,640,701; Aug. 30.
- Electric safety lock. H. Blenert. 1,614,058; Jan. 11.
- Electric signal. C. W. Dunham. 1,647,858; Nov. 1.
- Electric signal impulses, Method of and apparatus for amplifying. H. F. Herbig. 1,643,713; Sept. 27.
- Electric signaling and indicating apparatus. H. M. Proud. 1,629,049; May 17.
- Electric-socket cover. J. A. Boehringer. Des. 72,928; June 28.
- Electric socket structure. M. Herskovitz. 1,627,238; June 28.
- Electric socket support and housing. F. A. Frerichs. 1,635,662; Aug. 9.
- Electric socket switch. W. F. Conklin. 1,632,174; June 14.
- Electric spark gap. C. L. A. M. Leblanc. 1,613,709; June 14.
- Electric steam boiler. E. Schleck. 1,636,788; July 26.
- Electric step-by-step motor. H. Clausen. 1,653,946; Dec. 27.
- Electric substations, Switching arrangement for. R. C. Minton. 1,633,490; June 21.
- Electric switch. C. Aalborg. 1,638,905; Aug. 16.
- Electric switch. C. Aalborg and O. A. Colby. 1,650,924; Nov. 29.
- Electric switch. C. E. Anderson. 1,627,304; May 3.
- Electric switch. E. G. K. Anderson. 1,642,528; Sept. 13.
- Electric switch. A. J. Ashford. 1,646,440; Oct. 25.
- Electric switch. W. A. Atwood. 1,628,448; May 10.
- Electric switch. F. A. Boettcher. 1,636,895; July 26.
- Electric switch. G. A. Burham. 1,631,913; June 7.
- Electric switch. P. C. Butte. 1,642,870; Sept. 20.
- Electric switch. H. E. Campbell and E. F. Mekeburg. 1,638,617; Aug. 9.
- Electric switch. D. H. Chason. 1,641,134; Aug. 30.
- Electric switch. C. Christensen and P. G. Langley. 1,653,086; Dec. 20.
- Electric switch. H. P. Clausen. 1,624,391; Apr. 12.
- Electric switch. W. A. Coates, G. E. Gittins, and D. R. Davies. 1,630,372; May 31.
- Electric switch. S. B. Condit. 1,650,190; Nov. 22.
- Electric switch. E. L. Connell. 1,615,737; Sept. 13.
- Electric switch. R. H. Contry. 1,617,324; Feb. 15.
- Electric switch. G. L. Cragg. 1,634,455; July 5.
- Electric switch. D. R. Davies. 1,643,806; Sept. 27.
- Electric switch. F. C. Davis. 1,649,059; Nov. 15.
- Electric switch. R. C. Deale. 1,640,755; Aug. 30.
- Electric switch. F. G. Dorsey. 1,613,203; Jan. 4.
- Electric switch. H. A. Douglas. 1,635,908; July 5.
- Electric switch. R. G. Ely. 1,632,956; June 21.
- Electric switch. H. O. Engstrom. 1,638,658; Aug. 9.
- Electric switch. C. T. Evans and W. H. Holder. 1,649,893; Nov. 22.
- Electric switch. C. C. Ferguson. 1,653,354; Dec. 20.
- Electric switch. H. J. Frank. 1,633,578; June 28.
- Electric switch. H. G. French. 1,632,592; June 14.
- Electric switch. A. C. and E. G. Gaynor. 1,641,264; Sept. 6.
- Electric switch. B. E. Getchell. 1,622,907; Mar. 29.
- Electric switch. B. E. Getchell. 1,648,385; Nov. 8.
- Electric switch. D. G. Gordon. 1,644,620; Oct. 18.
- Electric switch. M. Guett. 1,643,210; Sept. 20.
- Electric switch. F. Henke. 1,649,590; Nov. 15.
- Electric switch. J. H. Hewitt. 1,649,694; Nov. 15.
- Electric switch. E. M. Hewlett and W. K. Rankin. 1,648,684; Nov. 8.
- Electric switch. J. D. Hilliard. 1,621,369; Mar. 15.
- Electric switch. J. D. Hilliard. 1,623,787; Apr. 5.
- Electric switch. J. D. Hilliard. 1,628,405; May 10.
- Electric switch. J. D. Hilliard. 1,631,681; June 7.
- Electric switch. H. J. H. Huber. 1,645,055; Oct. 11.
- Electric switch. W. He. 1,628,884; May 17.
- Electric switch. W. He. 1,630,044; July 5.
- Electric switch. A. M. Kinney. 1,645,387; Oct. 77.
- Electric switch. L. L. Kroupa. 1,647,300; Nov. 1.
- Electric switch. G. S. Leddicke. 1,626,469; Apr. 26.
- Electric switch. J. Lofgren. 1,648,022; Nov. 8.
- Electric switch. J. G. Lusby. 1,640,758; Oct. 25.
- Electric switch. H. M. Luther. 1,648,833; Nov. 8.
- Electric switch. M. P. Luther. 1,648,854; Nov. 8.
- Electric switch. G. Mann. 1,630,434; May 31.
- Electric switch. F. M. Mauk. 1,646,924; Oct. 25.
- Electric switch. W. E. McLaughlin. 1,649,480; Nov. 15.
- Electric switch. J. W. Meadowcroft. 1,635,551; July 12.
- Electric switch. G. J. McKee. 1,651,035; Nov. 29.
- Electric switch. J. H. Nelson. 1,634,432; July 5.
- Electric switch. J. H. Nelson. 1,640,614; Aug. 30.
- Electric switch. A. H. Nero. 1,632,670; June 14.
- Electric switch. A. H. Nero. 1,645,333; Oct. 11.
- Electric switch. H. E. Norviel. 1,641,352; Sept. 6.
- Electric switch. G. W. O'Keefe. 1,652,327; Dec. 13.
- Electric switch. E. L. Opperman. 1,645,519; Oct. 11.
- Electric switch. H. H. Osborn. 1,616,277; Feb. 1.
- Electric switch. T. A. Pangburn. 1,639,196-7; Aug. 16.
- Electric switch. J. A. Petrel. 1,625,149; Apr. 19.
- Electric switch. L. H. Phillips. 1,613,902; Jan. 11.
- Electric switch. E. Ratner. 1,647,250; Nov. 1.
- Electric switch. A. R. Rice. 1,639,533; Aug. 18.

- Electric switch. G. F. Scott. 1,630,359; May 31.
 Electric switch. H. E. Slade. 1,618,784; Feb. 22.
 Electric switch. H. A. Spahr. 1,620,165; Apr. 26.
 Electric switch. B. E. and L. Spero. 1,621,861; Mar. 22.
 Electric switch. J. E. Springer and R. A. Harry. 1,624,120; Apr. 12.
 Electric switch. E. Strauch. 1,615,245; Jan. 25.
 Electric switch. B. A. Tetzlaff. 1,644,797; Oct. 11.
 Electric switch. G. B. Thomas. 1,628,480; May 10.
 Electric switch. G. B. Thomas. 1,631,841; June 7.
 Electric switch. A. E. Tolin. 1,651,486; Dec. 6.
 Electric switch. G. B. Wadsworth. 1,614,052; Jan. 11.
 Electric switch. W. R. Walker. 1,638,131-2; Aug. 9.
 Electric switch. J. Whalen. 1,623,326; Apr. 5.
 Electric switch casing, Multipole. G. A. Burnham. 1,643,444; Sept. 27.
 Electric switch gear of the draw-out type, Metal-clad. W. Anderson and H. W. Clothier. 1,620,792; Mar. 15.
 Electric switch, Interlocking. W. B. Burke and E. G. Weiler. 1,636,932; July 26.
 Electric-switch mechanism, Time-controlled. L. T. Fen-leur. 1,625,411; Apr. 19.
 Electric-switch member. C. D. Platt. Des. 73,579; Oct. 4.
 Electric switch, Multiple-break. L. A. Brown. 1,636,984; July 26.
 Electric switch, Oil-immersed. F. Coates and J. Mirrey. 1,626,513; Apr. 26.
 Electric switch, Operating means. C. E. Hanny. 1,650,348; Nov. 22.
 Electric switch, Pressure. J. F. Winkler. 1,647,949; Nov. 1.
 Electric switch, Push-button. F. Decraene. 1,636,501; July 19.
 Electric switch, Step-by-step rotary. B. C. Garman and C. Oliver. 1,615,373; Jan. 25.
 Electric switch, Thermostatically-controlled. C. M. Holley. 1,639,655; Aug. 23.
 Electric switch, Thermostatically-operated. R. W. McBrien. 1,645,201; Oct. 11.
 Electric switches and other apparatus, Centrifugal mechanism for. L. S. Walle. 1,654,518; Dec. 27.
 Electric switches, Blow-out arrangement for. F. D. H. Bremner. 1,642,227; Sept. 13.
 Electric switches, Spring means for. B. E. Getchell. 1,629,911; May 24.
 Electric system, Dynamo. W. B. Churcher. 1,640,181; Aug. 23.
 Electric systems, Protection of. J. Biermanns. 1,650,593; Nov. 29.
 Electric systems, Protective arrangement for duplicate-feeder. R. W. Biles and J. Piquet. 1,652,086; Dec. 6.
 Electric systems, Relay for. F. J. Miles and C. S. Thompson. 1,622,042; Mar. 22.
 Electric terminal. F. C. Kelley. 1,633,815; June 28.
 Electric terminal. T. C. Russell. 1,654,143; Dec. 27.
 Electric testing instrument, Universal. E. Weinag and R. L. Macfarlane. 1,625,111; Apr. 19.
 Electric thermostat casing. A. F. Myer. Des. 73,667; Oct. 18.
 Electric thermostatic switch. A. U. Hook. 1,622,721; Mar. 29.
 Electric time-element device. F. N. Linstow. 1,643,852; Sept. 27.
 Electric timing switch. C. F. Amos. 1,644,100; Oct. 4.
 Electric toaster. F. A. Vollbrecht. 1,626,894; May 3.
 Electric toasting device. M. F. Fitzgerald. 1,639,403; Aug. 16.
 Electric torch for welding, brazing, and cutting. G. W. Crandall. 1,650,431; Nov. 22.
 Electric train control. W. E. Seutchall. 1,617,169; Feb. 8.
 Electric transmission system. E. Granat. 1,642,438; Sept. 13.
 Electric transmission system. E. H. Jacobs and C. F. Schoonmaker. 1,620,552; Mar. 8.
 Electric troncheon torch. A. McMurray. 1,637,650; Aug. 2.
 Electric vaporizer. M. Katzman. 1,628,784; May 17.
 Electric wall bracket. F. Craib. Des. 71,862; Jan. 18.
 Electric wall bracket. F. Craib. Des. 73,369; Aug. 30.
 Electric wall-bracket plate. J. A. Boehringer. Des. 72,960; June 23.
 Electric wall-bracket plate. J. A. Boehringer. Des. 72,932; June 28.
 Electric water heater. A. E. Cowles. 1,615,166; Jan. 18.
 Electric water heater. S. D. Nesmith. 1,640,047; Aug. 23.
 Electric water heater. N. F. Strauss. 1,614,974; Jan. 18.
 Electric wave filter. R. A. Helsing. 1,613,949; Jan. 11.
 Electric wave filter. K. S. Johnson. 1,613,952; Jan. 11.
 Electric-wave-modulating system. R. V. L. Hartley. 1,633,016; June 21.
 Electric-wave producing and changing device. H. J. Murray. 1,629,727; May 24.
 Electric wave signaling system. F. M. Ryan. 1,652,995; Dec. 13.
 Electric waves, Arrangement of connections for sending and receiving. C. Schwarz. 1,622,679; Mar. 29.
 Electric waves, Control of. F. Mohr. 1,636,146; July 19.
 Electric welding. T. E. Murray, jr. 1,640,798; Aug. 30.
 Electric welding. Hand shield for. F. M. Bowers. 1,652,973; Dec. 13.
 Electric welding, Resistance-regulating apparatus for. A. Smith. 1,653,070; Dec. 20.
 Electric welding tool. D. A. Reynolds. 1,617,354; Feb. 15.
 Electric-wire housing. J. D. Price. 1,643,725; Sept. 27.
 Electric wires and cables, Insulating paper for. J. R. Long. 1,613,170; Jan. 4.
 Electric wires, Apparatus for the manufacture of. H. B. Burley. 1,630,922; May 31.
 Electric wires, Connector for. W. Hughes. 1,619,517; Mar. 1.
 Electrical abrasion process. M. S. Clawson. 1,620,519; Mar. 8.
 Electrical apparatus. V. Bush. 1,617,178; Feb. 8.
 Electrical apparatus. V. Bush. 1,617,181; Feb. 8.
 Electrical apparatus. J. G. Campbell. 1,626,182; Apr. 26.
 Electrical apparatus. T. W. Case. 1,624,314; Apr. 12.
 Electrical apparatus. T. W. Case. 1,631,085; May 31.
 Electrical apparatus. T. W. Case. 1,647,502; Nov. 1.
 Electrical apparatus. L. O. Grondahl and H. M. Ryder. 1,625,996; Apr. 26.
 Electrical apparatus. L. O. Grondahl and H. M. Ryder. 1,629,868; May 24.
 Electrical apparatus. C. F. Kettering. 1,650,524; Nov. 22.
 Electrical apparatus. C. F. Kettering and J. C. Federle. 1,650,523; Nov. 22.
 Electrical apparatus. M. Latour. 1,637,828; Aug. 2.
 Electrical apparatus. J. C. Marshall. 1,637,262; July 26.
 Electrical apparatus. W. S. Moody. 1,614,250; Jan. 11.
 Electrical apparatus. W. S. Moody. 1,622,531; Mar. 29.
 Electrical apparatus. B. E. O'Hagan. 1,645,251; Oct. 11.
 Electrical apparatus. W. H. Priess. 1,621,901; Mar. 22.
 Electrical apparatus. C. G. Smith. 1,617,175-8; Feb. 8.
 Electrical apparatus. C. G. Smith. 1,617,179-80; Feb. 8.
 Electrical apparatus. C. Van Rennes. 1,621,914; Mar. 22.
 Electrical apparatus. C. Warner. 1,628,086; May 10.
 Electrical apparatus. C. P. White. 1,618,499; Feb. 22.
 Electrical apparatus and core therefor. N. M. Hopkins. 1,625,345; Apr. 6.
 Electrical apparatus and method. C. G. Smith. 1,617,174; Feb. 8.
 Electrical apparatus, Casing for. D. V. Edwards. 1,622,030; Mar. 22.
 Electrical apparatus, Controlling means for. P. A. Topper. 1,652,220; Dec. 13.
 Electrical apparatus, Cooling system for. J. B. Hodtun. 1,643,014; Sept. 20.
 Electrical-apparatus core. E. A. Wagner. 1,648,705; Nov. 8.
 Electrical apparatus for treating nerves, muscles, and blood. J. W. Kennedy. 1,636,568; July 19.
 Electrical apparatus, High-potential. J. A. Proctor. 1,614,762; Jan. 18.
 Electrical apparatus, Maintaining insert atmospheres in. C. L. Jones. 1,641,814; Sept. 6.
 Electrical apparatus, Winding for. K. K. Paluoff. 1,629,462; May 17.
 Electrical appliances. F. P. Withers. 1,652,191; Dec. 13.
 Electrical appliances, Extension cord for. J. M. White. 1,636,973; July 26.
 Electrical appliances, Shield for use with. B. Hughes. 1,651,922; Dec. 6.
 Electrical binding terminal. J. L. Polk. 1,642,042; Sept. 13.
 Electrical brake. H. V. McCormick. 1,615,767; Jan. 25.
 Electrical bulbs. Exhausting. J. S. Van Horne. 1,644,002; Oct. 4.
 Electrical cables, Identification of. W. H. Martin. 1,632,030; June 14.
 Electrical-circuit-connecting device. C. B. Emery. 1,651,019; Nov. 29.
 Electrical circuits, Method and apparatus for interrupting. W. Dublier. 1,623,531; Apr. 5.
 Electrical circuits, Safety device for. O. Dreyer. 1,647,282; Nov. 1.
 Electrical coil. H. P. Clausen. 1,642,488; Sept. 13.
 Electrical coil. J. O. Gargan. 1,647,615; Nov. 1.
 Electrical communication. W. L. Carlson. 1,649,098; Nov. 15.
 Electrical condenser. M. Clark. 1,619,597; Mar. 1.
 Electrical condenser. W. T. Ditcham. 1,614,459; Jan. 18.
 Electrical condenser. P. E. Gilling. 1,624,332-4; Apr. 12.
 Electrical condenser. W. J. Rickets. 1,622,052; Mar. 22.
 Electrical condenser. J. M. Stewart. 1,632,352; June 14.
 Electrical condenser. G. F. A. Stone. 1,623,563; Apr. 5.
 Electrical condenser, Variable. L. R. McDonald. 1,623,741-2; Apr. 5.
 Electrical conductor. M. Latour. 1,625,125; Apr. 19.
 Electrical conductor, Insulated. F. L. Roman and H. T. Winsemius. 1,649,924; Nov. 22.
 Electrical conductor terminal. J. E. Patten. 1,650,295; Nov. 22.
 Electrical conductor with reinforcing core. A. O. Austin. 1,626,776; May 3.
 Electrical conductors, Connector for. E. R. Barany. 1,634,065; June 28.
 Electrical conductors, Connector for. F. F. Hendry. 1,654,254; Dec. 27.
 Electrical conductors, Connector for. C. H. Lundy. 1,635,760; July 12.
 Electrical conductors, Joint between. R. W. Armstrong and I. E. McCabe. 1,640,869; Aug. 30.

Electrical conductors, Manually-carried transporting device for. H. A. Bittick. 1,623,823; Apr. 5.
 Electrical conductors, Supporting means for. A. M. MacFarland. 1,654,338; Dec. 27.
 Electrical conduit. O. A. Frederickson. 1,622,032; Mar. 22.
 Electrical-conduit-crossover system. J. Schilz. 1,631,224; June 7.
 Electrical connector. M. Alden. 1,651,660; Dec. 6.
 Electrical connector. E. Alschuler. 1,617,474; Feb. 15.
 Electrical connector. E. W. Breisch. 1,633,974; June 28.
 Electrical connector. M. U. Caillau. 1,631,914; June 7.
 Electrical connector. W. J. Gagnon. 1,635,930-32; July 12.
 Electrical connector. W. P. Gisske. 1,636,413; July 19.
 Electrical connector. W. F. Hessel. 1,647,697; Nov. 1.
 Electrical connector. G. J. Meurer. 1,646,037; Oct. 18.
 Electrical connector. J. E. Telford. 1,642,345; Sept. 13.
 Electrical connector. F. L. Weaver and M. F. Campion. 1,629,189; May 17.
 Electrical connector. W. S. Werner. 1,648,518; Nov. 8.
 Electrical connector and fixture support, Combination. R. B. Benjamin. 1,637,463; Aug. 2.
 Electrical connector and terminal clock. F. Diehl. 1,635,312; July 12.
 Electrical connector device. R. B. Benjamin. 1,618,909; Feb. 22.
 Electrical connector device. R. B. Benjamin. 1,639,125; Aug. 16.
 Electrical connector device. R. B. Benjamin. 1,646,806; Oct. 25.
 Electrical connector device. M. Guett. 1,650,870; Nov. 29.
 Electrical connector device and fixture support, Combination. R. B. Benjamin. 1,629,568; May 24.
 Electrical connector socket of the wall and plug type. M. G. Sienz. 1,639,487; Aug. 16.
 Electrical connector with automatic circuit breaker. T. Klötzl. 1,614,806; Jan. 11.
 Electrical connecting unit. H. F. Richardson. 1,639,310; Aug. 16.
 Electrical connection. C. C. Berry. 1,631,575; June 7.
 Electrical connection. P. Robert. 1,631,550; June 7.
 Electrical connection. A. A. Warner. 1,631,994; June 14.
 Electrical connection block. J. Sachs. 1,645,453; Oct. 11.
 Electrical contact device for follow-up systems. A. P. Davis. 1,621,835; Mar. 22.
 Electrical contacts, Adjusting. L. L. Nettleton. 1,634,381; July 5.
 Electrical contacts, Insulated mounted for. V. R. Despard. 1,633,005; June 21.
 Electrical control system. P. Charpentier. 1,624,158; Apr. 12.
 Electrical control system. R. C. Coupland. 1,639,987; Aug. 23.
 Electrical-current-limiting system. F. W. Gay. 1,625,464; July 19.
 Electrical device. C. C. Van Voorhis. 1,614,506; Jan. 18.
 Electrical device and the manufacture thereof. J. H. Cohen. 1,639,258; Aug. 16.
 Electrical device for emitting light flashes and interrupting circuits. P. T. Weeks. 1,647,595; Nov. 1.
 Electrical devices, Strain relief for the terminal connections of. W. W. Miller. 1,646,038; Oct. 18.
 Electrical devices, Supporting means for. J. A. Warren. 1,641,513; Sept. 6.
 Electrical discharge device. P. K. Devers. 1,640,443; Aug. 30.
 Electrical discharge device. W. H. T. Holden. 1,636,054; July 19.
 Electrical discharge tubes, Manufacture of luminous. R. R. Machlett. 1,618,767; Feb. 22.
 Electrical discharges, Regulator for. W. D. Coolidge. 1,631,626; June 7.
 Electrical distribution and control. System of. C. F. Gering and W. A. Chryst. 1,642,034; Sept. 13.
 Electrical distribution system. A. H. Kehoe. 1,642,031; Sept. 13.
 Electrical distribution, System of. E. M. Bill. 1,633,804; June 28.
 Electrical-disturbance-eliminating system. I. G. Wilson. 1,645,174; Feb. 22.
 Electrical energy into sound waves, Apparatus for translating. W. J. Herdman. 1,616,620; Feb. 8.
 Electrical-energy variations, Production of. C. G. Smith. 1,617,173; Feb. 8.
 Electrical fittings, Casing for. W. F. Meschenmoser. 1,622,333; Mar. 29.
 Electrical fixture. J. A. Volk, jr. 1,648,704; Nov. 8.
 Electrical-fixture hanger. J. E. Hummell. 1,634,578; July 5.
 Electrical-fixture-supporting device. R. B. Benjamin. 1,613,013; Jan. 4.
 Electrical-fixture-supporting device. R. B. Benjamin. 1,630,278; July 19.
 Electrical-fixture-supporting device. C. L. Hopkins. 1,646,482; Oct. 25.
 Electrical fixture, Wall-bracket. S. C. Wilhite. Des. 73,547; Sept. 27.
 Electrical frequency-multiplying system. W. Dornig. 1,618,411; Feb. 22.
 Electrical fuel-feeding apparatus, Switch for. A. Nagel. 1,637,425; Aug. 2.
 Electrical fuse. G. C. O'Brien. 1,645,344; Oct. 1.
 Electrical generator. W. A. Marrison. 1,647,645; Nov. 1.

Electrical heater. C. C. Garey. 1,620,537; Mar. 8.
 Electrical heater plug, Thermostatic-control. L. M. Kaplan. 1,641,002; Aug. 30.
 Electrical heating appliance. A. Pfau, jr. Des. 72,186; Mar. 8.
 Electrical heating body for high temperatures especially for ceramic metallurgical processes and chemical processes. F. Weckerle. 1,637,167; July 26.
 Electrical heating device for smoothing and drying hair on a person's head. C. O. Morgan. 1,638,268; Aug. 9.
 Electrical heating element, Producing. E. L. Wiegand. 1,613,426; Jan. 4.
 Electrical ignition of stored inflammable fluids, Device for preventing. L. A. Baldwin and E. R. Schaeffer. 1,617,788; Feb. 15.
 Electrical impedance of a circuit, Varying the. E. R. Stoeckle. 1,651,849; Dec. 6.
 Electrical impulses, Apparatus for detecting or translating. J. Scott-Taggart. 1,654,390; Dec. 27.
 Electrical impulses into graphic representations, Apparatus for converting. C. F. Jenkins. 1,650,361; Nov. 22.
 Electrical impulses, System for transmitting. A. Barnay. 1,623,714; Apr. 5.
 Electrical insulating box, Knock-out-type. R. K. Mason. 1,646,622; Oct. 25.
 Electrical indicating instrument. J. R. Barnhart. 1,630,884; May 31.
 Electrical inductances, Adjusting. I. L. Milton. 1,615,130; Jan. 18.
 Electrical instrument. T. L. Lea. 1,632,609; June 14.
 Electrical instrument. H. J. Murray. 1,641,945; Sept. 6.
 Electrical instrument for medical treatment. Y. Noishiki. 1,625,675; Apr. 19.
 Electrical instruments, Case for. E. F. Weston. Des. 73,768; Nov. 1.
 Electrical instruments, Vernier adjustment means for. N. Heyman. 1,622,783; Mar. 29.
 Electrical interference, Preventing. R. B. Shanck. 1,633,611; June 28.
 Electrical interrupter. A. Leighton. 1,621,673; Mar. 22.
 Electrical machine. C. A. Mudge. 1,612,823; Jan. 4.
 Electrical machinery, Magnetic core for. W. E. Ruder. 1,629,311; Mar. 17.
 Electrical machines, Rotor for. A. Glaubitz. 1,637,182; July 26.
 Electrical machines, Winding for. L. Roebel. 1,653,784; Dec. 27.
 Electrical machines with split poles, Supporting housing for. H. Papst. 1,625,051; Apr. 19.
 Electrical measurement, Device for. M. C. Hall. 1,652,241; Dec. 13.
 Electrical measuring instrument. R. G. Arey. 1,620,622; Mar. 15.
 Electrical measuring instrument. C. E. Foster. 1,624,135; Apr. 12.
 Electrical measuring instrument. D. R. Lamont. 1,648,989; Nov. 15.
 Electrical measuring instrument. R. T. Pierce. 1,654,308; Dec. 27.
 Electrical measuring instrument. W. F. Sutherland. 1,651,482; Dec. 6.
 Electrical measuring instrument. E. F. Weston. 1,630,592; May 31.
 Electrical measuring instrument. E. F. Weston and G. Carpenter. 1,635,595; July 12.
 Electrical mine igniters, Apparatus for making. O. Schmitt. 1,639,311; Aug. 16.
 Electrical mounting or connector. P. L. Pendleton. 1,628,183; May 10.
 Electrical network. G. A. Campbell. 1,643,332; Sept. 27.
 Electrical network. D. K. Gannett and M. Kirkwood. 1,638,437; Aug. 9.
 Electrical network. K. S. Johnson. 1,628,983; May 17.
 Electrical network. T. E. Shea. 1,624,682; Apr. 12.
 Electrical operation of railway points and signals. L. H. Peter. 1,649,543; Nov. 15.
 Electrical oscillations, Circuit arrangement for generating. H. Rukop. 1,622,001; Mar. 22.
 Electrical oscillations, Receiving system for high-frequency. A. H. Taylor and L. C. Young. 1,621,037; Mar. 15.
 Electrical overloads, Indicating. J. Samper. 1,635,348; July 12.
 Electrical plug. H. J. Zimmermann. 1,644,767; Oct. 11.
 Electrical precipitator. W. A. Schmidt. 1,650,097; Nov. 22.
 Electrical protective apparatus. F. R. Parker. 1,640,516; Aug. 30.
 Electrical protective system. C. L. Fortescue. 1,649,025; Nov. 15.
 Electrical receptacle. E. F. Marth. 1,618,939; Feb. 22.
 Electrical regulating apparatus. E. J. Blake. 1,630,823; May 31.
 Electrical regulating device. H. A. Flammer. 1,613,606; Jan. 11.
 Electrical regulating system. F. W. Springer. 1,645,724; Oct. 18.
 Electrical relay. G. W. Rauchman. 1,653,384; Dec. 20.
 Electrical relay. R. M. Gilson. 1,627,322; May 3.
 Electrical relay. L. O. Grondahl. 1,628,981; Mar. 30.
 Electrical relay switch. G. Dumont. 1,613,446; Jan. 4.
 Electrical resistance grid. C. T. Evans. 1,614,920; Jan. 18.

- Electrical resistance, Measuring. S. Strauss and W. Brandt. 1,649,753; Nov. 15.
- Electrical resistance, System and apparatus for measuring. J. S. Holliday. 1,652,405; Dec. 13.
- Electrical resistance units, Manufacture of. L. L. Jones. 1,635,184; July 12.
- Electrical separation of suspended particles from gases, Apparatus for. E. Anderson. 1,650,105; Nov. 22.
- Electrical signaling. G. O. Squier. 1,641,608; Sept. 6.
- Electrical signals, Apparatus for recording. A. H. Taylor. 1,630,227; May 24.
- Electrical sound-reproducing apparatus. L. de Forest. 1,641,664; Sept. 6.
- Electrical sound transmitting and receiving apparatus. H. Fischer. 1,633,170; June 21.
- Electrical sparks and making the stoneware, Stoneware of high resistance against the perforating power of. F. Singer. 1,642,754; Sept. 20.
- Electrical structure. W. Dubilier. 1,628,627; May 10.
- Electrical supply, System of. H. Benit. 1,631,574; June 7.
- Electrical switch. F. Aldendorff. 1,624,202; Apr. 12.
- Electrical switch. H. K. Ansingh. 1,628,954; Apr. 12.
- Electrical switch. L. W. Angus. 1,622,293; Dec. 13.
- Electrical switch. J. W. Beasley. Jr. 1,651,314; Nov. 29.
- Electrical switch. C. A. Brown. 1,653,941; Dec. 27.
- Electrical switch. J. Dominiczak. 1,627,158; May 3.
- Electrical switch. E. H. Jacobs. 1,631,268; June 7.
- Electrical switch. S. A. Swanson. 1,646,797; Oct. 25.
- Electrical switch. G. B. Wainwright. 1,636,585; July 26.
- Electrical switch. W. P. Wells. 1,637,461; Aug. 2.
- Electrical switch. G. O. Wilms. 1,629,756; May 24.
- Electrical switch mechanism. F. A. Holt. 1,654,373; Dec. 27.
- Electrical switch mechanism. C. F. Wolford. 1,622,301; Mar. 29.
- Electrical switching apparatus. R. M. Gilson. 1,619,860; Mar. 8.
- Electrical swivel connection. A. G. Adam. 1,649,276; Nov. 15.
- Electrical synchronizing system. E. L. Grunewald. 1,625,314; Apr. 19.
- Electrical system. W. B. Churcher. 1,639,882; Aug. 23.
- Electrical system. M. Latour. 1,631,213; June 7.
- Electrical system. W. E. Menzies. 1,641,141; Jan. 11.
- Electrical systems and signaling methods. A. F. Van Dyck. 1,652,155; Dec. 6.
- Electrical systems, Control for. G. V. Heidt. 1,646,860; Oct. 25.
- Electrical T connector. B. Dibner. 1,642,491-2; Sept. 13.
- Electrical terminal. E. Schenk. 1,634,689; July 5.
- Electrical testing apparatus. G. A. Campbell. 1,651,440; Dec. 6.
- Electrical testing apparatus. J. M. Coote. 1,637,472; Aug. 2.
- Electrical testing system. M. B. Long. 1,647,236; Nov. 1.
- Electrical time switch. C. W. Brown. 1,615,163; Jan. 18.
- Electrical transformer. F. C. Owen. 1,637,238; July 26.
- Electrical transformer. A. E. L. Scanes. 1,647,314; Nov. 1.
- Electrical-transformer-containing case. C. M. Welch. 1,642,471; Sept. 13.
- Electrical-transformer core or magnetic circuit. C. M. Welch. 1,642,470; Sept. 13.
- Electrical translating device. L. O. Grondahl. 1,634,420; July 5.
- Electrical translating device. M. C. Hopkins. 1,630,010; May 24.
- Electrical transmission device. A. Michoud. 1,630,900; May 31.
- Electrical transmission of pictures, Method of and apparatus for secret. G. S. Verma. 1,613,686; Jan. 11.
- Electrical transmitter. H. C. Ford. 1,627,168; May 3.
- Electrical transmitting system. E. M. Staples. 1,622,357; Mar. 29.
- Electrical-tube-connector twisting device. W. J. Leach. 1,629,800; May 24.
- Electrical units, Mounting and retaining means for. C. W. Bassett. 1,632,809; Dec. 13.
- Electrical vacuum discharge tube. S. Ruben. 1,649,420; Nov. 15.
- Electrical variations, Production of. C. G. Smith. 1,617,172; Feb. 8.
- Electrical variations, Production of. C. G. Smith. 1,617,177; Feb. 8.
- Electrical vibrator. W. E. Gray. 1,635,405; July 12.
- Electrical vibrator. F. C. Perrem. 1,628,802; May 17.
- Electrical voting apparatus. A. G. Turck. 1,650,247; Nov. 22.
- Electrical wiring system. H. S. Walker. 1,626,570; Apr. 26.
- Electrically-controlled cut-out. K. S. Hensley. 1,623,115; Apr. 5.
- Electrically-driven extractor. E. J. Carroll. 1,649,889; Nov. 22.
- Electrically-driven indicators, Mechanism for converting oscillating movement into a step-by-step rotational movement, particularly applicable to. C. E. Prince. 1,613,533; Jan. 4.
- Electrically driven machines, Control means for. E. J. Carroll. 1,643,197; Sept. 20.
- Electrically-driven spinning centrifugal apparatus. P. Minck. 1,641,091; Aug. 30.
- Electrically exhibiting a danger signal on a locomotive, Device for. H. Jacoby. 1,642,303; Sept. 13.
- Electrically-heated device and manufacture thereof. E. N. Lightfoot. 1,617,489; Feb. 15.
- Electrically-heated steam brush. E. J. Rohne. 1,629,738; May 24.
- Electrically-heated utensils, Stand for. G. B. Ratterman. 1,613,194; Jan. 4.
- Electrically-operated automatic winding device. M. Yokoyama. 1,624,361; Apr. 12.
- Electrically-operated burners, Control mechanism for. J. C. Johnson. 1,631,099; May 31.
- Electrically-operated devices, Timer for. E. A. Rutenber. 1,622,002; Mar. 22.
- Electrically-operated devices, Timer for. E. A. Rutenber. 1,634,083; June 28.
- Electrically-operated indicating device. E. S. C. Betely. 1,644,102; Oct. 4.
- Electrically-operated switch. C. D. Ainsworth. 1,650,172; Nov. 22.
- Electrically-released brake. J. W. Dodd. 1,629,781; May 24.
- Electrically-welded bubble tower. R. Stresau. 1,630,037; May 24.
- Electricity, Generating and distributing system for. C. F. Strong. 1,644,158; Oct. 4.
- Electricity meter. F. Holden. 1,653,961; Dec. 27.
- Electricity meter. K. Singer, P. Paschen, and G. Reime. 1,645,299; Oct. 11.
- Electricity meter, Commutator. J. Harris. 1,648,898; Nov. 15.
- Electricity meter, Induction. J. Harris. 1,639,728; Aug. 23.
- Electrocardiograph, Portable. H. E. Nichols. 1,647,101; Nov. 1.
- Electrochemical means for preventing corrosion. R. V. A. Mills. 1,646,735; Oct. 25.
- Electrochemical method for preventing corrosion. R. V. A. Mills. 1,646,736; Oct. 25.
- Electrode. A. Kirkaldy. 1,639,457; Aug. 16.
- Electrode. G. R. Lewers. 1,634,372; July 5.
- Electrode and degasifying the same. M. Morrison. 1,615,994; Feb. 1.
- Electrode and making the same, Dry-cell. K. H. W. Ramsay. 1,644,746; Oct. 11.
- Electrode clamp. R. H. Wappler. 1,644,803; Oct. 11.
- Electrode, Clamping. R. H. Wappler. 1,640,061; Aug. 23.
- Electrode, Clamping. F. H. Wappler. 1,652,804; Dec. 13.
- Electrode device, Incandescent. C. Samson. 1,620,397; Mar. 8.
- Electrode, Diathermic. M. Stern. 1,633,649; June 28.
- Electrode, Dry-cell. H. D. Hodge. 1,638,995; Aug. 16.
- Electrode element and production thereof, Storage-battery. T. A. Edison. 1,649,579; Nov. 15.
- Electrode-feeding means. W. B. Jaspert. 1,643,773; Sept. 27.
- Electrode-feeding means. G. A. Lovett. 1,642,452; Sept. 13.
- Electrode for accumulators, Manufacture of lead. A. Strasser. 1,641,241; Sept. 6.
- Electrode for storage battery, Negative. R. C. Benner and L. C. Werking. 1,649,280; Nov. 15.
- Electrode, High-frequency vesical. M. Molony. 1,620,828; Mar. 15.
- Electrode holder. L. E. Muller. 1,634,957; July 5.
- Electrode holder. C. F. Short. 1,628,926; May 27.
- Electrode holder. E. E. Widdard. 1,653,141; Dec. 20.
- Electrode-holding device. R. P. Schwartz. 1,620,837; Mar. 15.
- Electrode in incandescent cathode tube, Intermediate. W. Schottky. 1,612,835; Jan. 4.
- Electrode, Metal-coated. E. L. Swift. 1,626,104; Apr. 26.
- Electrode of the filter-press type, Electrolyzer. R. Pechknig. 1,643,900; Sept. 27.
- Electrode, Self-baking. J. Westly. 1,613,212; Jan. 4.
- Electrode, Testing. A. F. Williams. 1,650,779; Nov. 29.
- Electrode to be applied to the human body and making same. E. East. 1,626,617; May 3.
- Electrode, Welding. O. H. Eschholz. 1,652,107; Dec. 6.
- Electrode, Apparatus for removing dust from precipitator. G. B. Forbes. 1,630,482; May 31.
- Electrodes, Binder for securing medical. W. A. Laurie. 1,637,829; Aug. 2.
- Electrodes, Building up self-baking. M. O. Sem. 1,639,007; Aug. 16.
- Electrodes for electrolytic apparatus, Manufacture of. R. D. Mershon. 1,617,163; Feb. 8.
- Electrodes in fused electrolytes, Protecting carbon or graphite. E. A. Ashcroft. 1,653,605; Dec. 20.
- Electrodes, Making channelled continuous. C. W. Soderberg. 1,640,735; Aug. 30.
- Electrodes of storage batteries, Preparing positive. A. Cellino. 1,640,922; Aug. 30.
- Electrodes, Production of. E. Kleinschmidt. 1,639,188; Aug. 23.
- Electrodes to carriers, Machine for securing plate-shaped. H. de Jong. 1,639,687; Aug. 23.
- Electrodeposition of chromium. C. Hambuechen. Re16,598; Apr. 19.
- Electrohydraulic brake. B. S. Alkman. 1,622,480; Mar. 29.
- Electroionic relay. F. W. Meyer. 1,649,036; Nov. 15.

- Electrolocomotives, Driving means for. H. Dollmann. 1,629,206; May 17.
- Electrolytic seal and making the same. E. A. Schumacher. 1,647,021; Oct. 25.
- Electrolytic apparatus and electrode therefor. W. G. Allan. 1,620,052; Mar. 8.
- Electrolytic cell. A. A. Jahnke. 1,623,246; Apr. 5.
- Electrolytic cell. E. Romaneli. 1,648,963; Nov. 15.
- Electrolytic cell. H. O. Siegmund. 1,633,879; Dec. 27.
- Electrolytic cell. E. Sorensen. 1,613,966; Jan. 11.
- Electrolytic cells, Cooling arrangement for. C. F. Holmboe. 1,632,184; June 14.
- Electrolytic condensers, Electrode for. C. Aalborg. 1,637,328; Aug. 2.
- Electrolytic condensers, Excitation of. R. D. Mershon. 1,620,119; Mar. 8.
- Electrolytic method and apparatus. K. E. Stuart. 1,630,224; May 14.
- Electrolytic rectifier. L. P. Bensing. 1,645,085; Oct. 11.
- Electrolytic rectifier. L. J. Keeler. 1,628,785; May 17.
- Electrolytic rectifier. W. Morrison. 1,647,649-60; Nov. 1.
- Electrolytic reflector. S. W. Jenks. Re16,733; Sept. 6.
- Electrolytically deposited iron. Heat treatment of. N. B. Pilling. 1,630,449; May 31.
- Electromagnet. C. D. Ainsworth. 1,627,821; May 10.
- Electromagnet. R. A. Blake. 1,622,080; Mar. 22.
- Electromagnetic apparatus. F. G. Creed. 1,646,234; Oct. 18.
- Electromagnetic apparatus for recording sound. A. F. Sykes. 1,621,180; Mar. 15.
- Electromagnetic apron feeder. J. P. Bethke. Re16,673; July 12.
- Electromagnetic brake. R. V. Morse. 1,629,084; May 17.
- Electromagnetic chuck. J. Bing. 1,647,951; Nov. 1.
- Electromagnetic control. L. Salves. 1,632,329; Dec. 13.
- Electromagnetic device. E. R. Carichoff. 1,648,674; Nov. 8.
- Electromagnetic device. G. W. Elmen. 1,620,878; Mar. 15.
- Electromagnetic device. F. E. Field. 1,616,180; Feb. 1.
- Electromagnetic device. H. C. Harrison. 1,628,666; May 17.
- Electromagnetic device. H. C. Harrison. 1,632,134; June 14.
- Electromagnetic device. B. W. Jones. 1,620,556; Mar. 8.
- Electromagnetic device. E. D. Mead. 1,652,489; Dec. 13.
- Electromagnetic device. D. D. Miller. 1,652,480; Dec. 13.
- Electromagnetic device. R. Nordenswan and A. S. Curtis. 1,644,789; Oct. 11.
- Electromagnetic device for alternating-current circuits. B. W. Jones and N. A. Wolfe. 1,620,555; Mar. 8.
- Electromagnetic device producing a constant moving magnet. A. Epitau. 1,631,801; June 7.
- Electromagnetic driver. C. A. Brigham and W. H. Gerns. 1,645,583; Oct. 18.
- Electromagnetic element. R. J. Miller. 1,648,460; Nov. 8.
- Electromagnetic indicator. F. G. Brewster. 1,638,614; Aug. 9.
- Electromagnetic operating means and motor controller means for controlling the same. R. W. Goff. 1,633,312; June 28.
- Electromagnetic power-transmitting means. C. B. Mills. 1,633,454; June 21.
- Electromagnetic relay. D. C. Crowe. 1,645,897; Oct. 18.
- Electromagnetic relay. J. Erickson. 1,641,256; Sept. 6.
- Electromagnetic relay. J. Erickson. 1,646,956; Oct. 25.
- Electromagnetic relay. J. Erickson. 1,651,684; Dec. 6.
- Electromagnetic relay. D. D. Miller. 1,652,491; Dec. 13.
- Electromagnetic sound reproducer. C. A. Brigham. 1,620,631; Mar. 15.
- Electromagnetic sound reproducer. L. W. Staunton. 1,621,562; Mar. 22.
- Electromagnetic sound reproducer. H. Stevenson. 1,619,161; Mar. 1.
- Electromagnetic switch. L. M. Aspinwall. 1,614,173; Jan. 11.
- Electromagnetic switch. D. M. Bliss. 1,630,650; May 31.
- Electromagnetic switch. D. L. Lindquist. E. L. Dunn, and D. C. Larson. 1,646,029; Oct. 18.
- Electromagnetic switch. E. P. Oswald. 1,625,820; Apr. 26.
- Electromagnetic switch. N. Togami. 1,625,509; Apr. 19.
- Electromagnetic switch. H. N. Wade. 1,646,943; Oct. 25.
- Electromagnetic therapeutic compress-heating appliance. J. N. De Quer. 1,624,397; Apr. 12.
- Electromagnetic time-element device. C. H. Chapman. 1,639,322; Aug. 9.
- Electromagnetically-operated device. C. D. Ainsworth. 1,642,288; Sept. 13.
- Electromotors, Lubricating device for vertical. R. W. H. Hofstede-Crull. 1,654,211; Dec. 27.
- Electron device and operating. A. W. Hull. 1,628,466; May 10.
- Electron device. High-voltage. H. C. Rentschler. 1,628,693; May 3.
- Electron-discharge apparatus. W. K. Kearsley, jr. 1,653,102; Dec. 20.
- Electron-discharge apparatus. M. Morrison. 1,610,702; Feb. 8.
- Electron-discharge apparatus. O. W. Pike. 1,614,154; Jan. 11.
- Electron-discharge device. P. Gavin. 1,645,904; Oct. 18.
- Electron-discharge device. T. R. Griffith. 1,616,184; Feb. 1.
- Electron-discharge device. T. R. Griffith. 1,647,617; May 1.
- Electron-discharge device. A. Haddock. 1,635,992; July 19.
- Electronic-discharge device. W. F. Hendry. 1,628,045; May 10.
- Electron-discharge device. W. G. Houskeeper. 1,630,431; May 31.
- Electron-discharge device. W. G. Houskeeper. 1,635,999; July 19.
- Electron-discharge device. W. G. Houskeeper. 1,640,503; Aug. 30.
- Electron-discharge device. W. G. Houskeeper. 1,642,498; Sept. 19.
- Electron-discharge device. W. G. Houskeeper. 1,647,994; Nov. 8.
- Electron-discharge device. R. I. Hulsizer. 1,628,982; May 17.
- Electron-discharge device. F. L. Hunter, jr., and S. W. Crowley. 1,647,996; Nov. 8.
- Electron-discharge device. R. W. King. 1,613,612; Jan. 11.
- Electron-discharge device. K. H. Kingdon and I. Langmuir. 1,648,312; Nov. 8.
- Electron-discharge device. W. H. Manthorne. 1,647,238; Nov. 1.
- Electron-discharge device. R. C. Mathes. 1,640,462; Aug. 30.
- Electron-discharge device. A. Mavrogenis. 1,616,914; Feb. 8.
- Electron-discharge device. A. Mavrogenis. 1,629,171; May 17.
- Electron-discharge device. A. Mavrogenis. 1,638,499; Aug. 9.
- Electron-discharge device. V. L. Ronci. 1,616,139; Feb. 1.
- Electron-discharge device. V. L. Ronci. 1,624,562; Apr. 12.
- Electron-discharge device. V. L. Ronci. 1,628,999; May 17.
- Electron-discharge device. V. L. Ronci. 1,638,015; July 19.
- Electron-discharge device. V. L. Ronci. 1,638,551; Aug. 9.
- Electron-discharge device. P. Schwerin. 1,615,958; Aug. 9.
- Electron-discharge device. J. H. Thompson. 1,627,127; May 3.
- Electron-discharge device and operating the same. G. M. J. Mackay and E. E. Charlton. 1,648,458; Nov. 8.
- Electron-discharge devices, Electrode structure for. W. F. Hendry. 1,632,135; June 14.
- Electron-discharge tubes, Grid for. E. Schrack. 1,654,471; Dec. 27.
- Electron-emitting cathode and preparing the same. F. Holborn. 1,639,698; Aug. 23.
- Electron-emitting cathode and preparing the same. H. M. Round. 1,640,710; Aug. 30.
- Electron-emission device. H. J. Round. 1,654,513; Dec. 27.
- Electron metal, Production of a weather proof oxide layer on. W. Pieper. 1,642,309; Sept. 13.
- Electron tube. H. A. Brown. 1,653,544; Dec. 20.
- Electron tube. W. Daumann. 1,613,503; Jan. 4.
- Electron tube. E. L. Hartley. 1,613,943; Jan. 11.
- Electron tube. H. M. Pingan. 1,644,744; Oct. 11.
- Electron tube-amplifying apparatus. R. S. Fisher. 1,630,118; May 24.
- Electron tube apparatus. F. A. Kolster. 1,637,864; Aug. 2.
- Electron tubes, Antimicrophonic shield for. L. R. McDonald. 1,615,468; Jan. 25.
- Electron tubes, Energizing. E. Vroom. 1,618,028; Feb. 15.
- Electronic device. B. F. Jancke. 1,647,364; Nov. 1.
- Electroplating machine. W. F. Hall. 1,631,199; June 7.
- Electroplating machine. E. B. Powell. 1,654,849; July 5.
- Electropneumatic brake. C. C. Farmer. 1,626,605; May 3.
- Electropneumatic brake. C. C. Farmer. J. C. McCune. 1,622,430; Mar. 29.
- Electropneumatic brake. T. H. Thomas. 1,653,130-5; Dec. 20.
- Electroresponsive apparatus. H. A. Thompson. 1,629,011; May 17.
- Electroresponsive cell. C. H. Zierdt. 1,641,564; Sept. 6.
- Electroresponsive device. P. M. Conrad. 1,646,233; Oct. 18.
- Electrostatic detector and amplifier. F. E. Summers. 1,619,318; Mar. 1.
- Electrostatic relay device. S. Ruben. 1,631,764; June 7.
- Electrotherapeutic apparatus. L. Dunn. 1,617,512; Nov. 1.
- Electrotherapeutic apparatus. K. Fukuyama. 1,615,508; Jan. 25.
- Electrotherapeutic device. S. S. Ebel. 1,648,116; Nov. 8.
- Electrotherapeutic apparatus. E. Northcott and J. W. Warford. 1,653,819; Dec. 27.
- Electrotherapeutic device. W. J. Herdman. 1,617,157; Feb. 8.
- Electrotype plates, Machine for cleaning. W. R. Lake-man. 1,633,216; June 21.

- Electrotypes, Making. J. J. Walsh. 1,649,876; Nov. 22.
 Electrovision. R. D. Parker. 1,648,058; Nov. 8.
 Elements, Making expansible collapsible. H. C. Mallory. 1,617,491; Feb. 15.
 Elements, Producing expansible collapsible. H. C. Mallory. 1,617,557; Feb. 15.
 Elevating and distributing material, Apparatus for. J. E. Bushnell. 1,645,942; Oct. 18.
 Elevating and supporting bracket. C. L. Maitland. 1,649,837; Nov. 22.
 Elevating apparatus. H. S. Germond, jr., and H. Green. 1,625,239; May 10.
 Elevating apparatus, Portable. B. Stockfleth and F. W. Burger. 1,625,290; Apr. 19.
 Elevating device. G. McCall. 1,646,759; Oct. 25.
 Elevating mechanism. M. P. Holmes. 1,614,030; Jan. 11.
 Elevator: See—
 Bed elevator.
 Buttocks elevator.
 Casing elevator.
 Electric elevator.
 Fish elevator.
 Garage elevator.
 J. Bergsten. Re16,672; July 12.
 N. A. Blackham and G. N. Robillard. 1,619,966; Mar. 8.
 F. L. Boissonnault. 1,649,014; Nov. 15.
 J. Darby. 1,635,264-5; July 12.
 J. Dunlop. 1,619,405; Mar. 1.
 S. M. Halstead and A. I. Wickland. 1,614,790; Jan. 18.
 S. M. Halstead and A. I. Wickland. 1,653,960; Dec. 27.
 F. J. Lynch. 1,648,650; Nov. 8.
 H. V. McCormick. 1,646,487; Oct. 25.
 H. V. McCormick. 1,648,002; Nov. 8.
 E. L. Rick. 1,646,981; Oct. 25.
 B. C. Van Emon. 1,615,318; Jan. 25.
 B. C. Van Emon. 1,620,305; Mar. 8.
 B. Woods. 1,637,209; July 26.
 Elevator and weed carrier, Potato. T. Tucheck. 1,629,851; May 24.
 Elevator buckets, Implement for reshaping distorted. C. F. Porter. 1,620,920; Mar. 15.
 Elevator-car switches, Leveling attachment for. J. D. Schakel. 1,615,347; Jan. 25.
 Elevator control, Automatic. N. C. Nelson. 1,653,306; Dec. 20.
 Elevator-control system. J. C. A. Anderson. 1,626,377; Apr. 26.
 Elevator controller. H. P. Reed. 1,640,555; Aug. 30.
 Elevator-controlling device. C. Goebert and O. Kugler, sr. 1,642,674; Sept. 20.
 Elevator drive. P. C. Day. 1,637,476; Aug. 2.
 Elevator-driving mechanism. A. P. Winter. 1,653,975; Dec. 27.
 Elevator gate. I. M. Poston. 1,629,048; May 17.
 Elevator-gate-operating mechanism. E. L. Kerrigan and W. J. Murphy. 1,621,887; Mar. 22.
 Elevator-guide lubricator. L. Misner. 1,614,844; Jan. 18.
 Elevator guide. Tray. S. Olson. 1,653,226; Dec. 20.
 Elevator indicator. R. E. Hane. 1,645,949; Oct. 18.
 Elevator installations, Illuminated signal for. F. A. Boedter. 1,626,383; Apr. 26.
 Elevator leg. L. Burmeister. 1,640,529; Aug. 30.
 Elevator-leveling control. A. J. Liebenberg. 1,626,290; Apr. 26.
 Elevator mechanism. T. E. Pray. 1,616,598; Feb. 8.
 Elevator, Overload-stopping device for. W. J. Albersheim and H. S. Konheim. 1,613,216; Jan. 4.
 Elevator-position indicator. C. W. Bassett. 1,644,866; Oct. 11.
 Elevator safety appliance. T. L. R. Jones. 1,614,675; Jan. 18.
 Elevator safety stop. G. Ordog. 1,626,583; Apr. 26.
 Elevator safety stop, Noiseless. W. F. McMahon. 1,620,033; Mar. 8.
 Elevator support. G. A. Edwards. 1,622,943; Mar. 29.
 Elevator system. J. R. Jackson, jr. 1,632,376; June 14.
 Elevator system, Electric. G. B. Grosvenor. 1,632,225-6; June 14.
 Elevators, Apparatus for controlling. F. E. Boardman. 1,625,073; Apr. 19.
 Elevators, Brake for. J. M. Rohlfing. 1,631,340; June 7.
 Elevators, Collapsible handle for portable. F. L. Eidmann. 1,631,477; June 7.
 Elevators, Control system for electric. E. W. Seeger. 1,645,075; Oct. 11.
 Elevators, Controller for electric. D. B. Thurston. 1,653,443; Dec. 20.
 Elevators, conveyers, and like apparatus, Safety device for. A. Telchmann. 1,645,883; Oct. 18.
 Elevators, Electrically-illuminated floor indicator for passenger. J. F. Jones. 1,651,710; Dec. 6.
 Elevators, Feeding ore. E. J. Ouellette. 1,613,122; Jan. 4.
 Elevators, Floor selector for. J. Dunlop and J. F. Clancy. 1,627,320; May 8.
 Elevators, Leveling attachment for push-button. J. D. Schakel. 1,615,346; Jan. 25.
 Elevators, lifts, or the like, Safety catch for. J. Wüstenhöfer. 1,633,836; June 28.
 Elevators, Safety apparatus for. W. J. Albersheim and H. S. Konheim. 1,613,215; Jan. 4.
 Elevators, Safety device for. M. Scheinfeld. 1,640,673; Aug. 30.
 Elevators, Signalling system for. W. S. Smith. 1,635,586; July 12.
 Ellipsograph. K. Kiefer. 1,623,348; Apr. 5.
 Ellipsograph. O. Rettedal and N. J. Nelson. 1,644,205; Oct. 4.
 Ellipsograph. A. C. Sanders. 1,626,430; Apr. 26.
 Embalming, Hydraulic blood aspirator for. G. H. Hurst, jr. 1,617,254; Feb. 8.
 Emblem, Interchangeable. H. C. Logan. 1,623,693; Apr. 4.
 Embossing key. S. Marcus. Des. 71,880; Jan. 18.
 Embossing. J. H. Matthews. Re16,718; Aug. 23.
 Embossing. H. Mock. 1,648,461; Nov. 8.
 Embossing die. W. R. Ecke and J. H. Matthews. 1,653,802; Dec. 27.
 Embossing dies. C. Chisholm. 1,612,907; Jan. 4.
 Embossing machine. J. E. Johnson. 1,639,733; Aug. 23.
 Embossing machines, Latch for. A. H. Bates. 1,627,084; May 10.
 Embroidered edgings, Forming. R. Loeb. 1,616,421; Feb. 1.
 Embroidered fabric. W. Schmid. Des. 71,812; Jan. 4.
 Embroidered lace medallion. H. Schwarber. Des. 73,447; Sept. 13.
 Embroidering machine, Automatic. L. Schwarzmann. 1,626,256; Apr. 26.
 Embroidering machines, Jacquard mechanism for. M. Hadam. 1,643,449; Sept. 27.
 Embroidery and process. E. D. Becker. 1,646,383; Oct. 25.
 Embroidery frame. P. Carbone. 1,636,681; July 26.
 Embroidery frame. D. Delciello. 1,649,340; Nov. 15.
 Embroidery-hoop clamp. C. D. Baldwin. 1,631,355; June 7.
 Embroidery machine. M. Bretschneider. 1,652,343; Dec. 13.
 Embroidery machine. M. Hadam. 1,618,529; Feb. 22.
 Embroidery machines, Trimming device for. A. Mistretta. 1,620,378; Mar. 8.
 Emergency brake. H. Everett. 1,640,492; Aug. 30.
 Emergency brake. J. Lorence. 1,650,456; Nov. 22.
 Emergency dressing. B. E. Dickson. 1,648,926; Sept. 27.
 Emergency heater. W. A. Brown. 1,620,432; Mar. 8.
 Emptying garbage bins into garbage-collecting receptacles or carrying off cars in dust-proof manner, Device for. P. Holzmann. 1,647,829; Nov. 1.
 Emulsifier. D. Warren. 1,626,487; Apr. 26.
 Emulsifying, mixing, or grinding materials, Machine for. R. Surtees. 1,614,409; Jan. 11.
 Emulsion and making the same. D. Finley. 1,625,304; Apr. 19.
 Emulsion and producing same. L. Kirschbraun. 1,616,904; Feb. 8.
 Emulsion, Breaking petroleum. C. C. Averill. 1,617,740-1; Feb. 15.
 Emulsions, Breaking water-in-oil. C. C. Averill. 1,617,739; Feb. 15.
 Emulsions, Conditioning crude-oil. C. C. Averill. 1,617,737; Feb. 15.
 Emulsions, Production of. W. Krannich, H. Krzikalla, and C. Schuster. 1,652,016; Dec. 6.
 Emulsions, Separating oily. G. W. Coggeshall and A. Reilly. 1,643,698; Sept. 27.
 Emulsions, Treating. G. W. Coggeshall and A. Reilly. 1,643,699; Sept. 27.
 Enamel composition and making same, Vitreous. G. M. Scott. 1,651,474; Dec. 6.
 Enamel from electrical conductors, Removing. W. G. Houskeeper. 1,653,805; Dec. 27.
 Enamel, Phosphorescent luminous. F. Sauvagé. 1,637,963; Aug. 2.
 End gate. S. E. Klucas. 1,626,414; Apr. 26.
 End gate. R. E. Nash and H. Von Sprecken. 1,632,747; June 14.
 End gate. J. C. Poth. 1,635,905; July 12.
 End gate. H. O. Wenzel. 1,634,224; June 28.
 End gate and platform, Combined. J. H. Keesee. 1,635,422; July 12.
 End gate and ramp, Combined. L. C. Buffington. 1,639,879; Aug. 23.
 End-gate fastener. F. Cantrall. 1,646,899; Oct. 25.
 End gate for wagons. J. Wilhelm. 1,652,692; Dec. 13.
 End-gate scoop board. T. D. Beintema. 1,637,631; Aug. 2.
 End hook. S. L. Lederer. 1,617,291; Feb. 8.
 End-matching machines, Board kicker for. C. A. Killebrew. 1,638,310; Aug. 9.
 End-stop protector. H. N. and A. N. Stamos and T. W. Brown. 1,622,614; Mar. 29.
 End wrench. A. Dickey. 1,641,252; Sept. 6.
 Endless belt sanders, Sectional holddown bar for. F. L. Lang. 1,618,207; Feb. 22.
 Endless-belt conveyers, Carrier for. F. E. Smith. 1,629,054; May 17.
 Endless drier for macaroni. G. Bagnani. 1,634,009; June 28.
 Energy transformers, Automatic regulator for. R. E. Huxey. 1,628,978; May 17.
 Engine: See—
 Air-cooled engine. Blowing engine.
 Air engine. Brake engine.
 Aircraft engine. Combustion engine.
 Automobile engine. Dental engine.
 Beating engine. Explosion engine.

Engine: See—

Explosive engine.
Fluid-actuated engine.
Fluid engine.
Gas engine.
Gasoline engine.
Heat engine.
Hot-air engine.
Hydraulic engine.
Internal-combustion engine.
Logging engine.
Marine engine.
Oil-burning engine.
Oil engine.
Engine. J. B. Baynes. 1,625,638; Apr. 19.
Engine. W. H. Broadfield. 1,625,880; Apr. 26.
Engine. F. F. Cameron. 1,649,775; Nov. 15.
Engine. C. A. Dreisbach. 1,629,686; May 24.
Engine. N. F. Fouer. 1,626,457; Apr. 26.
Engine. G. Geddis. 1,643,158; Sept. 20.
Engine. C. C. Hansen. 1,625,654; Apr. 19.
Engine. H. M. Harris. 1,622,225; Mar. 22.
Engine. J. D. Hay. 1,639,848; Aug. 23.
Engine. P. Marchetti. 1,654,378; Dec. 27.
Engine. J. R. McGiffert. 1,628,052; May 10.
Engine. T. S. Miller. 1,634,912; July 5.
Engine. H. E. Muchnic. 1,634,335; July 5.
Engine. A. L. Powell. 1,645,110; Oct. 18.
Engine. H. R. Shoopman and S. Shindo. 1,642,217; Sept. 13.
Engine. E. D. Smyser. 1,623,502; Apr. 5.
Engine. F. F. Starr. 1,626,364; Apr. 26.
Engine. R. Windell. 1,636,887; July 26.
Engine and brake, Sliding-sleeve valve. E. B. Galbreath. 1,614,886; Jan. 18.
Engine and generator cooling system. A. E. Buchenberg. 1,638,146; Aug. 9.
Engine and means for supplying charge thereto, Internal-combustion. J. M. Cape. 1,619,460; Mar. 1.
Engine and opening the same, Internal-combustion. R. T. Adams. 1,632,988; June 21.
Engine and safety system, Door-operating. G. W. Meyers. 1,630,667; May 31.
Engine and unitary push control, Electromechanical door. G. W. Meyers. 1,651,969; Dec. 6.
Engine-appliance, Internal-combustion. L. Rogers. 1,641,052; Aug. 30.
Engine balance. W. R. Tompkins. 1,654,515; Dec. 27.
Engine bedplate. R. Schneider. 1,626,760; May 3.
Engine brace. A. S. Leeper. 1,639,950; Aug. 23.
Engine compressor, Automotive. N. A. Christensen. 1,633,768; June 28.
Engine control, Aircraft. S. Heath. 1,651,821; Dec. 6.
Engine-control device, Gas. J. M. Craig. 1,618,753; Feb. 22.
Engine-control, Hoisting. W. J. Lilly and H. H. Logan. 1,624,261; Apr. 12.
Engine-control mechanism. H. Marles. 1,644,261; Oct. 4.
Engine-cooling system. L. P. Barlow. 1,632,581; June 14.
Engine-cooling system. L. P. Barlow. 1,632,582-4; June 14.
Engine-cooling system. J. Good. 1,616,966; Feb. 8.
Engine-cooling system. H. C. Mallory. 1,651,827-8; Dec. 6.
Engine-cooling system. S. W. Rushmore. 1,621,755; Mar. 22.
Engine-cooling system. P. J. Schwalbenberg. 1,652,736; Dec. 13.
Engine-cooling systems, Attachment for a gas. E. M. Bremer. 1,626,448; Apr. 26.
Engine-cooling systems, Valve mechanism for. H. C. Mallory. 1,641,341; Sept. 6.
Engine crank cases, Combination magneto contact and oil conductor for. R. W. Ransdell. 1,616,532; Jan. 11.
Engine crank casing, Oil-valve attachment for. C. S. Lutes. 1,635,219; July 12.
Engine cylinder and making same, Internal-combustion. A. L. Boegehold. 1,640,876; Aug. 30.
Engine. Cylinder of internal-combustion. T. Thornycroft. 1,644,860; Oct. 11.
Engine-cylinder-scavenging mechanism. H. A. Gehres. 1,644,777; Oct. 11.
Engine-cylinder valve port and stem-guide structure. G. D. Angle. 1,635,023; July 5.
Engine decarbonizer, Internal-combustion. A. Moore. 1,633,791; June 28.
Engine driven machines, Gradually speeding up. S. E. Allen. 1,645,979; Oct. 18.
Engine equipment, Internal-combustion. J. L. Milton. 1,616,594; Feb. 3.
Engine-exhaust tester. E. J. Kates. 1,653,213; Dec. 20.
Engine for control devices, Hydraulic. C. L. Howse. 1,612,818; Jan. 4.
Engine for rock drills, Rotary. A. H. Katterjohn. 1,617,915; Feb. 15.
Engine frame, Extended hinged. I. C. Robinson. 1,646,931; Oct. 25.
Engine fuel-injection device, Internal-combustion. W. P. Widdowson. 1,613,000; Jan. 4.
Engine fuel system. J. Good. 1,629,500; May 24.
Engine governor. W. T. Dwyer. 1,653,259; Dec. 20.
Engine hood. F. E. Moskovich. Des. 72,677; May 17.
Engine ignition lock. J. G. Schuler. 1,639,354; Aug. 16.
Engine-lubricating system. O. Miller. 1,643,674; Sept. 27.

Engine lubrication. C. E. Bonner. 1,634,768; July 5.
Engine lubrication system, Internal-combustion. R. L. Skinner. 1,640,856; Aug. 30.
Engine manifold. G. Growe. 1,613,995; Jan. 11.
Engine manifold, Internal-combustion. C. Breer. 1,641,619; Sept. 6.
Engine mounting. A. J. Baker. 1,652,159; Dec. 13.
Engine-mounting means. M. J. Riet. 1,618,354; Feb. 22.
Engine oil rectifier, Internal-combustion. R. L. Skinner. 1,650,773; Nov. 29.
Engine operation, Steam. V. Z. Caracristi. 1,627,075; May 3.
Engine or pump. H. A. F. L. M. Warschau. 1,613,210; Jan. 4.
Engine or pump, Rotary. B. R. Planche. 1,636,486; July 19.
Engine, particularly steam engine, Gas or vapor. C. L. Cook. 1,627,427; May 3.
Engine piston, Internal-combustion. J. Fabian. 1,642,432; Sept. 13.
Engine rotary valve member, Internal-combustion. E. M. Bournoville. 1,624,388; Apr. 12.
Engine shells, Self-supporting lining for Jordan. A. L. Bolton. 1,643,368; Sept. 27.
Engine sleeves, Method and apparatus for molding. R. R. Snow. 1,650,305; Nov. 22.
Engine starter. O. Brislows. 1,621,102; Mar. 15.
Engine starter. O. Brislows. 1,653,338; Dec. 20.
Engine starter. O. Brislows. 1,653,616; Dec. 27.
Engine starter. M. P. Ferguson. 1,650,619; Nov. 29.
Engine starter. C. F. Gilchrist. 1,622,377; Mar. 29.
Engine starter. M. B. Jackson. 1,652,361; Dec. 13.
Engine starter. S. L. Kelly and L. E. Koos. 1,633,862; June 28.
Engine starter. W. L. McGrath. 1,637,422; Aug. 2.
Engine starter. W. L. McGrath. 1,650,638-9; Nov. 29.
Engine-starter drive. S. L. Kelly and L. E. Koos. 1,633,863; June 28.
Engine starter, Gas. R. Chilton. 1,625,793; Apr. 26.
Engine starter, Gas. F. E. Mack. 1,644,932; Oct. 1.
Engine starter, Magnetic. O. Brislows. 1,653,618; Dec. 27.
Engine-starter mechanism. F. F. Dorsey. 1,646,643; Oct. 25.
Engine starters and the like, Gear-shifting mechanism for. V. C. Hodges. 1,642,109; Sept. 13.
Engine starters, Drive for. C. Ringwald. 1,634,515; July 5.
Engine-starting apparatus. Z. C. Bradford. 1,618,858; Feb. 22.
Engine-starting apparatus. W. A. Chryst. 1,633,925; June 28.
Engine-starting apparatus. W. A. Chryst. 1,634,738; July 5.
Engine-starting apparatus. W. A. Chryst. 1,640,753; Aug. 30.
Engine-starting apparatus. L. H. Davis. 1,638,246; Aug. 9.
Engine-starting apparatus. G. W. Elsey. 1,638,248; Aug. 9.
Engine-starting apparatus. G. W. Elsey. 1,640,758; Aug. 30.
Engine-starting apparatus. G. W. Elsey. 1,641,418-19; Sept. 6.
Engine-starting apparatus. F. J. Hardman. 1,641,383; Sept. 6.
Engine-starting apparatus. F. J. Hardman. 1,641,426; Sept. 6.
Engine-starting apparatus. W. O. Kennington. 1,638,265; Aug. 9.
Engine-starting apparatus. F. C. Kroeger. 1,634,761; July 5.
Engine-starting apparatus. J. W. Morrison. 1,640,714; Aug. 30.
Engine-starting apparatus. W. W. Riedel. 1,638,214; Aug. 9.
Engine-starting device. A. Avis. 1,632,264; June 14.
Engine-starting device. M. Wild and O. Goldberg. 1,652,920; Dec. 13.
Engine-starting mechanism. W. A. Chryst. 1,641,373; Sept. 6.
Engine stop, Automatic. C. E. Hoover. 1,615,904; Feb. 1.
Engine-stopping device. J. J. Rutledge. 1,633,386; June 21.
Engine-supply valve and reverse levers, Single control means for steam. J. E. Dunlap and E. M. Horn. 1,647,859; Nov. 1.
Engine units, Actuating mechanism for auxiliary. A. F. Mansur. 1,654,087; Dec. 27.
Engine with cylinders arranged in two opposite lines, Internal-combustion. J. J. M. Bertrand and L. J. H. Solanet. 1,634,866; July 5.
Engine with four or more working cylinders, Explosion. S. Rindquist. 1,634,249; June 28.
Engine with inclined cylinders, Internal-combustion. G. C. Cappa. 1,634,017; June 28.
Engine with rotary valve, Internal-combustion. E. T. Larkin. 1,642,734; Sept. 20.
Engine with rotating cylinders arranged radially. B. B. Hof. 1,646,185; Oct. 18.
Engine working with an injection air compressor, Four-cycle internal-combustion. F. Müller. 1,634,468; July 5.

- Engines, Abstraction of lubricating oil from the oil vapor in crank cases of Diesel. R. Traill and R. Strachan. 1,628,932; May 17.
- Engines, Accelerator for automobile. C. W. Hicks. 1,653,568; Dec. 20.
- Engines, Adjustable pitman for compressed-air. J. Góba. 1,651,118; Nov. 29.
- Engines, Air compressors, or the like, Bearing for. J. E. Harris. 1,627,031; May 3.
- Engines, Air controller for gas. C. A. Criqui and E. T. Larkin. 1,614,544; Jan. 18.
- Engines, Air intake for internal-combustion. E. C. Storey. 1,625,721; Apr. 5.
- Engines, Air strainer for combustion. W. L. and E. L. Olmstead. 1,619,954; Mar. 8.
- Engines, Air washer for internal-combustion. E. V. Morris. 1,619,029; Mar. 1.
- Engines and improved oil engine, Operating oil. C. Ryder. 1,618,229; Feb. 22.
- Engines and machines, Lubrication of. A. H. R. Fedden and L. F. G. Butler. 1,618,870; Feb. 22.
- Engines and motor vehicles, Starting gear for fixed explosive motor. A. de Changy. 1,628,710; May 17.
- Engines and motors, Valve for. J. U. Jones. 1,620,355; Mar. 8.
- Engines and operating the same, Cooling system for internal-combustion. W. W. Muir. 1,643,511; Sept. 27.
- Engines, Apparatus for lubricating internal-combustion. A. L. Clayden. 1,628,117; May 10.
- Engines, Apparatus for operating fire. C. Gordijn, jr. 1,613,165; Jan. 4.
- Engines, Apparatus for supplying combustible mixture to internal-combustion. O. Ebersbach. 1,641,964; Sept. 13.
- Engines, Apparatus for supplying fuel to internal-combustion. S. J. Pingree. 1,623,750; Apr. 5.
- Engines, Arrangement for governing internal-combustion. F. S. Van Dusen. 1,617,378; Feb. 15.
- Engines, Attachment for gas. W. H. Alleman. 1,630,286; May 31.
- Engines, Attachment for gas. P. F. Slegmann. 1,646,321; Oct. 18.
- Engines, Attachment for internal-combustion. J. C. McClain. 1,640,790; Aug. 30.
- Engines, Attachment for internal-combustion. J. E. Niles. 1,621,376; Mar. 15.
- Engines, Automatic charge-heating control for internal-combustion. D. P. Molony. 1,625,134-5; Apr. 19.
- Engines, Automatic cut-out for. W. R. Hamilton. 1,614,361; Jan. 11.
- Engines, Automatic drain for water-cooled. T. H. Brews. 1,640,277; Nov. 15.
- Engines, Automatic governor for marine. E. F. J. Breland. 1,643,574; Sept. 27.
- Engines, Automatic ignition-control device for. D. J. Baas. 1,644,810; Oct. 11.
- Engines, Automatic inductor arranged on and actuated by internal-combustion. H. Surlemont. 1,621,179; Mar. 15.
- Engines, Automatic regulator for internal-combustion. L. Ferrette. 1,625,719; Apr. 19.
- Engines, Automatic rotary-valve clearance regulator for internal-combustion. V. F. Zahodiasin. 1,644,908; Oct. 11.
- Engines, Automatic starting device for internal-combustion. P. Viet. 1,639,552; Aug. 16.
- Engines, Automatically controlling the ignition systems of internal-combustion. J. Johnstone, P. J. and A. E. Allen. 1,654,220; Dec. 27.
- Engines, Auxiliary air and fume supply for explosive. A. V. Chapin. 1,619,330; Mar. 1.
- Engines, Auxiliary air control for gasoline. W. G. Marsh. 1,619,082; Mar. 1.
- Engines, Auxiliary air-inlet device for internal-combustion. R. A. Reid. 1,650,388; Nov. 22.
- Engines, Auxiliary-charge-forming means for internal-combustion. A. J. P. Bertschy. 1,627,139; May 3.
- Engines, Auxiliary fuel device for internal-combustion. L. Knapp. 1,627,663; May 10.
- Engines, Bifuel system for gas. C. Cornwell. 1,635,460; July 12.
- Engines, Cam-shaft and accessory drive for. G. D. Angle. 1,653,689; Dec. 27.
- Engines, Carburetor for internal-combustion. C. Carlsson. 1,639,396; Aug. 16.
- Engines, Carburetor for internal-combustion. J. Sieber. 1,623,760; Apr. 5.
- Engines, Carburetor for internal-combustion. F. F. Stratton. 1,650,547; Nov. 22.
- Engines, Carburetor for supercharging internal-combustion. F. Porsche. 1,644,029; Oct. 4.
- Engines, Centrifugal oil separator for use with heat. D. Porter. 1,614,803; Jan. 18.
- Engines, Charge-forming device for internal-combustion. E. C. Colliard. 1,631,362; June 7.
- Engines, Charge-forming device for internal-combustion. H. T. Thomas. 1,646,505; Oct. 25.
- Engines, Charge-heating control for internal-combustion. A. G. Redwood. 1,643,957; Oct. 4.
- Engines, Circulating system for internal combustion. E. H. Smith. 1,646,070; Oct. 18.
- Engines, Combined automatic and manual control for drilling. C. H. Sheasley and E. H. Crossen. 1,630,637; May 31.
- Engines, Combined motometer, vapor trap, and filler cap for radiators of internal-combustion. K. W. E. Hamann. 1,616,757; Jan. 25.
- Engines combined with a fuel injector, Cylinder head of internal-combustion. V. Archauloff. 1,633,158; June 21.
- Engines, Compressed-air starting device of internal-combustion. A. U. S. Danielsson. 1,632,023; June 14.
- Engines, Compressor for gas. W. H. Bunker. 1,636,124; July 19.
- Engines, compressors, and the like, Air-cooling of the cylinders and pistons and other working parts of internal-combustion. A. G. M. Michell. 1,621,943; Mar. 22.
- Engines, Connecting rod for. R. Chilton. 1,621,494; Mar. 22.
- Engines, Construction and mounting of a valve-sealing mechanism for internal-combustion. R. W. A. Brewer. 1,637,799; Aug. 2.
- Engines, Cooling device for compressor. L. F. Hoffman. 1,654,081; Dec. 27.
- Engines, Controlling combustion in internal-combustion. F. A. Howard and J. R. Wright. 1,623,053; Apr. 5.
- Engines, Controlling device for marine. E. F. J. Breland. 1,625,978; Apr. 26.
- Engines, Cooling arrangement for internal-combustion. C. Regenbogen. 1,621,560; Mar. 22.
- Engines, Cooling internal-combustion. J. W. Hudson. 1,612,868; Jan. 4.
- Engines, Cooling internal-combustion. W. W. Muir. 1,625,737; Apr. 19.
- Engines, Cooling internal-combustion. W. W. Muir. 1,639,745; Aug. 23.
- Engines, Cooling means for internal-combustion. P. Walters. 1,618,614; Feb. 22.
- Engines, Cooling mechanism for internal-combustion. J. W. Hudson. 1,635,933; July 12.
- Engines, Cooling system for air-cooled motor-vehicle. J. Wilkinson. 1,624,453; Apr. 12.
- Engines, Cooling system for gas. H. J. Edwards. 1,645,188; Oct. 11.
- Engines, Cooling system for internal-combustion. W. W. Muir. 1,623,803-4; Apr. 5.
- Engines, Cooling system for internal-combustion. W. W. Muir. 1,634,444; July 5.
- Engines, Cooling system for internal-combustion. W. W. Muir. 1,649,247; Nov. 15.
- Engines, Cooling system for internal-combustion. S. W. Rushmore. 1,644,088; Oct. 4.
- Engines, Cooling system for internal-combustion. M. H. Ward and E. L. Auran. 1,640,681; Aug. 30.
- Engines, Cooling system for the crank cases of internal-combustion. J. P. Glasby, jr. 1,645,134; Oct. 11.
- Engines, Cooling the pistons of heat. E. A. Sperry. 1,648,968; Nov. 15.
- Engines, Cooling the valve stems and seats in internal-combustion. G. C. Cappa. 1,621,521; Mar. 22.
- Engines, Cylinder block for internal-combustion. J. Fejes. 1,640,761; Aug. 30.
- Engines, Cylinder casting for steam. J. Kupka. 1,638,736; Aug. 9.
- Engines, Cylinder construction for gas. E. A. Watts. 1,619,908; Mar. 8.
- Engines, Cylinder construction for internal-combustion. E. Nibbs. 1,643,677; Sept. 27.
- Engines, Cylinder for double-acting. T. D. Bowes. 1,625,843; Apr. 26.
- Engines, Cylinder for gasoline. W. B. Hilger. 1,638,852; Aug. 16.
- Engines, Cylinder for internal-combustion. H. Becker. 1,627,549; May 10.
- Engines, Cylinder for internal-combustion. C. Blenz. 1,617,008; Feb. 8.
- Engines, Cylinder for internal-combustion. M. S. Napier and G. S. Wilkinson. 1,622,965; Mar. 29.
- Engines, Cylinder head for all types of water-cooled internal-combustion. J. T. Bootes. 1,649,659; Nov. 15.
- Engines, Cylinder head for sleeve-valve internal-combustion. E. R. Burtnett. 1,637,519; Aug. 2.
- Engines, Cylinder structure for internal-combustion. H. B. Setz. 1,623,839; Apr. 5.
- Engines, Device for supplying moistened air to internal-combustion. R. A. Labbe. 1,619,871; Mar. 8.
- Engines, Distributor for internal-combustion. A. Hammond. 1,642,876; Sept. 20.
- Engines, Draining means for splash troughs of internal-combustion. G. A. Laver. 1,623,254; Apr. 5.
- Engines, Driving gear for locomotives equipped with internal-combustion. N. Dobrowski and O. Günther. 1,628,492; May 10.
- Engines, Driving of rotary blowers or pumps for use on internal-combustion. F. R. Smith and S. M. Vale. 1,620,544; May 31.
- Engines, Electrical testing apparatus for fluid pressure. F. W. Highfield and H. E. Taylor. 1,635,980; July 12.
- Engines, Electromechanical valve-operating means for internal-combustion. L. N. Bland. 1,632,531; June 14.
- Engines, Exhaust device for. H. T. Herr. 1,632,896; Aug. 21.
- Engines, Exhaust silencer for internal-combustion. J. Nell. 1,638,780; Aug. 9.
- Engines, Explosive chamber for gas. J. B. McKeown. 1,620,565; Mar. 8.
- Engines, Fan drive for. E. J. Hall. 1,643,622; Sept. 27.

- Engines, Flame plug for internal-combustion. J. M. Clark. 1,621,551; Mar. 22.
- Engines, Flexible power-transmission for internal-combustion. T. M. Binley. 1,621,977; Mar. 22.
- Engines, Fluid-cooled rotary valve for internal-combustion. R. F. Barker. 1,626,111; Apr. 26.
- Engines, Fluid-operable lubricator and feeder for. F. K. Murphy and R. W. Retterer. 1,620,911; Mar. 15.
- Engines, Fluid-operable lubricator and feeder for. F. K. Murphy and R. W. Retterer. 1,621,804; Mar. 22.
- Engines, Fluid-operable lubricator for. F. K. Murphy and R. W. Retterer. 1,620,121; Mar. 8.
- Engines, Force-feed lubricating system for hydrocarbon. C. A. Winslow and E. J. Hall. 1,638,281; Aug. 9.
- Engines, Fresh-air heater for internal-combustion. A. Nolzen. 1,637,006; July 26.
- Engines, Fuel-admission device for heavy-oil. F. Huber. 1,624,413; Apr. 12.
- Engines, Fuel control in internal-combustion. H. Junkers. 1,636,998; July 26.
- Engines, Fuel-control means for internal-combustion. B. D. Thompson. 1,624,693; Apr. 12.
- Engines, Fuel-controlling device for internal-combustion. J. G. Artberg. 1,653,754; Dec. 27.
- Engines, Fuel distributor for internal-combustion. A. G. Lundstrom. 1,630,957; May 31.
- Engines, Fuel economizer for internal-combustion. H. H. Humphrey. 1,640,571; Aug. 30.
- Engines, Fuel-feed apparatus for internal-combustion. R. Crain. 1,642,579; Sept. 13.
- Engines, Fuel-feed apparatus for internal-combustion. B. H. Savage. 1,630,971; May 31.
- Engines, Fuel-feed device for internal-combustion. J. Shaw. 1,619,379; Mar. 1.
- Engines, Fuel-feed mechanism for oil. F. W. Severin. 1,640,579; Aug. 30.
- Engines, Fuel-feeding device for combustion. W. Schwerdtfeger. 1,617,501; Feb. 15.
- Engines, Fuel-feeding device for internal-combustion. H. Johnson. 1,635,287; Dec. 20.
- Engines, Fuel-feeding device of internal-combustion. O. and G. Svensson. 1,624,024; Apr. 12.
- Engines, Fuel-feeding system for internal-combustion. A. G. Redmond. 1,631,984; June 14.
- Engines, Fuel-feeding system for internal-combustion. H. Van Deynter. 1,646,836; Oct. 18.
- Engines, Fuel for internal-combustion. J. W. Orelup. 1,649,485; Nov. 15.
- Engines, Fuel heater for internal-combustion. H. E. Rhoads. 1,623,441; Apr. 5.
- Engines, Fuel-injection device for internal-combustion. G. Himmelsbach. 1,638,092; Aug. 9.
- Engines, Fuel-injection device for internal-combustion. F. Rochefort. 1,616,335; Feb. 1.
- Engines, Fuel-injection system for oil. O. A. Banner. 1,644,769; Oct. 11.
- Engines, Fuel injector for internal-combustion. R. Hildebrandt. 1,625,606; Apr. 19.
- Engines, Fuel injector for internal-combustion. W. B. Potter. 1,645,071; Oct. 11.
- Engines, Fuel mixer for internal combustion. B. E. Dyer. 1,614,664; Jan. 18.
- Engines, Fuel-mixing device for internal-combustion. L. F. Lay. 1,626,799; May 3.
- Engines, Fuel-mixing device for internal-combustion. O. Selg. 1,646,935; Oct. 25.
- Engines, Fuel pump for combustion. M. St. Clair. 1,618,854; Jan. 11.
- Engines, Fuel-pumping mechanism for internal-combustion. E. L. Lowe. 1,640,509; Aug. 30.
- Engines, Fuel-regulating apparatus for explosion. M. J. Murphy. 1,615,996; Feb. 1.
- Engines, Fuel regulation device for internal-combustion. R. O. Donnelly. 1,633,928; June 28.
- Engines, Fuel separator and vaporizer for the manifolds of internal-combustion. G. R. Davenport. 1,627,597; May 10.
- Engines, Fuel-supply means for combustion. J. Good. 1,620,645; Mar. 15.
- Engines, Fuel supply means for heavy oil. E. H. Tartrals. 1,623,074; Apr. 5.
- Engines, Fuel-supply means for internal-combustion. S. Deery. 1,613,759; Jan. 11.
- Engines, Fuel system for internal-combustion. C. F. Weeber. 1,625,007; Apr. 19.
- Engines, Fuel vaporizer for internal-combustion. H. E. May. 1,624,271; Apr. 12.
- Engines, Gaseous-fuel pump for internal-combustion. E. R. Burnett. 1,638,289; Aug. 9.
- Engines, Governing mechanism for oil. F. W. Severin. 1,640,578; Aug. 30.
- Engines, Governor for explosive. C. A. Robertson. 1,627,118; May 3.
- Engines, Governor for gas. W. A. Girardier and B. B. Hibbard. 1,632,471; June 14.
- Engines, Governor for gas. P. E. Mack. 1,613,470; Jan. 4.
- Engines, Governor for gas. W. Peterson. 1,643,516; Sept. 27.
- Engines, Governor for internal-combustion. H. H. Reents. 1,650,043; Nov. 22.
- Engines, Governor for tractor. O. T. Nichol. 1,637,453; Aug. 2.
- Engines, Head for explosion. G. C. Cappa. 1,636,214; July 19.
- Engines, Heat control for internal-combustion. J. R. Brands. 1,626,727; May 3.
- Engines, Heat retainer for. J. B. Kitch. 1,629,394; May 17.
- Engines, Heater for internal-combustion. J. F. Sloan. 1,615,049; Jan. 18.
- Engines, High-pressure pump for Diesel. H. I. A. Dörner. 1,619,557; May 17.
- Engines, Humidifying device for use with internal-combustion. A. J. Coppock. 1,631,308; June 7.
- Engines, Ignition apparatus for internal-combustion. L. M. Woolson. 1,616,939; Feb. 8.
- Engines, Ignition device of internal-combustion. F. H. Royce. 1,632,228; Dec. 13.
- Engines, Ignition in internal-combustion. M. J. P. Barbarou. 1,622,871; Mar. 29.
- Engines, Ignition-testing device for internal-combustion. C. D. Bourcier. 1,632,166; June 14.
- Engines, Impulse equalizer for internal-combustion. G. H. Scully. 1,637,245; July 26.
- Engines in vehicles, Mounting. F. H. Royce. 1,648,061; Nov. 8.
- Engines, Increasing valve lifter for gas. B. F. Schmidt. 1,654,020; Dec. 27.
- Engines, Injecting liquid fuel into internal-combustion. S. D. Olsen. 1,629,633; May 24.
- Engines, Inlet manifold for internal-combustion. E. R. Burnett. 1,652,855; June 21.
- Engines, Intake manifold arrangement for W-type internal-combustion. G. D. Angie. 1,622,172; Mar. 22.
- Engines, Intake manifold for internal-combustion. E. R. Burnett. 1,623,388; Apr. 5.
- Engines, Jacketing arrangement for internal-combustion. W. Mauss. 1,653,718; Dec. 27.
- Engines, Laminar flow governor for internal-combustion. G. Niederre and W. E. Lawrence. 1,640,615; Aug. 30.
- Engines, Liquid-fuel-supply arrangement for internal-combustion. F. J. S. Jones. 1,621,933; Mar. 22.
- Engines, Locking mechanism for internal-combustion. H. A. Douglas. 1,613,875; Jan. 11.
- Engines, Lubricant-cooling attachment for Ford. E. L. Beebe. 1,653,427; Dec. 20.
- Engines, Lubricant for automotive. L. B. Lockhart. 1,639,347; Aug. 16.
- Engines, Lubricating and cooling system for internal-combustion. E. J. Hall. 1,617,845; Feb. 15.
- Engines, Lubricating apparatus for internal-combustion. C. C. Berg. 1,637,600; Aug. 2.
- Engines, Lubricating arrangement for internal-combustion or like. M. J. B. Barbarou. 1,640,973; Aug. 30.
- Engines, Lubricating arrangement for the cylinders of two-stroke-cycle. E. H. Tartrals. 1,630,547; May 31.
- Engines, Lubricating internal-combustion. A. E. Becker. 1,628,647; May 17.
- Engines, Lubricating means for internal-combustion. J. H. Heywood. 1,633,378; June 21.
- Engines, Lubricating means for internal-combustion. P. A. Tanner and F. T. Irgens. 1,628,755; May 17.
- Engines, Lubricating system for internal-combustion. J. N. Craver and J. E. Craver. 1,622,654; June 1.
- Engines, Lubricating system of internal-combustion. E. J. Sweetland. 1,624,689; Apr. 12.
- Engines, Lubrication of internal-combustion. R. C. Garland. 1,629,695; May 24.
- Engines, Lubrication of sleeve-valve. W. S. Fisher. 1,634,826; July 5.
- Engines, Lubrication system for internal-combustion. E. H. Belden. 1,623,461; Apr. 5.
- Engines, Lubrication system for internal-combustion. R. L. Skinner. 1,644,094; Oct. 4.
- Engines, Manifold construction for internal-combustion. H. Ford. 1,624,229; Apr. 12.
- Engines, Manifold cut-off for internal-combustion. N. N. Neer. 1,628,276; Apr. 12.
- Engines, Manifold for internal-combustion. R. K. Jack. 1,651,393; Dec. 6.
- Engines, Manifold for multicylinder internal-combustion. A. P. Brush. 1,634,823; July 5.
- Engines, Manifold heater for internal-combustion. A. G. Bridgford and S. B. Bold. 1,641,728; Sept. 6.
- Engines, Means or arrangement for supplying liquid fuel to internal-combustion. S. D. Olsen. 1,625,739; Apr. 19.
- Engines, Mechanism for facilitating the starting of internal-combustion. C. Y. Knight. Re16,757; Oct. 4.
- Engines, Method and means for starting internal-combustion. N. Herzmark. 1,625,940; Apr. 26.
- Engines, Method and means for supplying fuel to hydrocarbon. J. E. Arnold. 1,617,736; Feb. 15.
- Engines, Method of and mechanism for controlling variable-speed. E. J. Armstrong. 1,650,415; Nov. 22.
- Engines, Mixing device for internal-combustion. F. A. Brewer. 1,622,701; Mar. 29.
- Engines, Mixing device for internal-combustion. E. Thornton. 1,633,050; June 21.
- Engines, Mixture-forming means for internal-combustion. L. M. Woolson. 1,626,062; Apr. 26.
- Engines, Mixture valve for gas. E. A. Watts. 1,615,249; Jan. 25.
- Engines, Muffler for gas. C. W. Hall. 1,654,078; Dec. 27.
- Engines, Muffler for gas. B. Stockfleth and F. W. Burger. 1,653,934; Dec. 27.
- Engines, Muffler for internal-combustion. F. A. Nelson. 1,637,347; Aug. 2.

- Engines, Oil-purifying apparatus for hydrocarbon. J. A. Watson. 1,630,876; May 31.
- Engines, Oil-purifying apparatus for hydrocarbon. J. A. Watson. 1,651,495; Dec. 6.
- Engines, Oil reducer for internal-combustion. C. E. Lilley. 1,624,957; Apr. 19.
- Engines, Oiling device for internal-combustion. R. F. Ensign. 1,615,363; Jan. 25.
- Engines, Oiling system for internal-combustion. F. S. Baster. 1,614,773; Jan. 18.
- Engines, Oiling system for internal-combustion. A. Smith. 1,653,476; Dec. 20.
- Engines, Oiling system for internal-combustion. A. Taub. 1,634,123; June 28.
- Engines on motor-driven vehicles, Air-admission-control device for internal-combustion. V. Alder. 1,650,587; Nov. 29.
- Engines on shipboard, Compressed-air installation for internal-combustion. W. Hefti. 1,618,335; Feb. 22.
- Engines, Operating constant-pressure internal-combustion. W. B. S. Whaley. 1,645,169; Oct. 11.
- Engines, Oscillating valve for internal-combustion. N. H. Ament. 1,614,768; Jan. 18.
- Engines, Piston for internal-combustion. O. E. Jorgensen. 1,626,838; May 5.
- Engines, Piston for internal-combustion. E. A. Sperry. 1,639,062; Aug. 16.
- Engines, Piston for internal-combustion. D. E. Willis. 1,627,719; May 10.
- Engines, Pneumatic stripper attachment for carding. E. Clark. 1,614,403; Jan. 11.
- Engines, Pneumatic stripper attachment for carding. E. Clark. 1,633,542; June 21.
- Engines, Pneumatic stripper for carding. P. E. Greenhill. 1,616,896; Feb. 8.
- Engines, Pressure fuel-feed system for hydrocarbon. A. E. Berdon. 1,639,645; Aug. 23.
- Engines, Priming system for internal-combustion. L. J. Hill. 1,653,853; Dec. 27.
- Engines, Process and apparatus for improving the efficiency of internal-combustion. M. K. De Trairun and H. Justernitz. 1,614,234; Jan. 11.
- Engines, Process of and apparatus for cooling internal-combustion. W. W. May. 1,630,670; May 24.
- Engines, Reatomizing device for internal-combustion. W. M. Willy. 1,627,627; May 10.
- Engines, Relief valve for gas. E. E. Young. 1,622,937; Mar. 29.
- Engines, Removable lining shell for Jordan. A. L. R. Bolton. 1,642,327; Sept. 13.
- Engines, Retarding mechanism for internal-combustion. A. Howitz. 1,624,342; Apr. 12.
- Engines, Reversing and control mechanism for internal-combustion. C. G. Barrett. 1,650,929; Nov. 29.
- Engines, Reversing and starting mechanism for internal-combustion. O. E. Jorgensen. 1,636,964; July 26.
- Engines, Rotary valve for combustion. B. A. Knudson. 1,649,779; Nov. 15.
- Engines, Rotary valve for internal-combustion. O. H. Hodges. 1,651,207; Nov. 29.
- Engines, Rotary valve for internal-combustion. T. D. Werbitzky. 1,619,226; Mar. 1.
- Engines, Rotary-valve mechanism for. R. M. Lovejoy. 1,621,732; Mar. 22.
- Engines, Safety device for apparatus for forced lubrication in combustion. J. Eilers. 1,637,412; Aug. 2.
- Engines, Safety device for internal-combustion. J. P. Geraghty. 1,652,113; Dec. 6.
- Engines, Safety device for oil-injection. W. A. Morrison. 1,651,066; Nov. 29.
- Engines, Safety starting crank for internal-combustion. A. E. Babcock. 1,630,595; May 31.
- Engines, scavenging, fuel-humidifying, and volatilizing process and apparatus for internal-combustion. J. P. Farnham. 1,626,335; Apr. 26.
- Engines, Scavenging pump of internal-combustion. O. Mader. 1,629,878; May 24.
- Engines, Sealing means for rotary. F. A. Bullington. 1,644,564; Oct. 4.
- Engines, Self-adjusting valve-actuating rod for internal-combustion. W. M. Anderson. 1,613,815; Jan. 11.
- Engines, Separator and vaporizer for internal-combustion. G. Wirrer. 1,629,565; May 24.
- Engines, Speed-controlling apparatus for. E. T. Hull. 1,620,764; Mar. 15.
- Engines, Speed-controlling apparatus for internal-combustion. E. T. Hull. 1,620,763; Mar. 15.
- Engines, Speed reducer for internal-combustion. G. Fornaca. 1,625,596; Apr. 19.
- Engines, Spray valve for oil. O. E. Jorgensen. 1,615,457; Jan. 25.
- Engines, Starter for. M. B. Jackson. 1,646,864; Oct. 25.
- Engines, Starter for. M. B. Jackson. 1,648,946; Nov. 15.
- Engines, Starter for. M. B. Jackson. 1,651,127; Nov. 29.
- Engines, Starter for gas. H. W. Gauld. 1,619,414; Mar. 1.
- Engines, Starter for internal-combustion. M. B. Jackson. 1,652,360; Dec. 13.
- Engines, Starter for internal-combustion. F. W. Maby. 1,631,747; June 7.
- Engines, Starting combustion. J. Good. 1,617,107; Feb. 8.
- Engines, Starting crank for internal-combustion. C. Irvine. 1,644,019; Oct. 4.
- Engines, Starting device for internal-combustion. V. R. Clark. 1,620,998; Mar. 15.
- Engines, Starting device for internal-combustion. S. Jenick. 1,620,102; Mar. 8.
- Engines, Starting device for internal-combustion. V. B. Nelson. 1,622,289; Mar. 29.
- Engines, Starting internal-combustion. C. F. Heywood. 1,616,895-6; Aug. 9.
- Engines, Starting internal-combustion. H. Junkers. 1,647,231; Nov. 1.
- Engines, Starting system for internal-combustion. F. Allison. 1,620,747; Mar. 15.
- Engines, Steam-jacketed oil pump and pipe connection for internal-combustion. O. E. Jorgensen. 1,644,838; Oct. 11.
- Engines, Steam superheater for steam. W. Schmidt. 1,618,230; Feb. 22.
- Engines, Supercharger for internal-combustion. S. M. Udale. 1,633,143; June 21.
- Engines, Supercharging of internal-combustion. A. Hall-Brown. 1,645,178; Oct. 11.
- Engines, Supplementary exhaust for internal-combustion. A. A. West. 1,643,912; Sept. 27.
- Engines, Supplying fuel to explosive. H. Pedersen. 1,624,623; Apr. 12.
- Engines, Supplying liquid fuel to internal-combustion. I. Scott. 1,632,926; June 21.
- Engines, Support of aero. P. M. Royce and A. G. Elliott. 1,624,761; Apr. 12.
- Engines, System of control for marine. E. C. Stafford. 1,643,424; Sept. 27.
- Engines, Tappet for internal-combustion. W. Stevenson. 1,634,276; July 5.
- Engines, Temperature control for internal-combustion. S. W. Rushmore. 1,651,156; Nov. 29.
- Engines, Temperature control of the air constituent of fuel for explosive. E. H. Gross. 1,639,032; Aug. 16.
- Engines, Temperature-controlling apparatus for internal-combustion. F. M. Furber. 1,621,064-5; Mar. 15.
- Engines, Temperature indicator for. C. A. Dunham. 1,614,919; Jan. 18.
- Engines, Temperature regulator for internal-combustion. J. A. Kinnard. 1,639,299; Aug. 16.
- Engines, Testing device for internal-combustion. T. O. Liles. 1,657,867; Aug. 2.
- Engines, Thermostatic controlled heating system for water-cooled. J. H. Ermatiger. 1,613,847; Jan. 4.
- Engines, Thermostatic heat control for internal-combustion. J. R. Francis. 1,613,029; Jan. 4.
- Engines, Thermostatic heat control for internal-combustion. R. P. Wright. 1,613,005-8; Jan. 4.
- Engines, Thermostatic control for internal-combustion. R. P. Wright. 1,630,728; May 31.
- Engines, Throttle-controlling means for internal-combustion. E. A. Robb. 1,613,197; Jan. 4.
- Engines, Timer distributor mechanism for internal-combustion. C. E. Berkdoll. 1,641,370; Sept. 6.
- Engines, Timer for gasoline. M. Herrera. 1,617,808; Feb. 15.
- Engines, Timer for internal-combustion. S. P. McDonnell and P. A. Villars. 1,627,520; May 3.
- Engines, Timer for internal-combustion. B. Volkmar. 1,625,001; Apr. 19.
- Engines, Timing gear for internal-combustion. C. W. Van Rans. 1,619,426; Nov. 15.
- Engines upon aircraft, Mechanism for safety controlling internal-combustion. T. Douglas. 1,651,919; Dec. 6.
- Engines, Valve construction for gas. E. B. Rodgers. 1,621,485; Mar. 15.
- Engines, Valve for internal-combustion. O. C. Funderburk. 1,623,176-7; Apr. 5.
- Engines, Valve for internal-combustion. G. A. Loud. 1,652,487; Dec. 13.
- Engines, Valve gear for explosion. G. C. Cappa. 1,636,213; July 19.
- Engines, Valve gear for internal-combustion. G. C. Cappa. 1,621,522; Mar. 22.
- Engines, Valve gear for power. H. Becker. 1,645,574; Oct. 18.
- Engines, Valve gear for power. J. Buchli. 1,634,736; July 5.
- Engines, Valve gear for steam. B. V. Nordberg. 1,643,853; Sept. 27.
- Engines, Valve gear for steam. J. Stumpf. 1,625,632; Apr. 19.
- Engines, Valve gear in internal-combustion. M. J. B. Barbarou. 1,623,041; Apr. 5.
- Engines, Valve gearing for internal-combustion. F. S. Baster. 1,614,709; Jan. 18.
- Engines, Valve mechanism for combustion. E. A. Sperry. 1,627,210; May 3.
- Engines, Valve mechanism for internal-combustion. J. O. Almen. 1,637,017; July 26.
- Engines, Valve mechanism for internal-combustion. D. B. Burns. 1,623,525; Apr. 5.
- Engines, Valve mechanism for internal-combustion. H. Ford. 1,640,118; Aug. 23.
- Engines, Valve mechanism for internal-combustion. G. Fornaca. 1,631,410; June 7.
- Engines, Valve mechanism for internal-combustion. E. H. Clark. 1,657,710; Feb. 15.
- Engines, Valve mechanism for internal-combustion. R. C. Knowles. 1,642,156; Sept. 13.

- Engines, Valve-port arrangement for internal-combustion. G. D. Angle and H. E. Morehouse. 1,634,971; July 5.
- Engines, Vapor-cooling system for internal-combustion. L. P. Barlow. 1,632,585-6; June 14.
- Engines, Vaporizer and preheater for internal-combustion. R. Beck. 1,619,499; Mar. 1.
- Engines, Vaporizer for explosive. J. C. Fulkerson. 1,636,470; July 19.
- Engines, Vaporizer for gasoline. R. H. Johnson. 1,625,661; Apr. 19.
- Engines, Vaporizer for internal-combustion. P. D. Inghos. 1,638,208; Aug. 9.
- Engines, Vaporizing apparatus for internal-combustion. J. Good. 1,625,312; Apr. 19.
- Engines, Vaporizing attachment for internal-combustion. E. Ryder. 1,618,139; Feb. 15.
- Engines, Variable-temperature cooling system for internal-combustion. W. W. Muir. 1,643,510; Sept. 27.
- Engines, Water circulator and air moistener for water-cooled internal-combustion. R. Beck. 1,623,229; Apr. 5.
- Engines with scavenging ports, Cylinder for two stroke internal-combustion. H. Becker. 1,645,575; Oct. 18.
- Engines, Working substance for heat. R. Davenport. 1,619,194; Mar. 1.
- Engraved plates with electros in a solid plate, Incorporating. W. J. Maginnis. 1,643,390; Sept. 27.
- Engraving apparatus. R. T. Dieges. 1,612,967; Jan. 4.
- Engraving machine. L. K. Braren. 1,617,312; Feb. 8.
- Engraving machine. P. A. Brock. 1,617,370; Feb. 15.
- Engraving machine. E. H. Kuhlman. 1,620,975; Mar. 15.
- Engraving machine. E. Pomplum and W. Jennerjahn. 1,642,555; Sept. 13.
- Engraving machine. H. G. Turner. 1,625,062; Apr. 19.
- Engraving method and apparatus. C. R. Seaborne. 1,627,205; May 3.
- Engraving or like machine. W. S. Eaton. 1,621,317; Mar. 19.
- Engraving process and device. S. E. Rice. 1,648,782; Nov. 8.
- Ensilage cutter. C. W. Keith. 1,621,510; Mar. 22.
- Entrance protector, Automatic. G. L. Tracy. 1,632,683; June 14.
- Entries from cards or sheets or the like on a collective sheet, Apparatus for mechanically copying. M. F. Brandt. 1,636,405; July 19.
- Envelope. S. M. Aitelli. 1,640,685; Aug. 30.
- Envelope. C. Biedermann. 1,630,465; May 31.
- Envelope. L. W. Hargroves. 1,629,788; May 24.
- Envelope. F. Hogan. 1,624,137; Apr. 12.
- Envelope. W. H. Hollar, jr. 1,633,369; June 21.
- Envelope. H. E. Kaplan. 1,635,278; July 12.
- Envelope. T. H. Krueger. 1,642,116; Sept. 13.
- Envelope. D. R. McCain. 1,645,148; Oct. 11.
- Envelope. J. C. Walters. 1,626,578; Apr. 26.
- Envelope. H. A. Wolf. 1,629,852; May 24.
- Envelope and envelope blank. M. I. Snape. 1,646,426; Oct. 25.
- Envelope and making same. A. E. Naugle. 1,632,669; June 14.
- Envelope and the like and carrier therefor. T. H. Krueger. 1,615,535; Feb. 8.
- Envelope blank and making same. O. Widmaler. 1,636,495; July 19.
- Envelope-closing machine. R. Mohn. 1,613,243; Jan. 4.
- Envelope-fastener-attaching machine. A. Novick. 1,651,834; Dec. 6.
- Envelope-fastening device. A. Olgyay. 1,619,215; Mar. 1.
- Envelope-feed mechanism. G. E. Sheldrick. 1,646,883; Oct. 25.
- Envelope feeder. C. L. Post. 1,629,450; May 17.
- Envelope-filling machine. G. F. Russ. 1,633,350; June 21.
- Envelope folding and sealing device. O. Widmaler. 1,645,842; Oct. 18.
- Envelope for garments, Protective. M. D. K. Bremner. 1,652,269; Dec. 13.
- Envelope holder. E. Treulich. 1,649,935; Nov. 22.
- Envelope-liner machine and method. H. J. Toepfert. 1,646,798; Oct. 25.
- Envelope machine. A. Novick. 1,631,146; June 7.
- Envelope machine. A. Olgyay. 1,634,080; June 28.
- Envelope machine. J. Stinson. 1,613,915; Jan. 11.
- Envelope machine. M. Vierenge. 1,649,760; Nov. 15.
- Envelope machines, Printing attachment for. E. F. Ahlquist. 1,617,782; Feb. 15.
- Envelope-making machine. J. M. Townsend. 1,638,895; Aug. 16.
- Envelope opener. E. E. Fleming. 1,624,590; Apr. 12.
- Envelope opener. A. R. Irvine. 1,649,699; Nov. 15.
- Envelope or bag making machines, Feeding device for. T. Hugo. 1,648,789; Nov. 8.
- Envelope, Patent. J. C. Johnson. 1,639,566; Aug. 16.
- Envelope, Pyraline document-holding. C. J. Gutberlet. 1,620,962; Mar. 15.
- Envelope, Safety. J. Koess. 1,654,484; Dec. 27.
- Envelope, Safety. A. V. Walker. 1,637,884; Aug. 2.
- Envelope-sealing device. E. B. Gray. 1,632,648; June 14.
- Envelope-window-cutting device. A. Olgyay. 1,619,365; Mar. 1.
- Envelopes and the like, Fastener for. J. G. Swab. 1,619,382; Mar. 1.
- Envelopes and the like, Metal safety seal for. L. Unger. 1,651,564; Dec. 6.
- Envelopes and the like, Sheet-folding mechanism for. A. Novick. 1,616,982; Feb. 8.
- Envelopes, Apparatus for lining. G. E. P. Collins. 1,627,149; May 3.
- Envelopes, Clip for. 1,613,827; Jan. 11.
- Envelopes, Machine for forming, printing and assembling. E. Conti. 1,625,350; Apr. 19.
- Envelopes, Machine for making one-piece window. G. W. Swift, jr. 1,639,010; Aug. 16.
- Envelopes, Making. J. G. Swab. 1,618,787; Feb. 22.
- Envelopes, Manufacture of. T. Hugo. 1,648,763; Nov. 8.
- Eraser cleaner. L. E. Joslin. 1,641,000; Aug. 30.
- Eraser cleaner, Blackboard. L. H. Ward. 1,619,899; Mar. 8.
- Eraser holder. J. P. Kennedy. 1,617,449; Feb. 15.
- Eraser-holding device and the like. J. E. Johnson. 1,636,822; July 26.
- Eraser. Ins. G. Schrade. 1,634,120; June 28.
- Erasers within holder members, Mounting. A. Bienenstein. 1,648,256; Nov. 8.
- Ergot preparation, Manufacture of. G. Erdmann. 1,645,096; Oct. 11.
- Escutcheons. S. Gade. 1,649,895; Nov. 22.
- Escutcheon plate for a vernier dial. J. Geloso. Des. 73,170; Aug. 2.
- Ester condensation products, Making. R. M. Carter. Des. 16,591; Apr. 12.
- Ester finish remover. C. Ellis. 1,618,867; Feb. 22.
- Ester mixtures, Production of new. W. Claasen. 1,643,619; Sept. 27.
- Ester of butyl alcohol. R. H. Van Schaack, jr. 1,613,366; Jan. 4.
- Ester-resin composition and preparation. J. G. E. Wright and W. J. Bartlett. 1,634,969; July 5.
- Esters from aldehydes, Making. C. O. Young. 1,630,593; May 31.
- Esters, Making. H. E. Buc. 1,651,666; Dec. 6.
- Etching apparatus. J. Baker. 1,643,234; Sept. 20.
- Etching machine. F. T. Powers. 1,651,966; Dec. 6.
- Etching machines, Stamp-inking device for. F. T. May. 1,647,646; Nov. 1.
- Etching of rubber, Principally for the obtention of impression plates, Chemical process for the. E. Sardon. 1,614,936; Jan. 18.
- Ether, Preservation of. F. W. Nitardy. 1,632,309; June 14.
- Ethyl chloride, Production of. H. Suida. 1,637,972; Aug. 2.
- Ethylene glycol monoalkyl ethers, Making. J. G. Davidson. 1,614,883; Jan. 18.
- Evacuated device and method of exhaust. R. E. Myers. 1,648,958; Nov. 15.
- Evaporable device. W. E. Gotham. 1,640,272; Aug. 28.
- Evaporating apparatus. W. L. Badger. 1,612,961; Aug. 26.
- Evaporating tank. C. E. Chandler. 1,613,310; Jan. 4.
- Evaporation meter. R. L. Gilles. 1,625,310; Apr. 19.
- Evaporation, Prevention of. R. E. Wilson. 1,647,424; Nov. 1.
- Evaporator. C. W. Aiken. 1,621,862; Mar. 22.
- Evaporator. I. Merlis. 1,622,018; Mar. 29.
- Evaporator. I. Merlis. 1,638,697; Aug. 19.
- Evaporator. J. Price. 1,617,081; Feb. 8.
- Evaporator, Bent-tube. R. C. Jones. 1,617,119; Feb. 8.
- Evaporator, Film-type sectional. J. Price. 1,617,082; Feb. 8.
- Evaporator, Sap. S. C. Nichols. 1,614,016; Jan. 11.
- Evaporator system, Low-heat-level. L. E. Sebald. 1,623,941; Apr. 5.
- Evaporators, Submerged drain cooler in. R. C. Jones. 1,652,204; Dec. 13.
- Evening and grading machine. M. T. Denne. 1,651,588; Dec. 6.
- Examining tubes and cavities in the body, Device for. G. Loock. 1,643,718; Sept. 27.
- Examining tubes and cavities in the body, Device for. G. Wolf. 1,643,732; Sept. 27.
- Excavating. O. E. Strehlow. 1,644,288; Oct. 4.
- Excavating apparatus. W. A. Whitmire. 1,626,019; Apr. 26.
- Excavating apparatus, Hydraulic. F. L. Ward. 1,653,027; Dec. 20.
- Excavating devices, Guide for. H. L. Bolton. 1,652,556; Dec. 13.
- Excavating dippers and the like, Door for. J. O'F. 1,613,620; Dec. 27.
- Excavating machine. T. L. Loftus. 1,619,875; Mar. 8.
- Excavating machine. F. C. Marshall. 1,623,194; Apr. 5.
- Excavating machine. B. Rolph. 1,625,912; Apr. 26.
- Excavating machinery, Dipper for. W. M. Bager, W. Lehman and F. C. Ruckhoff. 1,642,183; Sept. 13.
- Excavating machines, Dipper-operating mechanism for. P. A. Orton. 1,622,239; Mar. 22.
- Excavating machines, Longitudinally-extensible boom for. G. A. Vaughn. 1,630,231; May 24.
- Excavator and dredge, Combined. E. A. Speegle. 1,643,644; Sept. 20.
- Excavator-bucket extension. G. T. Rosselle. 1,648,783; Nov. 8.
- Excavator bucket with digging teeth, Endless-chain. C. Rorabeck. 1,638,089; Aug. 9.
- Excavator dippers, Mechanism for operating said controlling. G. T. Ronk. 1,627,869; May 10.

- Excavator, Ground. M. De Grassi. 1,639,215; Aug. 16.
Exchange system, Automatic. F. M. Slough. 1,617,869; Feb. 15.
Exerciser. T. S. Benice. 1,625,447; Apr. 19.
Exerciser. H. Q. Guth. 1,638,196; Aug. 9.
Exerciser, Athletic spring. A. C. Schad. 1,618,538; Jan. 4.
Exerciser, Body. J. F. Davidson. 1,618,273; Feb. 22.
Exerciser, Muscle. A. Giraldi. 1,623,869; Apr. 5.
Exercising apparatus. J. Benniger. 1,650,417; Nov. 22.
Exercising apparatus. L. Frankenfeld. 1,623,670-1; Aug. 9.
Exercising apparatus. N. E. Goodrich. 1,647,616; Nov. 1.
Exercising apparatus. R. H. Noe. 1,633,124; Jan. 21.
Exercising apparatus. G. A. Reynolds. 1,641,355; Sept. 6.
Exercising apparatus. G. V. Rosi. 1,618,847; Feb. 22.
Exercising apparatus, Physical. "A. Holland. 1,646,818; Oct. 25.
Exercising device. F. S. Buckminster. 1,629,676; May 24.
Exercising device. H. E. Minnich. 1,620,910; Mar. 15.
Exercising eye muscles, Apparatus for. J. M. Powell. 1,628,058; Aug. 9.
Exhaust and like silencer. W. H. Martin. 1,641,394; Sept. 6.
Exhaust box. W. De Back. 1,638,760; Aug. 9.
Exhaust box. B. S. Gallagher. 1,649,896; Nov. 22.
Exhaust cut-out. E. R. Draver. 1,623,580; Apr. 5.
Exhaust for drying cylinders and such like, Condensation. O. T. Srylan. 1,629,595; May 24.
Exhaust gas heater. C. Forth. 1,633,853; June 28.
Exhaust muffler. W. F. Bouché and E. J. Blake. 1,632,328; June 14.
Exhaust muffler. V. E. Clark. 1,638,087; Aug. 9.
Exhaust muffler. A. G. Wendling. 1,622,692; Mar. 29.
Exhaust silencer. J. Ernst. 1,646,283; Oct. 18.
Exhaust tip, Annular. R. C. Hyde. 1,649,698; Nov. 15.
Exhausting machine. W. Koning. 1,628,410; May 10.
Exhibition apparatus. F. Pollard. 1,646,706; Oct. 25.
Exhibitor. S. Flowers. 1,652,663; Dec. 13.
Exhibitor. H. V. Van Nuyss. 1,638,464; Aug. 9.
Exhibitor, Changeable. G. B. Pennabaker. 1,619,088; Mar. 1.
Exhibitor, Changeable. G. R. Price. 1,619,155; Mar. 1.
Expanding air, Utilizing. J. W. Doyle. 1,630,835; May 31.
Expanding mill. G. J. Thust. 1,644,552; Oct. 4.
Expanding tool. M. T. Peterson. 1,614,827; Jan. 18.
Expanding tool. A. A. Roesch. 1,621,835; Mar. 15.
Expandible bracelet. J. Smith, Jr. 1,629,976; May 24.
Expandible collapsible element. H. C. Mallory. 1,624,348; Apr. 12.
Expandible collapsible element. H. C. Mallory. 1,639,742; Aug. 23.
Expandible collapsible elements, Making. H. C. Mallory. 1,615,591; Jan. 25.
Expandible collapsible elements, Producing. H. C. Mallory. 1,647,185; Nov. 1.
Expandible fastening. J. A. Dedouch. 1,619,568-9; Mar. 1.
Expansion-contraction joint, Deformable. A. C. Fisher. 1,622,311; Mar. 29.
Expansion joint. A. C. Fischer. 1,639,764; Aug. 23.
Expansion joint. J. P. McDonald. 1,625,557; Apr. 19.
Expansion joint, Hinged. A. C. Fischer. 1,637,178; July 26.
Expansion shields, Setting tool for. R. E. Ogden. 1,636,831; July 26.
Explosion engine. C. F. G. Kjellberg. 1,614,736; Jan. 18.
Explosion engine. A. Schaff. 1,653,877; Dec. 27.
Explosive. H. H. Champney. 1,650,186; Nov. 22.
Explosive. A. Segay. 1,620,696; Mar. 15.
Explosive, Ammonium-nitrate. W. O. Snelling. 1,617,182; Feb. 8.
Explosive, Ammonium-nitrate. E. M. Symmes. 1,613,335; Jan. 4.
Explosive and percussion caps, Manufacturing detonating compositions for. E. von Henck. 1,625,966; Apr. 26.
Explosive blow-out switch. J. P. Medlin. 1,654,467; Dec. 27.
Explosive, Brisant. B. J. Flürschheim. 1,624,401; Apr. 12.
Explosive cap. W. Eschbach. 1,623,864; Apr. 5.
Explosive cartridges, Dipping container for. W. H. Marshall, R. J. Killgore, and L. E. Bedortha. 1,630,496; May 31.
Explosive composition. F. H. Bergheim. 1,620,715; Mar. 15.
Explosive engine. H. Ford. 1,639,333; Aug. 16.
Explosive engine. M. M. Kane. 1,633,856; Dec. 27.
Explosive, Nitroglucoside. R. C. Moran. 1,630,577-8; May 31.
Explosive powder and making same. A. S. O'Neill. 1,627,863; May 10.
Explosive powder and making same, Smokeless. F. I. and E. du Pont. 1,627,691-93; May 10.
Explosive powder, Making smokeless. F. I. and E. du Pont. 1,627,698; May 10.
Explosive powder, Smokeless. F. I. and E. du Pont. 1,627,694; May 10.
Explosives, Apparatus for filling containers with. C. G. Young. 1,633,656; June 28.
Explosives, Container for. J. B. Spotswood and H. M. Gulick. 1,625,631; Apr. 19.
Explosives, Producing. F. H. Bergheim. 1,637,726; Aug. 2.
Exposure meter. G. Ramsey. 1,651,151; Nov. 29.
Expressing apparatus. A. W. French. 1,648,477; Nov. 8.
Extensible fender. G. Lohli. 1,632,979; June 21.
Extension table. J. H. Dold. 1,652,772; Dec. 13.
Extension table. E. A. Henriksen. 1,647,224; Nov. 1.
Extension table. R. Krüger. 1,639,510; Aug. 16.
Extension table. P. Nyholm. 1,633,899; June 28.
Extension table. A. Rassnick. 1,621,083; Mar. 15.
Extension table. W. P. Sauer. 1,622,544; Mar. 29.
Extension table, Revolving-leaf. P. Nyholm. 1,633,900; July 26.
Extension unit. W. G. Reeves. 1,621,275; Mar. 15.
Eliminating injurious forms of life and composition therefor. H. Maxwell-Lefroy. 1,613,402; Jan. 4.
Exterminator. E. J. Seaver. 1,637,246; July 28.
Exterminator, Boll-weevil. B. F. Gomez. 1,637,254; July 28.
Extinguisher, Cigarette. R. E. Burress. 1,637,172; July 26.
Extinguisher, Pail. O. R. Erwin. 1,640,117; Aug. 23.
Extinguishing firs, Device for. L. R. Titcomb and H. S. Ashmun. 1,644,290; Oct. 4.
Extracting and cleaning machine, Cotton. J. E. Mitchell. 1,640,220; Aug. 30.
Extracting fats. H. V. Atwell. 1,648,102; Nov. 8.
Extraction by pressure, Apparatus for continuous. P. Navarre. 1,620,567; Mar. 8.
Extraction method and apparatus. H. Buel. 1,636,550; July 19.
Extraction process and apparatus. W. F. Holzheuer. Re16,739; Sept. 20.
Extractor; See—
Breaker and stopper ex- Fruit-juice extractor.
tractor. Juice extractor.
Boll extractor. Overdriven extractor.
Brushing extractor. Sineu extractor.
Centrifugal extractor. Tack and nail extractor.
Dump-bottom extractor. Valve-core extractor.
Electrically-driven extractor. Valve-pin extractor.
Fishhook extractor. Weed and root extractor.
Extractor. H. J. Parker. 1,641,780; Sept. 6.
Extractor control. E. J. Carroll. 1,634,452; July 5.
Extractor-operating plant, Centrifugal. N. R. Andrews and J. J. Neuman. 1,615,433; Jan. 25.
Extruder. W. G. Bond. 1,650,687; Nov. 29.
Extruding machine. P. E. Welton. 1,652,189; Dec. 13.
Extrusion machine. O. H. Rehard. 1,614,256; Jan. 11.
Extrusion press. A. Born. 1,654,109; Dec. 27.
Eye, Artificial. R. Greiner. 1,633,986; June 28.
Eyebrow pencils and the like, Container for. A. H. Bosworth. 1,637,545; Aug. 2.
Eyecup, Expandible. H. F. Shindel. 1,627,578; May 10.
Eyeglass case, Making. I. Fox. 1,647,117; Oct. 25.
Eyeglass. M. Mayer, K. Finckh, and F. Koref. 1,633,946; June 28.
Eyeglass and spectacle frame. E. R. Durgin. 1,630,258; May 31.
Eyeglass-case holding and protecting device. D. W. Perry. 1,633,417; June 21.
Eyeglass construction. S. J. Chule. 1,641,156; Sept. 6.
Eyeglass construction. G. E. Nerney. 1,613,765; Jan. 11.
Eyeglass construction. G. E. Nerney. 1,614,848; Jan. 18.
Eyeglass construction. G. E. Nerney. 1,635,138; July 5.
Eyeglass construction. E. D. Nerney. 1,635,799; July 12.
Eyeglass construction. G. E. Nerney. 1,645,658; Oct. 18.
Eyeglass construction. W. H. Siddall. 1,635,142; July 5.
Eyeglass frame. L. Dunksberg. Des. 73,900; Nov. 22.
Eyeglass frame. J. Gaspari. Des. 73,077; July 19.
Eyeglass frame. G. E. Nerney. Des. 73,097; July 19.
Eyeglass frame. G. E. Nerney. Des. 73,142; July 26.
Eyeglass mountings, Metallic temple for. W. S. Searles. 1,647,152; Nov. 1.
Eyeglasses. L. R. Briggs. 1,647,124; Nov. 1.
Eyeglasses or spectacles. J. T. Evans. 1,619,659; Mar. 1.
Eyelid. E. L. Sibley. 1,615,048; Jan. 18.
Eye model. L. R. Ingersoll. 1,630,944; May 31.
Eye mounting. B. Lapkin. 1,644,735; Oct. 11.
Eye mounting for dolls. L. J. Grubman. Re16,536; Jan. 18.
Eyepiece-prism combination for use in range finders of the self-contained base type. J. M. Strang. 1,634,695; July 5.
Eye-protective glass. W. W. Coblenz. 1,637,439; Aug. 2.
Eye protector. E. Hentsch. 1,638,851; Aug. 16.
Eye protector. L. and E. Scherz. 1,627,121; May 3.
Eye set. A. Konoff. 1,619,824; Mar. 15.
Eye set. A. Konoff. 1,621,072; Mar. 15.
Eye shade. A. L. Mallory. 1,630,193; May 24.
Eyeshade for auto drivers. O. and L. Westgaard. 1,653,139; Dec. 20.
Eye shield. C. F. Thompson. 1,637,092; July 26.
Eye shield and face protector. E. E. Kintz. 1,635,328; July 12.
Eye tape, Stitchless. D. Silberman. 1,632,805; June 21.
Eye-testing apparatus. T. T. Arneson. 1,622,215; Mar. 22.
Eye-testing apparatus. W. P. Reaves. 1,650,768; Nov. 29.
Eye-testing cabinet. E. D. Tillyer. 1,630,281; May 31.
Eye-testing device. E. J. Brown. 1,633,658; June 28.

- Fabric: See—
 Bed-spring fabric.
 Cellulose fabric.
 Cord-tire fabric.
 Filled woven fabric.
 Knit fabric.
 Knitted fabric.
 Ornamental fabric.
 Fabric. C. B. Hayes. 1,645,858; Oct. 18.
 Fabric. F. L. Kunkel. 1,636,640; July 19.
 Fabric. H. J. Moore. 1,622,250; Mar. 22.
 Fabric and making same. Finished. J. Bennett. 1,638,160; June 21.
 Fabric covered strip material and making the same. A. E. Falor. 1,628,832; May 17.
 Fabric-cutting machine. H. A. Denmire. 1,617,013; Feb. 8.
 Fabric-cutting machine. O. I. Judelson. 1,640,833; Aug. 30.
 Fabric. Decorating. J. Knollema. 1,618,832; Feb. 22.
 Fabric-feeding apparatus. F. Tandel. 1,615,415; Jan. 25.
 Fabric. Flocked voile. K. G. Currier and J. Heinrich. Des. 71,957-8; Feb. 8.
 Fabric-folding machine. J. and P. Cook. 1,653,149; Feb. 20.
 Fabric for corsets, bandeaux, brassieres, and the like. Making. E. R. Mills and C. J. Hazelton. 1,617,604; Feb. 15.
 Fabric for garment construction. Reinforced. E. M. Orlow. 1,631,601; June 7.
 Fabric-forming machine, Tubular. J. E. Fefel. 1,644,116; Oct. 4.
 Fabric-inspection apparatus. H. Cruger. 1,615,216; Jan. 25.
 Fabric. Manufacture of colored mesh. R. H. Berkley. 1,618,375; Jan. 4.
 Fabric-measuring machine. Retail and wholesale. J. J. Wheeler. E. A. Reed and G. C. Hosch. 1,628,091; May 10.
 Fabric. Method of and apparatus for making composite. P. H. Walsh. 1,620,307; Mar. 8.
 Fabric of nonflaccid strands. Apparatus for producing. B. Riley. 1,647,811; Nov. 1.
 Fabric on the bias. Machine for cutting. H. A. Denmire. 1,617,012; Feb. 8.
 Fabric or similar article. Printed. H. R. Terhune. Des. 72,076; Feb. 22.
 Fabric or similar article. Woven. L. Bluhm. Des. 73,688-9; Oct. 18.
 Fabric or the like. Apparatus for coating and drying. R. J. Jones. 1,632,760; June 14.
 Fabric. Painted. J. H. Mack. Des. 72,378; Apr. 5.
 Fabric. Preparing rubber-coated. C. Macbeth and W. J. Dexter. 1,617,340; Feb. 15.
 Fabric. Printed. W. H. Adams. Des. 72,539; May 3.
 Fabric. Removing shine and gloss from worn. R. G. Adams. 1,650,412; Nov. 22.
 Fabric. Repairing torn. G. Gallopia. 1,620,884; Mar. 15.
 Fabric-roll holder. G. Graham and A. C. Helmus. 1,626,080; Apr. 26.
 Fabric-shearing mechanism. A. C. Mason. 1,649,172; Nov. 15.
 Fabric-slitting machine. A. C. Mason. 1,647,837; Nov. 1.
 Fabric-spreading apparatus. F. Hinnekens. 1,642,496; Sept. 13.
 Fabric steaming and stretching means. M. M. Kasanof. 1,648,614; Nov. 8.
 Fabric stretcher. A. N. Miller. 1,653,919; Dec. 27.
 Fabric-testing machine. C. L. Dennis. 1,632,501; June 14.
 Fabric treatment. J. R. Hogate and L. E. Spence. 1,622,444; Mar. 29.
 Fabric-trimming apparatus. Z. Podbradsky. 1,635,343; July 12.
 Fabric-weaving machine. J. E. Fefel. 1,629,952; May 24.
 Fabric-weaving machine. J. E. Fefel. 1,634,413; July 5.
 Fabric with patterns printed thereon. J. R. Freeman. 1,616,080; Feb. 1.
 Fabricated articles. Machine for assembling parts or elements of. W. I. Martin. 1,639,700; Aug. 23.
 Fabricated board. C. W. Utzman. 1,638,280; Aug. 9.
 Fabricating agglomerated masses. Apparatus for. R. Bowen. 1,646,385; Oct. 25.
 Fabricating structural members. M. A. Baker. 1,619,282; Mar. 1.
 Fabric and the like. Washing and cleaning. H. Spindler. 1,615,146; Jan. 18.
 Fabrics and to the fabric and composition. Finishing. W. Witte. 1,633,152; June 21.
 Fabrics. Apparatus for producing knotted-pile. F. H. Oldroyd. 1,635,632; July 12.
 Fabrics. Construction for suspending. I. V. Laggren. 1,654,422; Dec. 27.
 Fabrics. Discharging transfer process for. J. J. Kaufmann. 1,617,123; Feb. 8.
 Fabrics. Fastener for. H. Menges. 1,634,622; July 5.
 Fabrics into lengths or portions and otherwise subsequently treating same. Cutting. W. Coombes. 1,652,095; Dec. 6.
 Fabrics into lengths or portions. Cutting. W. Coombes. 1,652,093; Dec. 6.
 Fabrics. Loom for weaving pile. A. W. Spink and D. Crabtree. 1,624,993; Apr. 19.
 Fabrics. Making compound. E. R. Dexter. 1,650,266; Nov. 22.
 Fabrics. Making selvaged-edged. W. C. Fisher. 1,639,224; Aug. 16.
 Fabrics. Method of and apparatus for feeding. H. I. Huey. 1,645,501; Oct. 11.
 Fabrics. Method of and apparatus for passing threads into. R. Rossmann. 1,645,257; Oct. 11.
 Fabrics. Paper, and other materials. Treatment of. R. H. Chatham. 1,640,596; Aug. 30.
 Fabrics. Treating. S. M. Cadwell and O. H. Smith. 1,651,751; Dec. 6.
 Face lifter. S. Corroft. 1,612,801; Jan. 4.
 Face shield. Sanitary. P. H. McKay. 1,648,315; Nov. 8.
 Facet cutting machine. W. Augenstein. 1,646,375; Oct. 18.
 Facial composition. M. Buccel. 1,634,974; July 5.
 Facial lifting and supporting device. O. J. Rogers. 1,643,090; Sept. 20.
 Facial wrinkle-removing device. H. A. Skinner. 1,629,460; May 17.
 Facing blocks. Support and backing for terra cotta or other. F. C. Davis. 1,642,842; Sept. 20.
 Fan. C. L. Christensen. 1,636,286; July 19.
 Fan. J. E. Hosch. 1,649,161; Nov. 15.
 Fan. J. C. Hosch. 1,642,205; Sept. 13.
 Fan. H. Marul. 1,630,397; May 31.
 Fan. F. J. McMurdie. 1,652,285; Dec. 13.
 Fan. A. Pajalic. 1,634,554; July 5.
 Fan. S. E. Kial. 1,641,904; Sept. 6.
 Fan. D. Rodgers. 1,635,768; July 12.
 Fan. G. H. Schleter. 1,633,957; June 28.
 Fan. P. R. and G. Vordermark. 1,638,379; Aug. 9.
 Fan. G. A. White. 1,637,319; July 26.
 Fan. Adjustable. C. Rosine. 1,621,603; Mar. 22.
 Fan and fan blower. E. Van Toff. 1,614,091; Jan. 11.
 Fan. Automatically-oscillating electric. J. F. Lister and H. W. Smallwood. 1,617,258; Feb. 8.
 Fan. Automobile. C. F. Ehinger. 1,635,315; July 12.
 Fan. Automobile. K. C. Fairman and F. N. Wagner. 1,638,358; July 19.
 Fan blade. K. L. Parker. 1,638,129; Aug. 9.
 Fan blade and center. S. A. Xippas. 1,623,373; Apr. 5.
 Fan bracket or support. O. K. Dyer. 1,614,190; Jan. 11.
 Fan. Centrifugal. W. B. Pedely. 1,643,317; Sept. 27.
 Fan. Concentrator-table. A. H. Stebbins. 1,620,242; Mar. 8.
 Fan. Electric. E. Goldfain and S. Fowler. 1,631,411; June 7.
 Fan. Electric. R. R. Turner and R. R. Turner, jr. 1,650,155; Nov. 22.
 Fan. Exhaust. C. H. Keeney. 1,627,608; May 10.
 Fan for cooling systems. Reversible. J. E. Stock. 1,650,776; Nov. 29.
 Fan. Hand. S. Minunno. 1,632,556; June 14.
 Fan. Hand. A. Rodriguez. 1,620,594; Mar. 8.
 Fan housing construction. C. E. Scott. 1,646,319; Oct. 18.
 Fan installation. S. Bolozky and S. Pearl. 1,636,038; July 19.
 Fan. Machine-operated portable. H. Gatti. 1,620,457; Mar. 8.
 Fan mechanism. Motor-vehicle. R. D. Ananson. 1,651,356; Dec. 6.
 Fan or blower. W. H. C. Ness. 1,637,652; Aug. 2.
 Fan or blower. Exhaust. R. D. Ananson. 1,623,650; Apr. 5.
 Fan-oscillating mechanism. J. F. Galvin and W. B. Kochner. 1,638,027; Aug. 9.
 Fan support. S. K. Bilbo. 1,633,514; June 21.
 Fan. Swing-operated. J. W. E. Watkins. 1,623,607; Apr. 5.
 Fan. Ventilating. S. A. Xippas. Re16,656; June 24.
 Fan wheel. G. G. Currie. 1,620,875; Mar. 15.
 Fan wheels. Machine for making sheet-metal. W. A. Rowe. 1,648,060; Nov. 8.
 Fans and the like. Driving and revolving means for. J. Cairns. 1,615,567; Jan. 25.
 Fans. Apparatus for imparting an oscillating motion to rotating. J. N. Gilbert. 1,634,140; June 28.
 Fan. Perfumer for electric. A. Radecff. 1,632,245; June 14.
 Fare box. H. J. Baur. 1,634,441; July 5.
 Fare box. M. C. McElligott. 1,628,508; May 10.
 Fare-registering device. G. E. Schacht. 1,643,907; Sept. 27.
 Farm gate. A. B. Brackbill. 1,647,123; Nov. 1.
 Farm gate. F. M. Ross. 1,617,135; Feb. 8.
 Farm gate. J. C. Schulte. 1,620,786; Mar. 15.
 Farm implement. T. B. Kelly. 1,653,292; Dec. 20.
 Farming implement. J. B. Ramos. 1,633,905; June 28.
 Farrowing house. Folding. H. Knudsen. 1,635,942; July 12.
 Fastener. A. G. Anderson. 1,625,406; Apr. 19.
 Fastener. A. G. Anderson. 1,651,337; Nov. 29.
 Fastener. L. P. Armstrong. 1,641,835; Sept. 6.
 Fastener. F. S. Carr. 1,646,345; Oct. 18.
 Fastener. F. S. Carr. 1,647,771-8; Nov. 1.
 Fastener. F. S. Carr. 1,647,780-1; Nov. 1.
 Fastener. F. S. Carr. 1,653,508; Dec. 20.
 Fastener. M. F. Carr. 1,641,916-17; Sept. 6.
 Fastener. M. F. Carr. 1,643,981; Oct. 4.
 Fastener. M. F. Carr. 1,647,779; Nov. 1.
 Fastener. F. Degueulde and L. Demaret, nee Degueulde. 1,629,779; May 24.

- Fastener. E. Dresner. 1,620,611; Mar. 8.
 Fastener. D. Dyresen. 1,654,118; Dec. 27.
 Fastener. D. Dyresen. 1,654,510; Dec. 27.
 Fastener. H. T. Eastin. 1,642,105; Sept. 13.
 Fastener. R. E. Frey. 1,646,285; Oct. 18.
 Fastener. F. F. Hildebrandt. 1,650,715; Nov. 29.
 Fastener. A. S. Love. 1,638,488; Nov. 8.
 Fastener. S. Mackenzie. 1,617,818; Feb. 15.
 Fastener. G. M. McGinley. 1,652,575; Dec. 13.
 Fastener. E. Melberg. 1,636,824; July 26.
 Fastener. V. Owen. 1,644,541; Oct. 4.
 Fastener. W. H. Pierce. 1,641,901; Sept. 6.
 Fastener. G. E. Prentice. 1,651,545; Dec. 6.
 Fastener. W. H. Shearer. 1,623,891; Apr. 5.
 Fastener. A. G. Stanton. 1,637,502; Aug. 2.
 Fastener. N. P. Vanderlipp. 1,642,278; Sept. 13.
 Fastener. J. M. van Heusen. 1,638,078; Aug. 9.
 Fastener. H. A. Widmer. 1,642,558; Sept. 13.
 Fastener. F. Wolf. 1,653,966; June 25.
 Fastener and construction equipped therewith, Separable.
 D. Bourque. 1,650,486; Nov. 22.
 Fastener and hanger, Paper. B. Kumagai. 1,648,408;
 Nov. 8.
 Fastener-affixing machine, Automatic. J. G. Swab.
 1,615,195; Jan. 18.
 Fastener, Bag-frame. W. C. Hierung and E. J. Walter.
 1,625,605; Apr. 19.
 Fastener, Basket-cover. C. J. Dudley and M. H. Holm-
 wood. 1,651,381; Dec. 6.
 Fastener, Belt. E. F. Gingras. 1,653,624; Dec. 27.
 Fastener, Belt. A. Goldscholl. 1,648,395; Nov. 5.
 Fastener, Car-door. J. L. Eber. 1,646,748; Oct. 25.
 Fastener, Casement. L. Wensel. 1,652,548; Dec. 13.
 Fastener, Casement-sash. J. S. Van Bergen. 1,653,523;
 Dec. 20.
 Fastener, Chain. V. A. Bean. 1,648,104; Nov. 8.
 Fastener, Closure. M. J. Valsvig. 1,653,870; Aug. 23.
 Fastener, Clothesline. W. J. Knitter. 1,650,364;
 Nov. 22.
 Fastener, Combined tongue and shoe-lace. A. D. Winn.
 1,619,322; Mar. 1.
 Fastener, Door. E. L. Hill and W. J. Webber. 1,654,256;
 Dec. 27.
 Fastener, Door. C. F. Kline. 1,654,221; Dec. 27.
 Fastener, Door. W. R. Schlage. 1,653,512; Dec. 20.
 Fastener, Door. L. E. Whitney. 1,652,080; Dec. 6.
 Fastener, Door. G. P. Wild. 1,637,168; July 26.
 Fastener, Double-pin stud. L. B. Chapman. 1,649,767;
 Nov. 15.
 Fastener, Double-pointed-pin. G. Boden. 1,649,766;
 Nov. 15.
 Fastener elements, Machine for making multiple. J. E.
 Perrault. 1,649,854; Nov. 22.
 Fastener, Escutcheon-plate. W. R. Schlage. 1,653,513;
 Dec. 20.
 Fastener for containers. W. T. S. Brown. 1,624,825;
 Apr. 12.
 Fastener, Grain-car-door. W. P. Flynn. 1,653,453;
 Dec. 20.
 Fastener, Hood. R. I. Graf. 1,652,275; Dec. 13.
 Fastener-inserting machine. A. J. Horne. 1,648,945;
 Nov. 15.
 Fastener, Joint. L. M. Bush. 1,651,375; Nov. 29.
 Fastener, Key. W. A. Stubbs. 1,638,392; July 19.
 Fastener, Metal-sheet. W. H. Deasy. 1,650,194;
 Nov. 22.
 Fastener, Mold. F. J. Gremel. 1,641,927; Sept. 6.
 Fastener or jamb nail, Metallic. G. Olson. 1,621,213;
 Mar. 15.
 Fastener or pin, Garment. R. C. Morris. 1,618,384;
 Feb. 22.
 Fastener, Paper. V. Alver. 1,650,002; Nov. 22.
 Fastener, Paper. S. R. Brown. 1,653,543; Dec. 20.
 Fastener, Paper. D. M. Diggs. 1,640,398; Aug. 30.
 Fastener, Pin-hinge snap. J. H. Goss. 1,649,768;
 Nov. 15.
 Fastener, Pin-stud. P. E. Fenton. 1,647,962; Nov. 1.
 Fastener, Sash. J. F. Flannery. 1,652,856; Dec. 13.
 Fastener, Sash-cord. C. J. Stimpson. 1,654,274;
 Dec. 27.
 Fastener, Separable. D. M. Burmister. 1,638,321;
 Aug. 9.
 Fastener, Separable. F. S. Carr. 1,647,770; Nov. 1.
 Fastener, Separable. F. S. Carr. 1,647,782-3; Nov. 1.
 Fastener, Separable. M. F. Carr. 1,651,340; Nov. 29.
 Fastener, Separable. J. Draher and A. J. Krieger.
 1,615,113; Jan. 18.
 Fastener, Separable. G. H. Elwell. 1,652,140; Dec. 6.
 Fastener, Separable. A. Light. 1,613,665; Jan. 11.
 Fastener, Separable. G. E. Prentice and R. C. Legat.
 1,626,873; May 3.
 Fastener-setting machine. J. K. Diamond. 1,623,783;
 Apr. 5.
 Fastener-setting mechanism. A. R. Havener. 1,632,374;
 June 14.
 Fastener, Slip-cover. G. R. Middleton. 1,619,265; Mar. 1.
 Fastener, Snap. A. Assorati. 1,643,938; Oct. 4.
 Fastener, Snap. G. H. Elwell. 1,652,139; Dec. 6.
 Fastener, Springless. A. Rubin. 1,621,087; Mar. 15.
 Fastener strings, Making. G. Sundback. 1,653,320;
 Dec. 20.
 Fastener strip or fly for garments. L. Rosenman.
 1,623,361; Apr. 5.
 Fastener to bind loose sheets of paper. R. Wellenmann.
 1,647,490; Nov. 1.
 Fastener, Tool handle. P. E. Rowe. 1,635,961; July 12.
 Fastener, Window. E. M. Brown. 1,636,352; July 19.
 Fastener, Window. A. G. Cameron. 1,654,361; Dec. 27.
 Fasteners, Applying. J. H. Reed. 1,625,957; Apr. 26.
 Fasteners, Machine for forming. T. Sibley. 1,626,977;
 May 3.
 Fasteners, Machine for making divergent. V. Ragona.
 1,639,895; Aug. 23.
 Fasteners, Method and machine for inserting. A. E.
 Hudson. 1,615,276; Jan. 25.
 Fasteners, Setting members of separable. J. Draher and
 A. J. Krieger. 1,642,411; Sept. 13.
 Fastener apparatus, Metal-container sealing-closure. F.
 C. Thornton. 1,640,583; Aug. 30.
 Fastening clamp. A. R. Baker. 1,646,636; Oct. 25.
 Fastening covers, Device for. G. Lake. 1,634,019;
 July 5.
 Fastening device. C. R. Bumbarger. 1,648,673; Nov. 8.
 Fastening device. O. J. Craig. 1,620,874; Mar. 15.
 Fastening device. G. H. Ennis. 1,638,763; Aug. 9.
 Fastening device. M. H. Hartzell. 1,615,693; Jan. 25.
 Fastening device. V. L. Harvey. 1,633,859; June 28.
 Fastening device. C. C. Jensen. 1,625,612; Apr. 19.
 Fastening device. C. B. Kohn. 1,626,138; Apr. 26.
 Fastening device. W. Malar. 1,629,113; May 17.
 Fastening device. L. F. Phillips. 1,650,649; Nov. 29.
 Fastening device. C. N. Ramstad. 1,620,391; Mar. 8.
 Fastening device. D. I. Reiter. 1,616,660; June 21.
 Fastening device. D. I. Reiter. 1,619,764; Mar. 1.
 Fastening device. W. Schroder. 1,624,766; Apr. 12.
 Fastening device. R. E. Smith, R. J. Arnold, and J. C.
 Gay. 1,625,962; Apr. 26.
 Fastening device. B. A. Sterling. 1,612,992; Jan. 4.
 Fastening device. R. Wittenberg. 1,639,392; Aug. 16.
 Fastening device. A. Zeindhofer, sr. 1,623,610; Apr. 5.
 Fastening device, Material-. C. Betz. 1,639,072; Aug. 16.
 Fastening device, Name-plate-. R. D. Hyatt. 1,649,473;
 Nov. 15.
 Fastening device, Portable. J. Menchen. 1,627,709;
 May 10.
 Fastening device, Suction. E. O. Lundblad. 1,652,488;
 Dec. 13.
 Fastening for push and pull handles, Concealed. J. Ku-
 belka. 1,652,010; Dec. 6.
 Fastening for water-closet-seat sections. W. R. Wood.
 1,653,421; Dec. 20.
 Fastening inseam, Metallic. C. C. Blake. 1,628,599;
 May 10.
 Fastening-inserting machine. E. B. Barber. 1,649,503;
 Nov. 15.
 Fastening-inserting machine. J. W. Cosgrove. 1,642,014;
 Sept. 13.
 Fastening-inserting machine. G. Goddu. 1,642,729;
 Sept. 20.
 Fastening-inserting machine. G. Goddu. 1,653,006;
 Apr. 12.
 Fastening-inserting machine. T. H. Seely. 1,623,279;
 Apr. 5.
 Fastening-inserting machines. W. T. B. Roberts.
 1,651,469; Dec. 6.
 Fastening-inserting machines, Economizer for. D. Mac-
 Arthur. 1,643,389; Sept. 27.
 Fastening-inserting mechanism. G. Goddu and F. L.
 Mackenzie. 1,620,200; Mar. 8.
 Fastening-inserting mechanism. F. L. Mackenzie and
 G. Goddu. 1,653,640; Dec. 27.
 Fastening means. M. B. Behrman. 1,619,803; Mar. 8.
 Fastening means. C. Hardy. 1,612,918; Jan. 4.
 Fastening means. M. Kosofsky. 1,616,190; Feb. 1.
 Fastening means. E. R. Teits. 1,648,155; Nov. 8.
 Fastening mechanism. W. E. H. Bell. 1,643,365;
 Sept. 27.
 Fastenings, Machine for inserting. L. Holden. 1,625,363;
 Apr. 19.
 Fat composition, Edible. H. E. Dubin. 1,624,164;
 Apr. 12.
 Fats, Extracting. H. V. Atwell. 1,648,670; Nov. 8.
 Fats, From seedles, Extracting. A. Beil and W. A.
 Meyer. 1,636,351; July 19.
 Fats or oils into fatty acids and glycerine, Decomposing.
 A. S. Richardson and C. V. Conley. 1,622,974; Mar. 29.
 Faucet. W. F. Albrecht. 1,635,875; July 12.
 Faucet. C. T. Anderson. 1,650,589; Nov. 29.
 Faucet. W. H. Brooker. 1,654,237; Dec. 27.
 Faucet. A. C. Brown. 1,640,527; Aug. 30.
 Faucet. J. W. Burnett. 1,639,326; Aug. 16.
 Faucet. J. Clinton. 1,642,101; Sept. 13.
 Faucet. G. W. Cooke. 1,640,692; Aug. 30.
 Faucet. W. G. Estep. 1,653,997; Dec. 27.
 Faucet. F. J. Herman. 1,635,123; July 5.
 Faucet. J. Mackay. 1,653,339; Dec. 27.
 Faucet. B. L. Mallory. 1,634,672; July 5.
 Faucet. B. H. McDuffie. 1,615,713; Jan. 25.
 Faucet. H. H. Meyer and E. C. Rehorst. 1,614,079;
 Jan. 11.
 Faucet. J. C. Ross. 1,616,826; Feb. 8.
 Faucet. L. Ruegg. 1,632,418; June 14.
 Faucet. F. Tible. 1,638,002; Aug. 9.
 Faucet. W. Van Eweyk. 1,625,505; Apr. 19.
 Faucet. C. N. Wagenseller. 1,625,404; Apr. 19.
 Faucet attachment. F. Joseph and I. P. Creamer.
 1,623,248; Apr. 5.
 Faucet bulb connection. C. E. Morris. 1,628,733;
 May 17.

- Faucet, Combination hot and cold water. E. H. Carder 1,646,575; Oct. 25.
- Faucet, Compression. E. M. Alfonso. 1,610,781; Mar. 1.
- Faucet, Compression. W. G. Stewart. 1,628,689; May 17.
- Faucet, Dispensing. G. N. Hein, F. L. Platt, and R. R. Impey. 1,636,817; July 26.
- Faucet, Dispensing. W. E. Leibing. 1,640,945; Aug. 30.
- Faucet, Dispensing. W. E. Patnaude. 1,613,548; June 7.
- Faucet, Dispensing. W. A. Schatz. 1,651,731; Dec. 6.
- Faucet, Float-controlled. A. B. Cravath. 1,639,556; Aug. 16.
- Faucet, Fluid-heating. K. Tramp. 1,637,205; July 26.
- Faucet, Laundry-tub. R. H. Mueller. 1,647,190; Nov. 1.
- Faucet, Liquid-dispensing. T. E. Davis. 1,641,534; Sept. 6.
- Faucet, Measuring. W. A. Schatz. 1,648,593; Nov. 8.
- Faucet, Mixing. W. A. England. 1,630,695; May 31.
- Faucet or valve. R. A. Card. 1,634,771; July 5.
- Faucet, Pedal-actuated. G. O. Dougherty. 1,627,020; July 3.
- Faucet, Receptacle-actuated. C. W. Hathaway. 1,637,221; July 26.
- Faucet, Safety. C. J. Gordon and D. D. Goldberg. 1,633,581; June 28.
- Faucets, Attaching means for combination. R. C. Zannoth. 1,639,446; Aug. 16.
- Faucets, Flow regulator for. O. W. Vallier. 1,625,921; Apr. 26.
- Faucets or the like, Indicating means for. F. Pilkington. 1,642,264; Sept. 13.
- Faucets, Shut-off for sink. O. W. Vallier. 1,612,844; Jan. 4.
- Favor, M. L. and M. M. Horner. 1,631,205; June 7.
- Feather-lined material and making same. F. Wever. 1,619,493; Mar. 1.
- Feed-bag holder. M. C. Lowden. 1,628,051; May 10.
- Feed box. N. O. Nilsson. 1,638,270; Aug. 9.
- Feed collet. E. E. Minard. 1,646,925; Oct. 25.
- Feed collet. J. H. Sheffer. 1,646,771; Oct. 25.
- Feed compound, Stock-. A. B. Schreiber. 1,638,963; Aug. 16.
- Feed control, System of. H. H. Payzant. 1,627,925; May 10.
- Feed device, Semiautomatic. C. L. Low. 1,615,590; Jan. 25.
- Feed grinder. J. Koch. 1,632,341; June 14.
- Feed jointers, Return feeder for continuous-. A. G. Stuedeman. 1,615,557; Jan. 25.
- Feed lubrication from compressor blade. J. R. McCallum. 1,616,913; Feb. 8.
- Feed, Manufacture of livestock. C. R. Mabey. 1,615,024; Jan. 13.
- Feed means, Safety. W. Doellner. 1,627,491; May 3.
- Feed mechanism, Flat-. L. E. La Bombard and M. H. Sidebotham. 1,634,072; June 28.
- Feed mechanism, Ratchet. G. E. Cassel. 1,615,534; Jan. 25.
- Feed mechanism, Stitcher. M. Christensen. 1,614,716; Jan. 18.
- Feed mechanisms, Electric-motor control for. R. D. Given. 1,648,680; Nov. 8.
- Feed mixer, Wet. G. F. Hinkley. 1,635,321; July 12.
- Feed, Producing animal. A. B. Schreiber. 1,638,964; Aug. 16.
- Feed regulator. G. G. Merchen. 1,621,022; Mar. 15.
- Feed roller. F. E. Bruce. 1,652,756; Dec. 13.
- Feed, Stock. L. K. Braren. 1,630,406; July 19.
- Feed stuff, Producing. C. S. Miner and G. Steerup. 1,627,921; May 10.
- Feed table. A. Olson. 1,626,352; Apr. 26.
- Feed tank. R. Warriner. 1,638,607; Aug. 9.
- Feed water, Delivering preheated. J. Stumpf. 1,616,239; Feb. 1.
- Feed-water heater. E. E. Merckle. 1,652,037; Dec. 6.
- Feed-water heater. S. A. Moss. 1,628,471; May 10.
- Feed water, Heating boiler. G. H. Gibson. 1,641,138; Aug. 30.
- Feed-water regulator. J. M. Barrett. 1,650,108; Nov. 22.
- Feeder. E. W. Boyer. 1,617,988; Feb. 15.
- Feeder. J. J. Nevills. 1,624,175; Apr. 12.
- Feeder. B. E. Stone. 1,630,982; May 31.
- Feeder, Adjustable. H. Spelcher. 1,638,058; July 19.
- Feeder and exerciser, Poultry. H. J. Pauley. 1,620,686; Mar. 15.
- Feeder and waterer for poultry, Combined. W. H. Robison. 1,614,394; Jan. 11.
- Feeder, Automatic. L. K. Aldrich. 1,631,181; June 7.
- Feeder, Automatic. C. E. Bennett. 1,629,334; May 17.
- Feeder, Automatic. N. A. Harmon. 1,616,868; Feb. 1.
- Feeder, Automatic. F. Herkenrath. 1,651,026; Nov. 29.
- Feeder bushings, Changing glass. J. M. Lents. 1,642,881; Sept. 20.
- Feeder, Chick. W. A. McCollough. 1,617,339; Feb. 15.
- Feeder, Chicken. W. D. Poterbusch. 1,651,462; June 7.
- Feeder, Chicken. C. Kassy. 1,625,840; Apr. 5.
- Feeder, Chicken. F. Patterson. 1,649,250; Nov. 15.
- Feeder, Chicken. R. O. Schroeder and G. Forslund. 1,637,132; July 26.
- Feeder, Extension. H. C. Wallace. 1,638,075; Aug. 9.
- Feeder for domestic animals. Time. W. F. Went. 1,619,172; Mar. 1.
- Feeder for warped articles. I. E. La Bombard and M. H. Sidebotham. 1,651,135; Nov. 29.
- Feeder, Glass. L. D. Soubier. 1,631,230; June 7.
- Feeder, Hg. W. Dannenberg. 1,642,944; Sept. 20.
- Feeder, Knockdown self-. J. E. Anderson. 1,653,976; Dec. 27.
- Feeder of mill waste fuel for domestic heating plants, Automatic. I. T. Woodruff. 1,618,501; Feb. 22.
- Feeder, Poultry. F. W. Lord. 1,632,738; June 14.
- Feeder, Poultry. B. Seimann. 1,650,995; Nov. 29.
- Feeder, Poultry. E. Williams. 1,631,778; June 7.
- Feeder, Rotary. R. J. Waterworth. 1,630,552; May 31.
- Feeders, Distribution system for selective connections thereto of. N. Togami. 1,634,601; July 5.
- Feeding and applying machinery, Can-cover. G. W. Mudd. 1,648,003; Nov. 8.
- Feeder for controlling material, Device for. W. Ross. 1,651,633; Dec. 6.
- Feeding and cutting machine, Label. B. B. Guenther. 1,621,666; Mar. 22.
- Feeding and cutting machines, Driving mechanism for web. H. M. Barber. 1,650,928; Nov. 29.
- Feeding and cutting mechanism. C. B. Maxson. 1,613,182; Jan. 4.
- Feeding and metering fuel and the like, System and apparatus for. T. A. Banning, Jr. 1,652,514; Dec. 13.
- Feeding and mixing machine connected in gangs-. S. Snyder. 1,625,917; Apr. 26.
- Feeding and packing pulverulent material, Machine for. F. X. Marsh. 1,618,459; Feb. 22.
- Feeding apparatus. F. C. Morrow. 1,652,250; Dec. 13.
- Feeding apparatus for pulverized material. E. H. Hamilton and L. W. Kirk. 1,640,770; Aug. 30.
- Feeding device. S. W. Avis. 1,646,571; Oct. 25.
- Feeding device. E. B. Berkowitz. 1,640,280; Oct. 18.
- Feeding device. F. X. Malocsay. 1,627,792; May 10.
- Feeding device. F. X. Malocsay. 1,653,648; Dec. 27.
- Feeding device. J. W. Richter. 1,632,852; June 21.
- Feeding device, Automatic. E. J. and H. T. Kingsbury. 1,624,872; Apr. 12.
- Feeding device, Compression. F. Micka. 1,614,378; Jan. 11.
- Feeding device for roll stationery. H. H. Konerman and A. E. Imbus. 1,620,666; Mar. 15.
- Feeding device, Poultry-. C. E. Cloward, Jr. 1,630,831; May 31.
- Feeding device, Poultry-. E. P. Steinback. 1,629,979; Jan. 11.
- Feeding device, Wire-. R. Knable. 1,616,453; Feb. 8.
- Feeding machine. S. Madsen. 1,622,836; Mar. 29.
- Feeding machine. F. X. Malocsay. 1,653,641; Dec. 27.
- Feeding machine. C. L. Post. 1,623,976; Apr. 12.
- Feeding machine. W. E. Taylor and Z. Hoffman. 1,645,555; Oct. 18.
- Feeding machine, Dry-material. E. E. Harper. 1,616,070; Feb. 8.
- Feeding means, Material-. H. L. Merrick. 1,641,448; Sept. 6.
- Feeding mechanism. R. H. Cramer. 1,645,418; Oct. 11.
- Feeding mechanism. E. G. Gartin. 1,621,662; Mar. 22.
- Feeding mechanism. W. F. Lynch. 1,652,032; Dec. 6.
- Feeding mechanism. L. E. Maxson. 1,614,038; Jan. 11.
- Feeding mechanism. C. E. McKinsey. 1,648,493; Nov. 8.
- Feeding mechanism. E. L. Mueller. 1,637,833; Aug. 2.
- Feeding mechanism. F. J. Ruby. 1,615,137; Jan. 18.
- Feeding mechanism, Automatic. F. X. Malocsay. 1,627,793; May 10.
- Feeding mechanism, Automatic cattle-. H. Halvarsson. 1,622,443; Mar. 29.
- Feeding-mechanism deflector. L. C. Steele. 1,643,686; Sept. 27.
- Feeds, Apparatus for producing livestock. C. R. Mabey. 1,641,340; Sept. 6.
- Feeder mechanism. T. H. McGowan, sr. 1,651,144; Nov. 29.
- Feet, Apparatus for treating the. L. J. Karpf. 1,648,949; Nov. 15.
- Felling machine. M. D. Brody. 1,622,414; Mar. 29.
- Felt batt. H. M. Scott. 1,647,022; Oct. 25.
- Felt fabric. T. S. McDermott. 1,629,223; May 24.
- Felt making, Mercuryless hair-secreting process for. C. and E. Pichard. 1,622,883; Mar. 29.
- Felted fabric and the manufacture thereof. E. A. Perogo. 1,631,692; June 7.
- Fence. A. H. Ball. 1,637,136; July 26.
- Fence. W. M. Holtz. 1,632,231; June 14.
- Fence. J. Ward. 1,633,619; June 28.
- Fence attachment, Poultry-. H. S. Small. 1,638,966; Aug. 16.
- Fence construction. H. G. Thomson. 1,643,277; Sept. 20.
- Fence construction. H. G. Thomson. 1,650,245; Nov. 22.
- Fence fastening device. H. G. Thomson. 1,651,942; June 14.
- Fence for highways, Protector. C. Edwards. 1,625,716; Apr. 19.
- Fence guard. G. Loiz. 1,630,441; May 31.
- Fence guard, Wire-. J. W. Morris. 1,644,846; Oct. 11.
- Fence knob. C. Pinocch. Des. 74,071; Dec. 13.
- Fence machine. J. M. Dennin. 1,625,244; Apr. 19.
- Fence-making machine. J. A. Cocker. 1,638,528; Aug. 9.
- Fence panel, Portable. J. W. Hudnall. 1,646,293; Oct. 18.
- Fence, Portable. D. D. Brinkerhoff. 1,613,340; Jan. 4.
- Fence, Portable. J. Wensell. 1,646,739; Feb. 22.
- Fence post. C. E. Christensen. 1,636,126; July 19.
- Fencepost. C. Colvin. 1,634,739; July 5.
- Fencepost. P. J. Hindmarsh. 1,629,663; May 24.

- Fencepost. A. S. Hook. 1,639,698; Aug. 16.
 Fencepost. C. K. Jackson. 1,631,820; June 7.
 Fencepost. H. C. Jones. 1,637,645; Aug. 2.
 Fencepost. J. W. Meaker and W. P. Gleason. 1,639,195; Aug. 16.
 Fence post. T. F. McKeon. 1,649,909; Nov. 22.
 Fencepost. U. Myer. 1,626,862; May 3.
 Fencepost. H. L. Thomas. 1,643,100; Sept. 20.
 Fencepost. B. W. Touchstone. 1,646,000; Oct. 18.
 Fencepost. R. Walton. 1,617,883; Feb. 15.
 Fencepost and bracing means therefor. A. W. Andrews. 1,628,645; May 17.
 Fencepost and mounting. E. J. Pague and G. W. Jake-way. 1,613,357; Jan. 4.
 Fenceposts. Sade construction for. J. W. Meaker. 1,649,174; Nov. 15.
 Fence. Snow. J. H. Gardels. 1,612,972; Jan. 4.
 Fence standard. G. D. Watson. 1,648,085; Nov. 8.
 Fence stay. J. O. Herrod. 1,647,913; Nov. 1.
 Fence structure. J. Paltan. 1,653,808; Dec. 20.
 Fence-tightening post. N. P. Howard. 1,635,416; July 12.
 Fence. Wire. A. M. Haught. 1,617,249; Feb. 8.
 Fencing construction. C. K. Jackson. 1,623,873; Apr. 5.
 Fender: See—
 Auto fender.
 Automobile fender.
 Automobile safety fender.
 Fender and brake. Vehicle. B. Icre. 1,642,879; Sept. 20.
 Fender and luggage carrier. Combined. H. G. Reymouth. 1,619,451; Mar. 1.
 Fender brace. H. J. Cocks. 1,624,860; Apr. 12.
 Fender guard. R. Bageol. 1,637,770; Aug. 2.
 Fender guard. Automobile. F. A. Wernig. 1,651,079; Nov. 29.
 Fender rack. W. N. Vance. 1,620,841; Mar. 15.
 Fermentation apparatus. G. E. Thomas. 1,638,618; June 28.
 Fermentation tube. P. Caecia. 1,614,184; Jan. 11.
 Fermenting and storing organic manure foodstuffs and the like. Plant for. P. Krantz. 1,643,018; Sept. 20.
 Ferments, yeasts, microbes, and the like. Apparatus for the industrial culture of. C. Vigreux. 1,623,896; Apr. 5.
 Fern stand. F. L. Lewis. Des. 71,803; Jan. 4.
 Fern stand or article of similar nature. S. A. Flowers. Des. 72,313; Mar. 29.
 Fernery stand. C. Kowalski. Des. 72,319; Mar. 29.
 Ferric oxide. Manufacture of. D. G. Zalocostas. 1,630,881; May 31.
 Ferric sulphate. Manufacture of. B. Hart. 1,644,250; Oct. 4.
 Ferrocyanides from crude calcium cyanides. Producing. J. M. Rugh. 1,650,390; Nov. 22.
 Ferrophosphorus. Making. E. V. Rawn. 1,613,125; Jan. 4.
 Ferrophosphorous. Manufacture of. J. Warner. 1,646,268; Dec. 18.
 Ferrous sulphate in solution. Oxidizing. A. Elliott. 1,636,296; July 19.
 Ferrules. Process of and machine for making. G. M. Stevenson. 1,629,813; May 24.
 Fertilizer. E. Dedolph. 1,621,875; Mar. 22.
 Fertilizer-distributing machine. A. W. Koch. 1,623,546; May 10.
 Fertilizer distributor. G. L. Bilbrey. 1,620,320; Mar. 8.
 Fertilizer distributor. W. E. Bruce. 1,624,210; Apr. 12.
 Fertilizer distributor. H. R. Clark. 1,632,540; June 14.
 Fertilizer distributor. G. H. McVire. 1,627,798; May 10.
 Fertilizer distributor. F. A. Nridner. 1,648,658; Nov. 8.
 Fertilizer distributor. C. T. Ray. 1,613,411; Jan. 4.
 Fertilizer distributor. L. E. Roby. 1,619,795; Mar. 1.
 Fertilizer distributor. J. L. Woodward. 1,617,228; Feb. 8.
 Fertilizer distributors. Attachment for. E. M. Cole. 1,649,955; May 10.
 Fertilizer in soluble condition. Distributing. G. C. C. Schrader. 1,630,768; May 31.
 Fertilizer materials. G. Barsky and F. W. Freise. 1,614,943; Jan. 18.
 Fertilizer or straw spreader. W. E. Bruce. 1,628,871; Apr. 17.
 Fertilizer. Producing. A. G. Stillwell. 1,622,684; Mar. 29.
 Fertilizer. Producing phosphate. U. Wedge. 1,624,195; Apr. 12.
 Fertilizer product and producing the same. New. G. Barsky. 1,651,263; Dec. 6.
 Fertilizer production. Obtaining a culture mixture for. C. A. Baumgarten-Crusius. 1,626,579; Apr. 26.
 Fertilizers having urea as their base. Manufacture of alkali-nitrogen. J. Breslawer. 1,618,266; Feb. 22.
 Fertilizers. Machine for sowing. W. A. Van Brunt. 1,650,808; Nov. 29.
 Fertilizers. Manufacture of. C. Bosch. 1,639,585; Aug. 16.
 Fertilizers. Manufacture of. G. Claude. 1,621,311; Mar. 15.
 Fertilizers. Manufacture of nitrogenous. E. H. Richards and H. B. Hutchinson. 1,619,679; Mar. 1.
 Fertilizing plants and fertilizer composition. M. O. Johnson. 1,614,305; Jan. 11.
 Festooning rack. W. D. Eakin. 1,624,223; Apr. 12.
 Festooning rack. J. R. Gammeter. 1,616,363; Feb. 1.
 Fiber and producing same. Retted bagasse. E. C. Lathrop and T. B. Munroe. 1,633,594; June 28.
 Fiber-bearing materials. Apparatus for treating. N. K. Davis. 1,624,717; Apr. 12.
 Fiber board. Manufacture of. R. W. Hilton. 1,624,599; Apr. 12.
 Fiber-board package. A. J. Redemski. 1,647,581; Nov. 1.
 Fiber bunches by the web process. Loosening parallel. A. Kämpf and K. Grünewälder. 1,627,037; May 3.
 Fiber composition. Machine for making. W. G. O'Brien. 1,645,068; Oct. 11.
 Fiber conditioner. R. B. Smith and T. R. Lovern. 1,618,893; Feb. 22.
 Fiber. Method and apparatus for treating. A. F. Richter and F. A. Augsburg. 1,653,416; Dec. 20.
 Fiber packing. C. Restel. 1,625,095; Apr. 19.
 Fiber. Process of and apparatus for treating. G. A. Richter. 1,632,802; June 21.
 Fiber. Sizing and finishing articles of. F. M. Kern. 1,637,487; Aug. 2.
 Fiber tubes. Machine for making. O. B. Brown and H. Parker. 1,635,458; July 12.
 Fibers and fabrics of a protein nature. Dyeing of animal. S. W. Wilkinson. 1,628,484; May 10.
 Fibers for spinning purposes. Treating. L. Ubbelohde. 1,629,241; May 17.
 Fibers. Measuring the strength of. E. E. Chandler. 1,643,535; Sept. 27.
 Fibers. Weighing. O. Berg and M. Imboff. 1,634,012; June 28.
 Fibrous article and producing such article. F. S. Koch endorser. 1,646,825; Oct. 25.
 Fibrous articles. Manufacture of nonplaniform. M. Koppelman. 1,618,289; Feb. 22.
 Fibrous articles. Method and apparatus for producing. H. G. Walker and A. T. March. 1,615,424; Jan. 25.
 Fibrous articles. Method of and apparatus for making. J. S. Little. 1,615,392; Jan. 25.
 Fibrous composition and articles produced therefrom. Making. E. F. Germain. 1,623,588; Apr. 5.
 Fibrous composition. Apparatus for and method of making articles from. P. Beebe. 1,623,933; Apr. 5.
 Fibrous material and making the same. C. Hering. 1,636,511; July 19.
 Fibrous material and producing the same. Fire-resistant. A. Winogradoff. 1,645,172; Oct. 11.
 Fibrous material. From fluids. Separating. F. C. Atwood. 1,614,337; Jan. 11.
 Fibrous material in aligned condition. Method and apparatus for supplying. E. Anderson. 1,636,977; July 26.
 Fibrous material. Machine for and method of applying varnish to sheets of. L. T. Frederick. 1,624,094; Apr. 12.
 Fibrous material. Process and apparatus for digesting or cooking. F. K. Fish. Jr. 1,633,734; June 28.
 Fibrous materials. Composition for impregnating. W. Tom. 1,634,002; June 28.
 Fibrous materials. Concentrating. S. H. Dolbear and V. Zacher. 1,624,163; Apr. 12.
 Fibrous materials. Machine for drafting. M. A. Roth. 1,644,747; Oct. 11.
 Fibrous materials. Method and apparatus for treating. T. L. Dunbar. 1,646,084; Oct. 18.
 Fibrous materials. Method and apparatus for treating. J. D. Tompkins. 1,626,766; May 3.
 Fibrous materials. To render them fire resistant. Liquid mixture for use in treating combustible. A. Winogradoff. 1,645,173; Oct. 11.
 Fibrous matters. Boiling. N. K. F. Hanson. 1,634,143; June 28.
 Fibrous pulp. Apparatus for the manufacture of hollow bodies from. R. Lechthaler. 1,626,847; May 3.
 Fibrous vegetable material. Treating. R. Forsyth. 1,646,087; Oct. 18.
 Fibrous waste from machines. Elimination of. E. Gminder. 1,637,340; Aug. 2.
 Field winding. L. M. Perkins. 1,630,757; May 31.
 Field. W. E. Skinner. 1,618,892; Feb. 22.
 Fifth wheel. G. F. Honold. 1,613,828; Jan. 11.
 Figs. Method of and apparatus for canning. A. T. Gahan. 1,635,471; July 12.
 Figure of animated objects. K. Hergershausen. 1,626,533; Apr. 26.
 Fire wheel. Adjustable. W. G. Orth. 1,615,399; Jan. 25.
 Filament-dyeing apparatus. S. A. Neidich. 1,627,059; May 3.
 Filaments and films formed from viscose. Dyeing. W. Mendel. 1,633,220; June 21.
 Filaments and films from viscose. Manufacture of. W. Mendel. 1,614,431; Jan. 11.
 Filaments. Machine and method of mounting. J. J. Higgins. 1,647,624; Nov. 1.
 Filaments. Making hollow crystal tungsten. R. Jacoby. 1,648,690; Nov. 8.
 Filaments. Method of and apparatus for forming. D. K. Wright. 1,615,666; Jan. 25.
 File. A. Bushnell. 1,634,450; July 5.
 File. W. R. King. 1,631,212; June 7.
 File. M. E. Nordan. 1,631,882; June 7.
 File. J. S. Small. 1,623,980; Apr. 12.
 File. J. S. Small. 1,647,548; Nov. 1.
 File. N. Walker. 1,615,487; Jan. 25.
 File. R. N. Walker. 1,648,082; Nov. 8.
 File. H. B. Womack. 1,616,403; Feb. 1.
 File. binder, and the like. G. E. Doughty and H. Forth. 1,636,408; July 19.

- File clip. W. J. Miletta. 1,644,198; Oct. 4.
File container for loose-leaf sheets. J. Schade. 1,622,003; Mar. 22.
File-folding machine, Vertical. R. H. Burgess. 1,650,424; Nov. 22.
File for receiving loose sheets, magazines, and the like. O. J. C. Rills. 1,614,991; Jan. 18.
File holder. M. G. Riggs. 1,615,604; Feb. 22.
File holder, Drawing. A. H. Memmler. 1,652,370; Dec. 13.
File jacket. J. K. Cassell. 1,624,776; Apr. 12.
File, Paper. E. C. Burdick. 1,635,310; July 12.
File pocket, Vertical. E. F. Ahlquist. 1,622,753; Mar. 29.
Filing and indexing apparatus. I. Beckett. 1,626,861; Mar. 3.
Filing and indexing equipment. C. E. Attwood. 1,626,442; Apr. 26.
Filing and indexing equipment. J. T. Quigley. 1,616,508; Feb. 8.
Filing and indexing equipment. J. T. Quigley. 1,637,534; Oct. 25.
Filing and posting system. C. N. Jackson. 1,628,320; May 10.
Filing card. W. M. Hind. 1,652,716; Dec. 13.
Filing cards and the like, Device for. J. T. Quigley. 1,631,983; June 14.
Filing case. A. B. Andersson. 1,621,304; Mar. 15.
Filing device. J. M. Hurley. 1,644,676; Oct. 11.
Filing device. R. J. Keays and E. I. Coffey. 1,646,696; Oct. 25.
Filing device. H. S. Neiman. 1,615,997; Feb. 1.
Filing device. E. L. Ouchie. 1,635,859; July 12.
Filing device. R. C. Seyl. 1,614,445; Jan. 11.
Filing device. R. M. Smith. 1,626,883-4; May 3.
Filing device. R. M. Smith. 1,626,886; May 3.
Filing device. R. M. Smith. 1,626,979; May 3.
Filing device, Visible. C. V. Olson. 1,644,790; Oct. 11.
Filing drawers, Follower block for. L. H. Dodge. 1,638,987; Aug. 16.
Filing letters and the like, Device for. H. von der Marwitz. 1,618,842; Feb. 22.
Filing machine or jig saw. B. A. Yarrington. 1,636,729; July 26.
Filing systems, Guide card for vertical. T. J. Amberg. 1,616,943; Feb. 8.
Files, Apparatus for reclaiming and sharpening. J. T. Cordrey. 1,648,112; Nov. 8.
Files, Making. E. Coenen. 1,645,895; Oct. 18.
Fill box. F. F. Rike. 1,654,095; Dec. 27.
Filled gummed cloth and making the same. C. H. Crowell. 1,634,710; July 5.
Filler cap. F. E. Malone. 1,622,659; Mar. 29.
Filler construction. M. Weber. 1,616,243; Feb. 1.
Filler for the panels of animal pens. C. O. Leshner. 1,620,976; Mar. 15.
Filler openings, Closure for. J. A. Jensen. 1,654,501; Dec. 27.
Filler openings, Closure for. A. W. Oswald. 1,631,106; May 31.
Filler with rubber, Mixing a soluble. C. H. Campbell. 1,640,818; Aug. 30.
Filling machine. J. J. Barry. 1,647,170; Nov. 1.
Filling and packing machine. E. Jagenberg. 1,624,664; Apr. 12.
Filling and weighing machine. W. L. Taylor. 1,648,077; Nov. 8.
Filling cap, Self-closing safety. J. A. Shoup. 1,628,519; May 10.
Filling compound, Tooth-canal. W. S. Fisher. 1,641,844; Sept. 6.
Filling device. O. Pratt. 1,626,050; Apr. 26.
Filling-end clearer. W. M. Tyson. 1,628,565; May 10.
Filling-end clearer. W. M. Tyson. 1,643,727; Sept. 27.
Filling-end controller. J. T. Kirk. 1,651,091; Nov. 29.
Filling machine. K. Kiefer. 1,635,754; July 12.
Filling machine. H. Melum and G. P. Berger. 1,630,960; May 31.
Filling machine. L. D. Nelson. 1,628,177; May 10.
Filling machine. L. D. Nelson. 1,628,267-8; May 10.
Filling machine. D. S. Paterson and G. B. Petsche. 1,624,846; Apr. 12.
Filling machine, Bag. A. Wertenbruch. 1,616,016; Feb. 1.
Filling machines, Attachment for. H. M. Crumbaugh and H. M. Wilson, sr. 1,640,482; Aug. 30.
Filling machines, Sliding attachment for. L. E. Parker. 1,647,745; Nov. 1.
Filling station, Self-operating. L. P. Starkey. 1,650,832; Nov. 29.
Filling-station valve and key. A. Knittel. 1,629,797; May 24.
Filling unit. C. H. Ehlers. 1,614,780; Jan. 18.
Film. Antistatic photographic. J. Marett. 1,635,681; July 12.
Film cartridge, Roll. K. C. D. Hickman. 1,638,577; Aug. 9.
Film cut-out. H. E. Butler. 1,620,518; Mar. 8.
Film cut-out. H. E. Butler. 1,635,029; July 12.
Film-developing holder. E. B. Mahoe. 1,629,285; May 17.
Film feed, Intermittent. A. F. Victor. 1,625,065; Apr. 19.
Film-feeding apparatus. F. J. Kincade. 1,631,137; June 7.
Film-forming machines, Feed device for. E. M. Kratz. 1,649,960; Nov. 22.
Film holder. Cut. W. F. Folmer. 1,631,479; June 7.
Film holder. Cut. W. F. Folmer. 1,641,420; Sept. 6.
Filmlike bands from cellulose solutions and similar initial materials, Production of. E. Czapke and R. Weingand. 1,641,322; Sept. 6.
Film mount. L. B. Groeschel. 1,617,304; Feb. 8.
Film or plate pack, Photographic. M. Romanowicz and J. Romanowicz. 1,641,867; Sept. 6.
Film-pack construction. A. A. Rutan. 1,638,552; Aug. 9.
Film pack. Cut. C. Boniforti. 1,613,379; Jan. 4.
Film-printing machine and method. R. John. 1,654,291; Dec. 27.
Film-process and apparatus for treating. C. de Moos. 1,623,528; Apr. 5.
Film projector. P. D. Brewster. 1,624,156; Apr. 12.
Film reel. A. C. Hayden. 1,649,470; Nov. 15.
Film-reel guard. A. S. Howell. 1,618,590; Feb. 22.
Film, Reinforced moving-picture. C. H. Meeker. 1,636,525; July 19.
Film-reinder, Automatic. D. L. Matheson. 1,653,964; Dec. 27.
Film rewinders, Automatic switch for. J. A. Hudson. 1,635,478; July 12.
Film-shifting machine. J. De Haes. 1,628,580; May 10.
Film spool. H. A. De Vry. Re 16,762; Oct. 4.
Film spool. H. A. De Vry. 1,620,605; Mar. 8.
Film sprocket guide. A. S. Howell. 1,624,731; Apr. 12.
Film take-up device with brake. F. E. Garbutt. 1,629,029; May 17.
Film-tensioning mechanism, Automatic. F. E. Garbutt. 1,636,954; July 26.
Film-tensioning mechanism having individual spools, Automatic. F. E. Garbutt. 1,629,034; May 17.
Film-type evaporator, Vertical. L. E. Sebald. 1,631,162; June 7.
Film which includes a layer of polymerized vinyl chloride, Laminated. R. L. Stinchfield. 1,627,935; May 10.
Films, Construction of the electrical conductivity of. T. T. Ulrey. 1,616,010; Feb. 1.
Films in projection apparatus, Driving gear for. W. Reichmann. 1,621,334; Mar. 15.
Films in spaced coil forms, Holding. L. Czako. 1,624,586; Apr. 12.
Films, Method of and apparatus for treating continuous. J. Shaw and J. W. Berwick. 1,615,047; Jan. 13.
Films or the like, Process and device for the development, fixing, washing, etc., of photographic or cinematographic. N. A. Unger. 1,621,291; Mar. 15.
Films, Producing colored photograph. L. F. Douglas. 1,632,278; June 14.
Films, Projection of cinematograph. G. B. Bowell. 1,642,599; Sept. 13.
Films, Supporting and driving. O. Steiner. 1,614,214; Jan. 11.
Filter. S. S. Amdursky. 1,630,287; May 31.
Filter. J. Astrom. 1,651,797; Dec. 6.
Filter. D. F. Pesler. 1,630,480; May 31.
Filter. O. E. Giese. 1,622,960; June 21.
Filter. H. L. Guy and T. Blacklock. 1,619,118; Mar. 1.
Filter. V. R. Heffler. 1,641,485; Sept. 6.
Filter. F. D. Herbert. 1,646,404; Oct. 25.
Filter. J. Hermann and M. Stauber. 1,649,405; Nov. 15.
Filter. M. Herschkowitch and P. Prausnitz. 1,620,815; Mar. 15.
Filter. W. Kogstrom. 1,633,818; June 28.
Filter. J. M. Lohit. 1,640,198; Aug. 23.
Filter. C. W. McKinley. 1,651,400; Dec. 6.
Filter. J. F. Nelson. 1,619,584; Mar. 1.
Filter. A. Neumann. 1,647,808; Nov. 1.
Filter. E. Robertson. 1,629,085; May 17.
Filter. T. F. Seitz and G. H. Seitz, jr. 1,650,543; Nov. 22.
Filter. C. P. Shinn. 1,617,504; Feb. 15.
Filter. S. L. Smith. 1,629,418; May 17.
Filter. J. E. Spalding and R. L. Archer. 1,630,079; May 24.
Filter. E. de Stubner. 1,620,083; Mar. 8.
Filter. G. J. Wiegand. 1,625,442; Apr. 19.
Filter. J. N. S. Williams. 1,642,864; Sept. 20.
Filter aid and making same. H. S. Thatcher. 1,632,458; June 14.
Filter, Air. F. K. Ewing and S. R. Cummings. 1,628,397; Mar. 10.
Filter, Air. O. V. Greene. 1,639,132; Aug. 16.
Filter and cooler, Combined oil. F. C. Hawkins. 1,613,889; Jan. 11.
Filter cakes from filter mediums, Removing. A. L. Genter and J. A. McCaskill. 1,649,581; Nov. 25.
Filter cloth. J. E. Hooper. 1,617,597; Feb. 15.
Filter, Continuous. A. C. Daman. 1,650,434; Nov. 22.
Filter, Continuous battery oil. H. A. Hills. 1,638,201; Aug. 9.
Filter, Edge. E. A. Forsberg. 1,640,698; Aug. 30.
Filter, Electrical wave. E. Dietze. 1,636,737; July 26.
Filter, Electrical wave. G. C. Reider. 1,636,713; July 26.
Filter element. O. V. Greene. 1,639,133; Aug. 16.
Filter, Floating. A. Neumann. 1,647,809; Nov. 1.
Filter, Fluid. B. H. Lundborg. 1,648,773; Nov. 8.
Filter, Gasoline. W. Fell. 1,639,170; Aug. 16.
Filter, Gasoline. W. C. Glover. 1,624,832; Apr. 12.
Filter glass. Frank. 1,615,448; Jan. 25.
Filter, Liquid. F. O. Catron. 1,636,285; July 19.
Filter, Milk. R. A. Manning. 1,627,795; May 10.
Filter, Oil. H. C. Bohmsack. 1,624,528; Apr. 12.

- Filter, Oil. W. G. Burhans. 1,632,461; July 14.
 Filter, Oil. E. Kaepf. 1,631,594; June 7.
 Filter oil. C. B. Janke. 1,644,728; Oct. 11.
 Filter, Oil. R. A. Walker. 1,630,504; May 31.
 Filter press. A. M. Capra. 1,621,767; Mar. 22.
 Filter press. M. Korff. 1,650,138; Nov. 22.
 Filter, Rotary vacuum. W. Mauss. 1,612,873; Jan. 4.
 Filter unit, Renewable. E. J. Sweetland and G. H. Greenhalgh. 1,646,877-8; Oct. 18.
 Filter, Water. V. B. Hoag. 1,629,269; May 17.
 Filter, Water. C. Hungerford. 1,634,783; July 5.
 Filter, Water. M. C. Meyers. 1,645,712; Oct. 18.
 Filter, Water. R. A. North. 1,630,274; May 31.
 Filter, Water. L. E. Rajohn and R. W. Hollenberg. 1,621,684; Mar. 22.
 Filter, Water. O. E. Schulz. 1,653,473; Dec. 20.
 Filter, Wave. K. S. Johnson and T. E. Shea. 1,624,665; Apr. 12.
 Filtering apparatus. W. E. Belke. 1,652,423; Dec. 13.
 Filtering apparatus. B. Bramwell. 1,620,431; Mar. 8.
 Filtering apparatus. L. Ewald. 1,639,933; Aug. 23.
 Filtering apparatus. J. D. Lalor. 1,652,173; Dec. 13.
 Filtering Apparatus for. W. H. Furness. 1,643,299; Sept. 27.
 Filtering apparatus, Rotary-drum. L. Hertenbein. 1,636,739; July 26.
 Filtering device. J. James. 1,621,413; Mar. 15.
 Filtering device. W. B. Pumphrey. 1,633,604; June 28.
 Filtering element. J. J. Naugle. 1,633,709; June 28.
 Filtering material and making the same. H. Blumenberg, Jr. 1,649,386; Nov. 15.
 Filtering material and preparation thereof. H. A. Hills. 1,621,726; Mar. 22.
 Filtering medium and making same. R. N. Riddle. 1,643,031; Sept. 20.
 Filtering medium, Making a. R. N. Riddle. 1,643,032; Sept. 20.
 Filtering tank. L. Cobb. 1,615,071; Jan. 18.
 Filters of large surface, Cleaning sand. A. Sivade. 1,617,654; Feb. 15.
 Filtration. H. W. Blaisdell. 1,614,947; Jan. 18.
 Filtration, Apparatus for. N. C. Christensen. 1,641,736; Sept. 6.
 Filtration system. H. W. Blaisdell. 1,630,371; May 31.
 Finder. W. E. Nickerson. 1,650,376; Nov. 22.
 Finder, Adjustable. A. F. Newlands and E. Fosbery. 1,646,868; Oct. 25.
 Fine-tooth comb, Sanitary. K. Nagai. 1,643,512; Sept. 27.
 Finger attachment. M. Dovidaitis. 1,640,490; Aug. 30.
 Finger-nail trimmer. R. K. Rex. 1,629,967; May 24.
 Fingerprint device. R. W. Ferris. 1,618,528; Feb. 22.
 Fingerprints, Apparatus for taking. I. E. Hitt. 1,618,432; Feb. 22.
 Finger ring. J. Dinhofer. Des. 72,204; Mar. 15.
 Finger ring. S. Grossman. Des. 72,150; Mar. 8.
 Finger ring. S. Grossman. Des. 72,766; May 31.
 Finger ring. S. Grossman. Des. 72,795-6; June 7.
 Finger ring. M. Meier. Des. 72,907; June 21.
 Finger ring. A. Shiman. Des. 72,805-8; June 7.
 Finger ring. A. Shiman. Des. 73,547; Sept. 27.
 Finger ring. S. Skaletzky. Des. 72,287; Mar. 22.
 Finger ring. S. Skaletzky. Des. 72,781; May 31.
 Finger ring. B. Skaletzky. Des. 73,586-7; Oct. 4.
 Finger ring. M. E. Soman. Des. 73,107; July 19.
 Finger ring. B. T. Sommer. Des. 73,117; Mar. 1.
 Finger ring. L. Tomchin. Des. 73,880; Nov. 15.
 Finger ring. R. W. Wanson. Des. 74,043; Dec. 6.
 Finger-ring facings, Mount for. C. Fischer. 1,620,252; Mar. 8.
 Finger ring or article of similar nature. B. Gross. Des. 72,477; Apr. 19.
 Finger ring or article of similar nature. B. Gross. Des. 72,896; June 21.
 Finish remover. F. H. Lang. 1,615,089; Jan. 18.
 Finishing machine. C. A. Bliss. 1,648,040; Nov. 8.
 Finishing machine. H. D. Elliott. 1,615,446; Jan. 25.
 Finishing machine. G. Goddu. 1,645,556; Sept. 27.
 Finishing machine. L. S. Macdonald. 1,644,931; Oct. 11.
 Finishing machine. J. F. Standish. 1,636,333; July 19.
 Fire alarm. J. G. Tremain. 1,630,550; May 31.
 Fire alarm apparatus. C. B. Kootz. 1,628,347; May 10.
 Fire alarm, Automatic. C. C. Bettenhausen. 1,618,322; Feb. 22.
 Fire alarm, Portable. A. M. de S. Greaves. 1,624,866; Apr. 12.
 Fire-alarm signal, Automatic. F. H. Gruettner. 1,644,124; Oct. 4.
 Fire-alarm system. J. M. Johnson. 1,620,107; Mar. 8.
 Fire and burglar alarm system. J. H. Bruhn. 1,614,275; Jan. 11.
 Fire arch. O. A. Toftten. 1,639,117; Aug. 16.
 Fire-arch construction. J. L. Nicholson. 1,628,180; May 10.
 Firearm. K. J. and J. E. Glans. 1,639,892; June 21.
 Firearm. M. W. Howell. 1,615,385; Jan. 25.
 Firearm. C. C. Loomis. 1,628,548; May 10.
 Firearm. C. C. Loomis. 1,638,351; Aug. 9.
 Firearm. C. C. Loomis. 1,646,699; Oct. 25.
 Firearm. C. A. Nelson. 1,626,867; May 3.
 Firearm. C. A. Nelson. 1,628,798; May 17.
 Firearm. G. Nicholson. 1,630,404; May 31.
 Firearm and alloy for making same. F. A. Fahrenwald. Re16,556; Feb. 22.
 Firearm, Automatic. J. M. Browning. 1,618,510; Feb. 22.
 Firearm, Automatic. J. M. Browning. 1,628,226; May 10.
 Firearm, Automatic. V. Capolupo. 1,639,425; Aug. 16.
 Firearm, Automatic. G. Norman. 1,637,234-5; July 26.
 Firearm, Bolt-action. F. F. Burton. 1,631,242; June 7.
 Firearm sight. W. R. Parker. 1,653,934; Dec. 27.
 Firearm with recoiling barrel, Automatic. C. Soncini and V. Castell. 1,613,205; Jan. 4.
 Firearm, Breech-closing mechanism for automatic. G. Vincon. 1,648,833; Nov. 8.
 Firearms, Cartridge-feeding mechanism for automatic. J. M. Browning. 1,629,652; May 24.
 Firearms, Danger signal for. L. P. Smith. 1,624,876; Apr. 12.
 Firearms, Electric target practice apparatus for. E. H. Strong. 1,645,881; Oct. 18.
 Firearms, Feed strip for. C. Sutter. 1,620,408; Mar. 8.
 Firearms, Firing mechanism for automatic. J. M. Browning. 1,629,651; May 24.
 Firearms, Lead sight for. A. Storm. 1,625,060; Apr. 19.
 Firearms, Removably barrel mounting for automatic. C. Soncini. 1,639,277; Aug. 16.
 Firearms, Sight for. C. E. Bizard. 1,618,749; Feb. 22.
 Firearms, Sighting indicator for. J. W. F. Lamont and H. Dickinson. 1,624,847; Apr. 12.
 Firearms the residues deposited by lead bullets and smokeless and semosmokeless powder, Method of and compound for removing from the barrels of. W. Hoskins. 1,614,129; Jan. 11.
 Firearms, Trigger mechanism for. C. H. Barnes. 1,625,768; Apr. 19.
 Fire-arresting apparatus. R. S. Perry and A. W. Kar-nopp. 1,618,551; Feb. 22.
 Fire box. L. Bernhardt. 1,614,181; Jan. 11.
 Fire box. H. G. Trimble. 1,629,012; May 17.
 Fire-box arch. D. E. Moore. 1,641,048; Aug. 30.
 Fire-box arch block. L. S. Abbott. 1,624,198; Apr. 12.
 Fire-box arch, Sectional. L. S. Abbott. 1,624,199; Apr. 12.
 Fire-box arch tubes, Safety method of installing. C. G. Hawley. 1,648,307; Nov. 8.
 Fire-box inner casing. O. A. Toftten. 1,636,761; July 26.
 Fire-box kiln, Single. W. E. Wilson and H. G. Lykken. 1,627,720; May 10.
 Fire box, Water. P. McNulty. 1,617,817; Feb. 15.
 Fire boxes, Apparatus for distributing gas and air in. J. C. Law. 1,639,642; Aug. 16.
 Fire boxes, Baffle plate for boiler. C. E. Johnson. 1,642,317; Sept. 13.
 Fire brick. O. Nygaard. 1,621,267; Mar. 15.
 Fire. J. Langer. 1,620,215; Mar. 8.
 Fire-control apparatus. G. W. Beatty. 1,612,851; Jan. 4.
 Fire-control apparatus. J. B. Henderson. 1,621,201; Mar. 15.
 Fire-control mechanism. R. L. Goetzenberger. 1,616,183; Feb. 1.
 Fire-control system, Antiaircraft. R. L. Coetzenberger. 1,613,822; Jan. 11.
 Firecracker. T. G. Hitt. 1,638,994; Aug. 16.
 Fire-damp indicator. O. Martienssen. 1,652,448; Dec. 13.
 Fire door. H. D. Barbee. 1,633,757; June 28.
 Fire door. R. H. Perkins. 1,621,051; Mar. 22.
 Fire escape. B. Glowitz. 1,615,735; Jan. 25.
 Fire escape. W. W. Phillips. 1,647,841; Nov. 1.
 Fire escape. G. M. Rouse. 1,626,698; May 3.
 Fire escape. G. Scholer. 1,629,541; May 24.
 Fire escape. W. P. Westfield. 1,623,821; Apr. 5.
 Fire escape. J. W. Wetzel. 1,620,309; Mar. 8.
 Fire-escape apparatus. J. Ratzer. 1,616,924; Feb. 8.
 Fire escape, Automatic. G. Nykolyshek. 1,625,221; Apr. 19.
 Fire escape, Porch. H. E. Hodgson. 1,640,702; Aug. 30.
 Fire escape, Portable. P. C. Canizaro. 1,647,684; Nov. 1.
 Fire escapes, Safety device for. E. Bocchino. 1,641,798; Sept. 6.
 Fire escapes, Safety device for power-operated. F. Hetzelberger. 1,637,190; July 26.
 Fire extinguisher. G. W. Burke, Jr. 1,634,975-6; July 5.
 Fire extinguisher. E. L. Burns. 1,633,332; June 21.
 Fire extinguisher. D. Estes. 1,653,844; Dec. 27.
 Fire extinguisher. W. E. Everitt. 1,652,105; Dec. 6.
 Fire extinguisher. G. E. Ferguson and L. G. M. Timpson. 1,635,546; July 12.
 Fire extinguisher. J. L. Pohlen. 1,650,985; Nov. 29.
 Fire extinguisher. E. Hallkman. 1,642,608; Sept. 13.
 Fire extinguisher. W. H. Heaton. 1,619,120; Mar. 1.
 Fire extinguisher. F. Hermann. 1,648,897; Nov. 8.
 Fire extinguisher. C. O. Johnston. 1,633,254; June 21.
 Fire extinguisher. C. O. Johnston. 1,648,233; Nov. 8.
 Fire extinguisher. P. G. MacGregor. 1,628,255; May 10.
 Fire extinguisher. P. G. MacGregor. 1,653,865; Dec. 27.
 Fire extinguisher. G. J. Mead. 1,638,050; Aug. 9.
 Fire extinguisher. C. L. Nevin. 1,647,880; Nov. 1.
 Fire extinguisher. J. Raus. 1,638,017; Aug. 9.
 Fire extinguisher. K. Schmidt. 1,638,597; Aug. 9.
 Fire extinguisher. A. F. Thompson. 1,620,142; Mar. 8.
 Fire extinguisher. A. B. Waggoner. 1,623,510; Apr. 5.
 Fire extinguisher. C. B. White. 1,646,226; Oct. 18.
 Fire extinguisher, Automatic. G. Matsushita. 1,625,086; Apr. 19.

- Fire extinguisher, Chemical. A. B. Phister. Re16,662; June 21.
- Fire extinguisher, Dry. W. Friedrich. 1,638,729; Aug. 9.
- Fire extinguisher for oil and gas wells. E. A. Kliever. 1,640,838; Aug. 30.
- Fire extinguisher for oil wells. E. A. Kliever. 1,640,839; Aug. 30.
- Fire-extinguisher holder, Built-in. L. Lewis. 1,648,615; Nov. 8.
- Fire-extinguisher mounting. O. D. Buell and H. J. Miller. 1,645,584; Oct. 18.
- Fire extinguisher, Nonfreezing. A. C. Badger. 1,643,363; Sept. 27.
- Fire extinguisher of the liquid type. C. Herblin. 1,617,251; Feb. 8.
- Fire extinguisher, Oil-well-controlled. T. B. Hawley. 1,633,813; June 28.
- Fire extinguisher, Portable. F. E. Krauss. 1,627,039; May 3.
- Fire extinguisher, Pump-gun. R. W. McMullen. 1,649,718; Nov. 15.
- Fire extinguishers and the like, Pressure indicator for. E. A. Louder. 1,646,968; Oct. 25.
- Fire extinguishers, Cartridge for. A. Vezzani. 1,623,289; Apr. 5.
- Fire extinguishers or similar articles, Pump handle for. C. Brown. Des. 72,546; May 3.
- Fire-extinguishing and like apparatus. E. J. Béchard. 1,630,251; May 31.
- Fire-extinguishing apparatus. O. R. Erwin. 1,640,116; Aug. 23.
- Fire-extinguishing apparatus. G. W. Polk and G. W. Burke, jr. 1,653,780; Dec. 27.
- Fire-extinguishing apparatus, Mixer and distributor. O. R. Erwin and W. D. Witter. 1,629,490; May 24.
- Fire-extinguishing composition. F. L. Dunlap and N. T. Ewer. 1,624,398; Apr. 12.
- Fire-extinguishing foam, Production of. L. Burgess. 1,653,147; Dec. 20.
- Fire-extinguishing liquid. K. Kubierschky and W. Schultze. 1,633,383; June 21.
- Fire-extinguishing solutions, Revivifying. C. B. White. 1,646,046; Oct. 18.
- Fire-extinguishing system, Marine. V. G. W. Gilbert and F. H. Steinicke. 1,650,267; Nov. 22.
- Fire-fighter, Prairie. H. B. Morter. 1,629,044; May 17.
- Fire-fighting system. I. G. Forero. 1,635,180; July 12.
- Fire grate. M. Stohr. 1,618,850; Feb. 22.
- Fire hose, Device for maintaining vacuum in. F. E. Lumley. 1,648,816; Nov. 8.
- Fire-hose protector. M. Shoman. 1,653,127; Dec. 20.
- Fire-kindling material. P. L. Paulson. 1,626,965; May 3.
- Fire lighter, Automatic. W. Richardson. 1,622,738; Mar. 29.
- Fire-lighting device. H. Stieler. 1,652,258; Dec. 13.
- Fire looper. P. W. Fisher. 1,615,507; Jan. 25.
- Fire-making device. J. C. Ramsey. 1,643,726; Sept. 27.
- Fire-neutralizing system, Cross-. R. B. Shanck. 1,649,863; Nov. 22.
- Fire pan. A. H. Willett. 1,619,453; Mar. 1.
- Fireplace. G. D. Alford. 1,644,219; Oct. 4.
- Fireplace. T. Burley. 1,638,286; Aug. 9.
- Fireplace. W. W. Guy. 1,631,123; June 7.
- Fireplace. H. G. Heinisch. 1,640,937; Aug. 30.
- Fireplace. E. P. Miles. 1,649,037; Nov. 15.
- Fireplace. S. Mogorós and S. Visi. 1,629,223; May 17.
- Fireplace construction. E. Flagg. 1,622,944; Mar. 29.
- Fireplace construction. W. A. Moffat. 1,646,307; Oct. 18.
- Fireplace damper. J. Setchfield. 1,636,256; July 19.
- Fireplace, Decorative. J. F. Relyea. Des. 73,867; Nov. 15.
- Fireplace grate. H. V. Lancaster. Des. 72,370-3; Apr. 5.
- Fireplace heater. J. E. McMinn. Des. 72,068; Feb. 22.
- Fireplace heater. S. B. Nickels. 1,653,466; Dec. 20.
- Fireplace heater. T. A. Sala. 1,613,478; Feb. 22.
- Fireplace heater. T. A. Sala. 1,624,135; Mar. 15.
- Fireplace log. E. S. Brown. Des. 71,999; Feb. 15.
- Fireplace screen. L. Bowers. 1,647,899; Nov. 1.
- Fireplace structure, Domestic. N. Robertson. 1,631,696; June 7.
- Fireplaces, Air heating system for. J. M. Cesa. 1,645,586; Oct. 18.
- Fireplaces, Damper for. M. Serdyn. 1,650,159; Nov. 22.
- Fireplaces, Metal screen for. F. Bertram. 1,635,573; July 12.
- Fire-poking apparatus. F. Rawson. 1,651,908; Dec. 6.
- Fire pot. J. R. Johnson. 1,620,353; Mar. 8.
- Fireproof construction. O. J. Groehn and W. Blaskewitz. 1,618,981; Mar. 1.
- Fire-prevention apparatus. J. P. O'Neill. 1,644,603; Oct. 4.
- Fire-producing device, Automatic. L. A. Nevilre. 1,627,923; May 10.
- Fireproof building. H. Sorensen. 1,620,139; Mar. 8.
- Fireproof buildings, Construction of. H. Sorensen. 1,628,164; Mar. 8.
- Fireproof composition. A. McIntyre. 1,628,171; May 10.
- Fireproof construction and clip for use therein. S. Macomber. 1,614,248; Jan. 11.
- Fireproof safe door. C. Bartels. 1,616,249; Feb. 1.
- Fireproofed product and the projection thereof. C. E. Burke. 1,653,067; June 21.
- Fire-protective device. A. J. Loepsinger. 1,634,838; July 5.
- Fire-protective system. F. W. Parsons. 1,617,415; Feb. 15.
- Fire-receiving wall. L. S. Abbott. 1,624,200; Apr. 12.
- Fire-resisting structure. F. O. Ludlow. 1,652,314; Dec. 13.
- Fire shield, Air-regulating. R. S. Peck. 1,652,322; Dec. 13.
- Fire shutter. G. E. Deller. 1,632,219; June 14.
- Fire shutter. W. E. Duncanson. 1,617,439; Feb. 15.
- Fire shutter, Automatic. W. E. Duncanson. 1,617,438; Feb. 15.
- Fire shutter mechanism, Automatic. W. E. Duncanson. 1,617,440; Feb. 15.
- Fire-sprinkler system, Automatic. H. M. Minnis. 1,637,621; Aug. 2.
- Fire starter. F. C. Holmes. 1,644,882; Oct. 11.
- Fire starter, Friction. J. C. Ramsey. 1,629,638; May 24.
- Fire-stripping machine. W. C. Stevens. 1,634,920; July 5.
- Fire-tube boiler. A. J. Ebner. 1,622,577; Mar. 29.
- Fireworks holder. R. S. Moushon. 1,634,232; June 28.
- Fired ceramic blocks, Producing. I. G. Willetts. 1,626,260; Apr. 26.
- Firing of automatic weapons, Apparatus for regulating the speed of continuous. R. Francart. 1,614,981; Jan. 18.
- Fires, Apparatus for extinguishing. O. R. Erwin. 1,629,027; May 17.
- Fires, Extinguishing. K. H. Klefer. 1,632,339; June 14.
- Fires in the cargo spaces of vessels, Apparatus for detecting and extinguishing. H. S. Orr. 1,628,182; May 10.
- Fish and fowl dressing device. H. C. Posschl. 1,632,194; June 14.
- Fish and the like, Handling and preserving. D. E. Knowlton and E. W. Donigan. 1,621,257; Mar. 15.
- Fish at traps, Removing and catching the scales of. G. H. Hilton and T. W. Marsh. 1,640,990; Aug. 30.
- Fish bait, Artificial. C. Steenstrup. 1,622,063; Mar. 22.
- Fish-beheading machine. R. Lea. 1,643,504; Sept. 27.
- Fish-catching apparatus. H. E. Blecker. 1,619,560; Mar. 1.
- Fish-cleaning apparatus. P. W. Lindquist. 1,624,173; Apr. 12.
- Fish-cleaning machine. S. C. Anker-Holth. 1,614,587; Jan. 18.
- Fish-cleaning machines, Automatic feed for. J. F. Heinbockel and A. V. Sullivan. 1,653,906; Dec. 27.
- Fish-creel. C. Barber. 1,652,387; Dec. 13.
- Fish-cutting machine. J. Barry. 1,639,976; Aug. 23.
- Fish-cutting machine. H. E. Bergen. 1,628,765; May 17.
- Fish-dressing machines, Fanning unit for. W. M. McCay. 1,618,840; Feb. 22.
- Fish elevator. J. H. Coleman. 1,630,169; May 24.
- Fish-feeding means. J. A. Gray. 1,649,304; Nov. 15.
- Fish head and entrails removing means. O. Hovden. 1,642,442; Sept. 13.
- Fishhook. A. Goodgame. 1,622,870; Apr. 5.
- Fishhook. L. Johns. 1,623,118; Mar. 22.
- Fishhook. J. J. Leu. 1,613,113; Jan. 4.
- Fishhook. M. J. Steffens. 1,649,140; Nov. 15.
- Fishhook and bait, Concealable releasably-secured. R. Danielson. 1,638,923; Aug. 16.
- Fishhook, Artificial minnow. C. M. Reed. 1,633,419; June 21.
- Fishhook, Automatic. H. M. Sykes. 1,620,497; Mar. 8.
- Fishhook, extruded. M. E. Nelson. 1,629,583; May 24.
- Fishhook, Snagless. H. E. Ackerman. 1,620,589; Mar. 8.
- Fishhooks, Guard for. J. Klippe. 1,629,510; May 24.
- Fish-hooking device. J. G. Pennell. 1,614,931; Jan. 18.
- Fishline reel. G. S. Rinebolt, sr. 1,626,357; Apr. 20.
- Fish lure. H. L. Fisher. 1,639,766; Aug. 23.
- Fish lure. F. W. Hobbs. 1,620,972; Mar. 15.
- Fish lure. E. P. Johnson. 1,644,884; Oct. 11.
- Fish lures, Controller for. J. A. Diener and A. C. Mabee. 1,627,078; May 3.
- Fish lures, Manufacturing. R. H. Conn. 1,640,599; Aug. 30.
- Fish Machine to decapitate and clean. H. L. Stafford. 1,632,200; June 14.
- Fish net. S. Hosko. 1,636,096; July 19.
- Fish-oil powder, Producing. W. E. Miller. 1,622,390; Mar. 29.
- Fishpole holder. E. V. Nunlist. 1,619,152; Mar. 1.
- Fishing and with sewage supply. K. Inhoff. 1,643,273; Sept. 20.
- Fish-positioning machine. S. C. Anker-Holth. 1,614,588; Jan. 18.
- Fish-positioning means. O. Hovden. 1,642,444; Sept. 13.
- Fish rods, Reel lock for. A. G. Hall. 1,614,429; Oct. 4.
- Fish-seining machine. J. W. Price. 1,615,134; Jan. 18.
- Fish segregating, directing, timing and turning apparatus. P. Heath. 1,627,899; May 10.
- Fish-segregating mechanism. O. Hovden. 1,642,443; Sept. 13.
- Fish-tape puller. W. Rose. 1,628,744; May 17.
- Fish trap. P. M. Boyd. 1,621,017; Mar. 25.
- Fish trap. L. Wacner. 1,647,027; Oct. 15.
- Fish trap, Floating. G. Cleaver. 1,614,609; Jan. 18.
- Fishway. W. C. Landau. 1,621,170; Mar. 15.
- Fishing and hunting otter. J. Hansen. 1,642,582; Sept. 13.
- Fishing apparatus. B. C. Heckman. 1,619,512; Mar. 1.
- Fishing apparatus. C. F. Schneider. 1,632,566; June 14.
- Fishing bait. C. M. Rodgers. 1,638,215; Aug. 9.

- Fishing bait, Artificial. O. W. Peterson. 1,627,455; May 3.
- Fishing device. A. F. Dice. 1,625,988; Apr. 26.
- Fishing device. N. Young. 1,624,456; Apr. 12.
- Fishing float. F. J. Peckham. 1,632,502; June 14.
- Fishing hook. L. C. Matney. 1,619,157; Mar. 1.
- Fishing line. E. J. Babbitt. 1,614,642; Jan. 18.
- Fishing line. J. Korkames. 1,634,030; June 28.
- Fishing lure. E. A. Dahlquist. 1,627,637; May 10.
- Fishing lure. H. A. Kinney. Des. 73,503; Sept. 20.
- Fishing lure. D. A. Shirley and C. A. Braidwood. Des. 72,659; Feb. 15.
- Fishing lure. A. D. and D. M. Skelly. Re16,636; May 24.
- Fishing reel. J. Brislín. 1,630,779; May 31.
- Fishing reel. J. Brislín. 1,631,790; June 7.
- Fishing reel. F. M. Case. 1,637,437; Aug. 2.
- Fishing reel. C. T. Pitterger. Des. 73,047; July 12.
- Fishing reel. W. C. Rife. 1,648,824; Nov. 8.
- Fishing reel. E. C. Roberts. 1,617,543; Feb. 15.
- Fishing reel. S. G. Russell. 1,640,375; Aug. 30.
- Fishing reel. C. A. Thayer. 1,632,522; June 14.
- Fishing reel. A. C. Vance. 1,619,448; Mar. 1.
- Fishing-reel lines, Line traverser for. J. A. Curdy. 1,649,154; Nov. 15.
- Fishing reels, Click mechanism for. F. M. Case. 1,639,029; Aug. 16.
- Fishing reels, Drag mechanism for. W. L. Adams. 1,647,101; Oct. 25.
- Fishing reels, Line distributor for. H. W. Marcy. 1,635,629; July 12.
- Fishing-rod appliance. F. E. Fain and R. W. Sprigg. 1,626,333; Apr. 26.
- Fishing rod, Sectional. A. Chromczak. 1,643,003; Sept. 20.
- Fishing rod, Telescopic. C. A. Tredwell. 1,625,510; Apr. 19.
- Fishing rods, Line-drying attachment for. L. Kraemer. 1,627,514; May 3.
- Fishing rods, Line guide for. P. A. Haberl. 1,627,643; May 10.
- Fishing rods, Manufacture of split bamboo. L. J. Lane. 1,645,812; Oct. 18.
- Fishing rods, Reel seat for. C. Heddon and J. T. Welch. 1,624,052; Apr. 12.
- Fishing rods, Strain-applying device for. L. C. Mathey. 1,613,522; Jan. 4.
- Fishing rods, Strain-applying device for. L. C. Mathey. 1,613,302; Feb. 22.
- Fishing-tackle box and line winder and dryer, Combined. E. C. Mead. 1,635,378; July 12.
- Fishing-tackle case. E. Miller. 1,615,229; Jan. 25.
- Fishing tool. E. L. Boettler. 1,651,803; Dec. 6.
- Fishing tool. C. A. Brust, Jr. 1,616,024; Feb. 1.
- Fishing tool. P. G. Gates. Des. 72,042; May 10.
- Fishing tool. G. N. King. 1,626,843; May 3.
- Fishing tool, Mechanic's. P. J. McCloskey. 1,619,744; Mar. 1.
- Fitting. J. J. Quinn. 1,650,737; Nov. 27.
- Fitting, cooperating bodies. C. S. Brown. 1,631,359; June 7.
- Fitting, Supply, waste, and overflow. A. N. Pasman. 1,617,078; Feb. 8.
- Fixture, Adjustable. G. Arras and D. E. Worrell. 1,625,069; Apr. 19.
- Fixture-attaching strap. M. A. Tierney. 1,618,610; Feb. 22.
- Fixture-attaching strap. M. A. Tierney. 1,621,566; Mar. 22.
- Fixture-attaching strap. M. A. Tierney. 1,642,796; Sept. 20.
- Fixture connector. R. B. Benjamin. 1,646,807; Oct. 25.
- Fixture, Control. H. E. Norvell. 1,624,114; Apr. 12.
- Fixture hanger. G. B. Hoobler. 1,639,432; Aug. 16.
- Fixture, Store. J. Abrachinsky. 1,653,530; Dec. 20.
- Fixture support. J. A. Hoegger. 1,636,364; July 19.
- Fixture support and base, Combination. D. Schell. 1,623,813; Apr. 5.
- Fixture-supporting devices, Adapter for. E. C. White. 1,627,944; May 10.
- Fixture, Window. L. A. Corcoran. 1,640,143; Aug. 23.
- Flacon. R. T. Brewster. Des. 72,698; May 24.
- Flacon. R. T. Brewster. Des. 73,250; Aug. 16.
- Flag. H. L. Kratz. Des. 71,840-1; Jan. 11.
- Flag, Electrical. A. Miglicchio. 1,640,282; Aug. 23.
- Flag holder. J. E. Blaw. 1,653,033; Dec. 20.
- Flag holder, Automobile. N. Gaines. 1,648,338; Nov. 8.
- Flag holder for automobile radiators. R. G. Archer, sr., and R. G. jr. Des. 72,542; May 3.
- Flag or pennant spreader. R. T. Walton. 1,646,467; Oct. 25.
- Flagpole. J. E. Davis. 1,645,645; Oct. 18.
- Flagpole, Counterbalanced. L. P. Bolander. 1,613,979; Jan. 11.
- Flagpole holder. J. A. Gerow and A. C. Cannon. 1,648,220; Nov. 8.
- Flagpoles, Base for. A. Newcomb. Des. 73,939; Nov. 22.
- Flagpoles, Protective housing for attachment to. J. E. Davis. 1,645,691; Oct. 18.
- Flag protector. J. E. Davis. 1,646,015; Oct. 18.
- Flagstaff. R. G. Conklin. 1,632,726; June 14.
- Flag stand. N. Looney. Des. 73,189; Aug. 14.
- Flag support and actuating device therefor. R. T. Walton. 1,631,567; June 7.
- Flag support, Rotatable. R. T. Walton. 1,631,566; June 7.
- Flags or other emblems, Building or composing designs of. H. W. Bible. 1,652,162; Dec. 6.
- Flame-arc furnace. J. Jonas and W. Niggeler. 1,650,072; Nov. 22.
- Flange, Closet reinforcing. A. E. Swanson and D. Morgan. 1,648,665; Nov. 8.
- Flange, Creased. J. A. Gray. 1,636,957; July 26.
- Flange on overflow connection for drains, Adjustable. W. J. Frost. 1,651,883; Dec. 6.
- Flange-remover. A. M. Hughes. 1,630,942; May 31.
- Flange setter, Ratchet. H. N. Long. 1,633,819; June 28.
- Flangeway guard for highway crossings. P. E. Gerhard. 1,645,279; Oct. 11.
- Flange-way guard, Troughless skeleton. H. P. Blum. 1,650,325; May 31.
- Flanged coupling. T. E. Murray. 1,648,026; Nov. 8.
- Flanged fin. W. B. Klempner. 1,623,938; Apr. 5.
- Flanges, Machine for forming. F. Geiger and G. C. Swift. 1,614,116; Jan. 11.
- Flanges of cap ends, Machine for curling the. J. F. Peters. 1,622,540; Mar. 29.
- Flanged plates, Organized mechanism for. M. A. Burke. 1,647,431; Nov. 1.
- Flap cutting and measuring machine. H. D. Stevens. 1,625,403; Apr. 19.
- Flare bracket, Electrically-operated wing-tip. H. O. Russell and C. L. Paulus. 1,627,066; May 3.
- Flare light. L. Compton and F. E. Galvin. 1,617,793; Feb. 15.
- Flash light. C. Osean. Des. 73,192; Aug. 2.
- Flash light. J. A. Schiffer. 1,621,955; Mar. 22.
- Flash light. J. L. Shannon. 1,613,203; Jan. 4.
- Flash light. R. J. Smith. 1,624,686; Apr. 12.
- Flash light and circuit tester, Combination. B. M. Rydyk. 1,633,669; Dec. 27.
- Flash light and handle, Combined. I. Jones. 1,638,039; Aug. 9.
- Flash light apparatus. E. I. Johnson. 1,615,455; Jan. 25.
- Flash-light attachment. W. P. Wood. 1,649,638; Nov. 15.
- Flash-light case. D. C. Harris. 1,644,125; Oct. 4.
- Flashlight casings, Making. E. G. Oakley. 1,623,807; Apr. 5.
- Flash-light controlling means, Electric. G. K. V. Johanson. 1,639,507; Aug. 16.
- Flash light, Electric. R. B. Wolcott. 1,649,882; Nov. 22.
- Flash light for doors. T. J. Hendrickson. 1,647,001; Oct. 25.
- Flash-light holder. E. L. Thorp. 1,621,645; Mar. 22.
- Flash-producing apparatus. L. Sguin and A. Sguin. 1,640,966; Aug. 30.
- Flash water cooler. L. G. Copeman. 1,633,372; June 21.
- Flash winder. M. E. Tibbels. 1,615,892; Feb. 1.
- Flasher. L. B. Bossard. 1,621,621; Mar. 22.
- Flashing. E. R. McCaffrey. 1,642,165; Sept. 13.
- Flashing machine, Automatic. H. M. Robins and J. J. Higgins. 1,626,695; May 3.
- Flashings, Making. E. R. McCaffrey. 1,642,166; Sept. 13.
- Flask. See—
- Dental casting flask. Molder's flask.
- Dental flask. Molding flask.
- Dosing flask. Vacuum jacketed flask.
- Flasks and other containers, Stopper for vacuum. C. J. R. Beauchamp. 1,652,156; Dec. 6.
- Flatiron. M. C. Bersted. 1,629,183; Mar. 8.
- Flatiron. E. Gates. 1,636,359; July 19.
- Flatiron. J. W. Myers. 1,621,922; Mar. 10.
- Flatiron. J. W. Myers. 1,634,431; July 5.
- Flatiron handle. J. W. Custer. 1,629,260; May 17.
- Flatiron receptacle, Front for an electrical. P. C. Cunningham. Des. 73,027; July 12.
- Flatiron stands, Cover for. E. M. Prior. 1,632,348; June 14.
- Flatirons, control for electric. J. Harper. 1,635,041; July 5.
- Flatirons, Holder for. A. J. Larson. 1,637,120; July 26.
- Flavoring product, Manufacturing a true maple. J. W. Sale and J. E. Wilson. 1,642,789; Sept. 20.
- Flax bolls, Machine for harvesting. S. Allingham. 1,631,612; June 7.
- Flax-cleaning machine. G. A. Lowry. 1,640,461; Aug. 30.
- Flax-testing machine. A. V. Cleland. 1,639,926; Aug. 23.
- Flea and insect trap. A. S. Northrup. 1,645,715; Oct. 18.
- Flexible adjustable coupling. E. B. Nowelski. 1,626,351; Apr. 26.
- Flexible connection. W. A. McGee and J. E. O'Brien. 1,654,860; Dec. 27.
- Flexible coupling. K. Baumann. 1,639,481; Aug. 16.
- Flexible coupling. H. Bell. 1,619,457; Mar. 1.
- Flexible coupling. W. F. Briscoe. 1,620,592; Mar. 8.
- Flexible coupling. G. F. Eckart. 1,623,582; Apr. 5.
- Flexible coupling. G. F. Eckart. 1,633,243; June 21.
- Flexible coupling. P. Evans and A. T. Wilson. 1,654,202; Nov. 22.
- Flexible coupling. W. J. Francke. 1,622,101; Mar. 22.
- Flexible coupling. W. J. Francke. 1,626,458; Apr. 26.
- Flexible coupling. C. Froesch. 1,631,196; June 7.
- Flexible coupling. L. Goodman. 1,621,980; Mar. 22.
- Flexible coupling. H. Hill. 1,636,692; July 26.
- Flexible coupling. W. A. Hiller. 1,626,195; Apr. 26.
- Flexible coupling. A. Lanz. 1,652,534; Dec. 15.

- Flexible coupling. H. Peigné. 1,635,496; July 12.
 Flexible coupling. S. Pollak. 1,620,285; Mar. 8.
 Flexible coupling. C. Ratsig. 1,640,852; Aug. 30.
 Flexible coupling. W. T. Sandifer. 1,638,412; Aug. 9.
 Flexible coupling. B. Skidmore, Jr. 1,646,427; Oct. 25.
 Flexible coupling. J. A. Smitmans. 1,653,740; Dec. 27.
 Flexible coupling. A. Sundh. 1,642,907; Sept. 20.
 Flexible coupling. C. F. Taylor. 1,634,965; July 5.
 Flexible coupling. R. A. Teel. 1,623,557; Apr. 5.
 Flexible coupling. W. A. V. Thomsen. 1,648,078; Nov. 8.
 Flexible coupling. W. E. Trumpler. 1,654,312; Dec. 27.
 Flexible coupling. W. E. Trumpler and C. R. Soderberg. 1,635,505; July 12.
 Flexible element. J. K. Wood. 1,645,510; Oct. 11.
 Flexible joint. L. H. Gillick. 1,614,667; Jan. 18.
 Flexible joint. L. H. Gillick. 1,620,094; Mar. 8.
 Flexible joint. L. H. Gillick. 1,639,800; Aug. 23.
 Flexible joint. E. H. Gold and E. A. Russell. 1,639,771; Aug. 23.
 Flexible joint. E. A. Russell. 1,615,774; Jan. 25.
 Flexible joints. Suspension device for. E. H. Gold and E. A. Russell. 1,639,772; Aug. 23.
 Flexible material. Handling webs of. R. M. Johnstone. 1,616,244; Jan. 11.
 Flexible material. Method and apparatus for embossing. P. C. McNulty. 1,630,754; May 31.
 Flexible strips. Method and machine for covering. R. R. Ambler. 1,632,816; June 21.
 Flexible wheel. W. Thornton. 1,631,349; June 7.
 Floor machines. Presser member for. W. J. Maher. 1,621,848; Mar. 22.
 Flies. Apparatus for catching. C. de la Torre. 1,632,276; June 14.
 Flitting device. E. J. Doberstein. 1,644,241; Oct. 4.
 Float. W. J. Haynes. 1,642,149; Sept. 13.
 Float. O. Pumpurin and V. Austrin. 1,652,253; Dec. 13.
 Float and thermostat. Combined. J. V. Giesler. 1,648,047; Nov. 8.
 Float chamber. T. C. Whitehead. 1,628,293; May 10.
 Float control device. L. W. Browne. 1,626,504; Apr. 26.
 Float device. Decanting and filtering. S. L. Goldman. 1,612,248; Oct. 4.
 Float gauge. G. P. Gregory. 1,633,322; June 21.
 Float-operated switch. E. B. Smith. 1,628,003; May 10.
 Float or bobber. Casting-line. A. F. Hahn. 1,652,858; Dec. 13.
 Float, Single-wall reinforced high-pressure. G. W. Osborn. 1,653,966; Dec. 27.
 Floater. A. E. Fowle. 1,644,114; Jan. 11.
 Floating structures. Hull construction for. R. E. Ellis. 1,647,515; Nov. 1.
 Floating vessels. Construction of. J. W. Isherwood. 1,622,830; Mar. 29.
 Floodgate and controllable headgate. Convertible automatic. K. J. Thorsby. 1,634,697; July 5.
 Floodlight. Flaming-arc. T. Hall. 1,625,315; Apr. 19.
 Floor and ceiling construction. F. M. Kandle. 1,630,185; May 24.
 Floor and ceiling construction. J. J. R. Meyers. 1,615,006; Jan. 18.
 Floor and ceiling form. Adjustable. E. B. Selway. 1,652,056; Dec. 6.
 Floor and wall tile. Tool and machine for setting. M. A. Schweiker and J. R. Westbrook. 1,639,616; Aug. 16.
 Floor clip. R. W. Bailly. 1,622,697; Mar. 29.
 Floor construction. C. J. Beckwith. 1,642,324; Sept. 13.
 Floor construction. T. J. Foster. 1,649,300; Nov. 15.
 Floor construction. F. H. Pletzsch. 1,620,130; Mar. 8.
 Floor construction. Nonslip. F. J. Tone. 1,629,185; May 17.
 Floor construction. Reinforced concrete. J. Lally. 1,625,900; Apr. 26.
 Floor covering. J. B. Campbell. 1,637,762; Aug. 2.
 Floor covering. O. A. Heppes. 1,614,127; Jan. 11.
 Floor covering. A. C. Sloate. 1,649,750; Nov. 15.
 Floor covering. Article of manufacture suitable for. H. H. Duke. 1,642,845; Sept. 20.
 Floor coverings. Apparatus for applying nonslipping material to. G. McLarty. 1,625,563; Apr. 26.
 Floor domes. Semimetric flexible form for. H. Read and S. M. Higgins. 1,619,269; Mar. 1.
 Floor drain. R. Smallbrook. 1,648,701; Nov. 8.
 Floor drain and back pressure water trap. Combined. W. V. Bulman. 1,629,437; May 17.
 Floor. Elastic composition. F. E. Boekow and W. O. Ritting. 1,635,982; July 19.
 Floor-finishing apparatus. J. T. Carton. 1,619,571; Mar. 1.
 Floor forms. Bracket for concrete. E. C. Marqua. 1,622,528; Mar. 29.
 Floor grating. F. L. Price. Des. 73,440; Sept. 13.
 Floor grid. A. S. Macdonald. 1,645,538; Oct. 18.
 Floor heater. T. P. Blair. 1,619,593; Mar. 1.
 Floor jack. L. Johnson and W. W. Hillson. 1,615,705; Jan. 25.
 Floor layer. L. L. Tubbs. 1,618,896; Feb. 22.
 Floor-laying device. W. C. Daniel. 1,638,985; Aug. 16.
 Floor-laying device. J. L. McWilliams and J. Marosky. 1,623,882; Apr. 5.
 Floor-laying device. J. L. McWilliams and J. Marosky. 1,652,950; Dec. 13.
 Floor-laying machine. H. H. Payzant. 1,631,501; June 7.
 Floor. Lowering. T. M. Brintnall. 1,651,178; Nov. 29.
 Floor mat. J. J. O'Toole. 1,633,951; June 28.
 Floor roller. A. Weber. 1,626,891; May 3.
 Floor or platform structure. A. J. Hall. 1,614,296; Jan. 11.
 Floor plate. R. H. Irons. Des. 73,834; Nov. 15.
 Floor polisher. W. A. and H. A. Hoe. 1,642,440; Sept. 13.
 Floor polisher. R. C. Odell. 1,614,680; Jan. 18.
 Floor polisher. H. S. Stevens. 1,616,767; Feb. 8.
 Floor-polishing machine. E. E. Lockwood. 1,626,742; May 3.
 Floor-scrapping machine. R. Grabowski. 1,616,895; Feb. 8.
 Floor-scrapping machine. J. W. Stubblefield. 1,614,855; Jan. 18.
 Floor-scrubbing machine. W. S. Fennell. 1,628,770; May 17.
 Floor slabs and the like of cork and similar materials. Manufacturing. J. E. Jensen. 1,640,650; Aug. 30.
 Floor. Structural building. R. V. Yeager. 1,627,000; May 3.
 Floor structure. Composite. P. H. Bevier. 1,646,183; Oct. 18.
 Floor-surfacing machine. L. M. Gries. 1,640,933; May 3.
 Floor-surfacing machine. O. B. Jacobson. 1,635,480; July 12.
 Floor-surfacing machine. W. Paschall. 1,625,740; Apr. 19.
 Floor-surfacing machines. Handle for. R. E. Lewis. 1,630,854; May 31.
 Floor vent. A. J. Filkins. 1,648,014; Nov. 8.
 Floors. Making. J. M. Tobin. 1,646,667; Oct. 25.
 Floors. Reinforcing concrete. O. Konrad. 1,623,252; Apr. 5.
 Flooring. C. J. Carter. 1,637,634; Aug. 2.
 Floor and making the same. Block. J. O. Fulton. 1,622,104; Mar. 22.
 Flooring and similar purposes. Metal and concrete structure for. B. A. Prince. 1,645,622; Oct. 18.
 Flooring block. W. Dalton. 1,632,590; June 14.
 Flooring. Bridge. G. W. Warmoth and R. Wertenberger. 1,615,431; Nov. 8.
 Flooring-end matcher. W. S. Sherman. 1,628,335; May 10.
 Flooring. Hardwood block. J. O. Fulton. 1,622,103; Mar. 22.
 Flooring material. T. B. Munroe. 1,626,117; Apr. 26.
 Flooring. Method and arrangement for making naked. J. O. Fulton. 1,622,829; Mar. 29.
 Flooring. Prefinished. K. E. Crooks. 1,644,710; Oct. 11.
 Flooring. Terrazzo. B. O. A. De Paoli. 1,634,653; July 5.
 Floral designs. Adjustable supporting standard for the attractive display of. C. Smith. 1,617,352; Feb. 15.
 Floral display. J. A. Heinz. 1,652,936; Dec. 13.
 Floral support. F. D. MacDonald. 1,620,112; May 17.
 Florist bench. Sectional. G. S. Ramsburg. 1,626,095; Apr. 26.
 Floss holder. C. B. Bowling and H. Bulman. 1,623,231; Apr. 5.
 Flooding agent and making the same. B. L. George. 1,647,793; Nov. 1.
 Flotation apparatus. T. M. Owen and M. P. Dalton. 1,624,559; Apr. 12.
 Flotation apparatus. T. M. Owen and M. P. Dalton. 1,631,382; June 7.
 Flotation device. A. Black. 1,643,049; Sept. 20.
 Flotation machine. F. De Mier. 1,616,351; Oct. 18.
 Flotation machines. Oil feeder for. C. A. Daman. 1,627,014; May 3.
 Flotation method and apparatus. D. L. Forrester. 1,646,019; Oct. 18.
 Flotation process. A. W. Hahn and C. M. Nokes. 1,649,685; Nov. 15.
 Flotation separating process. E. A. Hall and G. R. Sanders. 1,634,615; July 5.
 Flour and shortening blender. W. L. Hood. 1,651,276; Nov. 29.
 Flour improver. E. J. Sullivan. 1,630,143; May 24.
 Flour improver and manufacture. D. J. Block. 1,626,910; May 8.
 Flour. Making caramelized. J. Wallos. 1,650,308; Nov. 22.
 Flour-maturing method and apparatus. J. I. Logan. 1,640,199; Aug. 23.
 Flour mill. D. S. Anthony. 1,645,847; Oct. 18.
 Flour-actuated device. H. Lundquist. 1,614,530; Jan. 18.
 Flour box. Sight. E. B. Ford. 1,630,335; May 31.
 Flour boxes. Mixer for Fourdrinier. A. Aldrich. 1,629,088; May 17.
 Flow-controlling fitting. J. Bijur. 1,632,772; June 14.
 Flow-controlling apparatus. C. H. Allen. 1,632,780; June 21.
 Flow-controlling apparatus. G. H. Gibson. 1,619,253; Mar. 1.
 Flow indicator. R. E. Hanson. 1,639,342; Aug. 16.
 Flow indicator. A. Herz. 1,653,137; Dec. 20.
 Flow integrator and recorder. C. Puccioni. 1,630,134; May 24.
 Flow meter. C. M. Anderson. 1,625,583; Apr. 19.
 Flow meter. C. R. H. Bonn. 1,637,927; Aug. 2.
 Flow meter. J. M. Dayton. 1,627,234; May 3.
 Flow meter. G. E. Decker. 1,641,744; Sept. 6.

- Flow meter. E. N. Fales. 1,635,040; July 5.
 Flow meter. G. P. Luckey. 1,631,746; June 7.
 Flow meter. V. E. Metcalfe and F. Mallen, jr. 1,648,496; Nov. 8.
 Flow meter. J. F. O. Stratton. 1,626,216; Apr. 26.
 Flow meter. L. W. Thompson. 1,650,664; Nov. 29.
 Flow meter and the like. L. W. Thompson. 1,614,217; Jan. 11.
 Flow meter, Fluid-. B. Graemiger. 1,619,416; Mar. 1.
 Flow nipple. L. H. Doerr. 1,621,876; Mar. 22.
 Flow-registering gauge. H. Lundquist. 1,614,529; Jan. 18.
 Flow regulator. F. W. Hirst. 1,635,414; July 12.
 Flow regulator. C. H. Smoot. 1,620,240; Mar. 8.
 Flowing oil or gas wells, Gas-emergency control for. E. V. Crowell. Re16,577; Mar. 29.
 Flower block. R. C. Coble. Des. 73,280; Aug. 23.
 Flower box. A. Brosnick. 1,635,203; July 12.
 Flower box, Irrigated. S. Ellis. 1,627,890; May 10.
 Flower box, Irrigated and ventilated. S. Ellis. 1,623,720; Apr. 5.
 Flower curling machine, Artificial-. O. Ganio, G. Avondoglio, and O. Grassini. 1,626,523; Apr. 26.
 Flower holder. A. J. Bennett. 1,645,577; Oct. 18.
 Flower holder. B. E. Buswick. Des. 73,775; Nov. 8.
 Flower holder. T. Carder. Des. 73,587; Oct. 4.
 Flower holder. R. G. Cowan. Des. 72,594-601; May 10.
 Flower holder. M. K. Finlayson. 1,616,894; Feb. 8.
 Flower holder. M. Karabin, J. Skoczlek, and K. F. Mandl. 1,627,649; May 10.
 Flower holder. H. A. Lahman. Des. 73,408; Sept. 12.
 Flower holder. J. H. Pfaff. 1,624,504; Apr. 26.
 Flower holder. W. F. Schmeiske. 1,619,888; Mar. 8.
 Flower holder. R. Shoch. 1,623,856; Apr. 5.
 Flower holder. W. A. Simz. Des. 72,638; May 10.
 Flower holder and stand. J. Hamilton. 1,624,407; Apr. 12.
 Flowerpot. F. Evert. 1,631,802; June 7.
 Flowerpot. R. P. White. 1,648,570; Nov. 8.
 Flowerpot die. G. Lowry. 1,644,341; Oct. 4.
 Flowerpot stand, Adjustable expansion. H. G. Westerman. 1,652,079; Dec. 6.
 Flowerpots, Moisture feeder for. F. Luipersbek. 1,635,184; June 21.
 Flower receptacle. M. K. Finlayson. 1,638,250; Aug. 9.
 Flower stand. A. S. Katz. Des. 73,703; Oct. 25.
 Flue. J. M. Lobit. 1,626,002; Apr. 26.
 Flue. S. A. Nance. 1,615,909; Feb. 1.
 Flue connection. O. F. Fuester. 1,648,392; Nov. 8.
 Flue gases, Extracting soot and greases from. J. A. McCarthy. 1,620,268; Mar. 8.
 Flue sander. G. Altimari and J. A. Campbell. 1,613,633; Jan. 11.
 Flue-sheet cleaner. W. D. Wood. 1,647,492; Nov. 1.
 Flue stopper. W. H. Southard. 1,620,840; Mar. 15.
 Flue, Ventilator, outtake. N. A. Lichty and C. L. Ostrander. 1,638,738; Aug. 9.
 Flues, Baffle plate for boiler. F. J. Loehen. 1,612,930-1; Jan. 4.
 Flues, Regulator for the movements of air or smoke in. G. Korngebl. 1,615,588; Jan. 25.
 Flues, machine. F. E. Kronlund. 1,627,706; May 10.
 Fluid-actuated engine. H. Levine. 1,630,953; May 31.
 Fluid, Apparatus for effecting and regulating a flow of. U. O. Hutton. 1,630,943; May 31.
 Fluid brake. L. R. Tripp. 1,616,770; Feb. 8.
 Fluid braking systems, Constant supply for. F. M. Sarff. 1,616,276; Feb. 8.
 Fluid-circulating plate. A. G. Kessler. 1,621,742; Mar. 22.
 Fluid-circulating system. W. Tallmadge. 1,653,485; Dec. 20.
 Fluid compressor. B. S. Aikman. 1,632,262; June 14.
 Fluid compressor, Multistage. A. W. Limont, Jr. 1,623,708; Apr. 5.
 Fluid-controlling device, Automatic. A. P. Anderson. 1,625,185; Apr. 19.
 Fluid-controlling mechanism. J. P. Fisher. 1,620,881; Mar. 15.
 Fluid-delivery-controlling means. W. M. Miller. 1,616,634; Feb. 8.
 Fluid dispenser. J. J. Catron. 1,613,934; Jan. 11.
 Fluid engine. A. R. D. Reese. 1,640,616; Aug. 30.
 Fluid-expansion or internal-combustion engine, Rotary. S. G. Sweet. 1,647,758; Nov. 1.
 Fluid-feed apparatus. J. D. Brady. 1,645,686; Oct. 18.
 Fluid feeding and conducting means. E. O. Eckland and W. H. Young. 1,635,663; July 12.
 Fluid-feeding apparatus, Pressure-controlled. C. H. Chalmers. 1,630,609; May 31.
 Fluid-flow indicator. A. C. T. Isaac. 1,652,941; Dec. 13.
 Fluid from wells, Apparatus for removing. G. A. Schaefer. 1,646,599; Oct. 25.
 Fluid-fuel burner. E. O. Eriksson and G. V. Johansson. 1,643,579; Sept. 27.
 Fluid generator, Motive-. M. E. Bigelow. 1,624,464; Apr. 12.
 Fluid meter. R. B. Ambrose and J. W. Patterson. 1,635,355; July 12.
 Fluid meter. E. C. Enyart. 1,641,840; Sept. 6.
 Fluid meter. A. J. Granberg. 1,651,885; Dec. 6.
 Fluid meter. G. K. V. Johanson. 1,626,538; Apr. 26.
 Fluid meter. J. W. Ledoux and M. M. Borden. 1,649,602; Nov. 15.
 Fluid meter. J. C. Wilson. 1,614,702; Jan. 18.
 Fluid motor. D. Bonetto. 1,646,723; Oct. 25.
 Fluid motor, Expandible. J. J. Le Duc. 1,645,761; Oct. 18.
 Fluid-operated brake. E. E. Lasure. 1,645,105; Oct. 11.
 Fluid-operated motor. J. A. Kallbeck. 1,641,001; Aug. 30.
 Fluid-operated motor. A. H. Katterjohn. 1,629,035; May 17.
 Fluid-operated motor. W. G. Naismith. 1,629,226; May 17.
 Fluid-operated percussive tool. C. A. Hultquist. 1,626,087; Apr. 26.
 Fluid-pressure brake. J. M. Dapron. 1,644,568; Oct. 4.
 Fluid-pressure brake. C. C. Farmer. 1,615,367; Jan. 25.
 Fluid-pressure brake. C. C. Farmer. 1,644,569; Oct. 4.
 Fluid-pressure brake. C. C. Farmer. 1,650,338; Nov. 22.
 Fluid-pressure brake. C. C. Farmer and T. H. Thomas. 1,622,428; Mar. 29.
 Fluid-pressure brake. R. S. McIntosh. 1,643,165; Sept. 20.
 Fluid-pressure brake. T. H. Thomas. 1,653,136; Dec. 20.
 Fluid-pressure-brake system. B. S. Aikman. 1,633,756; June 28.
 Fluid-pressure-charging device. C. C. Farmer. 1,653,161; Dec. 20.
 Fluid-pressure control. J. F. Johnson. 1,647,135; Nov. 1.
 Fluid-pressure device. B. A. Linderman. 1,651,212; Nov. 29.
 Fluid-pressure devices, Control valve for. H. W. Buckman and H. Prentice. 1,632,168; June 14.
 Fluid-pressure motor. E. G. Gartin. 1,621,663; Mar. 22.
 Fluid-pressure motor, Geared-reduction. J. J. N. Van Hamersveld. 1,633,750; Dec. 27.
 Fluid-pressure-operated device. C. T. Crocker. 1,623,780; Apr. 5.
 Fluid-pressure-operated device. O. C. Ritz-Woller. 1,613,904; Jan. 11.
 Fluid-pressure-operated gate. C. F. Hetherington. 1,615,273; Jan. 25.
 Fluid-pressure operating mechanism for reciprocating members. R. L. Morgan. 1,633,557; June 21.
 Fluid-pressure regulator. R. L. Dennison. 1,632,024; June 14.
 Fluid-pressure regulator. E. Frölich. 1,635,989; July 19.
 Fluid-pressure regulator. F. H. Vier. 1,622,689; Mar. 29.
 Fluid-pressure system. H. W. Shonnard. 1,645,076; Oct. 11.
 Fluid-pressure tool. E. Penberthy. 1,624,179; Apr. 12.
 Fluid-pressure tools, Throttle handle for. E. W. Stevens. 1,616,929; Feb. 8.
 Fluid, Quenching. G. M. Ball. 1,635,025; July 5.
 Fluid, reaction-. Conducting catalytic. H. A. Humphrey. 1,617,522; Feb. 15.
 Fluid-separating mediums, Method and apparatus for agitating. T. M. Chance. 1,614,876; Jan. 18.
 Fluid separator. G. M. Kirkpatrick. 1,630,748; May 31.
 Fluid-straining apparatus. J. D. Lalor. 1,627,186; May 17.
 Fluid-supply lines, Automatic cut-off for pressure-. P. D. Scopouly. 1,619,500; Mar. 1.
 Fluid tachometer. H. F. Schmidt. 1,613,727; Jan. 11.
 Fluid-tank indicator. E. E. Newby. 1,648,939; Nov. 15.
 Fluid-testing device. J. J. Groeken. 1,638,333; Aug. 9.
 Fluid-transfer device. C. C. Campus. 1,641,942; Sept. 6.
 Fluid-translating device. H. F. Schmidt. 1,614,574; Jan. 18.
 Fluid transmission. M. D. Simpson. 1,637,968; Aug. 24.
 Fluids, Apparatus for controlling. J. F. Donnelly. 1,619,335; Mar. 1.
 Fluids, Apparatus for separating. H. T. Groves and J. W. Cushman. 1,633,858; June 28.
 Fluids, Apparatus for straining. F. Bailey and F. H. Jackson. 1,615,609; Jan. 25.
 Fluids, Clarifying system for cleaning. W. L. Scherer. 1,613,135; Jan. 4.
 Fluids, Concentrating. W. B. McLaughlin. 1,615,287; Jan. 25.
 Fluids, Device for dispensing. D. Kapuczin. 1,618,436; Feb. 22.
 Fluids, Elevating. C. O. Haskell. 1,626,236; Apr. 26.
 Fluids, Method of and apparatus for measuring turbidities and color of. W. G. Exton. 1,635,470; July 12.
 Fluids of different densities, Apparatus for mixing. F. Jost. 1,646,813; Oct. 25.
 Fluids, Process and apparatus for concentrating. W. A. Gibbons and M. G. Shepard. 1,651,764; Dec. 6.
 Fluids, Tap for. C. S. Phillips. 1,629,303; May 17.
 Fluorescent material and preparing same. S. E. Shepard. 1,648,510; Nov. 8.
 Fluorides, Manufacture of. F. Sander. 1,642,896; Sept. 20.
 Fluoroscopic protector. E. Hollander. 1,636,419; July 19.
 Flush box. J. Werner. 1,620,503; Mar. 8.
 Flush siphon. S. S. Williamson. 1,617,295; Feb. 8.
 Flush switch. W. J. Newton. 1,642,743; Sept. 20.
 Flush tank. J. Bartosik. 1,613,640; Jan. 11.
 Flush tank. C. M. Meighan. 1,613,670; Jan. 11.
 Flush tank and odorizer, Automatic. J. Burcham. 1,643,286; Sept. 20.
 Flush-tank ball seat. P. B. Hale. 1,624,234; Apr. 12.
 Flush-tank fitting, Rocking-handle. A. W. Wellington. 1,627,943; May 10.
 Flush-tank mechanism. L. C. Vanderlip. 1,616,560; Feb. 8.

- Flush tanks and the like, Snap action valve for. H. C. Eustis. 1,637,444; Aug. 2.
- Flusher, Automatic sewer. C. R. Lion. 1,642,659; Sept. 13.
- Flushing apparatus. J. Vergara. 1,645,264; Oct. 11.
- Flushing device, Automatic. F. Brown. 1,648,108; Nov. 8.
- Flushing mechanism. L. G. and J. F. Giardino. 1,639,288; Aug. 16.
- Flushing mechanism. O. H. Theleen. 1,612,953; Jan. 4.
- Flushing system. H. W. Meyer. 1,652,038; Dec. 6.
- Flushing tank. N. J. Gondolf. 1,625,311; Apr. 19.
- Flying machine. C. A. Frahm. 1,638,481; Aug. 9.
- Flux applied in soldering aluminum and its alloys. O. Spengler. 1,653,482; Dec. 20.
- Fluxing and cleaning apparatus. J. D. Harris. 1,633,015; June 21.
- Fluxing materials, Process of and apparatus for making of. J. Lund. 1,626,292; Apr. 26.
- Fly and insect trap. A. G. Carlson. 1,629,816; May 24.
- Fly book. P. H. Martinson. 1,623,429; Apr. 5.
- Fly catcher. E. L. Hamborg and V. T. Lobdell. 1,623,006; Mar. 29.
- Fly chaser. S. R. Sko. 1,617,227; Feb. 8.
- Fly hook. A. G. Sloan. 1,655,644; July 12.
- Fly-paper appliance. J. Killick. 1,643,111; Sept. 20.
- Fly-paper holder. J. L. Killick. 1,622,591; Mar. 29.
- Fly screen. P. S. Ross. 1,645,775; Oct. 18.
- Fly swatter. J. Azamber. 1,628,486; May 10.
- Fly swatter. M. W. Gatch. 1,639,559; Aug. 16.
- Fly swatter. N. T. Hendrickson and C. Roholt. 1,639,292; Aug. 16.
- Fly swatter. F. B. Sullivan. 1,650,548; Nov. 22.
- Flytrap. R. J. Harris. 1,620,461; Mar. 8.
- Flytrap. R. J. Harris. 1,626,530; Apr. 26.
- Flytrap. E. M. Newcomer. 1,635,951; July 12.
- Flytrap. R. Taylor and J. W. Cooper. 1,632,635; June 14.
- Flywheel and balancing same. J. O. Carrey. 1,620,871; Mar. 15.
- Flying apparatus. R. A. Bibard. 1,629,198; May 17.
- Flying, Apparatus for. M. Watter. 1,632,811; June 21.
- Flying boat and like aircraft. R. J. Mitchell. 1,642,686; Sept. 20.
- Flying machine. M. M. Arndt. 1,623,613; Apr. 5.
- Flying machine. W. D. Clark. 1,650,113-14; Nov. 22.
- Flying machine. L. F. Coe. 1,624,475; Apr. 12.
- Flying machine. C. Dornier. 1,627,019; May 3.
- Flying machine. A. Hanschke, nee Sachs. 1,631,861; June 7.
- Flying machine. J. F. Kausmann. 1,635,364; July 12.
- Flying machine. E. G. Kinzie. 1,635,892; July 12.
- Flying machine. H. Klemm. 1,651,718; Dec. 6.
- Flying machine. A. Sartin. 1,622,676; Mar. 29.
- Flying machine of the biplane type. B. Francis. 1,613,091; Jan. 4.
- Flying machines, Ascertaining the flying height of. A. Behm. 1,630,689; May 31.
- Flying machines, Buoying and driving mechanism for. G. Heden. 1,615,452; Jan. 25.
- Flying machines, Erection of the hulls and the like of. H. Junkers. 1,618,536; Feb. 22.
- Flying machines, Erection of wings and the like for. H. Junkers. 1,625,029; Apr. 19.
- Flying machines, Landing chassis for. C. Dornier. 1,626,332; Apr. 26.
- Flying machines, Landing gear for. C. Dornier. 1,623,961; Apr. 12.
- Flying machines, parachutes, and the like, rubber surfaces, and protecting surfaces, Supporting surface for. E. Falkenthal. 1,613,348; Jan. 4.
- Flying machines, Wing for. A. Rohrbach. 1,619,373; Mar. 1.
- Focusing device. C. E. Godley. 1,626,407; Apr. 26.
- Fodder cutter. J. Dick. 1,625,194; Apr. 19.
- Fodder comb. C. Schell. 1,636,370; July 26.
- Foldable comb. C. Strauss. 1,616,930; Feb. 8.
- Foldable rack. H. E. Williams. 1,625,694; Apr. 19.
- Foldable table. A. Thiede. 1,646,175; Oct. 18.
- Folder. H. A. W. Wood. 1,640,017; Aug. 23.
- Folder and gauge, Combination advertising. R. H. Ken. 1,637,775; Aug. 2.
- Folder for photographs. Easel. J. Blyth. 1,651,748; Dec. 6.
- Folder, Production of. M. Hölken, sr. 1,629,077; May 17.
- Folding back rest. J. W. Sullivan. 1,625,106; Apr. 19.
- Folding bench. P. Szuhánszky. 1,654,437; Dec. 27.
- Folding box. E. M. Pitts. 1,648,280; Nov. 8.
- Folding chair. O. Anderson. 1,642,477; Sept. 13.
- Folding chair. J. S. Pecker. 1,632,146; June 14.
- Folding chair. W. C. Rastetter. Rel. 742; Sept. 20.
- Folding chair. W. C. Rastetter. 1,614,763; Jan. 18.
- Folding chair. W. C. Rastetter. 1,638,879; Aug. 16.
- Folding chair. J. V. Young. 1,633,721; June 28.
- Folding delivery. H. P. Clauber. 1,626,600; May 3.
- Folding gate. J. A. Eberle. 1,618,328; Feb. 22.
- Folding hook. H. L. Kast. 1,625,602; Apr. 19.
- Folding horse. J. A. Whelan. 1,636,342; July 19.
- Folding machine. R. S. Dalton. 1,651,190; Nov. 29.
- Folding machine. W. W. Davidson. 1,620,444; Mar. 8.
- Folding machine. W. L. Dixon. 1,648,450; Nov. 8.
- Folding machine. D. A. Rosenthal and C. P. Winter. 1,625,566; Apr. 19.
- Folding machines, etc., Temperature control for. O. E. Cook. 1,626,515; Apr. 26.
- Folding machines, Packer deliveries for. H. M. Barber. 1,615,610; Jan. 25.
- Folding machines, Pressing device for. W. F. Lautenschlager. 1,631,040; May 31.
- Folding machines, printing machines, and the like, Sheet-feeding mechanism for. G. Spiess. 1,614,088; Jan. 22.
- Folding machines, Sheet-feeding controller for. J. Luley and J. P. Brunner. 1,646,652; Oct. 25.
- Folding method and product. W. L. Dixon. 1,633,849; June 28.
- Folding screen. W. L. Wadsworth. 1,635,199; July 12.
- Folding seat. W. D. Eastburn. 1,652,139; Dec. 6.
- Folding stand. H. R. Bastford. 1,614,518; Jan. 18.
- Folding stand. P. M. Burman. 1,613,390; Jan. 11.
- Folding stand. J. Casali. 1,647,723; Nov. 1.
- Folding table. J. W. Beiger. 1,652,267; Dec. 13.
- Folding table. F. N. Blair. 1,620,061; Mar. 8.
- Folding table. A. D. Converse. 1,644,818; Oct. 11.
- Folding table. M. A. Davis. 1,634,372; July 5.
- Folding table. C. L. Dewey. 1,618,327; Feb. 22.
- Folding table. H. J. Gilbert. 1,627,556-7; May 10.
- Folding table. H. J. Gilbert. 1,628,773; May 17.
- Folding table. H. J. Gilbert. 1,644,672; Oct. 11.
- Folding table. J. Hoszowski. 1,619,124; Mar. 1.
- Folding table. F. Howe. 1,644,133; Oct. 4.
- Folding table. W. J. King. 1,635,279; July 12.
- Folding table. T. J. Ryan. 1,614,539; Jan. 18.
- Folding table. A. L. Warner. 1,644,455; Oct. 4.
- Folding table. A. L. Warner. 1,644,500; Oct. 4.
- Folding table. W. L. Whitesides. 1,625,294; Apr. 19.
- Folding table. A. W. Zimmerman. 1,630,102; May 24.
- Food and beverage products, Sterilizing. I. Jarson. 1,630,661; May 31.
- Food and process of production. New. R. P. Balla. 1,615,822; Feb. 1.
- Food and producing same, Breakfast. W. Weston. 1,617,973; Feb. 15.
- Food and the product, Making a new. A. S. Hoyt. 1,643,772; Sept. 27.
- Food articles, Apparatus for toasting. R. O. Hammond. 1,634,142; June 28.
- Food carrying and dispensing means. C. V. Pike. 1,646,650; Oct. 25.
- Food and chopers. Drip pan for. C. B. Lightfoot. 1,637,866; Aug. 2.
- Food composition. A. Leo. 1,643,951; Oct. 4.
- Food composition. A. and H. T. Leo. 1,643,950; Oct. 4.
- Food compound. H. F. Zoller. 1,645,786; Oct. 18.
- Food compound and making same. H. F. Zoller. 1,646,228; Oct. 18.
- Food container. J. A. Donahoe. 1,625,196; Apr. 19.
- Food containers, Closure for. D. M. Gray, E. Haub, and J. J. Williams. 1,629,698; May 24.
- Food-containing materials, Apparatus for treating. A. M. Klein. 1,628,850; May 17.
- Food container, Household. S. Frellino. 1,638,091; Aug. 16.
- Food, especially eggs, Shipping of. J. Lawler. 1,645,813; Oct. 18.
- Food for men or animals, Preserving. T. Sabalitschka. 1,627,342; May 3.
- Food-forming machine. H. U. Bollinger. 1,647,683; Nov. 1.
- Food material, Supplemental poultry. W. H. Lapp. 1,645,703; Oct. 18.
- Food mixer, Frame for. M. K. Akers. Des. 73,464; Sept. 20.
- Food preparing and feeding apparatus. Stock. W. R. Myers. 1,651,725; Dec. 6.
- Food preservative. C. U. Larson. 1,654,003; Dec. 27.
- Food-preserving can. E. M. Lang, jr. 3d. Rel. 6,229; May 24.
- Food product. A. K. Balls. 1,642,320; Sept. 13.
- Food product. E. G. Hess. 1,635,273; July 12.
- Food product. E. E. Kidd, jr. 1,620,898; Mar. 16.
- Food product. K. D. Loock. 1,646,021; Oct. 25.
- Food product. J. J. Reynolds. 1,647,749; Nov. 1.
- Food product. E. H. Twilight. 1,624,153; Apr. 12.
- Food product and making same. A. H. Moore. 1,634,113; June 28.
- Food product and making the same. C. Feldbusen. 1,634,123; May 31.
- Food product and preparing the same. F. E. Southway. 1,653,882; Dec. 27.
- Food product and product resulting therefrom, Preparing a. S. Gelfand. 1,631,858; June 7.
- Food product, Machine for forming a. S. H. Perky. 1,645,155; Oct. 11.
- Food products, Apparatus for treating. D. R. Bailey. 1,625,070; Apr. 19.
- Food products, Making. N. M. Cregor. 1,640,182; Aug. 23.
- Food products, Making. C. Hoffman. 1,640,193; Aug. 23.
- Food products, Preserving. J. J. Barry. 1,617,006; Feb. 8.
- Food products, Removing sulphur dioxide and compounds from. L. Rosenstein. 1,623,079; Apr. 5.
- Food products, Treating. W. W. Willison. 1,637,068; July 26.
- Foodstuffs and the like, Apparatus for processing. C. H. Burke. 1,627,770; May 10.
- Foodstuffs, Ornamenting. Martin. 1,624,670; Apr. 12.
- Food substances, Preparing. W. A. Smith. 1,627,466; May 3.
- Foods and commodities, System and means for dispensing. L. Lyndon and R. I. Blakeslee. 1,624,267; Apr. 12.

- Foods and the product obtained thereby, Method in preparing, C. Birdseye. Re16,740; Sept. 20.
 Foot accelerator, J. H. M. Michon. 1,613,764; Jan. 11.
 Foot-actuated switch. C. L. Wolfe and J. A. Faurot. 1,625,068; Apr. 19.
 Foot, Artificial. G. M. Frink. 1,628,498; May 10.
 Football. A. Klenke. 1,618,950-1; Feb. 22.
 Football cleats to shoes, Applying. W. H. Albee. 1,651,572; Feb. 26.
 Football-game apparatus. A. E. Schurch. 1,633,040; June 21.
 Football linesman's apparatus. J. J. Lipp. 1,645,707; Oct. 18.
 Football-playing device. A. B. Foans. 1,632,439; June 14.
 Football protective harness. H. Goldsmith and W. A. Sonnett. 1,640,654; Aug. 30.
 Foot control. G. R. Powell. 1,630,760; May 31.
 Foot-corrective appliance. J. B. Saums. 1,614,934; Jan. 18.
 Foot covering. B. L. Henry. 1,653,705; Dec. 27.
 Foot covering, Ornamental. H. M. G. Kónické. 1,640,898; Aug. 30.
 Foot covering, Outer. L. M. Radway. 1,651,631; Dec. 6.
 Foot for legs, Removable. A. E. Rosenthal and W. E. Clarin. 1,651,000; Nov. 29.
 Foot-measuring device. M. J. O'Sullivan. 1,636,754; July 26.
 Foot pad. W. T. Birch. 1,625,187; Apr. 19.
 Foot protector. C. E. Sankey. 1,640,669; Aug. 30.
 Foot rest. F. W. Bacon. 1,636,206; July 19.
 Foot rest. H. Borgmann. 1,642,328; Sept. 13.
 Foot rest. G. E. Long. 1,621,423; Mar. 15.
 Foot rest. A. T. Potter and A. B. Medville. 1,637,588; Aug. 2.
 Foot rest and robe container, Combination. E. R. Heller. 1,619,725; Mar. 1.
 Foot rest, Disappearing shoe-shining. W. Johnson. 1,640,239; Aug. 23.
 Foot shield. F. J. Wojcik. 1,626,489; Apr. 26.
 Footstep Examining-table. H. S. Allison. 1,649,053; Nov. 15.
 Footstool, Automatic. W. Petram. 1,618,221; Feb. 22.
 Foot support. H. R. Rogers. 1,634,516; July 5.
 Foot switch. H. P. MacLagan. 1,625,481; Apr. 19.
 Foot switch, Combination. M. M. Williams. 1,643,230; Sept. 20.
 Footwear. C. C. Loomis and H. W. Banks 3d. 1,640,948; Aug. 30.
 Footwear. H. L. Schamberg. 1,617,462; Feb. 15.
 Footwear. J. Solomon. 1,640,857; Aug. 30.
 Footwear. C. Tweedie. 1,632,570; June 14.
 Footwear, Antislip attachment for. A. P. Anderson. 1,615,498; Jan. 25.
 Footwear, Apparatus for making rubber. F. J. MacDonald. 1,629,920; May 24.
 Footwear, Apparatus for the manufacture of rubber-soled. C. H. R. Collins. 1,642,013; Sept. 13.
 Footwear, Auxiliary sole for. J. L. G. Dykes. 1,637,809; Aug. 2.
 Footwear case. K. L. Drummond. Des. 72,550; May 3.
 Footwear, Machine for the manufacture of. G. De Voight. 1,638,186; Aug. 9.
 Footwear, Preparing. W. J. De Witt. 1,633,075; June 21.
 Footwear, Rubber. H. C. Harrison. 1,634,540; July 5.
 Footwear, Visually determining the fit of. J. J. Lowe. 1,614,983; Jan. 18.
 Footings, Mold for. O. H. Townsend. 1,627,754; May 10.
 Forge mill. H. J. Olson. 1,645,770; Oct. 18.
 Force-feed lubricator. W. A. Gordon. 1,649,026; Nov. 15.
 Force-feed lubricator. J. W. Woodruff. 1,630,321; May 31.
 Force-feed lubricator, Automatic. J. W. Woodruff. 1,639,017; Aug. 10.
 Forceps, Animal. W. Hylarides. 1,619,299; Mar. 1.
 Forceps, Dental. O. Cantor. 1,626,226; Apr. 26.
 Forceps for use in the manufacture of plates used in dental prosthesis. E. Moisan. 1,614,380; Jan. 11.
 Forceps, Veterinary. G. Roney. 1,649,368; Nov. 15.
 Forging, Electric. G. A. E. Jones. 1,634,395; July 5.
 Forging balls from long bars. A. Candia. 1,638,808; July 26.
 Forging calking and yarning irons, Dies for. L. C. Baylies and H. W. Morrow. 1,651,082; Nov. 29.
 Forging machine. F. A. Halleck. 1,638,258; Aug. 9.
 Forging machine. F. A. Halleck. 1,642,201; Sept. 13.
 Forging machine. H. B. Halvorsen. 1,633,742; June 28.
 Forging machine. N. T. McKee. 1,630,399; May 31.
 Forging machine. S. T. Nelson. 1,614,040; Jan. 11.
 Forging machine. S. T. Nelson. 1,650,581-4; Nov. 22.
 Forging machine. W. H. Wineman. 1,638,225; Aug. 9.
 Forging machine. A. Zidovec. 1,622,169; Mar. 22.
 Forging mechanism. F. A. Halleck. 1,638,259; Aug. 9.
 Forging tool. R. Armour. 1,621,573; Mar. 22.
 Fork: See—
 Lifting fork. Sandwich fork.
 Power fork. Tine fork.
 Form clamp. G. F. Eppley. 1,649,552; Nov. 22.
 Form clamp. W. C. Gigzai. 1,627,087; May 8.
 Form clamp. C. T. Goude and O. Kelley. 1,648,342; Nov. 8.
 Form for shaping articles, Adjustable. W. H. Frater. 1,640,827; Aug. 30.
 Form-holding yoke. J. E. McFarland. 1,632,141; Jan. 14.
 Form-lifting mechanism. R. J. Sims. 1,618,557; Feb. 22.
 Form, Sectional. A. J. Penote. 1,632,846; June 21.
 Former and stripper, Vertical. A. J. Lewis. 1,613,281; Jan. 4.
 Forming apparatus. W. H. Ray. 1,643,088; Sept. 20.
 Forming apparatus. H. L. Ward. 1,642,755; Sept. 20.
 Forming device, Automatic coat-hanger. R. Knable. 1,616,452; Feb. 8.
 Forming objects with integral cup and shank. C. J. Rateike. 1,642,696; Sept. 20.
 Forming products from pulpy mass, Machine for. H. Ducl. 1,618,146; Feb. 15.
 Forms from structural steel, Device for hanging. O. Olsen. 1,616,275; Feb. 1.
 Formaldehyde from methylene chloride. E. Krause and K. Roka. 1,616,533; Feb. 8.
 Formaldehyde, Production of. W. C. Arsem. 1,648,602; Nov. 8.
 Formation thief. L. H. Perry and W. F. Woodman. 1,635,340; July 12.
 Fortress, Interior. C. H. Strouse. 1,631,598; July 5.
 Fortune-telling-machine casing. F. L. Mills. Des. 73,754; Nov. 1.
 Fountain: See—
 Chicken fountain. Poultry fountain.
 Drinking fountain. Soda fountain.
 Hog fountain. Stock fountain.
 Ornamental fountain.
 Fountain and animal trough, Combined drinking. H. A. Lienes. 1,632,842; June 21.
 Fountain and aquarium, Combination. C. W. Goodsman. 1,649,683; Nov. 15.
 Fountain comb. W. J. Borer. 1,645,038; Oct. 11.
 Fountain comb. A. H. Johnson. 1,629,389; May 17.
 Fountain for livestock, Drinking. J. B. Hawkins. 1,646,245; Oct. 18.
 Fountain for poultry, Sanitary drinking. E. V. Dennis. 1,613,985; Jan. 11.
 Fountain inking roll. H. W. Ehrlen and J. H. Matthews. 1,643,488; Sept. 27.
 Fountain-pen rack. J. A. Fremont and A. S. De Haven. 1,641,846; Sept. 6.
 Fountain, Bubbler head for. J. P. Heeney and J. G. Mitchell. 1,621,724; Mar. 22.
 Fountains, Cooling device for drinking. H. C. Ridler. Re16,605; Apr. 26.
 Fountains, Valve for animal drinking. A. F. Klinzing. 1,640,194; Aug. 23.
 Four-cylinder drawhead. E. Toenniesen. 1,624,815; Apr. 12.
 Fourdrinier machine and process of paper making. G. S. Witham, Jr. 1,629,607; May 24.
 Fourdrinier machines, Shaker mounting for. A. Aldrich. 1,629,087; May 17.
 Four-wheel brake. A. L. Putnam. 1,652,214; Dec. 13.
 Four-wheel brake. C. Woodruff. 1,646,335; Oct. 18.
 Bowl catcher. T. Peppard. 1,629,046; May 17.
 Frame: See—
 Airship frame. Picture frame.
 Awning frame. Printing frame.
 Babbitting frame. Quilting frame.
 Bag frame. Racket frame.
 Bed frame. Sash frame.
 Cap spinning frame. Side frame.
 Car-truck side frame. Spectacle and eyeglass frame.
 Cloth-holding frame. Spinning, twisting, and like frame.
 Cop-winding frame. Suspension frame.
 Embroidery frame. Tender frame.
 Engine frame. Toy-balloon frame.
 Grille frame. Track side frame.
 Harness frame. Truck frame.
 Hoist and tilting frame. Truck side frame.
 Inductance-coil frame. Tube frame.
 Ladder frame. Vanity-case frame.
 Lens frame. Vehicle frame.
 Locomotive frame. Window and door frame.
 Locomotive rear frame. Window frame.
 Machine frame. Window-light frame.
 Motor-vehicle frame.
 Necktie frame.
 Panel frame.
 Pencil frame.
 Picture frame.
 Printing frame.
 Quilting frame.
 Racket frame.
 Sash frame.
 Side frame.
 Spectacle and eyeglass frame.
 Spinning, twisting, and like frame.
 Suspension frame.
 Tender frame.
 Toy-balloon frame.
 Track side frame.
 Truck frame.
 Truck side frame.
 Tube frame.
 Vanity-case frame.
 Vehicle frame.
 Window and door frame.
 Window frame.
 Window-light frame.
 Frame. M. M. Gillette. 1,631,807; June 7.
 Frame and body with hood for a baby carriage, Combined. H. F. Shaw. Des. 72,500; Apr. 19.
 Frame and gutter, Combination supporting. H. A. Lutton. 1,632,081; Dec. 6.
 Frame and journal box therefor, Side. T. H. Symington. 1,620,498; Mar. 8.
 Frame and mounting. E. R. Johnson. 1,645,862; Oct. 18.
 Frame and wiper motor, Combined windshield. T. B. Polk. 1,652,150; Dec. 6.
 Frame construction. R. H. Staley. 1,653,419; Dec. 20.
 Frame for mobile units, Attachment. J. S. Oechsle. 1,653,020; Dec. 20.
 Frame for photographs, display cards, and the like. J. K. Straus. 1,634,921; July 5.
 Frame for stretching shade cloth. J. P. Whitmore. 1,618,361; Feb. 22.
 Frame or truss for instruments of precision, Adjustable. M. Munzer. 1,652,631; Dec. 13.
 Frame parts, Method and apparatus for manufacturing. H. Meltzer. 1,614,750; Jan. 18.
 Frame stretcher. W. J. Kelley. 1,636,473; July 19.

- Frame structure. W. H. Cater. 1,626,393; Apr. 26.
 Framing device. A. D. Brixey. 1,634,769; July 5.
 Framing tool and bevel protractor. S. Owen. 1,616,820; Feb. 8.
 Frames, Depth gauge and lifting mechanism for. E. M. Cole. 1,654,412; Dec. 27.
 Frames, Making floral-design. W. H. Woerner. 1,617,188; Feb. 8.
 Frames, Stop motion for drawing. W. F. J. Scott. 1,635,693; July 12.
 Frames, Suspension means for tube. E. J. Hathaway. 1,621,406; Mar. 15.
 Frankfurter-roll-forming machine. K. Scherdel. 1,631,697; June 7.
 Fraud-preventing device. D. L. Chandler. 1,619,654; Mar. 1.
 Freezing apparatus, Continuous. W. A. Heyman and W. McComb. 1,641,429; Sept. 6.
 Freezing mechanism. F. Tyson. 1,645,782; Oct. 18.
 Freezing method. R. E. Kolbe. 1,641,441; Sept. 6.
 Freezing of drainpipes, Device for preventing. S. Kraus. 1,652,784; Dec. 15.
 Freezing press. J. G. Burns and H. S. Davis. 1,620,993; Mar. 15.
 Freezing process. W. S. Glennan. 1,641,139; Aug. 30.
 Freight, Apparatus for handling. B. F. Fitch. 1,643,489; Sept. 27.
 Freight, Apparatus for handling. B. F. Fitch. 1,648,301; Nov. 8.
 Freight, Apparatus for loading and unloading. E. J. Triay, Jr., and P. L. Farmer. 1,632,253; June 14.
 Freight brake, Light and load. H. F. Bickel. 1,635,737; July 12.
 Freight-handling apparatus. A. H. Bates. 1,612,901; Jan. 4.
 Freight-handling apparatus. B. F. Fitch. 1,630,736; May 31.
 Freight hook. J. L. Valliere. 1,640,102; Aug. 23.
 Freight, Transporting. B. F. Fitch. 1,613,387; Jan. 4.
 Frequency changer. G. H. Jump. 1,637,863; Aug. 2.
 Frequency changer. W. C. Roe. 1,646,662; Oct. 25.
 Frequency changers, Arrangement for the regulation of the frequency in. K. Heegner. 1,639,695; Aug. 23.
 Frequency changes, System for indicating. E. T. Burton. 1,647,270; Nov. 1.
 Frequency-changing aggregate. R. E. Hellmund. 1,627,326; May.
 Frequency-controlling system. C. S. Demarest and M. L. Almqvist. 1,626,724; May 3.
 Frequency meter. J. W. Horton. 1,641,973; Sept. 13.
 Frequency meter. B. E. Lenehan. 1,614,202; Jan. 11.
 Frequency transformer, Long-wave or intermediate. J. H. Pressley. 1,647,372; Nov. 1.
 Fresh-air heater. W. A. Sparks. 1,635,729; July 12.
 Friction brake. J. A. Heany. 1,616,659; Feb. 8.
 Friction brake. R. C. Smith. 1,613,541; Jan. 4.
 Friction brake. R. W. Thomson. 1,643,354; Sept. 27.
 Friction-cap machine. A. Podel. 1,634,723; July 5.
 Friction coupling. F. Lobe. 1,638,773; Aug. 9.
 Friction coupling, Centrifugal. J. W. A. Elling and E. Heier. 1,650,201; Nov. 22.
 Friction coupling, Centrifugal. J. M. Hals. 1,621,366; Mar. 15.
 Friction element and making same. P. D. Greenstein. 1,649,110; Nov. 15.
 Friction gripping means. A. Cousinard. 1,617,745; Feb. 15.
 Friction lining and making the same. J. D. Rohrer. 1,640,373; Aug. 30.
 Fringe and method of making. C. B. Stretch. 1,637,882; Aug. 2.
 Frock. M. V. Brunk and D. D. Harrison. 1,637,518; Aug. 2.
 Front guide. W. M. Kelly. 1,615,174; Jan. 18.
 Front rod. S. J. Hull. 1,621,884; Mar. 27.
 Front-wheel brake. H. P. Sparks. 1,640,577; Aug. 30.
 Frost-preventing and irrigating device, Combined. R. H. Lloyd. 1,632,611; June 14.
 Fructose, Preparing. W. C. Arsem. 1,616,712; Feb. 1.
 Fructose product. W. C. Arsem. 1,616,170; Feb. 1.
 Fructose production. W. C. Arsem. 1,616,165; Feb. 1.
 Fruit and nut picker. C. Kolozs. 1,650,796; Nov. 29.
 Fruit and other articles, Machine for wrapping. R. A. Dickinson. 1,635,035; July 5.
 Fruit and solution therefor, Treating. T. M. Cramer and G. A. Connell. 1,635,461; July 12.
 Fruit and the like, Apparatus for use in packing. G. H. Thornton. 1,643,429; Sept. 27.
 Fruit and the like, Composition for treating. E. M. Brogden. 1,628,945; May 17.
 Fruit and vegetable squeezer. N. Archidiano. 1,653,831; Dec. 27.
 Fruit, Apparatus for harvesting. H. W. Bartlett. 1,626,008; Apr. 26.
 Fruit-container pad. J. H. Woodall. 1,632,722; June 14.
 Fruit-cooling device. T. F. Cooney. 1,638,798; Aug. 9.
 Fruit drier. J. T. Thomassen. 1,624,639; Apr. 12.
 Fruit grader. F. W. Cutler. 1,633,002; June 21.
 Fruit grader. E. Stebler. 1,651,847; Dec. 6.
 Fruit-grading machine. A. H. McIntyre. 1,627,246; May 8.
 Fruit in the preparation of fruit for market, Treatment of. W. R. Barger, L. A. Hawkins, and C. P. Blatz. 1,632,579; June 14.
 Fruit-juice extracting and display device. J. Fazio. 1,617,383; Feb. 15.
 Fruit-juice-extracting machine. G. N. Hughes. 1,620,551; Mar. 8.
 Fruit-juice extractor. F. Enssle. 1,634,774; July 5.
 Fruit-juice extractor. A. W. Thompson. 1,649,765; Nov. 15.
 Fruit-juice extractors, Molding. W. M. Bristol. 1,627,884; May 19.
 Fruit-juice, Making concentrated. W. M. Zorn. 1,636,890; July 26.
 Fruit, Making glacé. E. E. Jacobs. 1,631,487; June 7.
 Fruit, Method of and spray for expediting the ripening of. H. S. Avery. 1,636,452; July 19.
 Fruit-packing device. G. O. Reshaw. 1,617,963; Feb. 15.
 Fruit picker. D. Heller and A. C. Farlini. 1,640,656; Aug. 30.
 Fruit picker. N. Fryman. 1,626,402; Apr. 26.
 Fruit picker. W. D. Hughes. 1,619,731; Mar. 1.
 Fruit picker. E. Poplawsky. 1,653,412; Dec. 20.
 Fruit-picker's bag. C. T. Taylor. 1,645,360; Oct. 11.
 Fruit-picking and thinning device. D. E. Richardson. 1,642,811; Sept. 15.
 Fruit-picking apparatus. J. I. Lavagnino. 1,632,977; June 21.
 Fruit preserves, Method and manufacture of. W. B. McLaughlin. 1,634,295; July 5.
 Fruit, Preserving. O. H. Hansen. 1,625,207; Apr. 19.
 Fruit, Preserving. R. D. McMill. 1,630,129; May 24.
 Fruit, Preserving or canning. S. L. Crawford. 1,631,017; May 31.
 Fruit press. F. B. Davis. 1,653,991; Dec. 27.
 Fruit press. A. Wurdack. 1,636,204; July 19.
 Fruit-pressing machine. G. Agobian. 1,641,245; Sept. 6.
 Fruit scrubber and polisher. H. T. Demarest. 1,631,925; June 7.
 Fruit sizer. J. B. Von Canon. 1,643,190; Sept. 20.
 Fruit stemmer and cleaner. R. P. Frist. 1,617,105; Feb. 8.
 Fruit, Sulphurizing, dehydrating, and desulphurizing. R. Moore. 1,633,823; June 28.
 Fruit-tray cleaner. D. H. Gray. 1,617,756; Feb. 15.
 Fruit, Treating dried. R. D. Robinson and C. S. Ash. 1,649,488; Nov. 15.
 Fruit-tree prop-line support, Universal. J. L. Uhlik. 1,634,004; June 28.
 Fruit, Vegetable, or other edible natural or manufactured substances and making a powdered fruit, vegetable, or other edible substance or composition, Powdered soluble. C. J. Greenstreet. 1,619,202; Mar. 1.
 Fruits and vegetables and other perishable commodities for shipment, Precooling. N. H. Gay. 1,617,630; Feb. 15.
 Fruits and vegetables, Machine for mashing. V. E. Thebaud and S. Wessellius. 1,619,550; Mar. 1.
 Fruits and vegetables, Sizing machine for. J. D. Grabbill. 1,636,227; July 19.
 Fruits, etc., Machine for washing, grading and peeling. H. R. Randall and C. F. Colbert. 1,648,823; Nov. 8.
 Fruit, or canning, Machine for preparing. C. H. Ayars. 1,640,745; Aug. 30.
 Fruits, Machine for pitting drupaceous. P. Jepson. 1,617,909; Feb. 15.
 Frying apparatus. A. R. Pittman. 1,630,309; May 31.
 Frying pan and saucepan and such like vessel. E. M. Bolton. 1,632,641; May 17.
 Fuel and lubricant segregating system for internal-combustion engines. C. S. Clark. 1,618,860; Feb. 22.
 Fuel and making same. T. B. Mohler. 1,625,133; Apr. 19.
 Fuel and making same, Artificial. M. F. Maginnis. 1,615,463; Jan. 25.
 Fuel and making same, Combustible. L. Kirschbraun. 1,614,560; Jan. 18.
 Fuel and making same, Hydrocarbon. L. Kirschbraun. 1,614,559; Jan. 18.
 Fuel and making same, Motor. L. Kirschbraun. 1,614,735; Jan. 18.
 Fuel and other oils from water contaminated therewith, Apparatus for separating. E. W. Green and H. Ogden. 1,636,819; July 26.
 Fuel and producing same. C. J. Greenstreet. 1,623,241; Apr. 5.
 Fuel and producing the same, Fluid. E. J. Barth and F. Hovell. 1,638,314; Aug. 9.
 Fuel, Apparatus for burning powdered. E. Burg. 1,618,808; Feb. 22.
 Fuel, Apparatus for distributing. F. Rochefort. 1,614,493; Jan. 18.
 Fuel, Apparatus for reatomizing. E. O. Weeks. 1,650,405; Nov. 22.
 Fuel, Apparatus for the manufacture of carbonized. S. R. Hingworth. 1,648,861; Oct. 18.
 Fuel atomizer. W. Stevenson. 1,630,410; May 31.
 Fuel, Atomizer, and its manufacture. S. F. Walton. 1,618,249; Feb. 22.
 Fuel, Briquetting. P. E. Welton and G. H. Wadsworth. 1,642,055; Sept. 13.
 Fuel briquettes, Carbonizing. E. B. A. Zwoyer. 1,632,052; June 14.
 Fuel burner. G. F. Embshoff. 1,640,759; Aug. 30.
 Fuel burner. C. Fischer and A. Simonet. 1,636,597; July 19.
 Fuel burner. W. J. Haddock. 1,643,889; Sept. 27.

- Fuel burner, J. H. Hunt, J. T. Fitzsimmons, and G. F. Embushoff. 1,613,705; Jan. 11.
- Fuel burner, C. A. Willners. 1,625,635; Apr. 19.
- Fuel burner, Centrifugal fluid-. F. S. Denison. 1,627,690; May 10.
- Fuel burner, Centrifugal fluid-. F. S. Denison. 1,631,404; June 7.
- Fuel burner, Gaseous-. J. E. Kresky. 1,616,051; Feb. 1.
- Fuel burner, Liquid-. R. C. Hopkins. 1,650,627; Nov. 29.
- Fuel burners, Control system for. J. H. Stewart. 1,654,194; Dec. 27.
- Fuel burners, Fire pot for. H. A. Tedman. 1,639,153; Aug. 16.
- Fuel-burning apparatus, Liquid-. G. E. Goodridge. 1,631,859; June 7.
- Fuel-burning furnace, Finely-divided-. H. Kreisinger. 1,645,051; Oct. 18.
- Fuel burning, Method and apparatus for. H. Adams. 1,630,509; May 31.
- Fuel-burning system. B. E. Getz. 1,650,790; Nov. 29.
- Fuel, Carbonizing. G. W. Wallace. 1,639,417; Aug. 16.
- Fuel, Combustion of liquid. E. G. Hodges. 1,649,696; Nov. 15.
- Fuel combustion system, Pulverized-. C. W. E. Clarke. 1,620,191; Mar. 8.
- Fuel composition. S. P. Marley and W. A. Gruse.
- Fuel composition. H. C. Williams. 1,648,434; Nov. 8.
- Fuel, 1,645,109; Oct. 11.
- Fuel consumption indicator. R. W. Schroeder. 1,641,295; Sept. 6.
- Fuel control. M. E. Chandler. 1,623,166; Apr. 5.
- Fuel-control system. G. A. Robertshaw. 1,627,341; May 3.
- Fuel-control system, Venturi-vacuum. M. C. Bright. 1,628,629; May 10.
- Fuel, Device for vaporizing unatomized. J. W. Smith. 1,629,975; May 24.
- Fuel, Distilling and gasifying solid carbonaceous. G. W. Wallace. 1,639,391; Aug. 16.
- Fuel-distilling apparatus. F. E. Hobson. 1,614,028; Jan. 11.
- Fuel economizer. R. N. Murakami. 1,638,015; Aug. 9.
- Fuel economizer. D. Nybakke. 1,618,465; Feb. 22.
- Fuel economizer. N. J. Pettitclerc. 1,624,067; Apr. 12.
- Fuel economizer. F. H. Roth. 1,637,591; Aug. 2.
- Fuel economizer. P. S. L. West. 1,616,401; Feb. 1.
- Fuel economizer and decarbonizing device. R. R. Ross. 1,619,830; Mar. 8.
- Fuel-feed control mechanism. L. A. Witter. 1,636,582; July 19.
- Fuel-feed system, Pressure. A. E. Berdon. 1,647,768; Nov. 1.
- Fuel, Feeder for powdered. V. Z. Caracristi. 1,614,713; Jan. 18.
- Fuel feeder, Pulverized-. H. R. Collins. 1,631,119; June 7.
- Fuel feeding and metering system. T. A. Banning, jr. 1,632,515; Dec. 13.
- Fuel feeding and metering system and apparatus. T. A. Banning, jr. 1,631,356; June 7.
- Fuel-feeding device. V. A. Searles. 1,649,133; Nov. 15.
- Fuel-feeding device, Solenoid-operated. W. Van Gulder. 1,653,885; Dec. 27.
- Fuel-feeding mechanism. C. H. Quinn. 1,637,028; July 26.
- Fuel-feeding systems, Suction-producing means for. R. F. Bracke. 1,619,808; Mar. 8.
- Fuel for automotors. E. F. Chandler. 1,622,572; Mar. 29.
- Fuel for use in internal-combustion engines. S. Iserman, W. Vernet, and E. Q. Moses. 1,654,259; Dec. 27.
- Fuel furnace, Pulverized. L. H. Bergman. 1,616,828; Dec. 27.
- Fuel, Gaseous. J. Harris. 1,637,187; July 26.
- Fuel, Gaseous. J. R. Rose. 1,628,067; May 10.
- Fuel gases, Manufacture of. C. Cooper and D. M. Henshaw. 1,614,347; Jan. 11.
- Fuel, Gasifier for liquid. F. Kress. 1,638,772; Aug. 9.
- Fuel heater. C. Weinberg. 1,634,968; July 5.
- Fuel igniter, Stove-. H. W. Robbert. 1,625,870; Apr. 26.
- Fuel in furnaces, Method and apparatus for controlling the combustion of. J. W. Griswold. 1,644,123; Oct. 4.
- Fuel-injection systems, Relief mechanism for. P. L. Scott. 1,626,762; May 3.
- Fuel-inlet device, Electrically-controlled. W. J. Harkin. 1,615,512; Jan. 25.
- Fuel, Machine for the production of powdered. C. E. Blyth. 1,649,147; Nov. 15.
- Fuel, Manufacture of agglomerated. L. Liai. 1,630,662; May 31.
- Fuel material and producing same, Binding. T. Nagel. 1,626,208; Apr. 26.
- Fuel, Method and apparatus for burning. D. S. Jacobus. 1,630,387; May 31.
- Fuel, Method and apparatus for carbonization of subdivided. S. McEwen. 1,648,856; Nov. 8.
- Fuel, Method of and apparatus for preparing, feeding, and burning pulverized. L. H. Bergman. 1,627,766; May 10.
- Fuel mixer. H. Bornhelm. 1,630,161; May 24.
- Fuel mixer. C. D. Price. 1,623,964; May 24.
- Fuel mixer, Ball-bearing. B. E. Dyer. 1,614,665; Jan. 18.
- Fuel mixer, Gaseous-. U. Telesky. 1,639,579; Aug. 16.
- Fuel-mixing device. V. Krefl. 1,614,477; Jan. 18.
- Fuel mixtures, Homogenizing fluid-. W. A. Edwards. 1,627,161; May 8.
- Fuel oils, Apparatus for burning. C. E. Chapman. 1,629,774; May 24.
- Fuel, Regulator, Automatic. L. Ferrette. 1,644,717; Oct. 11.
- Fuel saver. A. L. Strong. 1,642,831; Sept. 20.
- Fuel-saving device. N. J. Russell. 1,613,907; Jan. 11.
- Fuel-stoking device. C. H. Hall and W. Lloyd. 1,638,396; May 9.
- Fuel-supply device. C. F. Ketterling. 1,624,139; Apr. 12.
- Fuel-supply device, Reserve-. M. B. Harris. 1,613,703; Jan. 11.
- Fuel-supply indicator. J. G. Paty. 1,654,307; Dec. 27.
- Fuel-supply mechanism for motor vehicles, Liquid-. E. Bossi. 1,633,539; Sept. 27.
- Fuel-supply system. T. F. Dorsey. 1,623,049; Apr. 5.
- Fuel-supply tank. C. W. Ackerman. 1,653,607; Dec. 27.
- Fuel-supply tanks and the like, Indicator for. J. D. Durant. 1,623,832; Apr. 5.
- Fuel tank. S. J. Bens. 1,633,062; June 21.
- Fuel tank. C. C. Cambridge. 1,643,237; Sept. 20.
- Fuel tank, Motor-vehicle. J. T. Roatan and E. Bedford. 1,640,722; Aug. 30.
- Fuel tanks and the like, Fire-preventing cover for. E. G. Garcia. 1,637,298; July 26.
- Fuel tanks, Maintaining a reserve supply of fuel in. J. L. Starr. 1,638,046; June 21.
- Fuel-testing apparatus. E. H. Belknap. 1,643,617; Sept. 27.
- Fuel vaporizer. W. Brown. 1,614,543; Jan. 18.
- Fuel vaporizer. M. J. Cain. 1,653,758; Dec. 27.
- Fuel vaporizer. A. J. Coppock. 1,632,951; June 21.
- Fuel vaporizer. W. E. Shore. 1,627,671; May 10.
- Fuel vaporizer, Liquid-. J. Hutchinson. 1,624,249; Apr. 12.
- Fuel, Vaporizing. C. F. Larzelere and C. H. Neumeyer. 1,623,253; Apr. 5.
- Fuels, Treating artificial. H. E. Wetherbee and W. L. Jacobus. 1,635,520; July 12.
- Fuel, Treating, low-compression. C. F. Ketterling and T. Midgley, jr. 1,635,216; July 12.
- Fulcrum, Reversible. C. A. Benz and E. E. Van Cleave. 1,613,014; Jan. 4.
- Fulled woven fabric. E. Mundorf. 1,615,517; Jan. 25.
- Fuller's earth, Furnace for the treatment of spent. R. E. Wilson. 1,630,044; May 24.
- Fuller's earth, Revivifying. L. A. Tarbox. 1,613,299; Jan. 4.
- Fulling mill. E. J. Wilson. 1,645,210; Oct. 11.
- Fume control, Process and device for. R. S. Perry. 1,650,152; Nov. 22.
- Fume disposal apparatus for workbenches. J. Lindburg. 1,624,107; Apr. 12.
- Fumigant. R. C. Roark. 1,649,254; Nov. 15.
- Fumigant, Container for dissipating a. W. A. Drushel. 1,630,837; May 31.
- Fumigating. W. L. Landis and G. H. Buchanan. 1,613,590; Jan. 4.
- Fumigating. E. C. Moffett. 1,613,186; Jan. 4.
- Fumigating apparatus. P. M. Gross and R. B. Arnold. 1,634,354; July 5.
- Fumigating apparatus. J. D. Neuls. 1,618,775; Feb. 22.
- Fumigating, Apparatus for. J. D. Neuls. 1,614,015; Jan. 26.
- Fumigating, decolorizing, and the like treatment of air, Apparatus for. F. C. Andrew. 1,614,817; Jan. 18.
- Fumigation applicator. K. F. Cooper. 1,642,920; Sept. 20.
- Fumigicide. J. O. Burt. 1,640,026; Aug. 23.
- Fumigicide. R. B. Derr. 1,638,089; Aug. 9.
- Fungicide. I. H. H. Jacobsen. 1,617,255; Feb. 8.
- Fungicide and preparing same. J. H. Reedy and W. S. Brock. 1,620,229; Mar. 8.
- Fungicide containing copper and making the same. J. D. Jenkins and E. F. Berger. 1,642,370; Sept. 13.
- Funnel. F. H. Hampton. 1,618,551; Feb. 22.
- Funnel. J. H. Le Bel. 1,638,446; Aug. 9.
- Funnel. J. H. Mooney. 1,651,663; Dec. 6.
- Funnel. P. T. Murphy. 1,622,801; Mar. 29.
- Funnel. W. H. Sigley. 1,636,789; July 26.
- Funnel, Filter. K. G. Fraser. 1,627,083; May 3.
- Funnel, Mold-charge-delivery. D. P. Weaver. 1,629,940; May 24.
- Funnel screen. R. A. Blunck. 1,650,317; Nov. 22.
- Fur and treating the same, Carrotting. P. C. Donner. 1,625,458; Apr. 19.
- Fur-bearing sheets used in the manufacture of garments and garment trimmings, Producing. H. Wasserman. 1,637,885; Aug. 2.
- Fur, Carrotting. J. H. Martin. 1,630,663; May 31.
- Fur-dressing machine. J. Czortkowski. 1,649,216; Nov. 15.
- Fur, Dyeing. R. R. Balut. 1,648,889; Nov. 15.
- Fur for shrinking and felting, Preparation of. J. H. Martin. 1,630,664; May 31.
- Fur-pelt stretcher. M. W. Meek. 1,635,557; July 12.
- Fur pelts, Producing. L. Hofmeister. 1,622,720; Mar. 29.
- Fur-sewing machines, Needle plate for. H. Ross. 1,631,605; June 7.
- Fur skins, Spreading and stretching device for the treatment of. H. Pacquet. 1,642,214; Sept. 13.
- Fur stretcher. N. Miller. 1,645,961; Oct. 18.
- Fur stretching and nailing device. S. Friedman. 1,628,588; May 10.

- Fur testing and cutting device. E. Müller. 1,645,391; Oct. 11.
- Furs, Apparatus for cutting. C. J. Solomon. 1,621,285; Mar. 16.
- Furs, Skeleton form for headpieces of. J. Peltzer. 1,636,575; July 19.
- Furnace, Manufacture of. W. C. Wilson. 1,636,030; July 19.
- Furnace: See—
- Air-heating furnace. Liquid-fuel furnace.
 - Annealing furnace. Melting furnace.
 - Annealing or heating furnace. Metal furnace.
 - Blast furnace. Metallurgical furnace.
 - Boiler furnace. Muffle furnace.
 - Cupola furnace. Normalizing furnace.
 - Dentist's furnace. Oil-burning furnace.
 - Drill-heating furnace. Open-hearth furnace.
 - Dross furnace. Ore furnace.
 - Electric furnace. Recuperative furnace.
 - Flame-arc furnace. Refuse furnace.
 - Flux-burning furnace. Regenerative furnace.
 - Galvanizing furnace. Resistance furnace.
 - Gas-heated furnace. Retort furnace.
 - Glass furnace. Reverbatory furnace.
 - Glass-tank furnace. Roasting furnace.
 - Heat-treating furnace. Rotary furnace.
 - Heating furnace. Smelting furnace.
 - Hot-air furnace. Stoker furnace.
 - Hot-water furnace. Underfed stoker furnace.
 - Incandescence furnace. Wall furnace.
 - Induction furnace. Welding furnace.
- Furnace. J. C. Anderson. 1,650,886; Nov. 29.
- Furnace. J. F. Baker. 1,638,908; Aug. 16.
- Furnace. H. Bangert. 1,649,648; Nov. 15.
- Furnace. E. Barclinan. 1,631,116; June 7.
- Furnace. J. J. Boesch. 1,645,223; Oct. 11.
- Furnace. C. Bollinger. 1,625,450; Apr. 19.
- Furnace. J. Boucek and J. Halick. 1,630,162; May 24.
- Furnace. A. G. Boyd. 1,623,087; Apr. 5.
- Furnace. J. L. Breese, jr. 1,627,591; May 10.
- Furnace. A. A. Bruder. 1,647,382; Nov. 1.
- Furnace. R. K. Dawson. 1,620,805; Mar. 15.
- Furnace. O. de Lorenzi. 1,620,447; May 17.
- Furnace. W. C. Drake. 1,621,241; Mar. 15.
- Furnace. S. F. Egloff. 1,647,987; Nov. 8.
- Furnace. F. A. Fahrenwald. 1,624,043; Apr. 12.
- Furnace. I. W. Foltz. 1,642,019; Sept. 13.
- Furnace. J. W. Freeman. 1,632,730; June 14.
- Furnace. S. French. 1,620,583; Mar. 15.
- Furnace. F. E. Grunwaldt. 1,621,066; Mar. 15.
- Furnace. A. D. Keene. 1,638,937; Aug. 16.
- Furnace. C. F. Kenworthy. 1,617,056; Feb. 8.
- Furnace. A. B. Kidder. 1,615,087; Jan. 18.
- Furnace. W. H. Lartz. 1,618,346; Feb. 22.
- Furnace. W. E. Lewis and D. W. Williams. 1,622,595; Mar. 29.
- Furnace. F. A. Lippert. 1,613,615; Jan. 11.
- Furnace. M. F. May. 1,615,197; Jan. 18.
- Furnace. J. McLean. 1,624,962; Apr. 19.
- Furnace. A. P. Nelson. 1,616,196; Feb. 1.
- Furnace. N. Otis. 1,646,666; Mar. 18.
- Furnace. W. J. Pees. 1,629,586; May 24.
- Furnace. I. S. Pieters. 1,637,159; July 26.
- Furnace. A. L. Schellhammer. 1,615,236; Jan. 25.
- Furnace. M. L. Severson. 1,641,869; Sept. 6.
- Furnace. J. F. O. Stratton. 1,640,056; Aug. 23.
- Furnace. J. F. O. Stratton. 1,640,158; Aug. 23.
- Furnace. H. Tielkemeyer. 1,650,749; Nov. 29.
- Furnace. A. J. M. A. R. van der Does de Bije. 1,625,954; Apr. 26.
- Furnace. F. H. Waite and G. W. Davey. 1,647,160; Nov. 1.
- Furnace. U. Wedge. 1,653,681; Dec. 27.
- Furnace. G. C. Weideman. 1,626,876; Apr. 26.
- Furnace. G. D. White. 1,629,608; May 24.
- Furnace adapted for the heating and the unwinding of rolls of wire. A. F. Jacquemin. 1,642,613; Sept. 13.
- Furnace and apparatus for utilizing shale or other bituminous materials. S. V. Bergh. 1,618,566; Feb. 22.
- Furnace and boiler cleaner. F. E. Roberts. 1,647,817; Nov. 1.
- Furnace and cooling device. T. E. Murray. 1,623,746; Apr. 5.
- Furnace and ignition means therefor, Oil-burning. J. L. Breese, jr. 1,633,567; June 28.
- Furnace and operating the same. F. W. Brooke. 1,626,263; Apr. 26.
- Furnace and operating the same. A. L. Culbertson. 1,637,473; Aug. 2.
- Furnace and preparing the same, Enameling. F. W. Manker. 1,640,011; Nov. 8.
- Furnace and thermostatic control therefor, Oil-burning. J. L. Breese, jr. 1,633,066; June 21.
- Furnace apparatus. J. E. Bell. 1,616,675; Feb. 8.
- Furnace apparatus. J. E. Bell. 1,636,119; July 19.
- Furnace arch. M. Bainter. 1,644,166; Oct. 4.
- Furnace arch. L. Hamitov. 1,636,665; July 19.
- Furnace-arch and coking-shelf structure. C. J. Huber. 1,627,741; May 10.
- Furnace-arch construction. L. H. Hosbein. 1,629,706; May 24.
- Furnace-arch construction. L. H. Hosbein and R. D. Foltz. 1,628,318; May 10.
- Furnace-arch construction. A. O. Jackson. 1,617,759; Feb. 15.
- Furnace-arch construction. N. D. Stevens and L. H. Hosbein. 1,628,294; May 10.
- Furnace attachment. C. J. Knaggs. 1,648,950; Nov. 15.
- Furnace boning. A. G. Scherer. 1,615,588; Feb. 1.
- Furnace casing. C. D. Hyatt. 1,634,543; July 5.
- Furnace-charging apparatus. C. A. Wulf. 1,641,651; Sept. 6.
- Furnace circuit, High-frequency. F. Gerth and W. Fischer. 1,642,198; Sept. 13.
- Furnace construction. A. E. Grunert and A. D. Bailey. 1,614,237; Jan. 11.
- Furnace construction. A. E. Grunert and A. D. Bailey. 1,614,295; Jan. 11.
- Furnace construction. F. H. Waite and G. W. Davey. 1,647,161; Nov. 1.
- Furnace construction. F. H. Waite and G. W. Davey. 1,647,488; Nov. 1.
- Furnace-door fastener. H. W. Morrell. 1,642,621; Sept. 13.
- Furnace-door-operating device. D. S. Tewksbury and A. E. Newton. 1,613,490; Jan. 4.
- Furnace for electrical treatment of gases for the purpose of oxidation of atmospheric nitrogen or for other purposes. B. Thomas. 1,634,311; July 5.
- Furnace for heating or melting metals. A. Ziliacus. 1,643,569; Sept. 27.
- Furnace for melting and refining glass and other like purposes. J. S. Shaw. 1,636,151; July 19.
- Furnace for melting glass, Regenerative. R. D. Pike. 1,653,507; Dec. 20.
- Furnace for supplying drying gases. D. E. Mansfield. 1,629,921; May 24.
- Furnace for the treatment of pulverulent granular or pulpy material. L. Honigmann and F. Bartling. 1,634,027; June 28.
- Furnace for treating refractory ores containing precious metals. G. W. B. Evans. 1,636,467; July 19.
- Furnace front. J. A. Phelan. 1,643,902; Sept. 27.
- Furnace-fuel-feeding apparatus. T. Johnson. 1,633,640; June 28.
- Furnace-grate-bar construction. D. Mellor. 1,646,700; Oct. 25.
- Furnace having tile burners, Gas-fired. H. O. Loebell. 1,653,864; Dec. 27.
- Furnace humidors, Automatic water feed for hot-air. J. B. Mitulski. 1,652,451; Dec. 13.
- Furnace igniter. F. P. Terry. 1,631,348; June 7.
- Furnace. G. G. Groll. 1,647,033; Oct. 25.
- Furnace lining. D. L. Summey. 1,643,425; Sept. 27.
- Furnace method, Blast. F. W. Davis. 1,640,485; Aug. 30.
- Furnace or stove, Heating. G. Striffler. 1,626,034; Apr. 26.
- Furnace radiator. W. J. Weiland. 1,641,211; Sept. 6.
- Furnace-radiator-fue cleaner. E. W. Cleveland. 1,635,810; July 12.
- Furnace radiator, Warm-air. H. Jaegler. 1,628,780; May 17.
- Furnace regulation. G. H. Gibson. 1,627,893; May 10.
- Furnace regulation. C. H. Smoot. 1,630,977; May 31.
- Furnace regulator. J. Goldberg. 1,636,906; July 26.
- Furnace-regulator unit. A. H. McCulloch. 1,615,021; Jan. 18.
- Furnace resistor, Electric. T. A. Reid. 1,645,293; Oct. 11.
- Furnace resistor mounting. J. C. Woodson. 1,617,361; Feb. 15.
- Furnace-roof construction. G. F. Lenk. 1,629,668; May 24.
- Furnace-roof structure. D. A. Benson. 1,623,860; Apr. 5.
- Furnace structure, Air-cooled. F. H. Waite and G. W. Davey. 1,646,603; Oct. 25.
- Furnace system, Electric. J. Beckmann. 1,631,667; June 7.
- Furnace wall. M. Liptak. 1,639,138; Aug. 16.
- Furnace wall. B. H. Snow. 1,627,349; May 3.
- Furnace wall. C. A. Strachota. 1,639,711; Aug. 23.
- Furnace wall. F. H. Waite and G. W. Davey. 1,646,944; Oct. 25.
- Furnace-wall air plate. I. A. Taylor. 1,619,445; Mar. 1.
- Furnace-wall construction. R. S. Riley. 1,624,009; Apr. 12.
- Furnace-wall construction, Corner-fill. G. P. Reintjes. 1,619,270; Mar. 1.
- Furnace wall, Cooled. F. B. Bigelow. 1,636,894; July 26.
- Furnace-wall protection. H. Kreislinger. 1,649,121; Nov. 15.
- Furnace wall, Ventilated. M. Liptak. 1,635,851; July 12.
- Furnace-water-pan construction. J. P. Kolla. 1,619,261; Mar. 1.
- Furnace with blast heater. E. Vanderstein. 1,649,201; Nov. 15.
- Furnaces. Air-draft system for. J. Reid. 1,646,111; Oct. 18.
- Furnaces, Air indicating and regulating apparatus for. R. L. Blanchard. 1,640,921; Aug. 30.
- Furnaces. Air-moistening apparatus for hot-air. D. Handelan. 1,632,836; June 21.
- Furnaces and other apparatus. Controlling the temperature in. N. H. Freeman. 1,614,723; Jan. 18.

- Furnaces and the like, Charging apparatus for. H. O. C. Isenberg and W. Flernay, 1,618,011; Feb. 15.
- Furnaces and the like, Lining for blast. W. A. Stuart, 1,632,633; June 14.
- Furnaces and the like, Temperature regulator for. G. W. McKee, 1,645,506; Oct. 11.
- Furnaces, Apparatus for reversing and controlling regenerative. G. H. Isley, 1,635,939; July 12.
- Furnaces, Apparatus for supplying fuel oil to. A. C. Bennett, 1,637,368; Aug. 2.
- Furnaces, Arrangement of the gas and air passages in reverberatory. H. Moll, 1,653,405; Dec. 20.
- Furnaces, Automatic air moistener for hot-air. K. W. Larkin, 1,614,478; Jan. 18.
- Furnaces, Automatic humidifier for warm-air. A. H. Kunder, 1,641,172; Sept. 6.
- Furnaces, Automatic regulating apparatus for electric. E. Wirz, 1,646,048; Oct. 18.
- Furnaces, Auxiliary heater for. E. F. Diehm, 1,636,173; July 19.
- Furnaces, Baffle wall for. M. Liptak, 1,642,254; Sept. 13.
- Furnaces, Burner for. W. G. Bergman, 1,634,445; July 5.
- Furnaces, Chain grate for. A. L. Morgan, 1,631,282; June 7.
- Furnaces, Control for electric. E. C. Glitzke, 1,650,624; Nov. 29.
- Furnaces, Control for fluid-fuel. H. J. Sauvage, 1,643,859; Sept. 27.
- Furnaces, Cut-out for electric. E. L. Smalley, 1,651,972; Dec. 6.
- Furnaces, Damper regulator for. B. J. Tryner, 1,636,537; July 19.
- Furnaces, Device for aiding combustion in. J. W. George, 1,617,943; Feb. 15.
- Furnaces, Electrode control for arc. T. F. Bailly, 1,634,483; July 5.
- Furnaces, Electrode device for electric. O. Sandvold, O. Rye, and O. Platon, 1,617,136; Feb. 8.
- Furnaces, Electrode mechanism for electric. A. E. Greene, 1,616,797-8; Feb. 8.
- Furnaces, Feed-chute plate for hot-air. J. C. Mobley, 1,646,209; Oct. 18.
- Furnaces, Fire arch or. L. S. Abbott, 1,612,795; Jan. 4.
- Furnaces, Fire door for. J. G. Robinson, 1,628,274; May 10.
- Furnaces, Foot warmer for. W. A. Griswold, 1,647,828; Nov. 1.
- Furnaces, Heating. F. Helbig, 1,625,082; Apr. 19.
- Furnaces, Lining material for alkali-recovery. J. Beveridge, 1,619,785; Mar. 1.
- Furnaces, Operating electric. S. Arnold, 3d, 1,629,196; May 17.
- Furnaces, Operating heating. T. J. Costello, Re16,527; Jan. 11.
- Furnaces, Operation of fume. G. H. Waring, 1,652,224; Dec. 13.
- Furnaces or groups of furnaces, Automatic regulator of the rate of combustion in boiler. E. Roučka, 1,650,094; Nov. 22.
- Furnaces, Port cooler for open-hearth. E. Williams, 1,648,157; Nov. 8.
- Furnaces, Pouring apparatus for glass. D. S. Beebe, 1,648,601; Sept. 27.
- Furnaces, Pouring device for glass. A. H. Carpenter and P. C. Huntley, 1,630,829; May 31.
- Furnaces, Protective curtain for. J. L. Schultz, 1,638,004; Aug. 2.
- Furnaces, Rabble and rabble arm for. F. A. Fahrenwald, 1,628,495; May 10.
- Furnaces, Replaceable liner for reverberatory. B. R. Kinney, 1,645,011; Oct. 11.
- Furnaces, Resistor mounting for electric. J. C. Woodson, 1,636,368; May 31.
- Furnaces, Station for steam and hot-water. C. Phelps, 1,615,292; Jan. 25.
- Furnaces, Side-wall construction for. R. S. Riley, 1,624,803; Apr. 12.
- Furnaces, Smoke-pipe connection for. D. Meyer, 1,641,825; Sept. 6.
- Furnaces, Splasher plate for blast. J. L. Mauthe, 1,640,663; Aug. 30.
- Furnaces, Tank block for glass. J. L. Crawford, 1,630,892; May 31.
- Furnaces, Tapping plug for metallurgical. D. Cushing, 1,651,445; Dec. 6.
- Furnaces, Waste-heat boiler for regenerative. B. P. Wheeler, 1,625,112; Apr. 19.
- Furnaces, Water-cooled roof for reverberatory. M. Corcoran, 1,635,819; July 12.
- Furnaces, Water-heating attachment for hot-air. C. J. Cristol, 1,649,660; Nov. 15.
- Furniture, F. Bowman and E. Ellis, 1,631,002; May 31.
- Furniture and protecting same, Upholstered. E. J. Edwards, 1,636,465; July 19.
- Furniture, Antifriction tip for. F. Macey, 1,626,946; May 3.
- Furniture, Article of. F. C. and J. A. Vittengl, 1,642,633; Sept. 13.
- Furniture brace. S. G. Bolin, 1,630,521; May 31.
- Furniture cabinet. E. T. Larocque, 1,613,662; Jan. 11.
- Furniture, Combination. J. W. Fryer, 1,632,790; June 21.
- Furniture, Combination. P. G. Gardner, 1,618,922; Feb. 15.
- Furniture, Combination. W. F. Turner, 1,618,737; Feb. 22.
- Furniture, Combination. M. P. Zostas, 1,648,529; Nov. 8.
- Furniture, Combination article of. J. Beck, 1,645,683; Oct. 18.
- Furniture construction. E. Morris, 1,633,345; June 21.
- Furniture construction. T. H. Wittliff, 1,651,430; Dec. 6.
- Furniture, Convertible. J. A. Arton, 1,637,797; Aug. 2.
- Furniture for paper-box dies and type compositions. W. W. Shinnick, 1,655,964; July 12.
- Furniture Hospital. W. W. Morey and E. R. Armstrong, 1,650,293; Nov. 22.
- Furniture-joint-securing means. C. L. Kessler, 1,649,903; Nov. 22.
- Furniture leg slide. W. H. Noelting, 1,638,359; Aug. 9.
- Furniture, Metal. H. Laughlin, 1,647,919; Nov. 1.
- Furniture, Store. H. A. Albett, 1,645,470; Oct. 11.
- Furniture, Store. W. P. Bott, 1,615,438; Jan. 25.
- Furniture trim and keeper. W. H. Noelting and A. I. Brokaw, 1,622,735; Mar. 29.
- Furniture, Wall. H. G. Talbott, 1,633,423; June 21.
- Furred skins, Machine for dressing. R. Olds, 1,649,725; Nov. 15.
- Furring and fastening device. L. Hommel, 1,638,853; Aug. 16.
- Furring and fastening device. J. L. Sullivan, 1,649,625; Nov. 15.
- Furring construction. G. F. Pawling, 1,625,865; Apr. 26.
- Furring plate. G. F. Voight, 1,618,132; Feb. 15.
- Furrow tapper. J. C. Snively, 1,649,622; Nov. 15.
- Furrowing machine. R. Hill, 1,627,973; May 10.
- Furs and leather, Tanning and dyeing. V. Zettlitz, 1,649,502; Nov. 15.
- Furs, skins, hairs, feathers, or the like, Dyeing. O. Kaltwasser and H. Kirchhoff, 1,643,246; Sept. 20.
- Fuse. C. E. Bennett, 1,631,851; June 7.
- Fuse. R. S. Blake, 1,649,561; Nov. 15.
- Fuse. C. W. Engelman, 1,624,322; Apr. 12.
- Fuse. G. P. McDonnell, 1,650,996; Nov. 29.
- Fuse. E. L. Ogle, 1,645,541; Oct. 18.
- Fuse. E. L. Ogle, 1,646,629; Oct. 25.
- Fuse, Aerial-bomb. F. W. Bold, 1,639,075; Aug. 16.
- Fuse and fuse holder. Electric. A. J. Bowie, 1,614,646; Jan. 18.
- Fuse and junction block. J. A. Wilhelm, 1,650,252; Nov. 22.
- Fuse-attachment plug, Renewable. F. R. Frakes, 1,648,746; Nov. 8.
- Fuse block, Electric terminal. J. M. Gunn, 1,638,257; Aug. 9.
- Fuse, Centrifugal. B. Pantoflíček, 1,614,537; Jan. 18.
- Fuse, Centrifugal. B. Pantoflíček, 1,618,944; Feb. 22.
- Fuse cut-out, Automatic. J. W. Nolan, 1,614,533; Jan. 18.
- Fuse, Detonating. J. S. Barker, 1,648,603; Nov. 8.
- Fuse, Detonating. N. Greenway, 1,650,590; Dec. 6.
- Fuse, Electric. R. H. D. Barkle, 1,644,626; Oct. 4.
- Fuse, Electric. G. R. Brown, 1,621,349; Mar. 15.
- Fuse, Electric. G. R. Brown, 1,631,669; June 7.
- Fuse, Electric. T. E. Murray, 1,614,014; Jan. 11.
- Fuse, Electric. J. F. Wentz, 1,618,251; Feb. 22.
- Fuse, Electrical. D. G. Robinson, 1,633,955; June 28.
- Fuse, Explosion-proof. W. W. Sloane, 1,619,640; Mar. 1.
- Fuse for projectiles. V. Schläfer, 1,637,964; Aug. 2.
- Fuse for projectiles, aerial bombs, and the like, Percussion. L. E. Rémondy, 1,650,300; Nov. 22.
- Fuse holder. A. W. Fisher, 1,651,055; Nov. 29.
- Fuse, Low-capacity. E. V. Sundt, 1,626,105; Apr. 26.
- Fuse mechanism. H. G. Barker, 1,633,971; June 28.
- Fuse medium. F. A. Feldkamp, 1,629,266; May 17.
- Fuse, Multiple. C. E. Stoltz, 1,616,148; Feb. 1.
- Fuse or circuit-testing device, Electric. F. A. Feldkamp, 1,615,788; Jan. 25.
- Fuse, Percussion. B. Pantoflíček, 1,652,835; Dec. 13.
- Fuse plug. L. J. Cahn, 1,639,077; Aug. 16.
- Fuse plug. N. W. Nutt, 1,650,462; Nov. 15.
- Fuse plug. J. C. Tournier, 1,633,832; June 28.
- Fuse plug. O. H. Van Amburg, 1,623,819; Apr. 5.
- Fuse plug. L. Vecchio, 1,616,771; Feb. 8.
- Fuse plug and receptacle. R. H. Williams, 1,624,030; Apr. 12.
- Fuse plug and socket. C. B. Jones, 1,634,905; July 5.
- Fuse plug-cap assembly. N. W. Nutt, 1,637,274; July 26.
- Fuse-plug holder. W. W. Weida, 1,636,550; July 19.
- Fuse plug, Multiple. F. W. Williams, 1,644,969; Oct. 11.
- Fuse plug, Renewable. H. J. Wheeler, 1,634,810; July 5.
- Fuse plug, screw type, with indicator. J. B. Glowacki, 1,636,182; July 19.
- Fuse puller. C. A. Pendleton, 1,638,703; Aug. 9.
- Fuse, Renewable. P. A. Savoy, 1,632,316; June 14.
- Fuse, Safety. G. Y. Tange, 1,642,567; Sept. 13.
- Fuse-setting machine. G. W. Beatty, 1,640,392; Aug. 30.
- Fuse switch, Blasting. T. Spears, 1,651,479; Dec. 6.
- Fuse switch, Repeating. L. B. Green, 1,652,782; Dec. 13.
- Fusing material and delivering the same. L. H. Moulthrop, 1,652,409; Dec. 13.
- Fuses, Manufacturing water-tight electric. N. Schmitt, 1,641,210; Jan. 11.
- Fuses, Testing. S. Palmer, 1,645,346; Oct. 11.

- Fuses within guns, Mechanism for setting. J. C. Karnes. 1,631,211; June 7.
- Fusible element. D. N. Hickok. 1,629,102; May 17.
- Fusible material, Machine for working cylindrical members of. P. A. Favre. 1,631,674; June 7.
- Fusible solids, Communicating. C. Marx. 1,614,566; Jan. 18.
- Gaiter. H. Bunnenberg. 1,621,153; Mar. 15.
- Galley-slug adjuster. R. T. Bunn. 1,643,540; Sept. 27.
- Galvanic cell. H. D. Nyberg. 1,624,845; Apr. 12.
- Galvanic cell and electrode therefor, Primary. G. W. Gause and E. A. Schumacher. 1,615,839; Feb. 1.
- Galvanizing apparatus. L. A. Wynd and J. L. Schueler. 1,630,508; May 31.
- Galvanizing furnace. H. E. Gilbert. 1,649,824; Nov. 22.
- Galvanometer. R. Mechau. 1,616,754; Feb. 8.
- Galvanometer and like recording instrument. J. Riddle. 1,626,694; May 3.
- Galvanoplasty. A. B. Biddle. 1,624,575; Apr. 12.
- Gambrel. O. E. Fuller. 1,622,102; Mar. 22.
- Gambrel. C. H. Mickelson. 1,636,312; July 19.
- Gambrel. D. L. Millsap. 1,636,751; July 26.
- Gambrel. V. Stark. 1,641,508; Sept. 6.
- Gambrel, Butcher's. G. Demmer. 1,624,320; Apr. 12.
- Game. H. S. Abel. 1,632,941; June 21.
- Game. E. C. Alfonso. 1,642,711; Sept. 20.
- Game. F. R. Baer. 1,632,640; June 14.
- Game. P. M. Bendtin. 1,652,851; Dec. 13.
- Game. W. H. Booth. 1,620,866; Mar. 15.
- Game. W. L. Buedding. 1,653,545; Dec. 20.
- Game. C. H. Clark. 1,631,009; May 31.
- Game. O. J. Doerre. 1,616,435; Feb. 8.
- Game. H. Dupuis. 1,615,218; Jan. 25.
- Game. L. Espitallier. 1,633,887; June 28.
- Game. L. W. Farquhar. 1,617,382; Feb. 15.
- Game. B. R. Gilmore. 1,638,094; Aug. 9.
- Game. J. J. Goldthorpe. 1,627,501; May 3.
- Game. C. W. Grant. 1,631,087; May 3.
- Game. R. H. Haughton. 1,617,250; Feb. 8.
- Game. R. and I. W. Jacobs. 1,636,694; July 26.
- Game. J. Katz. 1,650,840; Nov. 29.
- Game. Z. N. Kornahrens. 1,622,156; Mar. 22.
- Game. J. I. Lee. 1,628,243; Apr. 26.
- Game. J. Mayer. 1,623,883; Apr. 5.
- Game. M. J. McColm. 1,635,459; July 12.
- Game. G. Ménard. 1,617,266; Feb. 8.
- Game. M. L. Nedds. 1,613,526; Jan. 4.
- Game. E. C. Nichols. 1,636,920; July 26.
- Game. L. D. Nix. 1,616,328; Feb. 1.
- Game. H. K. Owyre. 1,624,970; Apr. 19.
- Game. H. W. Peterson. 1,613,530; Jan. 4.
- Game. G. H. Reuz. 1,637,278; July 26.
- Game. L. L. Russell. 1,624,282; Apr. 12.
- Game. L. L. Russell. 1,649,082; Nov. 15.
- Game. E. H. Shore. 1,641,015; Aug. 30.
- Game. J. D. Smith. 1,620,999; Mar. 8.
- Game. J. B. Soose. 1,623,073; May 10.
- Game. L. B. Spafford. 1,620,742; Mar. 15.
- Game. P. P. Yejoff. 1,613,974; Jan. 11.
- Game. Ability. A. Biberfeld. 1,636,893; July 26.
- Game, Advertising. J. F. O'Brien. 1,648,360; Nov. 8.
- Game and apparatus for playing the same. H. R. Bell. 1,616,632; Feb. 1.
- Game, Animated-figure scoring. H. A. Okel. 1,620,912; Mar. 15.
- Game apparatus. A. A. Allinger. 1,628,446; May 10.
- Game apparatus. L. G. Brinkman. 1,625,980; Apr. 26.
- Game apparatus. B. A. Bristow. 1,637,517; Aug. 2.
- Game apparatus. V. P. Brun. 1,652,270; Dec. 13.
- Game apparatus. I. L. Dempsey. 1,616,216; Feb. 1.
- Game apparatus. J. T. Dwyer. 1,629,907; May 21.
- Game apparatus. W. A. Felton. 1,634,180; June 28.
- Game apparatus. T. Flanagan. 1,617,243; Feb. 8.
- Game apparatus. W. W. Gail and F. B. Connelly. 1,633,445; June 21.
- Game apparatus. B. Gouldin. 1,615,077; Jan. 18.
- Game apparatus. G. A. Heimer. 1,632,792; June 21.
- Game apparatus. I. Herbinson. 1,633,210; June 21.
- Game apparatus. S. Hisanokubo. 1,629,383; May 17.
- Game apparatus. S. Hummerson. 1,629,386; May 17.
- Game apparatus. C. G. Littlefield. 1,642,119; Sept. 13.
- Game apparatus. C. A. Madden. 1,616,270; Feb. 1.
- Game apparatus. D. C. Mader. 1,622,330; Mar. 29.
- Game apparatus. A. A. Rees. 1,637,010; July 26.
- Game apparatus. W. Rott. 1,649,740; Nov. 15.
- Game apparatus. T. A. Sayegh. 1,627,120; May 3.
- Game apparatus. E. J. Scarseth. 1,612,946; Jan. 4.
- Game apparatus. W. F. Schacht. 1,616,226; Feb. 1.
- Game apparatus. W. F. Schacht. 1,641,786; Sept. 6.
- Game apparatus. H. Steinmetz. 1,630,869; May 31.
- Game apparatus. A. J. Stevens. 1,631,558; June 7.
- Game apparatus. E. H. Waterman. 1,630,646; May 31.
- Game apparatus. C. H. Wilkins. 1,635,020; July 5.
- Game apparatus, Baseball-. E. V. Babbitt. 1,623,038; Apr. 5.
- Game apparatus, Baseball-. L. J. Brutofski and J. Armstrong. 1,640,878; Aug. 30.
- Game apparatus, Baseball-. J. C. Fennessy. 1,651,686; Dec. 6.
- Game apparatus, Baseball-. L. E. Stewart. 1,642,093; Sept. 13.
- Game apparatus, Bowling-. R. H. Morton. 1,650,029; Nov. 22.
- Game apparatus, Football-. R. H. Anderson. 1,648,601; Nov. 8.
- Game apparatus for multisix-color game. A. Sandel. 1,625,055; Apr. 19.
- Game apparatus, Geographical educational. J. T. Lomas. 1,653,464; Dec. 20.
- Game, Arithmetical. V. D. Brittingham. 1,619,849; Mar. 29.
- Game ball. C. W. Coffield. 1,622,421; Mar. 29.
- Game-ball holder. B. F. Judd. 1,625,856; Apr. 26.
- Game, Baseball. C. C. Kirkham. 1,615,985; Feb. 1.
- Game, Baseball. F. J. Mattern and H. N. Walker. 1,634,296; July 5.
- Game, Baseball-. E. C. Wagner. 1,619,279; Mar. 1.
- Game board. B. B. Atkinson. 1,615,927; Feb. 1.
- Game board. B. F. Bain. 1,621,185; Mar. 15.
- Game board. F. Beidelstein. Des. 73,477; Sept. 20.
- Game board. G. E. Brown. 1,624,469; Apr. 12.
- Game board. C. Dietrichs. 1,644,514; Oct. 4.
- Game board. H. Himmelmann. Des. 73,038; July 12.
- Game board. L. P. Nichols. Des. 71,922; Jan. 25.
- Game board. I. Rosen. Des. 73,012; July 5.
- Game board. W. Rowe. Des. 73,103; July 19.
- Game board. L. L. Russell. Des. 73,269; Aug. 16.
- Game board. F. A. Sullivan. 1,637,922; Aug. 2.
- Game board. W. W. Thom. A. S. T. Laguard, and A. M. Walzer. Des. 73,764; Nov. 1.
- Game board, Football. J. M. Conley. 1,614,881; Jan. 18.
- Game board, Fortune-telling. C. G. Aughter. Des. 72,689; May 24.
- Game board, Tennis. W. J. Schlosser. 1,654,018; Dec. 27.
- Game, Booth. A. Vallat. 1,640,259; Aug. 10.
- Game, Bowling. A. B. Dewes. 1,644,468; Oct. 4.
- Game, Card. A. B. Copeland. 1,638,433; Aug. 9.
- Game, Card. K. D. Frost. 1,622,638; Mar. 29.
- Game, Card. H. J. Keating. 1,614,132; Jan. 11.
- Game, Card. H. H. Ross. 1,632,681; June 14.
- Game, Card. M. H. Whaley and C. W. Eckenwiler. 1,640,261; Aug. 23.
- Game carrier. J. E. Calvert. 1,650,491; Nov. 22.
- Game, Clock-dial. G. Kent. 1,634,197; June 28.
- Game club. W. B. So Relle. 1,646,461; Oct. 25.
- Game counter. K. E. Brewer. 1,615,575; Jan. 4.
- Game, Covered indicating chance disk. S. O. Jacks. 1,640,998; Aug. 30.
- Game device. M. E. Bosley and L. J. Kane. 1,616,884; Feb. 8.
- Game device. T. J. Junker. 1,646,095; Oct. 18.
- Game device, Mechanical. B. Kitzmiller. 1,650,135; Nov. 22.
- Game device, Pin-ball. F. A. Rockwell. 1,647,583; Nov. 1.
- Game device. E. W. Smith. 1,613,204; Jan. 4.
- Game device. J. Stierl. 1,634,564; July 5.
- Game device, Cross. M. Y. Garcia. 1,624,167; Apr. 12.
- Game device, Prize. S. Weidenfeld. 1,625,922; Apr. 12.
- Game, Educational. J. A. Harrison and G. R. Wylie. 1,617,339; Feb. 15.
- Game, Educational. I. B. Samis. 1,631,505; June 7.
- Game, Educational. G. R. Wylie and J. A. Harrison. 1,617,362; Feb. 15.
- Game, Educational. G. W. Ziegler. 1,635,734-5; July 12.
- Game, Educational card. R. F. Sengel and L. H. Meyers. 1,617,732; Feb. 15.
- Game, Electric. L. E. Meade. 1,648,956; Nov. 15.
- Game, Football. T. A. Link. 1,629,398; May 17.
- Game, Golf. N. J. Jewett. 1,615,982; Feb. 1.
- Game, Golf-simulating. T. C. Ryan. 1,638,365; Aug. 9.
- Game, Hob of a quoit. E. Levay. 1,617,127; Feb. 8.
- Game, Hockey. W. Bossov. 1,641,525; Sept. 6.
- Game, Indoor. J. S. Littleford. 1,627,517; May 3.
- Game, Indoor football. L. P. Thornton. 1,615,491; Jan. 25.
- Game, Japanese peanut ping-pong. A. T. Hayashi. 1,614,471; Jan. 18.
- Game, Mechanical baseball. J. Bamber and J. I. Mundell. 1,617,739; Feb. 15.
- Game mechanism, Slide. J. H. Myre. 1,644,890; Oct. 11.
- Game, Moving-target. C. J. Mack. 1,640,054; Aug. 30.
- Game of hockey, Apparatus for playing a table. E. O. Brown. 1,634,016; June 28.
- Game of skill. F. L. Horspool and S. C. Rasmussen. 1,650,215; Nov. 22.
- Game or puzzle. E. S. Neulir. 1,639,893-4; Aug. 23.
- Game projectile. W. C. Campbell. 1,634,451; July 5.
- Game, Racing. H. E. McCoy. 1,641,638; Sept. 6.
- Game, Score-indicating ball-return. C. Esmarian. 1,612,912; Jan. 4.
- Game, Scoring device. L. Ottinger. 1,642,382; Sept. 13.
- Game table. H. Berg. Des. 73,398; Sept. 6.
- Game table. E. F. Hoskin. 1,652,671; Dec. 13.
- Game-table cushion. J. O. Miller. 1,613,403; Jan. 4.
- Game, Target. A. I. Cox. 1,650,935; Nov. 29.
- Game, Target. W. C. Schmeb. 1,624,765; Apr. 12.
- Game, Target plate. E. W. Stoddard. 1,629,284; Apr. 5.
- Game trap. G. A. Barnard. 1,620,182; Mar. 8.
- Game, 26. P. J. Rowland and C. J. Scanlan, Jr. 1,649,979; Nov. 22.
- Game-wheel spider. F. Beidelstein. Des. 72,139; Mar. 8.
- Gaming apparatus. C. H. Redley. 1,622,673; Mar. 29.
- Gaming device. R. Ohrist. 1,626,148; Apr. 26.
- Gaming apparatus, Bowling-. F. W. Knebusch. 1,647,451; Nov. 1.
- Garage. S. Freeman. 1,643,409; Sept. 27.
- Garage. E. Geiger. 1,636,600; July 19.
- Garage. R. W. Seymour. 1,631,068; May 31.

- Garage. M. C. Tunison. 1,614,905; Jan. 18.
Garage. W. F. Watson. 1,630,553; May 8.
Garage door, Automatically-operated. D. Szalla. 1,624,814; Apr. 12.
Garage elevator. K. MacDonald, jr. 1,639,230; Aug. 10.
Garage structure. R. Irvin. 1,643,948; Oct. 4.
Garage turntable. H. Willbanks. 1,647,578; Nov. 1.
Garbage and refuse, collection, incineration, vacuum cleaning, and ventilation system. J. B. Harris. 1,648,846; Nov. 8.
Garbage can, Sanitary. W. Oke. 1,613,621; Jan. 11.
Garbage can, Sanitary. O. F. Radcliffe. 1,637,656; Aug. 2.
Garbage can, Sanitary. A. Turnbull. 1,622,853; Mar. 29.
Garbage container. J. L. Booth. 1,613,690; Jan. 11.
Garbage container, Sanitary. A. W. Nelson. 1,651,220; Nov. 29.
Garbage receptacle. B. W. Reynolds. 1,612,986; Jan. 4.
Garbage reduction. R. D. MacLaurin and C. C. Smith. 1,626,853; May 3.
Garden-hose supporter. B. C. Hamilton. 1,637,523; Aug. 2.
Garden implement. G. F. Arvedson. 1,639,643; Aug. 23.
Garden implement. F. W. Drish. 1,633,318; June 21.
Garment. E. M. Antoonian. 1,624,570; Apr. 12.
Garment. M. F. Dodge. 1,635,036; July 5.
Garment. J. H. Dwork. 1,627,771; May 10.
Garment. P. Halperin. 1,634,829; July 5.
Garment. N. Hatch. 1,649,690; Nov. 15.
Garment. A. S. Johnson. 1,615,629; Jan. 25.
Garment. I. P. McDonald and W. MacMullen, jr. 1,632,190; June 14.
Garment. H. J. Paire. 1,646,555; Oct. 25.
Garment. J. Schneider. 1,648,282; Nov. 8.
Garment. M. H. Stryke. 1,632,424; June 14.
Garment. R. R. Wellstatter. 1,629,561; May 24.
Garment and like article of manufacture. H. C. Moulton. 1,616,086; July 19.
Garment, Apparel. W. Kops. 1,615,634; Jan. 25.
Garment, Apparel. W. Kops. 1,616,264; Feb. 1.
Garment, Apparel. W. Kops. 1,636,516; July 19.
Garment, Apparel. W. Kops. 1,637,826; Aug. 2.
Garment, Apparel. W. Kops. 1,653,636; Dec. 27.
Garment, Apparel. W. Kops. 1,654,264; Dec. 27.
Garment attachment. P. T. Burtchell. 1,621,826; Mar. 22.
Garment bag. J. R. Kiln. 1,649,237; Nov. 15.
Garment bag. H. Ringel. 1,652,798; Dec. 13.
Garment bands, Connector for. J. A. Haines. 1,639,226; Aug. 16.
Garment, Body. M. B. Jackson. 1,632,137; June 14.
Garment, Burial. J. W. Cannon. 1,626,450; Apr. 26.
Garment carrier. C. T. Batts. 1,639,021; Aug. 16.
Garment, Child's. M. C. Allen. 1,625,184; Apr. 19.
Garment, Child's. J. Greenberg and S. Goodman. 1,615,301; Jan. 25.
Garment, Child's sleeping. J. H. Rambo. 1,623,753; Apr. 5.
Garment, Combination. E. M. Dewey. 1,648,580; Nov. 8.
Garment construction. N. Zuck. 1,620,853; Mar. 15.
Garment conveyer. L. B. H. and W. L. Bixler. 1,645,315; Oct. 11.
Garment-cutting device. G. R. Mather. 1,642,964; Sept. 20.
Garment fastener. I. C. Fife. 1,643,883; Sept. 27.
Garment fastener. J. M. and K. R. Mills. 1,612,935; Jan. 4.
Garment-fastener means. L. Roseman. 1,614,357; Oct. 4.
Garment for babies, Creeping. A. F. Jagoe. 1,618,012; Feb. 15.
Garment hanger. E. Fischer. 1,615,748; Jan. 25.
Garment hanger. C. H. Fisher. 1,621,160; Mar. 15.
Garment hanger. H. Gibson. 1,638,844; Aug. 16.
Garment hanger. R. J. Earl. 1,627,559; May 10.
Garment hanger. M. Kaufman. 1,641,680; Sept. 6.
Garment hanger. J. E. Mayhew. 1,619,742; Sept. 1.
Garment hanger. A. H. Miller. 1,652,870; Dec. 13.
Garment hanger. E. M. Minor. 1,618,885; Feb. 22.
Garment hanger. L. A. Phillips. 1,636,210; Apr. 26.
Garment hanger. H. Smith. 1,619,992; Mar. 8.
Garment hanger. S. M. Ward and E. S. Sutton. 1,636,972; July 26.
Garment hanger, Locked safety. B. Welss. 1,636,264; July 19.
Garment hanger or the like, Support for. L. Jonnes. 1,628,623; May 10.
Garment-hanger retainer. J. Ritter, jr., and M. Rasmussen. 1,652,641; Dec. 13.
Garment, Heat-retaining. A. E. Anderson. 1,623,993; Apr. 12.
Garment holder. A. K. Steuwer. 1,641,705; Sept. 6.
Garment holder and protector. R. W. Dawn. 1,618,066; Feb. 15.
Garment, Nether. A. M. Schneider. 1,633,610; June 28.
Garment or dress pattern. G. M. Laub. 1,642,682; Sept. 20.
Garment pattern. A. C. Goosman. 1,618,874; Feb. 22.
Garment press. F. Balzer. 1,625,071; Apr. 19.
Garment press. W. H. Dorsey. 1,640,351; Aug. 20.
Garment press. P. E. Goldhof. 1,624,726; Apr. 12.
Garment press. J. C. Ledbetter. 1,617,640-2; Nov. 1.
Garment press. J. C. Ledbetter. 1,653,860; Dec. 27.
Garment press. F. W. Lindemann. 1,620,366; Mar. 8.
Garment press. J. H. Taylor and J. P. Singiser. 1,639,353; Aug. 16.
Garment press, C. H. Waream. 1,637,598; Aug. 2.
Garment press, Air-cooling. G. A. Braun. 1,647,760; Nov. 1.
Garment press, Electric. J. C. Ledbetter. 1,644,920; Oct. 11.
Garment press, Electric. J. C. Ledbetter. 1,654,332; Dec. 27.
Garment presser. O. L. Lance. 1,621,116; Mar. 15.
Garment presser and creaser. V. A. Stevens. 1,629,230; May 17.
Garment-pressing machine. F. E. Baker and W. L. Taylor. 1,644,131; Aug. 30.
Garment, Protective. C. H. Davis and H. W. Lueck. 1,642,670; Sept. 20.
Garment protector. D. and E. J. Levkoff. 1,643,077; Sept. 20.
Garment protector. W. D. Schlike. 1,628,433; May 10.
Garment, Reducing. B. G. Work and L. N. Slade. 1,632,017; June 14.
Garment retainer. M. Rasmussen. 1,653,658; Dec. 27.
Garment retainer. J. Ritter, jr. 1,648,195; Nov. 8.
Garment retainer. A. Vaisman. 1,626,218; Apr. 20.
Garment retainer. G. H. Wheary. 1,639,790; Aug. 23.
Garment sleeve with detachable and reversible cuff. W. M. Tisdell and L. S. Potts. 1,643,703; Nov. 8.
Garment support. F. Freudenberger. 1,654,418; Dec. 27.
Garment supporter. R. M. MacCormac. 1,635,424; July 12.
Garment supporter. H. R. Owenshire. 1,644,200; Oct. 4.
Garment supporter. H. M. Stewart. 1,645,121; Oct. 11.
Garment yoke. E. L. Williams. 1,647,423; Nov. 1.
Garments and making it, Lined vent for unlined or partly-lined. R. A. Feiss. 1,635,173; July 12.
Garments, Combined hammer loop and pocket for. S. A. Sweet. 1,649,932; Nov. 22.
Garments, Fastener strip or fly for. L. Rosenman. 1,629,540; May 24.
Garments from protective bags, Device for placing in and removing. O. Onken. 1,652,579; Dec. 13.
Garments, Manufacturing. S. Elman. 1,643,707; Sept. 27.
Garments, Shoulder strap for ladies'. M. B. Laird. 1,629,297; Feb. 1.
Garments, Varying the size of. M. Paley. 1,642,627; Sept. 13.
Garment machine. T. W. Allen. 1,630,158; May 24.
Garter. R. F. Bartel. 1,653,383; Dec. 20.
Garter. M. M. Bear. 1,634,169; June 28.
Garter. A. J. Carpenter. 1,618,147; Feb. 15.
Garter. C. Glowacki. 1,631,261; June 7.
Garter. G. H. Muar. Des. 71,846; Jan. 11.
Garter. C. B. Namiot. 1,636,107; July 19.
Garter. W. R. Smith. 1,643,183; Sept. 20.
Garter. J. R. Starbuck. 1,636,720; July 26.
Garter and manufacturing same. M. M. Scheinberg. 1,613,413; Jan. 4.
Garter shield. Z. J. Kepl. 1,642,030; Sept. 13.
Gas-absorption apparatus. M. Mauran. 1,619,430; Mar. 29.
Gas, Activation by means of hydrogen-free carbon-bearing. J. W. Marden. T. P. Thomas, and J. E. Conley. 1,624,685; May 3.
Gas-analysis apparatus. K. L. Tate. 1,633,352; June 21.
Gas analyzing apparatus, Continuously-operating. O. Rodhe. 1,644,951; Oct. 11.
Gas and air mixing plants, Safety device for. F. Wolff. 1,617,296; Feb. 8.
Gas and air or oxygen for combustion, Delivering a mixture of. G. Keith. 1,616,796; Nov. 22.
Gas and apparatus therefor, Removal of sulphureted hydrogen from. E. W. Smith and T. C. Finlayson. 1,628,477; May 10.
Gas and coal gas, Making mixed water. W. D. Wilcox. 1,652,386; Dec. 13.
Gas and liquids, Contact apparatus. F. H. Wagner. 1,638,670; Aug. 9.
Gas and liquids storing device. F. G. Keyes. 1,622,523; Mar. 1.
Gas and oil separator. F. W. Harris. 1,620,096; Mar. 8.
Gas and oil separator. G. A. and G. Overstrom. 1,632,919; June 21.
Gas and oil separator, Deep-well. K. P. Neilsen. 1,628,900; May 17.
Gas apparatus. G. O. Curme, jr., and H. E. Thompson. 1,638,434; Aug. 9.
Gas and apparatus for extracting. E. W. Hartman. 1,635,620; July 12.
Gas, Apparatus for producing and treating. H. A. Dreflein. 1,650,614; Nov. 29.
Gas appliances, Safety cock for. M. J. Clarke. 1,645,985; Oct. 18.
Gas, A known rate, Measuring and delivering. C. V. Boys. 1,617,196; Feb. 8.
Gas burner. W. B. Bastian. 1,622,820; Mar. 29.
Gas burner. W. A. Beckett. 1,644,505; Oct. 4.
Gas burner. C. C. Chappelle. 1,620,071; Mar. 8.
Gas burner. H. M. Godsey. 1,625,992; Apr. 26.
Gas burner. H. Holleman. 1,641,888; Sept. 6.
Gas burner. L. D. Houlig. 1,633,285; Dec. 20.
Gas burner. P. C. Hughes. 1,641,274; Sept. 6.
Gas burner. W. W. Kemp. 1,642,153-4; Sept. 13.
Gas burner. W. Kennedy. 1,647,137; Nov. 1.
Gas burner. H. E. Kerr. 1,613,611; Jan. 11.

- Gas burner. G. B. Killam. 1,616,807; Feb. 8.
 Gas burner. T. A. Lewis. 1,616,862; Feb. 8.
 Gas burner. H. W. O'Dowd. 1,649,972; Nov. 22.
 Gas burner. H. O. Porter. 1,622,972; Mar. 29.
 Gas burner. M. J. Roberts. 1,638,024; Feb. 15.
 Gas burner. J. W. Sharp. 1,632,513; June 14.
 Gas burner. C. W. Sievert. 1,648,329; Nov. 8.
 Gas burner. A. F. Thompson. 1,637,014; July 26.
 Gas burner. C. H. Upright. 1,624,292; Apr. 12.
 Gas burner. A. R. Wilson. 1,630,878; May 31.
 Gas burner. Air-blast. C. F. Heckel and E. Messer. 1,627,772; Aug. 2.
 Gas-burner control. E. H. Ryon. 1,629,228; May 17.
 Gas-burner-control mechanism. R. T. Windt. 1,625,010; Apr. 19.
 Gas-burner deflector. S. A. D. Cox. 1,618,269; Feb. 22.
 Gas burners, Automatic cut-off for. E. Kauffeld. 1,628,049; May 10.
 Gas burners, Automatic safety appliance for. M. B. Matson. 1,640,045; Aug. 23.
 Gas burners, Water heater for. C. J. Aldridge. 1,612,900; Jan. 4.
 Gas cook, Automatic safety. J. Balthasar and H. Gentz. 1,642,007; Sept. 13.
 Gas cocks, Safety plug lock for. J. H. George. 1,641,578; Oct. 4.
 Gas-combustion apparatus, Safety device for. L. Hill. 1,616,495; Feb. 8.
 Gas compressor. C. W. Vollmann. 1,632,155; June 14.
 Gas compressor, Fluid-. J. Frankenberg. 1,629,495; May 21.
 Gas compressor, High-pressure. E. Prestage. 1,614,851; Jan. 18.
 Gas compressors, Valve for. C. W. Vollmann. 1,627,680; May 10.
 Gas containing carbon monoxide, Process and apparatus for treatment of. W. H. Kniskern. 1,614,072; Jan. 11.
 Gas control. D. H. Shogran. 1,629,337; May 10.
 Gas-control appliance. J. W. Brown. 1,624,132; Apr. 12.
 Gas-control cock. H. B. Hutton, jr. 1,639,431; Aug. 16.
 Gas cut-off. F. E. Erbe. 1,636,986; July 19.
 Gas cut-off, Automatic. R. R. Hardway. 1,617,156; Feb. 8.
 Gas cut-off, Compensating. L. Hill. 1,626,609; May 3.
 Gas device or cock, Safety. R. L. Uhl. 1,633,504; June 21.
 Gas distribution. R. G. Griswold. 1,645,137; Oct. 11.
 Gas engine. J. Picketts. 1,643,584; Sept. 27.
 Gas engine. B. C. Stickney. 1,641,105; Aug. 30.
 Gas engine, Two-cycle. B. F. Augustine. 1,623,296; Apr. 5.
 Gas feed, Automatic. H. W. Hart. 1,619,931; Mar. 8.
 Gas fire, Incandescent. J. Mulholland. 1,639,780; Aug. 23.
 Gas for cutting and welding purposes. J. R. Rose. 1,628,066; May 10.
 Gas from a gas supply to a gas receiver, Device for directing the flow of. J. F. Key. 1,652,675; Dec. 13.
 Gas from condensers. Removing foreign. G. Hilger. 1,636,512; July 19.
 Gas from inflammable liquids, Producing air. H. Foersterling. 1,625,135; May 10.
 Gas from petroleum oil, Manufacturing. E. M. Clark. N. E. Loomis, and F. A. Howard. 1,651,115; Nov. 29.
 Gas from sulphite digesters, Cooling and utilizing the heat content of relief. G. A. Richter. 1,616,703; Feb. 8.
 Gas-generating apparatus. L. P. Seville. 1,629,125; May 17.
 Gas-generating apparatus. H. F. Smith. 1,619,441; Mar. 1.
 Gas-generating machines, Ascertaining, increasing, and maintaining the efficiency of water-. M. E. Benesh. 1,620,864; Mar. 15.
 Gas generator. J. J. Georgi. 1,632,285; June 14.
 Gas generator. C. Owens. 1,613,123; Jan. 4.
 Gas generator. E. E. Percy. 1,624,431; Apr. 12.
 Gas generators and other furnaces, Self-scraping hearth for. L. Tréfois. 1,645,671; Oct. 18.
 Gas generators, Carbide indicator for. O. Kaas. 1,644,062; Oct. 4.
 Gas gravity balance. H. R. Pierce. 1,629,526; May 24.
 Gas gun. J. W. Kärner, jr. 1,637,079; July 26.
 Gas-heated and radiating element. W. Guy-Pell. 1,639,605; Aug. 16.
 Gas-heated furnace. J. Delwiche. 1,650,498; Nov. 22.
 Gas heater. J. P. Adams. 1,617,772; Jan. 4.
 Gas heater. A. T. Broch. 1,618,169; Feb. 22.
 Gas heater. L. Cing-Mars. 1,642,540; Sept. 13.
 Gas heater. E. R. Holland. 1,629,384; May 17.
 Gas heater. H. R. Humphrey. 1,650,835; Nov. 29.
 Gas heater. W. Kennedy. 1,642,111; Sept. 13.
 Gas heater. J. R. King. Des. 72,770; May 31.
 Gas heater. A. B. Miller and W. H. Kellner. 1,623,487; Apr. 5.
 Gas heater. E. Pepin. 1,640,248; Aug. 23.
 Gas heater. C. P. Price. 1,628,427; May 10.
 Gas heater. W. L. Sharp. Des. 72,729-30; May 24.
 Gas heater. W. L. Sharp. Des. 72,970; June 28.
 Gas heater. W. L. Sharp. Des. 73,346; Aug. 23.
 Gas heater. W. L. Sharp. Des. 73,585; Oct. 4.
 Gas heater. J. B. Slattery. Des. 72,288; Mar. 22.
 Gas heater. A. Steffen. Des. 74,078; Dec. 13.
 Gas heater. C. J. Waltemade. 1,648,035; Nov. 8.
 Gas-heater grill. W. Kennedy. Des. 72,713; May 24.
 Gas heater, Mounted. N. Benenati. 1,632,587; June 14.
 Gas heater, Radiant. A. L. Spangler. Des. 73,543; Sept. 27.
 Gas heaters, Burner for radiant. H. Kielberg. 1,643,607; Sept. 27.
 Gas holder. G. T. Horton. 1,621,929; Mar. 22.
 Gas holder. G. T. Horton. 1,621,984; Mar. 22.
 Gas holder. G. T. Horton. 1,651,892; Dec. 6.
 Gas holder. A. H. T. Williams. 1,630,047; May 31.
 Gas holders, Crown support for. A. W. Seels. 1,628,002; May 10.
 Gas-lighting device. S. J. Woods. 1,635,104; July 5.
 Gas illuminating devices, Safety apparatus for. L. Hill. 1,616,493; Feb. 8.
 Gas in case of fire, Automatic shut-off device for. W. G. Wilson. 1,616,419; Feb. 1.
 Gas in steam locomotives, Method of and apparatus for producing and burning. F. N. Poignand. 1,618,136; Feb. 15.
 Gas jet and igniting same. A. V. Conover. 1,623,464; Apr. 5.
 Gas-kindling burner. G. Hammer. 1,627,386; May 3.
 Gas lighter, Electric. A. E. Carlson. 1,622,089; Mar. 22.
 Gas-line coupling. H. F. Dyck. 1,649,673; Nov. 15.
 Gas-loose heater. T. A. Sala. 1,613,477; Feb. 22.
 Gas-main stopper. P. Goodman. 1,627,502; May 3.
 Gas, Making carbureted water. A. C. Klein. 1,630,300-1; May 31.
 Gas, Making carbureted water. A. E. Shippel. 1,630,316; May 31.
 Gas, Making combustible. W. D. Wilcox. 1,624,644; Apr. 12.
 Gas mantle and making the same. C. E. Bliss and F. A. Wegener. 1,639,682; Aug. 23.
 Gas manufacturer. W. S. Yard and E. N. Percy. 1,649,040; Nov. 15.
 Gas meter. G. K. V. Johanson. Re16,642; May 31.
 Gas-meter attachment. C. B. Gamble. 1,641,079; Aug. 30.
 Gas meter, Dry. S. Simpson. 1,642,899; Sept. 20.
 Gas-meter mechanism. W. A. Gaugh. 1,629,031; May 17.
 Gas meters inclosing a vertically-slidable body, Scaling means for use in. K. Jagschitz. 1,636,963; July 26.
 Gas meters, Resetting device for. E. A. Kersten. 1,627,183; May 3.
 Gas, Method and apparatus for the compression or expansion of. E. J. Creel. 1,641,121; Aug. 30.
 Gas, Method and apparatus for the storage and the transportation of. P. N. Lucas-Girardville. 1,651,521; Dec. 6.
 Gas, Method of and apparatus for quantitative determination of. R. P. Mase. 1,634,331; July 5.
 Gas mixer. F. W. Gault, jr. 1,613,388; Jan. 4.
 Gas mixer. S. Ostroff. 1,626,423; Apr. 26.
 Gas moistener. H. M. Fleurer. 1,641,028; Aug. 30.
 Gas motor. F. J. Wingler. 1,650,812; Nov. 29.
 Gas of uniform sulphur-dioxide content, Process and apparatus for producing a. H. Howard. 1,650,358; Nov. 22.
 Gas, oil, and sand separator. T. H. Chandler and W. H. Stigall. 1,649,570; Nov. 15.
 Gas-outlet fixture. H. C. Anderson. 1,631,953; June 14.
 Gas pressure, Device for regulating. G. Wunsch. 1,620,707; Mar. 15.
 Gas-pressure regulator. C. V. Ewan. 1,648,337; Nov. 8.
 Gas-pressure regulator. H. Rosenthal. 1,630,408; May 31.
 Gas-pressure regulator. J. M. Wilkins and L. N. Rohr. 1,618,396; Feb. 22.
 Gas producer. W. Climie. 1,650,187-8; Nov. 22.
 Gas producer. A. C. Treviño. 1,624,694; Apr. 12.
 Gas producer and boiler, Combined. V. D. McDonnell. 1,647,739; Nov. 1.
 Gas, Producing. O. U. Bean. 1,621,652; Mar. 22.
 Gas purification. F. W. Sperr, jr. and D. L. Jacobson. 1,653,933; Dec. 27.
 Gas purifier. C. G. Hawley. 1,612,812; Jan. 4.
 Gas, Purifying. W. H. Fulweiler and C. W. Jordan. 1,632,758; June 14.
 Gas-purifying apparatus. T. W. Stone. 1,632,251; June 14.
 Gas-purifying apparatus. C. I. Tenney and P. W. Thayer. 1,632,457; June 14.
 Gas, Purifying illuminating. E. J. Brady. 1,626,664; May 3.
 Gas regulator. F. Gaunt. M. B. Reynolds, and R. C. Hughes. 1,626,581; Apr. 26.
 Gas safety plate. H. P. Prefontaine. 1,623,812; Apr. 5.
 Gas scrubber. E. Anderson. 1,632,325; June 14.
 Gas-separating apparatus. M. M. Reynolds. 1,623,636; Apr. 5.
 Gas separation. H. Dumars and W. S. Bowen. 1,622,134; Mar. 22.
 Gas stove and range, Combined. S. H. Hobson. Des. 72,094; Mar. 1.
 Gas supply for certain purposes, Apparatus for controlling and regulating. T. Clarke. 1,653,986; Dec. 27.
 Gas tanks and radiators, Closure cap for. L. E. Fogel. 1,634,775; July 5.
 Gas treating and producing carbon black. C. A. Barbour, jr. 1,653,536; Dec. 20.
 Gas treating articles, Apparatus for. A. H. Warth. 1,641,712; Sept. 6.
 Gas, Use of incapsulating. R. B. Lawrence. 1,614,739; Jan. 18.

- Gas washer. K. Matheus. 1,617,534; Feb. 15.
 Gas-washing system. F. H. Willcox. 1,632,572; June 14.
 Gaseous currents, Silencer for. A. H. Green. 1,627,324; May 3.
 Gaseous matter in human bodies, Process of and apparatus for ascertaining the change. H. W. Knipping. 1,641,817; Sept. 6.
 Gaseous mediums with liquids, Treating. E. M. Salerni. 1,644,089; Oct. 4.
 Gaseous mixtures, Apparatus for ascertaining the composition of. H. Heinicke. 1,646,247; Oct. 18.
 Gaseous mixtures, Apparatus for separating the constituents of. C. C. Van Nuys. 1,619,169; Mar. 1.
 Gaseous mixtures, Device for the simultaneous obtaining of the compression and the circulation of. G. L. E. Patart. 1,633,998; June 28.
 Gaseous mixtures, Separating. J. Le Rouge. 1,626,345; Apr. 26.
 Gaseous mixtures such as those containing hydrogen. Separation of the constituents of. G. Claude. 1,620,192; Mar. 8.
 Gases and liquids from pressure systems, Apparatus for drawing off. L. C. Huff. 1,652,171; Dec. 13.
 Gases, and the like, Indicator for leaking air. E. M. Cattle. 1,621,492; Mar. 22.
 Gases and vapors in atmosphere, Apparatus for indicating the presence and the concentration of. S. Ruben. 1,627,204; May 3.
 Gases, Apparatus and process for condensing soluble. J. F. Monaghan. 1,614,313; Jan. 11.
 Gases, Apparatus for analyzing. J. Alsberg and P. J. Ralph. 1,633,881; June 29.
 Gases, Apparatus for cleaning, collecting, or separating. G. J. Urich. 1,637,597; Aug. 2.
 Gases, Apparatus for cooling by the expansion of. V. Cremieu. 1,625,712; Apr. 19.
 Gases at high temperature, Apparatus for separating particles from. C. Matlock. 1,617,073; Feb. 8.
 Gases, Determining the heating value of combustible. H. W. Packard. 1,625,277; Apr. 19.
 Gases, Device for indicating and recording the specific gravity of. O. Dommer. 1,640,313; Aug. 23.
 Gases, Device for proportionate feeding of. F. Mangiameli. 1,619,195; Mar. 8.
 Gases, Fumes, and the like, Process and apparatus for. G. S. Purtyman. 1,652,956; Dec. 13.
 Gases, Injector apparatus for compressing. 1,651,749; Dec. 6.
 Gases, Low-temperature cooling, liquefaction, and separation of. A. Seligmann. 1,615,597; Jan. 25.
 Gases, Process and apparatus for mixing. E. Falkenthal. 1,643,065; Sept. 20.
 Gases, Purifying. J. Jannek. 1,631,823; June 7.
 Gases, Reduction process using circulating reducing. E. Edwin. 1,638,684; Aug. 9.
 Gases with liquids, Apparatus for the treatment of. M. Gaskett. 1,654,181; Dec. 27.
 Gasket. C. B. Bailey, W. W. McCord, and C. Wilkins. 1,626,110; Apr. 26.
 Gasket. P. J. Fitzgerald. 1,627,167; May 3.
 Gasket. J. S. Hettlinger. 1,636,363; July 19.
 Gasket. A. H. Kinzel. 1,616,988; Feb. 1.
 Gasket. A. H. Kinzel. 1,648,561; Sept. 27.
 Gasket. F. J. Owen. 1,626,962; May 3.
 Gasket, Bottle or bag. S. J. Stanley. 1,640,430; Aug. 30.
 Gasket, Combined metal and fiber. T. Baker. 1,618,796; Feb. 22.
 Gasket, Preserving. A. Yancey. 1,644,457; Oct. 4.
 Gasket, Sealing. T. J. Snyder. 1,625,963; Apr. 26.
 Gasket-sealing machine. W. S. Edwards. 1,625,800; Apr. 26.
 Gaskets, Fabric for. E. J. Trainer. 1,646,466; Oct. 25.
 Gaskets for internal-combustion engines, Gas-mixing. C. M. Tansill. 1,620,410; Mar. 8.
 Gaskets, Method and apparatus for making. J. Kinder-vater. 1,641,171; Sept. 6.
 Gasoline and hydrocarbons, Process and material for treating. A. H. Ackerman. 1,653,032; Dec. 20.
 Gasoline, Apparatus for reclaiming used. W. C. Glover. 1,639,373; Aug. 16.
 Gasoline clarifier. C. L. Ostrander. 1,646,102; Oct. 18.
 Gasoline-consumption tester. J. E. Powell. 1,645,774; Oct. 18.
 Gasoline-dispensing apparatus. P. W. Fenton. 1,638,687; Aug. 9.
 Gasoline-dispensing device. G. A. Schwenzer and H. L. Stackhouse. 1,653,231; Dec. 20.
 Gasoline-dispensing device. W. E. Splain and H. L. Stackhouse. 1,636,652; July 19.
 Gasoline-dispensing stand. N. Henningsen. 1,634,541; July 5.
 Gasoline-dispensing system. O. T. Graham. 1,633,483; June 21.
 Gasoline-dispensing system. C. Schock. 1,633,453; June 21.
 Gasoline-dispensing tank. M. G. Volcker. 1,642,634; Sept. 13.
 Gasoline engine. F. Hoffner. 1,626,196; Apr. 26.
 Gasoline engine. L. J. Root. 1,617,607; Feb. 15.
 Gasoline filling apparatus. E. L. Jenkins. 1,650,837; Nov. 29.
 Gasoline from mineral oil, Apparatus for completely separating. A. E. Pew, Jr., and H. Thomas. 1,645,969; Oct. 18.
 Gasoline from underground storage tanks, System for dispensing. C. Schock. 1,633,459; June 21.
 Gasoline gauge. A. C. Alexander and O. K. Hagen. 1,653,688; Dec. 27.
 Gasoline gauge. H. M. Cooper. 1,629,994; May 24.
 Gasoline gauge. F. A. and J. F. Groves. 1,639,341; Aug. 16.
 Gasoline gauge. H. Mossbach. 1,635,382; July 12.
 Gasoline gauge. J. D. Reekie. 1,621,274; Mar. 15.
 Gasoline gauge, Electric. W. E. Williams. 1,634,165; June 28.
 Gasoline, Manufacturing. H. Thomas. 1,624,692; Apr. 12.
 Gasoline, Method of and apparatus for making. F. E. Glince. 1,649,345; Nov. 15.
 Gasoline or the like, Can for. H. M. Roussie. 1,627,807; May 10.
 Gasoline, Producing. H. B. Setzler. 1,629,810; May 24.
 Gasoline-pump casing. E. E. Eickmeyer. Dec. 72,701; May 24.
 Gasoline pumps, Audible indicator and meter for. R. E. McLain and O. D. Daniel. 1,647,806; Nov. 1.
 Gasoline receptacle. A. M. Goodykootz. 1,623,107; Apr. 5.
 Gasoline, Recovering. F. E. Hosmer. 1,613,108; Jan. 4.
 Gasoline, Recovery of. E. C. Herthel and T. de C. Tiff. 1,645,555; Sept. 8.
 Gasoline regulator. W. H. Pritchett. 1,627,458; May 3.
 Gasoline-reserve control. C. O. Fisher. 1,631,028; Jan. 4.
 Gasoline station, Home. E. E. Hassler. 1,645,594; Oct. 18.
 Gasoline tank. W. B. Stout. 1,616,008; Feb. 1.
 Gasoline tank and filter, Reserve. J. A. Skaggs. 1,617,868; Feb. 15.
 Gasoline-tank cap lock. C. A. Roberts. 1,637,279; July 26.
 Gasoline tank, Unleakable and undammable. M. de Salsman. 1,616,116; Feb. 1.
 Gasoline Treatment of. M. W. Harriger and W. J. Baker. 1,619,206; Mar. 1.
 Gasometers, Coating. R. Mezger. 1,630,202; May 24.
 Gasometers, Sealing material for. R. Mezger. 1,641,089; Aug. 30.
 Gastroscope. G. Loock. 1,632,612; June 14.
 Gate; See—
 Ash gate. Folding gate.
 Automatic gate. Hydraulic gate.
 Automatic regulating gate. Railway-crossing gate.
 Automobile operating gate. Railway gate.
 Coal-chute gate. Regulating gate.
 Crossing gate. Return gate.
 Divch gate. Road gate.
 Drive gate. Safety gate.
 Elevator gate. Traffic gate.
 End gate. Vehicle end gate.
 Farm gate. Vehicle-operated gate.
 Fluid - pressure - operated gate. Water gate.
 Gate. E. E. Anson. 1,635,878; July 12.
 Gate. J. A. Dodd. 1,623,394; Apr. 5.
 Gate. C. M. Edwards. 1,640,757; Aug. 30.
 Gate. J. S. Fitch and J. F. Tobin. 1,642,875; Sept. 20.
 Gate. J. S. Fitch and J. F. Tobin. 1,643,297; Sept. 27.
 Gate. A. B. Hageman. 1,618,819; Mar. 8.
 Gate. L. Hitchcock. 1,650,213; Nov. 22.
 Gate. G. M. Horner. 1,624,169; Apr. 12.
 Gate. A. D. Kaiser. 1,630,704; May 31.
 Gate. R. Kyles. 1,640,329; Aug. 23.
 Gate. L. Lilepold. 1,636,571; July 19.
 Gate. J. W. Matthews. 1,615,095; Jan. 18.
 Gate. A. P. Merrill. 1,630,200; May 24.
 Gate. J. Millard. 1,630,204; May 24.
 Gate. L. B. Norris. 1,649,849; Nov. 22.
 Gate. R. A. Sallee. 1,640,135; Aug. 23.
 Gate. J. P. Smith. 1,647,549; Nov. 1.
 Gate. C. G. White. 1,628,703; May 17.
 Gate. E. Wolbert. 1,645,365; Oct. 11.
 Gate construction. W. Hodde. 1,625,254; Apr. 19.
 Gate for skip hoists, Pivoted. C. P. Ross. 1,653,589; Dec. 20.
 Gate-latching mechanism. T. J. Moore. 1,650,146; Nov. 22.
 Gate lock. R. D. Stewart. 1,642,976; Sept. 20.
 Gate lock, Foldable. J. Kaufman. 1,651,394; Dec. 6.
 Gate mechanism. M. Kushlan and H. E. Young. 1,637,575; Aug. 2.
 Gate mechanism for freight elevator hatchways. J. Pedersen. 1,627,994; May 10.
 Gate opening and closing device, Automatic. L. Hanford. 1,654,461; Dec. 27.
 Gate-operating mechanism. C. M. Whitaker. 1,628,092; May 10.
 Gate or door operating mechanism. T. E. Robinson. 1,632,506; June 14.
 Gate or valve operating system. G. R. Steere. 1,619,003; Mar. 1.
 Gate, Propeller, Automatic. J. R. Jackson. 1,638,202; Aug. 9.
 Gate-supporting means. J. M. Thompson. 1,616,558; Feb. 8.
 Gates, Automatic latch mechanism for. E. A. Bigler. 1,642,534; Sept. 13.
 Gates, doors and the like, Mechanism for opening and closing. A. D. Thomas. 1,628,443; May 10.

- Gates, Latching means for. F. Schley. 1,620,134; Mar. 8.
- Gates, Sealing device for hydraulic. E. L. Broome. 1,648,535; Nov. 8.
- Gauge: See—
- Air gauge.
 - Alarm gauge.
 - Axle-alignment gauge.
 - Band-tying gauge.
 - Break gauge.
 - Breaker-arm gauge.
 - Bricklayer's gauge.
 - Butt gauge.
 - Caliper gauge.
 - Carpenter's gauge.
 - Clearance gauge.
 - Cloth gauge.
 - Compound gauge.
 - Cylinder gauge.
 - Dial gauge.
 - Diamond gauge.
 - Dimension gauge.
 - Door-butt gauge.
 - Draft gauge.
 - Dynamometer gauge.
 - Floot gauge.
 - Flow-registering gauge.
 - Gasoline gauge.
 - Saw-tooth gauge.
 - Hinge-recess gauge.
 - Limit gauge.
 - Limit-pin gauge.
 - Liquid gauge.
 - Liquid-level gauge.
 - Locomotive-feed-pump gauge.
 - Lumber gauge.
 - Measuring gauge.
 - Micrometer gauge.
 - Mold-liner gauge.
 - Oil gauge.
 - Pin gauge.
 - Plug gauge.
 - Pressure gauge.
 - Radial setting gauge.
 - Rafter gauge.
 - Reflection gauge.
 - Retard gauge.
 - Ring gauge.
 - Safety-appliance gauge.
 - Saw gauge.
 - Saw-tooth gauge.
 - Sawyer's gauge.
 - Shingling gauge.
 - Skirt gauge.
 - Skirt-length gauge.
 - Strain gauge.
 - Strand gauge.
 - Sugar gauge.
 - Tank gauge.
 - Tappest clearance gauge.
 - Terminal difference gauge.
 - Test gauge.
 - Tire gauge.
 - Tire pressure gauge.
 - Toe-in gauge.
 - Track gauge.
 - Vacuum gauge.
 - Viscosity gauge.
 - Water gauge.
 - Wheel gauge.
- Gauge. A. T. and P. H. Boese. 1,619,695; Mar. 1.
- Gauge. J. P. Bosle and A. Telfer. 1,630,890; May 31.
- Gauge. R. Bradstreet. 1,643,404; Sept. 27.
- Gauge. R. J. Brittain, Jr. 1,624,654; Apr. 12.
- Gauge. R. G. Green. 1,653,168; Dec. 20.
- Gauge. B. N. W. Hanson. 1,613,824; Jan. 11.
- Gauge. H. J. Newell and F. V. Fermoil. 1,648,500; Nov. 8.
- Gauge. W. H. Reiman. 1,650,653; Nov. 29.
- Gauge. H. A. Schwarz, Jr. 1,613,078; Jan. 11.
- Gauge. L. K. Snelit. 1,621,759; Mar. 22.
- Gauge. E. N. Stickler. 1,654,388; Dec. 27.
- Gauge. O. Tangring. 1,647,552; Nov. 1.
- Gauge. J. C. Tapp. 1,623,643; Apr. 5.
- Gauge. O. W. Thompson. 1,654,102; Dec. 27.
- Gauge. V. W. Tripp. 1,632,637; June 14.
- Gauge. J. Wahl and O. Meizer. 1,633,145; June 21.
- Gauge. J. G. Weller. 1,629,426; May 17.
- Gauge. E. O. Wheelock. 1,639,321; Aug. 10.
- Gauge and holder. Thread. J. Bath. 1,654,233; Dec. 27.
- Gauge and scale layout, Planer cutter. C. H. Kelly. 1,653,048; Dec. 20.
- Gauge cock. J. W. Grantland. 1,632,403; June 14.
- Gauge cock. V. Stone. 1,616,287; Feb. 1.
- Gauge device. H. O. McMillan. Rel.629; Jan. 11.
- Gauge for mortising machines. V. H. Kelley. 1,623,621; Apr. 5.
- Gauge for paper-mill jordans. Pressure. W. P. Feeney. 1,650,923; Nov. 29.
- Gauge-glass of feed-glass protection. J. Ludwin and A. Howard. 1,629,348; May 17.
- Gauge of tie rod. Railway. P. J. Jones. 1,648,645; Nov. 8.
- Gauge rod. N. E. Salsich. 1,631,769; June 7.
- Gauge-rod wiper. Oil. H. J. Seigny. 1,653,315; Dec. 20.
- Gauge stabilizer. Primary. H. W. Price and J. B. Meriam. 1,622,843; Mar. 29.
- Gauge trap. R. H. Crosby. 1,640,600; Aug. 30.
- Gauge-truing device. Finger. L. C. Bachelder. 1,648,572; Nov. 8.
- Gauge wheel and colter. Combined. C. G. Strandlund. 1,628,372; May 10.
- Gauges. Adapter for water. P. B. Huyette. 1,615,204; Jan. 18.
- Gauges. Automatic shut-off for water. E. P. Prator. 1,619,828; Mar. 8.
- Gauges. Fitting for gas-pressure. P. Goodman. 1,643,886; Sept. 27.
- Gauges or similar articles. Plunger for pressure. P. E. Pulverman. 1,629,887; May 24.
- Gauging device. Combination. M. M. Johnson. 1,630,209; May 31.
- Gauging machine. J. G. Ayers, Jr. 1,617,663; Feb. 15.
- Gauging machine. J. G. Ayers, Jr. H. Chapman, and M. E. Berlowitz. 1,627,683; May 10.
- Gauging machine. J. B. Burton. 1,652,298; Dec. 13.
- Gauging machine. F. C. Griswold and W. H. Chapman. 1,627,690; May 10.
- Gear. J. O. Bean. 1,648,715; Nov. 8.
- Gear. A. E. Norton. 1,647,911; Nov. 1.
- Gear. F. Wildhaber. 1,647,166; Nov. 1.
- Gear. J. T. Wilkin. 1,646,374; Oct. 18.
- Gear, Aeroplane landing. W. A. Ray. 1,653,122; Dec. 20.
- Gear and installing same. Draft. E. G. Goodwin. 1,627,433; May 3.
- Gear and making same, Composite. L. T. Frederick. 1,626,230; Apr. 26.
- Gear and making same, Composite. L. T. Frederick. 1,636,411; July 19.
- Gear and making the same. Ring. F. J. Black. 1,632,818; June 21.
- Gear and making the same. Silent. J. R. Gammeter. 1,638,255; Aug. 9.
- Gear and means for controlling the same. Variable-speed. A. E. L. Charlton. 1,619,701; Mar. 1.
- Gear and transmission control. Reducing. J. S. Watts. 1,633,052; June 21.
- Gear apparatus. Draft. S. Hansson. 1,635,409; July 12.
- Gear, Automatic compensating. C. L. Starkey. 1,647,480; Nov. 1.
- Gear, Baby-carriage. G. Stinson. 1,643,910; Sept. 27.
- Gear, blanks, Forging. C. A. Brauchler. 1,632,533; June 14.
- Gear, Boat raising and lowering. C. D. McLachlan. 1,616,456; Feb. 8.
- Gear, Car door and draft. W. V. Johnson and R. C. Kepner. 1,649,410; Nov. 15.
- Gear, Change-speed. H. Austin. 1,635,526; July 12.
- Gear, Change-speed. C. G. Garrard. 1,613,749; Jan. 11.
- Gear, Change-speed. G. A. von Soden-Fraunhofen. 1,639,174; Aug. 16.
- Gear-changing apparatus. R. M. Ruck. 1,640,808; Aug. 30.
- Gear-changing mechanism. L. Holland-Letz. 1,624,244; Apr. 12.
- Gear-changing mechanism. J. C. Weaver and H. B. Ames. 1,647,895; Nov. 1.
- Gear, Combined inlet and unloading valve. B. V. Nordberg. 1,643,899; Sept. 27.
- Gear, Curved-tooth. E. Wildhaber. 1,622,556; Mar. 29.
- Gear-cutting machine. R. C. Morgan. 1,651,614; Dec. 6.
- Gear-cutting machine. H. E. Stonebraker. 1,647,257; Nov. 1.
- Gear-cutting machines. Tool mechanism for. M. H. Johanson. 1,643,813; Sept. 27.
- Gear, Double-reduction. K. Baumann. 1,630,599; May 31.
- Gear, Draft. L. T. Canfield. 1,616,411; Feb. 1.
- Gear, Draft. E. F. Carry. 1,637,071; Jan. 26.
- Gear, Draft. W. H. Cotton. 1,614,657; Jan. 18.
- Gear, Draft. W. H. Cotton. 1,624,929; Apr. 19.
- Gear, Draft. W. H. Cotton. 1,648,296; Nov. 8.
- Gear, Draft. C. E. Dath. 1,648,297; Nov. 8.
- Gear, Draft. L. E. Endsley. 1,627,378; May 3.
- Gear, Draft. J. E. Forsyth. 1,646,857; Oct. 25.
- Gear, Draft. A. H. Oelkers. 1,644,655; Oct. 4.
- Gear, Draft. W. J. Regan. 1,629,307; May 17.
- Gear, Draft. W. J. Regan. 1,641,456; Sept. 6.
- Gear, Draft. T. G. Shipley. 1,650,772; Nov. 29.
- Gear, Draft. C. H. Tomlinson. 1,645,408; Oct. 11.
- Gear, Draft. H. E. Vnn Dorn. 1,650,676; Nov. 29.
- Gear, Draft. E. H. Walker. 1,621,964; Mar. 22.
- Gear, Driving and reversing. J. Jolley. 1,627,607; May 10.
- Gear, Electric switch. E. Waterhouse. 1,643,634; Sept. 27.
- Gear, Electric valve-operating. J. L. MacPherson and E. N. Sorensen. 1,618,937; Feb. 22.
- Gear, Electrical switch. W. A. Coates and D. R. Davies. 1,638,919; Aug. 16.
- Gear, Engine-valve. J. B. Brown. 1,635,172; July 12.
- Gear, Feeder. T. A. Guerra. 1,650,512; Nov. 22.
- Gear, Flexible. G. M. Eaton. 1,652,520; Dec. 13.
- Gear for airships. H. H. D. Klinker. 1,618,441; Feb. 22.
- Gear for airships. Mooring. V. C. Richmond and G. H. Scott. 1,619,680; Mar. 1.
- Gear for automobiles and the like. Change speed. H. von Doemming. 1,635,296; July 12.
- Gear for looms, Crank-shaft. W. H. Bahan. 1,616,406; Feb. 1.
- Gear for motor vehicles. Running. E. W. Templin. 1,651,742; Dec. 6.
- Gear for rotation in two directions and with direct coupling, neutral position, and brake. Change-speed. H. F. H. Oytjens. 1,642,346; Sept. 13.
- Gear, Friction differential. N. Trbojevich. 1,612,954; Jan. 4.
- Gear, Friction-draft. J. R. Cardwell. 1,644,172; Oct. 4.
- Gear, Friction draft. G. B. Dorey. 1,613,874; Jan. 11.
- Gear, Friction draft. E. G. Goodwin. 1,619,112; Mar. 1.
- Gear, Friction draft. C. J. Holland. 1,653,098; Dec. 20.
- Gear, Friction draft. E. W. Kadel. 1,618,850; Feb. 22.
- Gear, Friction-draft. W. A. Mitchell. 1,644,391; Oct. 4.
- Gear, Friction draft. H. C. Priebe. 1,636,435; July 19.
- Gear, Friction draft. A. F. Stuebing. 1,649,871; Nov. 22.
- Gear-generating machine. C. G. Olson. 1,642,554; Sept. 13.
- Gear-generating machine, Automatic. E. R. Fellows. 1,628,584; May 10.
- Gear-generating machines. Work-setting means for. E. R. Fellows. 1,620,811; Mar. 15.
- Gear-guiding machine. L. E. Jolls. 1,645,489; Oct. 11.
- Gear, Helical. Fixed-angle helical. W. F. Zimmermann. 1,625,581; Apr. 19.
- Gear, Infinitely-variable. H. L. Brooke. 1,642,720; Sept. 20.
- Gear, Internal-combustion-engine control. A. S. Hawks. 1,649,308; Nov. 15.
- Gear, Key adapter for draft. B. W. Kadel. 1,649,351; Nov. 15.

- Gear key-retaining means, Draft. K. F. Nystrom. 1,645,817; Oct. 18.
- Gear Landing. J. Fritsch. 1,633,174; June 21.
- Gear, Lever draft. E. C. Washburn. 1,626,258; Apr. 26.
- Gear lock. L. F. Brown. 1,647,033; Oct. 25.
- Gear lock, Transmission. F. D. Carpenter. 1,648,754; Nov. 8.
- Gear mechanism, Reversing. A. Daniel. 1,628,233; May 10.
- Gear mechanism, Reversing. A. E. Rhoades. 1,649,977; Nov. 22.
- Gear mechanisms, Soundproofing. H. Ford. 1,638,118; Aug. 9.
- Gear, Molded. H. C. Bierman. 1,637,331; Aug. 2.
- Gear mounting, Self-aligning. R. Chilton. 1,637,806; Aug. 2.
- Gear, Nonless. J. M. Taylor. 1,613,489; Jan. 4.
- Gear, Nonchattering. C. W. and J. C. Rounds. 1,619,799; Mar. 1.
- Gear, Nonmetallic. E. J. Guay and C. W. Mansur. 1,646,242; Oct. 18.
- Gear-operating device, Valve. M. Birkigt. 1,639,583; Aug. 16.
- Gear, Planetary. R. Mattencci. 1,648,142; Nov. 8.
- Gear, Planetary reduction. E. K. Baker. 1,637,847; Aug. 2.
- Gear, Planetary-reduction. E. K. Baker. 1,644,222; Oct. 4.
- Gear, Power reverse. M. H. Roberts. 1,651,838; Dec. 6.
- Gear, Power-transmission. A. H. Munro. 1,613,525; Jan. 4.
- Gear pulley. H. J. Knight. 1,763,187; June 7.
- Gear pulley, Clamping. G. M. Brewer. 1,648,106; Nov. 8.
- Gear pulley, Automatically-adjusting. M. L. Landrum. 1,644,839; Oct. 11.
- Gear, Railway draft. R. D. Gallagher, jr. 1,649,344; Nov. 15.
- Gear, Raising and traversing. T. Hall. 1,635,017; July 12.
- Gear, Rear alighting. E. H. Van Valkenberg. 1,649,046; Nov. 15.
- Gear, Releasing poppet-valve. R. C. Stevens. 1,613,581; Jan. 4.
- Gear, Reverse. J. T. Dickson. 1,653,262; Dec. 20.
- Gear, Reversing. K. Berger. 1,641,614; Sept. 6.
- Gear, Reversing. A. T. Nabstedt. 1,624,756; Apr. 12.
- Gear-roughing machine. J. Edgar. 1,641,666; Sept. 6.
- Gear, sectional replacement. A. Kantor. 1,648,550; Nov. 8.
- Gear, Segmental flywheel. J. E. Walker. 1,645,268; Oct. 11.
- Gear, Self-aligning. P. Herbst. 1,647,177; Nov. 1.
- Gear set, Transmission. I. O. Thorley. 1,640,628; Aug. 30.
- Gear, Shaft and detachable. W. H. Schulze. 1,648,200; Nov. 8.
- Gear shaper, Spur. M. Maag. 1,645,106; Oct. 11.
- Gear shift. B. F. Schmidt. 1,626,975; May 3.
- Gear shift. E. R. Springer. 1,615,777; Jan. 25.
- Gear-shift-control apparatus. F. A. Fuci. 1,638,802; Aug. 9.
- Gear-shift-lever ball, Self-locking. J. A. Dewire. 1,614,603; Jan. 18.
- Gear-shift lock. J. Witte. 1,646,076; Oct. 18.
- Gear-shift mechanism. J. S. Aispaugh. 1,618,935; Oct. 4.
- Gear-shift mechanism. E. P. Lorch. 1,639,460; Aug. 16.
- Gear-shift mechanism. V. G. Moreno. 1,652,951; Dec. 13.
- Gear-shift mechanism. B. F. Schmidt. 1,626,974; May 3.
- Gear-shift mechanism, Hand-operated. B. F. Schmidt. 1,630,076; May 24.
- Gear-shift-rod lock. J. H. Shaw. 1,614,998; Jan. 18.
- Gear-shift stop. F. Reinhard. 1,619,955; Mar. 8.
- Gear shift, Transmission. C. F. Gaine. 1,615,220; Jan. 25.
- Gear-shifting device, Pneumatic. C. W. Burton, jr. 1,632,947; June 21.
- Gear-shifting mechanism. C. O. Guernsey. 1,624,867; Apr. 12.
- Gear-shifting mechanism. A. G. Wagner. 1,643,728-9; Sept. 27.
- Gear-shifting mechanisms, Control means for. G. T. Randol. 1,648,193; Nov. 8.
- Gear, Speed-change. A. B. Clark. 1,640,882; Aug. 30.
- Gear, Speed-change. A. B. Clark. 1,641,576; Sept. 6.
- Gear, Speed-reducing. T. L. Fitzpatrick. 1,641,845; Sept. 6.
- Gear, Speed-reducing. C. Wasele. 1,619,552; Mar. 1.
- Gear, Splitting draft. B. W. Kadel. 1,624,742; Apr. 12.
- Gear, Spring draft. C. H. Tomlinson. 1,645,361; Oct. 11.
- Gear, Steering. M. Bray. 1,638,318; Aug. 9.
- Gear teeth. Cutting. E. Wildhaber. 1,653,686; Dec. 27.
- Gear teeth, Finishing. H. H. Schurr. 1,642,179; Sept. 13.
- Gear teeth, Producing. J. E. Gleason and E. C. Head. 1,617,445; Feb. 15.
- Gear-testing machine. D. F. Domizi. 1,644,876; Oct. 11.
- Gear-testing machine. C. G. Olson. 1,619,483; Mar. 1.
- Gear-testing machine, Bevel. C. H. Logue. 1,624,415; Apr. 12.
- Gear tooth. S. A. S. Hammar. 1,613,702; Jan. 11.
- Gear-tooth gauge. J. A. McIntosh. 1,612,077; Sept. 13.
- Gear, Toothed. H. N. Anderson. 1,619,963; Mar. 8.
- Gear, Transmission. G. T. Pollard. 1,625,564; Apr. 19.
- Gear, Transmission. W. R. Steuart. 1,648,969; Nov. 15.
- Gear transmission, Clutch mechanism for a constant-mesh. P. MacKenzie. 1,638,590; Aug. 9.
- Gear transmission, Reduction. H. D. Else. 1,632,123; June 14.
- Gear transmissions, Preselecting and shifting mechanism for sliding. J. Blackburn. 1,625,188; Apr. 19.
- Gear, Trawling. J. F. H. Temple. 1,635,294; July 12.
- Gear unit, Draft. J. M. Waugh. 1,635,177; Apr. 19.
- Gear unit, Draft. J. M. Waugh. 1,628,758; May 17.
- Gear, Valve. M. Buchler. 1,642,538; Sept. 13.
- Gear, Valve. T. M. Finley and A. W. Brown. 1,649,518; Nov. 15.
- Gear, Valve. H. Greger. 1,643,492; Sept. 27.
- Gear valve. M. J. O'Leary. 1,622,464; Mar. 29.
- Gear, Variable. H. J. Winch. 1,649,050; Nov. 15.
- Gear, Variable-speed. J. Bing. 1,650,594; Nov. 29.
- Gear, Variable-speed. W. J. Gee. 1,652,824; Dec. 13.
- Gear, Variable-speed. F. Lescarts. 1,618,987; Mar. 1.
- Gear-wheel holder. T. K. Stevenson. 1,645,669; Oct. 18.
- Gear-wheel, Transmission. M. Birkigt. 1,647,032; Oct. 25.
- Gear, Woke and making same, Draft. A. G. Hawkes and E. W. Test. 1,636,690; July 26.
- Gearing. C. M. Eberling. 1,637,142; July 26.
- Gearing. F. Mathews. 1,642,120; Sept. 13.
- Gearing. T. H. Oppenheim and B. Selhorst. 1,615,097; Jan. 18.
- Gearing. J. T. Williams. 1,620,849; Mar. 15.
- Gearing. J. C. Williamson. 1,648,751; Nov. 8.
- Gearing, Change-speed. A. Laub. 1,623,418; Apr. 5.
- Gearing, Change-speed friction. W. Stockicht. 1,637,664; Aug. 2.
- Gearing, Change spur. M. Streit. 1,622,264; Mar. 22.
- Gearing, Clutch mechanism for transmission. J. F. Gaylord. 1,646,646; Oct. 25.
- Gearing-clutching means, Transmission. S. Pozder. 1,647,932; Nov. 1.
- Gearing, Compensating. D. E. Ross. 1,626,156; Apr. 26.
- Gearing, Compensating. D. E. Ross. 1,651,228; Nov. 29.
- Gearing, Differential. G. L. Cadman. 1,633,980; Aug. 16.
- Gearing, Differential. L. Pondelick. 1,629,527; May 24.
- Gearing, Differential. D. E. Ross. 1,647,750; Nov. 1.
- Gearing, Differential. M. Walter. 1,620,246; Mar. 8.
- Gearing, Drive. A. Fonderville. 1,632,468; June 14.
- Gearing, Entrainment. J. P. Madden. 1,633,185; June 21.
- Gearing for motor-driven vehicles, Transmission. J. D. Garlick. 1,650,621; Nov. 29.
- Gearing for motor vehicles, Change-speed. C. H. Caton. 1,618,054; Feb. 15.
- Gearing for oil-well rigs. W. F. Reschke. 1,645,623; Oct. 18.
- Gearing for rear axle of autos. J. E. Yeager. 1,633,203; June 21.
- Gearing, Planetary transmission. J. S. Barnett. 1,641,656; Sept. 6.
- Gearing, Power-transmitting. E. C. Hatcher. 1,618,927; Feb. 22.
- Gearing, Reduction. R. C. Allen. 1,634,863; July 5.
- Gearing, Reduction. C. Baumann. 1,632,989; June 21.
- Gearing, Reduction. A. M. MacFarland. 1,624,416; Apr. 12.
- Gearing, Resilient. R. Jensen. 1,637,379; Aug. 2.
- Gearing, Reversing. H. A. Tuttle. 1,646,126-7; Oct. 18.
- Gearing, Reversing device for toothed. F. Ljungström. 1,614,203-4; Jan. 11.
- Gearing, Spiral bevel. N. Trojevich. 1,647,157; Nov. 1.
- Gearing suspension, Transmission. C. E. F. Ahlm. 1,650,001; Nov. 22.
- Gearing, Swiveling roller. R. Erban. 1,619,813; Mar. 8.
- Gearing, Transmission. C. E. F. Ahlm. 1,620,854-9; Mar. 15.
- Gearing, Transmission. C. E. F. Ahlm. 1,634,063; June 28.
- Gearing, Transmission. C. E. F. Ahlm. 1,634,168; June 28.
- Gearing, Transmission. E. F. Ahlm. 1,647,981; Nov. 8.
- Gearing, Transmission. L. I. Lewis. 1,635,348; Aug. 9.
- Gearing, Transmission. L. W. Melcher. 1,641,187; Sept. 6.
- Gearing, Transmission. W. C. Pitter. 1,641,902; Sept. 6.
- Gearing, Transmission. J. M. Simpson. 1,631,937; June 7.
- Gearing, Transmission. C. E. Starr. 1,623,213; Apr. 5.
- Gearing, Variable-speed. J. F. Gaylord. 1,620,724; Mar. 15.
- Gearing, Variable-speed reduction. M. O. Reeves. 1,624,895; Apr. 12.
- Gearing, Variable transmission. K. D. James. 1,626,611; May 3.
- Gears and hobs, Apparatus for determining the accuracy of. H. Mensforth and F. A. Cowell. 1,614,448; Jan. 11.
- Gears and making the same, Blank for. A. C. Hoof. 1,638,012; Aug. 9.
- Gears and the like, Pulling device for. J. W. Miller. 1,633,453; June 21.
- Gears, Apparatus for and method of cutting. F. Flusen. 1,613,880; Jan. 11.
- Gears, Apparatus for finishing high-grade. W. E. Hoke. 1,630,845; May 31.
- Gears, Generating. N. Trojevich. 1,633,051; June 21.
- Gears, Grinding. R. W. Schrott. 1,633,958; June 28.
- Gears, Hob for cutting. E. C. Head. 1,618,429; Feb. 22.
- Gears, Hob for worm. B. G. Anderson. 1,648,470; Nov. 8.

- Gears, Hobbing. E. C. Head. 1,618,956; Feb. 22.
- Gears, Locomotive power-reverse. T. A. Banning, jr. 1,642,193; Sept. 13.
- Gears, Lubrication system for train of. J. G. Krenzke. 1,631,537; June 7.
- Gears, Machine for cutting. E. C. Head. 1,626,821; May 3.
- Gears, Machine for cutting. F. Woltzendorff. 1,639,624; Aug. 16.
- Gears, Machine for generating. N. Trbojevich. 1,628,864; May 17.
- Gears, Machine for producing. E. W. Bullock. 1,647,430; Nov. 1.
- Gears, Making and structure of. J. W. Fulper. 1,641,967; Sept. 13.
- Gears, Making segmental laminated. J. C. and R. D. Shaw. 1,636,670; July 19.
- Gears, Manufacture of. J. W. White. 1,619,997; Mar. 8.
- Gears, Method and apparatus for machining spiral-tooth. J. Rath. 1,614,391; Jan. 11.
- Gears, Method of and machine for cutting. J. E. Gleason. 1,616,257; Feb. 1.
- Gears, Method of and machine for hobbing. H. E. Taylor. 1,618,240; Feb. 22.
- Gears, Method of and machine for producing. A. H. Gaudet and M. H. Johanson. 1,616,439; Feb. 8.
- Gears, Milling cutter for helical or spiral and straight bevel. W. H. Wheatley. 1,649,631; Nov. 15.
- Gears, Molding. W. B. Jaspert. 1,622,116; Mar. 22.
- Gears, Mounting for brake. F. Matthews. 1,620,271; Mar. 8.
- Gears, Pair of. E. C. Head. 1,626,820; May 3.
- Gears, Preventing backlash in. J. M. White. 1,629,564; May 24.
- Gears, Producing. N. Trbojevich. 1,647,158; Nov. 1.
- Gears, Producing. E. Wildhaber. 1,622,014; Mar. 22.
- Gears, Producing. E. Wildhaber. 1,622,555; Mar. 29.
- Gears, Producing. E. Wildhaber. 1,647,165; Nov. 1.
- Gears, Producing. E. Wildhaber. 1,654,199; Dec. 7.
- Gears, shafts, and other articles, Machine for hobbing. C. H. Schurr. 1,621,223; Mar. 15.
- Gelatins, Method and making the same, Cake of compressed. S. E. Sheppard and L. W. Eberlin. 1,613,362; Jan. 4.
- Gelatinic colloids into globules or pearls, Apparatus for manufacturing. W. Wachtel. 1,614,636; Jan. 13.
- Gelatinous substances, Method and mechanism for testing. T. Hall and R. L. Houtz. 1,651,596; Dec. 6.
- Gels, Preparing a base exchange material from. F. K. Lindsay. 1,646,297; Oct. 18.
- Gem. Z. Freund. Des. 71,910; Jan. 25.
- Gem. E. L. Weed. Des. 71,858; Jan. 11.
- Gems and setting, Combination. I. Stern. Des. 71,935; Jan. 25.
- Gem and setting, Combination. I. Stern. Des. 73,109-10; July 19.
- Gem materials, Producing. L. H. Barnett. 1,637,291; July 26.
- Gem setting. A. L. Lindroth. 1,654,335; Dec. 27.
- Generating plant. L. I. Kelly. 1,639,737; Aug. 23.
- Generating plant, Automatic. T. S. Watson. 1,627,942; May 10.
- Generating sets, Speed regulator for high-frequency. M. Latour. 1,640,002; Aug. 23.
- Generating steam, Apparatus for. H. L. Doherty. 1,619,244; Mar. 1.
- Generating system, Electrical. J. T. Fitzsimmons. 1,633,780; June 28.
- Generator: See—
- Acetylene generator.
 - Arc generator.
 - Arc-welding generator.
 - Current generator.
 - Electric generator.
 - Electrical generator.
 - Fluid generator.
 - Gas generator.
 - Harmonic generator.
 - High-frequency-current-generator.
 - Impulse generator.
 - Magneto generator.
 - Oscillation generator.
 - Power generator.
 - Steam generator.
 - Superadjustable generator.
 - Vapor generator.
 - Warm-air generator.
 - Water-gas generator.
 - X-ray-beam generator.
- Generator and burner using radiants, Kerosene-gas. S. Joseph. 1,630,184; May 24.
- Generator, Electrical, apparatus comprising a slow-wave. E. Glaser. 1,623,829; Apr. 5.
- Generator having rotary tubular elements, Steam. J. V. Blomquist and K. F. Wessblad. 1,649,382; Nov. 15.
- Generator or water heater, Steam. T. Clarkson. 1,637,680-1; Aug. 2.
- Generator or water heater, Steam. T. Clarkson. 1,637,683; Aug. 2.
- Generator-regulating apparatus. J. H. Hunt. 1,622,145; Mar. 22.
- Generator regulation. B. M. Leece. 1,633,671; June 28.
- Generator regulation, Apparatus for. G. E. Hulise. 1,622,282; Mar. 29.
- Generators, Deenergizing. R. Rüdenberg. 1,650,910; Nov. 20.
- Generators, Fire box for steam. G. A. Bryan. 1,640,346; Aug. 30.
- Generators of automobiles, Warm-adjusting means for. H. L. Arnest. 1,640,917; Aug. 30.
- Generators, Operating water-gas. F. A. Howard. 1,634,833; July 5.
- Geological specimens in bore holes, Apparatus for orienting. A. P. Dixon. 1,630,694; May 31.
- Geometrical device. G. B. Stewart. 1,615,180; Jan. 18.
- Geometrical instrument. L. P. Kolodge. 1,623,623; Apr. 5.
- Geometrical instrument. J. Liberty. 1,622,158; Mar. 22.
- Germicide. J. W. Churchman. 1,614,281; Jan. 11.
- Germinator, Seed. O. H. Pershing. 1,635,498; July 12.
- Getter and applying the same. D. MacRae. 1,626,682; May 3.
- Getter and the application thereof. D. MacRae and H. K. Richardson. 1,623,351; Apr. 5.
- Gin. N. B. Henry. 1,630,005; May 24.
- Girder. M. and L. S. Lachman. 1,620,362; Mar. 8.
- Girder. L. S. Lachman. 1,638,634; Aug. 9.
- Girder. L. S. Lachman. 1,638,637; Aug. 9.
- Girder, Circular. F. Hornby. 1,619,296; Mar. 1.
- Girder, Electrically-welded. L. S. Lachman. 1,638,636; Aug. 9.
- Girder, Fabricated latticed. W. C. Coryell and C. W. Noble. 1,617,200; Feb. 8.
- Girder, Hollow light-metal. C. Dornier. 1,643,577; Dec. 27.
- Girdle. J. Siegel. 1,651,736; Dec. 6.
- Glare device. R. M. G. Phillips. 1,652,682; Dec. 13.
- Glare eliminator. R. E. Eaves and W. C. Keen. 1,631,022; May 31.
- Glareshield. H. H. Irwin. 1,640,897; Aug. 30.
- Glareshield. J. R. McKellar. 1,653,351; Dec. 27.
- Glare shield. E. F. Pitman. 1,648,994; Nov. 15.
- Glareshield. M. A. Rader. 1,633,190; June 21.
- Glareshield. F. C. Ryder. 1,642,045; Sept. 13.
- Glareshield. H. E. Stampely. 1,626,981; May 3.
- Glareshield. J. M. Thompson. 1,613,364; Jan. 4.
- Glareshield and bracket therefor, Combined. H. S. Libbey, Des. 73,187; Aug. 2.
- Glare shield and supporting bracket therefor, Combined. P. Groenestein. Des. 73,605; Oct. 11.
- Glare shield, Eyeglass. C. P. Hopson. 1,647,626; Nov. 1.
- Glass: See—
- Blow glass.
 - Coke-glass.
 - Drawing sheet glass.
 - Drinking glass.
 - Eye-protective glass.
 - Filter glass.
 - Heat-resisting glass.
 - Laminated glass.
 - Reinforced glass.
 - Sheet glass.
 - Shock-resisting glass.
- Glass. F. M. Locke. 1,626,042; Apr. 26.
- Glass-blowing means, Sheet. A. W. Platt. 1,652,410; Dec. 13.
- Glass and apparatus therefor, Grinding and polishing. F. B. Waldron. 1,621,296; Mar. 15.
- Glass and apparatus therefor, Polishing. F. B. Waldron. 1,621,297; Mar. 15.
- Glass and like transparent substances, Ornamenting. M. A. de Guedalida. 1,639,716; Aug. 23.
- Glass and making the same. B. Long. 1,633,534; June 21.
- Glass and metal bodies, Combination of. R. F. Mayer. 1,649,907; Nov. 22.
- Glass, Apparatus for cutting. H. F. Hittner. 1,618,089; Feb. 15.
- Glass, Apparatus for drawing. A. A. Debrocq. 1,643,152; Sept. 20.
- Glass, Apparatus for drawing sheet. J. S. Gregorius. 1,631,319; June 7.
- Glass, Apparatus for feeding. W. J. Miller. 1,651,036; Nov. 22.
- Glass, Apparatus for feeding molten. J. H. O. Bunge. 1,641,133; Aug. 30.
- Glass, Apparatus for feeding molten. K. E. Peller. 1,622,666; Mar. 29.
- Glass, Apparatus for forming. L. D. Soubrier. 1,626,702; May 3.
- Glass, Apparatus for making laminated. E. S. Bock. 1,645,580; Oct. 18.
- Glass, Apparatus for making transparent sheet. G. A. Shields. 1,624,283; Apr. 12.
- Glass, Apparatus for producing a silver coating on. L. Offenhach. 1,648,504; Nov. 8.
- Glass, Apparatus for producing mold charges of molten. W. J. Miller. 1,621,426; Mar. 15.
- Glass, Apparatus for producing mold charges of molten. W. J. Miller. 1,642,966-8; Sept. 20.
- Glass articles, Apparatus for transferring. A. N. Cramer. 1,638,929; Aug. 16.
- Glass articles, Apparatus for transferring. L. D. Soubrier. 1,626,707; May 3.
- Glass articles, Machine for deforming. H. D. Madden. 1,626,683; May 3.
- Glass articles, Machine for finishing pressed. R. T. Kimbrell. 1,629,827; May 24.
- Glass articles, Machine for forming. R. La France. 1,636,872; July 19.
- Glass articles, Machine for forming. R. La France. 1,641,497; Sept. 6.
- Glass articles, Making blown. E. E. Bartlett. 1,618,747; Feb. 29.
- Glass articles, Manufacture of. W. Westbury and P. W. Collins. 1,620,308; Mar. 8.
- Glass articles, Method and apparatus for fire-finishing. J. M. Lents and F. R. Miller. 1,626,739; May 3.
- Glass battery box. J. K. Robinson, jr. 1,629,969; May 24.
- Glass-bonding apparatus, Sheet. L. D. Blackshire and J. L. Drake. 1,614,098; Jan. 11.
- Glass blanks, Furnace for heating. K. G. Kutebka. 1,617,955; Feb. 15.
- Glass-blowing machine. C. S. Budd. 1,629,653; May 24.

- Glass-blowing machine. E. H. Lorenz. 1,647,532; Nov. 1.
Glass bowl or globe, Illuminating. N. Kopp. Des. 73,437;
Sept. 13.
Glass by suction, Collecting. E. Roirant. 1,615,886;
Feb. 1.
Glass-cleaning applicator. L. H. Bardach. 1,621,489;
Mar. 22.
Glass-cleaning applicator. R. H. Van Sant. 1,625,174;
Sept. 19.
Glass composition. W. F. Bleeker. 1,629,648; May 24.
Glass, composition. W. C. Taylor. 1,615,247; Jan. 25.
Glass composition. W. C. Taylor. 1,652,259; Dec. 13.
Glass, Composition for cleaning and polishing. G. A.
McBride. 1,643,251; Sept. 20.
Glass cutter. A. T. Fletcher. 1,634,323; July 5.
Glass-cutting apparatus. J. B. Greer. 1,650,345;
Nov. 22.
Glass-cutting holder. C. J. Bishop. 1,649,282; Nov. 15.
Glass-cutting machine. T. H. Chadwick. 1,642,839;
Sept. 20.
Glass-cutting machine. J. B. Greer. 1,615,978; Feb. 1.
Glass-cutting machine. J. A. Milliken. Re16,550;
Feb. 15.
Glass-cutting machine. J. A. Milliken. 1,650,375;
Nov. 22.
Glass decorating. O. Hommel. 1,642,441; Sept. 13.
Glass, Delivery apparatus for molten. E. G. Nelson,
Jr. 1,637,452; Aug. 2.
Glass drawing and apparatus therefor. W. E. Buzby.
1,622,417; Mar. 29.
Glass-drawing apparatus. R. D. Hurley and B. H. Pat-
ton. 1,631,097; May 31.
Glass-drawing apparatus. W. G. Koupal and J. S. Gre-
gorius. 1,631,138; June 7.
Glass-drawing apparatus. A. E. Spinasse. 1,643,184;
Sept. 20.
Glass-drawing apparatus, Sheet-. J. L. Drake. 1,626,396;
Apr. 26.
Glass, Drawing sheet. J. P. Crowley. 1,626,395;
Apr. 26.
Glass, Drawing sheet. E. T. Ferngren. 1,631,805;
June 7.
Glass, Drawing sheet. J. B. Small and F. J. Kincaid.
1,634,802; July 5.
Glass-fabricating apparatus. W. J. Miller. 1,629,455;
May 17.
Glass-fastening device. C. G. Nelson. 1,649,916;
Nov. 22.
Glass feeder. L. D. Soubier. 1,614,936; Jan. 18.
Glass feeder. L. D. Soubier. 1,615,513; Feb. 22.
Glass feeder. L. D. Soubier. 1,626,705-6; May 3.
Glass feeder. L. D. Soubier. 1,638,875; July 26.
Glass feeder. L. D. Soubier. 1,653,478-9; Dec. 20.
Glass feeder, Multiple. K. E. Peiler. 1,647,746; Nov. 1.
Glass feeders, Regulating. G. E. Howard. 1,636,564;
July 19.
Glass feeders, Regulation of. G. E. Howard. 1,619,729;
Mar. 1.
Glass-feeding mechanism. A. N. Cramer. 1,618,271;
Feb. 22.
Glass-feeding mechanism, Molten-. E. T. Ferngren.
1,628,238; May 10.
Glass, Feeding molten. K. E. Peiler. 1,644,893; Oct. 11.
Glass flask. J. S. Sherman. Des. 71,990; Feb. 8.
Glass, Forming and delivering charges of molten. J. F.
Rule. 1,623,362; Apr. 5.
Glass-forming apparatus. O. A. Hanford. 1,631,633;
June 7.
Glass-forming apparatus. O. A. Hanford. 1,632,963;
June 21.
Glass, Forming charges of molten. R. La France.
1,626,737; May 3.
Glass-forming machine. R. La France. 1,650,368;
Nov. 22.
Glass-forming machine. J. F. Rule. 1,642,828; Sept. 20.
Glass-forming machine. T. H. Sloan. 1,641,632; Jan. 18.
Glass-forming machine. L. D. Soubier. 1,626,703-4;
May 3.
Glass-forming machine. L. D. Soubier. 1,632,632;
June 14.
Glass-forming machine. G. E. Zeiler. 1,649,641; Nov. 15.
Glass-forming machine and process. O. A. Hanford.
1,633,634; June 28.
Glass, Forming sheet. J. C. Blair. 1,626,382; Apr. 26.
Glass, Forming sheet. T. C. McKinley. 1,646,488;
Oct. 25.
Glass from blowpipes, Apparatus for removing waste.
J. L. Dunnock and C. R. Nixon. 1,623,581; Apr. 5.
Glass furnace. G. D. Mantle. 1,639,657; Aug. 23.
Glass furnace. J. M. Neenan. 1,641,898; Sept. 6.
Glass-gathering ring. L. J. Houze. 1,628,465; May 10.
Glass-grinding machines. Grading and delivering sand to.
W. Cruikshank. 1,610,023; Aug. 23.
Glass-grinding process and apparatus. F. Gelstharp and
J. C. Parkinson. 1,615,833; Feb. 1.
Glass, Guiding device for molten. V. Mullholland.
1,619,432; Mar. 1.
Glass hopper. H. L. Johnston. 1,616,750; Feb. 8.
Glass in sheet form and apparatus therefor, Drawing of.
E. Kowart. 1,637,961; Aug. 2.
Glass into mold charges, Apparatus for separating mol-
ten. K. E. Peiler. 1,629,409; May 17.
Glass jar. F. J. de S. Coty. Des. 71,955; Feb. 8.
Glass jar. W. V. Johnston. Des. 72,771; May 31.
Glass jar. O. C. Noble. Des. 71,885; Jan. 18.
Glass joint, Art-. J. G. Susman. 1,620,300; Mar. 8.
Glass-knob mounting. W. R. Schlage. 1,653,514; Dec. 20.
Glass, Machine and method for drawing. C. W. Avery.
1,616,405; Feb. 1.
Glass, Machine for making bottles or other articles for.
A. McNish. 1,626,548; Apr. 26.
Glass machines, Flow feed for. S. E. Winder and H. C.
Daubenspeck. 1,648,435; Nov. 8.
Glass machines, Method and apparatus for regulating.
P. Kucera. 1,640,944; Aug. 30.
Glass, Making sheet. L. Showers. Re16,755; Oct. 4.
Glass, Manufacture of sheet. H. R. Schutz. 1,643,680;
Sept. 27.
Glass-manufacturing machine and method. P. Schoonen-
berg. 1,642,312; Sept. 13.
Glass manufacture, Plate-. F. S. Whitlock. 1,654,198;
Dec. 27.
Glass-melting furnaces, Pot for. G. Stein. 1,625,435;
Apr. 19.
Glass-melting tank. F. Gelstharp. 1,615,832; Feb. 1.
Glass-melting tank. K. G. Kutcha. 1,638,737; Aug. 9.
Glass, Method and apparatus for drawing sheet. E. T.
Ferngren. 1,647,403; Nov. 1.
Glass, Method and apparatus for feeding molten. W. T.
Baker, Jr. 1,645,221; Oct. 11.
Glass, Method and apparatus for grinding. J. W. Cruik-
shank. 1,622,091; Mar. 22.
Glass, Method and apparatus for producing a continuous
strip of. F. B. Waldron. 1,622,817; Mar. 29.
Glass, Method and apparatus for producing charges of
molten. L. D. Soubier. 1,642,904; Sept. 20.
Glass, Method and apparatus for producing sheet. E. T.
Ferngren. 1,631,804; June 7.
Glass, Method and apparatus for shaping articles of. V.
O. Cornwell and A. Moeller. 1,638,620; Aug. 9.
Glass, Method and apparatus for surfacing sheet. J. W.
Cruikshank. 1,644,369; Oct. 4.
Glass, Method of and apparatus for forming sheet. G. E.
Howard. 1,645,053-4; Oct. 11.
Glass-molding machine. V. Durand, Jr. 1,616,308; Feb. 1.
Glass mounts, Machine for making. C. Eisler. 1,637,989;
Aug. 2.
Glass objects and protecting the decorated surfaces, Deco-
rated. K. Varga. 1,646,408; Oct. 25.
Glass or glass-like objects, Manufacture of. E. Hope.
1,644,131; Oct. 4.
Glass-plate fastener. W. La Hodny and F. X. Kibitz.
1,631,038; May 31.
Glass plate, for a mirror or the like. W. La Hodny.
Des. 73,660; Oct. 18.
Glass-polishing apparatus. H. K. Hitchcock. 1,644,379;
Oct. 4.
Glass-polishing machine. C. W. Dake and R. S. Lewis.
1,626,025-6; Apr. 26.
Glass pressing and blowing machine. F. O'Neill.
1,642,590; Sept. 13.
Glass, Process and apparatus for drawing sheet. E. T.
Ferngren. 1,641,883; Sept. 6.
Glass, Process and apparatus for feeding. W. J. Miller.
1,628,324; May 10.
Glass, Process and apparatus for making sheet. L.
Boudin. 1,628,353; May 10.
Glass, Process and apparatus for melting. H. K. Hitch-
cock. 1,631,204; June 7.
Glass, Process of and apparatus for making sheet. R. O.
Stiwell and C. H. Christie. 1,637,881; Aug. 2.
Glass, Process of and apparatus for rolling. E. B. Le
Mare. 1,622,040; Mar. 22.
Glass-rod-cutting machine. H. D. Madden and J. J.
Higgins. 1,626,851; May 3.
Glass shades and product thereof, Manufacturing. E. A.
Gillinder. 1,652,779; Dec. 13.
Glass sheets, Apparatus for handling. H. K. Hitchcock.
1,622,380; Mar. 29.
Glass sheets, Apparatus for forming. G. A.
Shields. 1,617,653; Feb. 15.
Glass, Skimming. W. A. Rhoades and T. C. McKinley.
1,631,759; June 7.
Glass structure. H. B. Hawes. 1,632,330; June 14.
Glass-surfacing apparatus. H. K. Hitchcock. 1,638,768;
Aug. 9.
Glass-surfacing apparatus, Plate-. W. Owen. 1,651,224;
Nov. 29.
Glass-tank furnace. C. L. Clark. 1,652,608; Dec. 13.
Glass through a discharge aperture, Apparatus for con-
trolling the flow of molten. C. H. Rankin. 1,631,061;
May 31.
Glass tile, Apparatus for making reinforced. W. Owen.
1,644,349; Oct. 4.
Glass to molds, Conveying molten. L. D. Soubier.
1,653,477; Dec. 20.
Glass-transfer apparatus. H. K. Hitchcock. 1,651,206;
Nov. 29.
Glass tray or similar article. W. C. McCartney. Des.
72,026; Feb. 15.
Glass tube or rod, continuous manufacture of. P.
Schoonenberg. 1,637,458; Aug. 2.
Glass tubes, Machine for shaping ends of. R. H. Koenig.
1,645,215; Sept. 20.
Glass tubes, Device for cutting. E. Abelt.
1,624,197; Apr. 12.
Glass tubing, Method and apparatus for making. S. S.
Grotta. 1,653,848; Dec. 27.
Glass vessels, Manufacturing double-walled. W. Hodeck-
er. 1,623,311; Apr. 5.

- Glassware and process, Decorated. R. S. Hughes. 1,647,362; Nov. 1.
- Glassware, Apparatus for and method of annealing. O. C. Kuhrt. Shackelford. 1,642,790; Sept. 20.
- Glassware, Apparatus for annealing. O. C. Kuhrt. 1,638,401; Aug. 9.
- Glassware, Apparatus for annealing. V. Mulholland. 1,622,663; Mar. 29.
- Glassware, Apparatus for guiding and conveying hot. M. J. Owens. 1,626,747; May 3.
- Glassware, Apparatus for handling. G. E. Howard. 1,618,660; Feb. 22.
- Glassware, Apparatus for handling. W. S. Mayers. 1,650,900; Nov. 29.
- Glassware, Apparatus for handling. K. E. Peller. 1,634,091; Dec. 27.
- Glassware, Apparatus for shaping. R. W. Canfield. 1,625,690; Apr. 19.
- Glassware, Apparatus for the manufacture of. D. L. Middendorf. 1,642,741; Sept. 20.
- Glassware, Coloring. M. L. Burgess. 1,615,973; Feb. 1.
- Glassware in suction-fed molds, Fabricating. K. E. Peller. 1,626,575; Apr. 26.
- Glassware, Making hollow. R. W. Canfield. 1,635,704; July 12.
- Glassware, Method and apparatus for forming. E. Danner. 1,627,428; May 3.
- Glassware, Method and apparatus for manufacturing. W. E. Bock. 1,645,684; Oct. 18.
- Glassware-shaping machine. J. Davis. 1,642,722; Sept. 20.
- Glassware-transferring device. E. H. Lorenz and J. Davis. 1,637,490; Aug. 2.
- Glass washer, Drinking-. J. L. Harper. 1,653,627; Dec. 27.
- Glass wiper. J. H. Lehman. 1,636,910; July 26.
- Glasking apparatus. T. C. Steimer. 1,642,430; Sept. 13.
- Glass-working apparatus, Gathering means for. A. Kadow. 1,645,755; Oct. 18.
- Glass-working machine. J. T. Fagan and J. J. Malloy. 1,621,359; Mar. 15.
- Glass-working machine. M. K. Holmes. 1,642,658; Sept. 13.
- Glass-working machine. A. Samuelson. 1,620,292; Mar. 8.
- Glasses and bottle, Holder for. S. W. Farber. Des. 72,794; June 7.
- Glasses and like vessels, Apparatus for washing. J. H. Hardie. 1,633,662; June 28.
- Glasses and spectacles, Lens-clamping bracket for use with pince-nez. J. Lefèvre. 1,632,906; June 21.
- Glasses, Holder for. S. W. Farber. Des. 72,705-9; May 24.
- Glazing and glazing strip. S. B. Zimmer. 1,628,705; May 17.
- Glazing composition. C. S. Hudson. 1,646,731; Oct. 25.
- Glazing machine. D. E. Harding. 1,633,546; June 21.
- Glazing machine, Chain-drive. D. E. Harding. 1,635,081; July 5.
- Glazing machine, Leather-. E. C. and J. E. Morgan, and G. P. Pinzka. 1,654,428; Dec. 27.
- Glazing machine, Rotary. D. E. Harding. 1,649,769; Nov. 15.
- Glazing strip. E. Bunzel. 1,614,277; Jan. 11.
- Glide caster. J. L. Chesnutt. 1,638,725; Aug. 9.
- Globe. J. M. Ahn. 1,614,623; Oct. 4.
- Globe, Glass lighting. S. H. Barnes. Des. 71,780-1; Jan. 4.
- Gloss globe. H. J. Cummings. Des. 71,780-1; Jan. 4.
- Glove. R. E. Bolles. 1,654,279; Dec. 27.
- Glove. E. Burden. 1,620,434; Mar. 8.
- Glove. H. Gillian. 1,620,643; Mar. 15.
- Glove. F. Lamprou. 1,626,846; May 3.
- Glove. C. L. McBride, jr. 1,623,019; Mar. 29.
- Glove. J. R. McBurney. 1,643,391; Sept. 27.
- Glove. I. E. Steinberger. Des. 72,915; June 21.
- Glove. F. X. Sturm. Re16,609; May 3.
- Glove and making the same, Knitted. G. P. Bosworth. 1,641,570; Sept. 6.
- Glove and manufacturing same. G. Spivak. 1,641,701; Sept. 6.
- Glove and stocking form. L. E. Roach. 1,616,510; Feb. 8.
- Glove, Automobilist's. E. R. Palmer. 1,624,429; Apr. 12.
- Glove, Baseball. B. J. Craig. 1,633,926; June 28.
- Glove, Baseball. P. and B. Kennedy. 1,631,735; June 7.
- Glove, Baseball. A. J. Turner. 1,624,696; Apr. 12.
- Glove, Boxing. D. J. Kennedy. 1,622,322; Mar. 29.
- Glove, Fruit-pickers'. J. Lundblad. 1,640,004; Aug. 23.
- Glove or the like. W. E. Meyers. Des. 72,069; Feb. 22.
- Glove, Work. H. Gillian. 1,637,181; Nov. 25.
- Glove, Work. R. C. Fallick. 1,642,128; Sept. 13.
- Glove, Work. R. C. Fallick. 1,649,074; Nov. 15.
- Glow-discharge apparatus and operating the same. P. Thomas. 1,626,647; May 3.
- Glow-discharge transmitters, Electrode holder for. P. Thomas. 1,630,454; May 31.
- Glow-discharge tube. J. Massolle, J. Engl, and H. Vogt. 1,634,201; June 28.
- Glucose from materials containing cellulose, Production of. L. Meiler and H. Scholler. 1,641,771; Sept. 6.
- Glue. W. R. Long. 1,633,840; June 28.
- Glue and gelatin, Obtaining. G. R. Underwood. Des. 72,956; May 24.
- Glue between surfaces, Instantaneous setting of. G. J. Thoma. 1,624,691; Apr. 12.
- Glue, Casein. A. C. Marwin. 1,625,483; Apr. 19.
- Gluing machine. C. H. Ohlsson. 1,640,467; Aug. 30.
- Gluing machine for applying paper to wood, Automatic. J. H. Reynolds. 1,620,570; Mar. 8.
- Glycerin from fermented molasses mash and apparatus therefor, Recovering. J. W. Lawrie. 1,627,040; May 3.
- Glycerin from fermented molasses mash, Recovering. S. K. Varnes. 1,626,986; May 3.
- Glyoxal. Fracing. F. H. United. 1,641,710; Sept. 6.
- Glyoxal-dianthrquinone compound. R. Berliner, B. Stein, and W. Trautner. 1,646,782; Oct. 25.
- Goal and goal indicator. E. W. Hiett. 1,628,364; May 10.
- Goal-keeper's guard. E. O. Knischewsky. 1,647,452; Nov. 1.
- Goblet. E. M. Bottomo. Des. 72,917; June 14.
- Goblet. F. D. Greenan. Des. 72,827; June 14.
- Goblet. V. V. Loomis. Des. 72,162; Mar. 8.
- Goblet. V. V. Loomis. Des. 72,216; Mar. 15.
- Goblet. V. V. Loomis. Des. 73,751; Nov. 1.
- Goblet. R. I. Ratner. Des. 72,189; Mar. 8.
- Goblet. R. I. Ratner. Des. 72,635; May 10.
- Goblet or similar article. C. O. Northwood. Des. 72,631; May 10.
- Goblet or similar article. D. A. Ripley. Des. 72,032; Feb. 15.
- Goblet or similar article. F. Schmidt. Des. 73,051-55; July 12.
- Goblet or similar article. E. C. Schrader. Des. 72,968; June 28.
- Goblet or similar article. J. H. Venon. Des. 72,247; Mar. 15.
- Goblet or similar article. J. H. Venon. Des. 72,506-7; Apr. 19.
- Goblet or similar article. J. H. Venon. Des. 72,918; June 21.
- Goblet or the like. F. Schmidt. Des. 72,639; May 10.
- Gocart, Folding. G. B. Ambler. 1,653,533; Dec. 20.
- Goggle, Antiglare. H. K. Hallikman. 1,624,337; Apr. 12.
- Goggles. P. A. Dawson. 1,621,629; Mar. 22.
- Goggles. O. Franchini. 1,647,107; Oct. 25.
- Goggles. R. Malcom. 1,649,835; Nov. 22.
- Goggles. E. L. Schumacher. 1,636,443; July 19.
- Goggles. G. L. Tully. 1,635,867; July 12.
- Goggles. G. L. Tully. 1,651,488; Dec. 6.
- Goggles, Antiglare. H. K. Hallikman. 1,616,967; Feb. 8.
- Goggles, Golf. W. C. Brumder. 1,637,406; Aug. 2.
- Goggles or the like, foil. S. Freund and B. Stauffer. 1,621,502; Mar. 22.
- Gold-collecting cup. H. R. Tucker. 1,653,444; Dec. 20.
- Gold, Extracting. J. L. Warner. 1,621,697; Mar. 22.
- Gold from dilute solutions, Extraction of. W. O. Snelling. 1,617,353; Feb. 15.
- Gold-lettering machine. L. Schwarzmann. 1,648,007; Nov. 8.
- Gold-saving device. H. A. Crosby. 1,616,784; Feb. 8.
- Gold separator. S. Niles. 1,646,809; Oct. 18.
- Gold washer. T. F. X. Beaudet. 1,619,558; Mar. 1.
- Gold accessory. P. A. Czichos. 1,624,652; July 5.
- Golf bag. E. J. Brauer. 1,648,162; Nov. 8.
- Golf bag. A. D. Cross. 1,644,107; Mar. 15.
- Golf bag. F. D. Reddett. 1,616,446; Feb. 8.
- Golf bag. W. T. Grubb. 1,632,442; June 14.
- Golf bag. C. Hotze. 1,617,115; Feb. 8.
- Golf bag. W. L. Howland. 1,644,592; Oct. 4.
- Golf bag. R. T. Mullins. 1,636,194; July 10.
- Golf bag. J. E. Schanz. 1,640,809; Aug. 30.
- Golf-bag attachment. A. E. Whittier. 1,622,073; Mar. 22.
- Golf-bag bottom. G. L. Pierce and H. V. Rau. 1,628,188; May 10.
- Golf-bag carrier. F. Frisk. 1,628,771; May 17.
- Golf-bag top. H. V. Rau. 1,642,043; Sept. 13.
- Golf bags, Score-card-holder attachment for. J. P. and M. E. Hansman. 1,650,070; Nov. 22.
- Golf ball. G. W. Beldam. Des. 72,692-3; May 24.
- Golf ball. A. E. Penfold. Des. 73,046; July 12.
- Golf ball and making the same. W. C. Geer. 1,626,459; Apr. 26.
- Golf ball and making the same. T. W. Miller. 1,622,601; May 29.
- Golf-ball carrier. K. D. Primley. 1,648,565; Nov. 8.
- Golf-ball cleaner. J. C. Boeckh. 1,614,914; Jan. 18.
- Golf-ball marker. J. E. McGinness. 1,633,536; June 21.
- Golf ball marker. J. G. Will and C. F. McConnell. 1,641,562; Sept. 6.
- Golf ball putting. J. Martinez. 1,650,223; Nov. 22.
- Golf-ball tee. E. D. Merrill. 1,615,309; Jan. 25.
- Golf-ball tee, Automatic. T. C. Roberts. 1,637,537; Aug. 2.
- Golf balls, Apparatus for renewing surfaces of. W. P. Hammond. 1,630,244; May 24.
- Golf balls, Tee for. C. Kearney. 1,623,110; Apr. 5.
- Golf balls, Tee for. D. M. Striron. 1,614,499; Jan. 18.
- Golf club. G. E. Barnhart. 1,639,547-8; Aug. 16.
- Golf club. L. L. Bourke. 1,623,523; Apr. 5.
- Golf club. L. D. Brooks. 1,650,183; Nov. 22.
- Golf club. A. E. Buhke. 1,644,510; Oct. 4.
- Golf club. S. Burchart. 1,638,808; Aug. 16.
- Golf club. H. L. Coles. 1,618,038; Feb. 22.
- Golf club. R. L. Crankshaw. 1,619,566; Mar. 1.
- Golf club. S. W. Dawson. 1,618,640; Feb. 22.
- Golf club. L. Graverne. 1,652,404; Dec. 13.
- Golf club. W. J. Hadden. 1,648,806; Nov. 8.
- Golf club. E. Heller. Re16,808; Nov. 8.
- Golf club. E. L. Hubbard. 1,627,848; May 10.
- Golf club. C. J. Jahant. 1,636,514; July 19.

- Golf club. E. F. Lied. 1,648,854; Nov. 8.
 Golf club. G. W. Mattern. 1,620,118; Mar. 8.
 Golf club. E. V. Myers. 1,644,392; Oct. 4.
 Golf club. W. B. Pedersen. 1,616,920; Feb. 8.
 Golf club. F. R. Perkins. 1,621,897; Mar. 22.
 Golf club. R. D. Pryde and W. M. Day. 1,615,232; Jan. 25.
 Golf club. W. L. Questel and H. M. Rhind. 1,621,750; Mar. 22.
 Golf club. W. F. Reach. 1,642,462; Sept. 13.
 Golf club. C. H. Redman. 1,631,504; June 7.
 Golf club. J. Reuter, Jr. 1,615,093; Jan. 18.
 Golf club. C. Rigby. 1,613,860; Jan. 4.
 Golf club. C. Rigby. 1,634,082; June 28.
 Golf club. C. Rigby. 1,634,887; July 5.
 Golf club. S. W. Sleith. 1,643,754; Sept. 27.
 Golf club. W. L. Smith. 1,639,864; Aug. 23.
 Golf club. J. Vernon. 1,647,487; Nov. 1.
 Golf club. R. J. Walker. 1,652,519; Dec. 13.
 Golf club, Adjustable. W. R. Collins. 1,644,177; Oct. 4.
 Golf club, Adjustable. R. O. Wilson. 1,620,588; Mar. 8.
 Golf club and making the same. S. E. Collinson. 1,637,735; Aug. 2.
 Golf-club-carrying case and bag. H. A. Sampson. 1,637,535; Aug. 2.
 Golf-club handle. W. L. Questel and H. M. Rhind. 1,650,040; Nov. 22.
 Golf-club head. J. A. Hillerich. 1,654,257; Dec. 27.
 Golf-club head. R. R. Hodgkins. Des. 7,192; Feb. 1.
 Golf-club head. G. C. Worthington. 1,617,090; Feb. 8.
 Golf-club head, Adjustable. R. N. Longworth. 1,643,250; Sept. 20.
 Golf-club shaft. J. F. Babbitt. 1,630,249; May 31.
 Golf-club shaft. R. E. Dickinson, Jr. 1,631,926; June 7.
 Golf-club shaft. G. E. Nicholls. 1,626,476-7; Apr. 26.
 Golf-club shaft. W. F. Reach. 1,626,987; May 8.
 Golf-club shaft. W. F. Reach. 1,644,083; Oct. 4.
 Golf-club shaft or the like. E. H. Cowdery. Des. 73,777; Nov. 8.
 Golf clubs and the like. Attaching heads and shafts of. W. B. Sime. 1,651,843; Dec. 6.
 Golf clubs, Attachment for. F. O. Fish. 1,651,264; Nov. 23.
 Golf clubs, Grip for. R. S. Wallace. 1,617,972; Feb. 15.
 Golf clubs, Holder and carrier for. W. C. Ranney. 1,627,450; May 3.
 Golf clubs or the like, Shaft for. D. F. Boyden. 1,642,294; Sept. 13.
 Golf clubs, Protector for. C. W. and L. J. Hamel. 1,648,175; Nov. 8.
 Golf clubs, Score-sheet holder for. J. F. Egglestone. 1,649,293; Nov. 15.
 Golf-course maintainer. F. H. Smith and C. L. Sheely. 1,647,586; Nov. 1.
 Golf court. W. W. Malloy. 1,625,265; Apr. 19.
 Golf game. G. B. Allen. 1,623,518; Mar. 5.
 Golf game. H. D. Brewer. 1,621,057; Mar. 15.
 Golf-game apparatus. W. Gaston. 1,640,699; Aug. 30.
 Golf green. L. J. P. Lott. 1,638,862; Aug. 16.
 Golf instructor and exerciser, Mechanical. J. Hansen. 1,633,527; June 21.
 Golf instructor and exerciser, Mechanical. J. Hansen. Des. 7,334,102-3; June 28.
 Golf practice device and game. W. M. Chase. 1,626,326; Apr. 26.
 Golf practicing and training device. W. J. Goldsworthy. 1,640,765; Aug. 30.
 Golf putter and forming the same. D. H. Findlay. 1,622,864; Mar. 29.
 Golf putter guide. B. Knight. 1,616,377; Feb. 1.
 Golf putting apparatus. C. K. Woodin and W. W. Smith. 1,614,704; Jan. 18.
 Golf putting box. A. B. Scott. 1,614,399; Jan. 11.
 Golf-score register. C. M. Sheridan. 1,651,558; Dec. 6.
 Golf scoring device. T. F. O'Shea. 1,614,850; Jan. 18.
 Golf shaft or the like. D. F. Boyden. 1,643,573; Sept. 27.
 Golf stance-steadying device. R. Wolfe. 1,636,086; July 19.
 Golf stick. L. H. Brinkman. 1,653,428; Dec. 20.
 Golf-stick carrier. A. W. Malone. 1,621,329; Mar. 15.
 Golf-stroke-registering device. G. I. Thomson. 1,639,714-15; Aug. 23.
 Golf strokes, Instructing. M. J. Glennon and H. G. Higham. 1,637,339; Aug. 2.
 Golf tee. G. N. Bollinger. 1,630,288; May 31.
 Golf tee. W. J. Butler and R. L. Fitzgerald. 1,617,232; Feb. 8.
 Golf tee. C. E. Byington. 1,617,233; Feb. 8.
 Golf tee. J. Clark. 1,643,113; Sept. 20.
 Golf tee. G. Clausen. 1,637,551; Aug. 2.
 Golf tee. G. Clausen. 1,638,527; Aug. 8.
 Golf tee. G. Clausen. 1,641,155; Sept. 6.
 Golf tee. G. Clausen. 1,644,979-80; Oct. 11.
 Golf tee. R. J. Copeland. 1,627,012; May 3.
 Golf tee. L. M. E. Dent, A. Mackenzie, and J. White. 1,623,782; Apr. 5.
 Golf tee. G. H. Eddy. 1,616,683; Feb. 8.
 Golf tee. P. O. Fish. 1,647,440; Nov. 1.
 Golf tee. E. N. Hodges. 1,645,001; Oct. 11.
 Golf tee. E. H. Jones. 1,631,270; June 7.
 Golf tee. D. L. Mansson. 1,638,448; Aug. 9.
 Golf tee. C. A. McIlvaine. 1,635,376; July 12.
 Golf tee. H. L. Richards. 1,625,911; Apr. 26.
 Golf tee. A. J. Stone. 1,633,686; June 28.
 Golf tee. E. P. Webster. 1,629,981; May 24.
 Golf tee. P. E. Young. 1,636,655; July 19.
 Golf-tee anchor. J. E. Pryor. 1,632,801; June 21.
 Golf tee and score card, Combined. E. S. Whitcomb. 1,644,804; Oct. 11.
 Golf-tee guard. J. D. Mulvehill. 1,616,059; Feb. 1.
 Golf-tee holder. R. S. Breed. 1,627,145; May 8.
 Golf-tee-molding device. H. W. Kulp. 1,616,908; Feb. 8.
 Golfing tee. W. Lowell. 1,650,141; Nov. 22.
 Goods, merchandise, or the like, Displaying. F. J. Shelton. 1,643,224; Sept. 20.
 Goods, Packing of. D. George. 1,626,525; Apr. 26.
 Governor, device. T. Jackson. 1,633,180; June 21.
 Governor. H. Klanecky. 1,621,545; Mar. 22.
 Governor. H. S. Loomis. 1,623,193; Apr. 5.
 Governor. A. F. Meyer. 1,648,419; Nov. 8.
 Governor. F. B. Morrison. 1,640,713; Aug. 30.
 Governor. J. H. Van Ausdal and J. T. Blackburn. 1,633,505; June 21.
 Governor and governor stop. I. F. Burton. 1,648,109; Nov. 8.
 Governor, Auto-stop. D. C. Davis. 1,624,093; Apr. 19.
 Governor, Auto-stop. J. P. Rigbsby. 1,621,084; Mar. 15.
 Governor, Bolt-type emergency. F. C. Linn. 1,637,909; Apr. 2.
 Governor, Centrifugal. C. H. Smoot. 1,616,512; Feb. 8.
 Governor, Change-speed. C. S. Ricker. 1,624,008; Apr. 12.
 Governor control. J. B. Fisher. 1,624,227; Apr. 12.
 Governor, Emergency. J. Wilkinson. 1,623,822; Apr. 5.
 Governor, for rotating mechanisms. W. S. Bowen. 1,645,088; Oct. 11.
 Governor mechanism. F. E. Best. 1,644,167; Oct. 4.
 Governor mechanism. J. A. Friesen. 1,614,982; Jan. 18.
 Governor, Motor. W. Husman. 1,652,278; Dec. 13.
 Governor regulator. E. Rathbun. 1,632,349; Jan. 12.
 Governor, switch, Electric. C. C. Farmer. 1,615,365; Jan. 25.
 Gown, Morning. A. W. Stimson. 1,620,140; Mar. 8.
 Gown, Night. B. G. Spilsbury. 1,623,072; Apr. 5.
 Grab. D. J. Barnard. 1,633,905; June 21.
 Grab. A. E. Norris. 1,644,743; Oct. 11.
 Grab. W. G. Wehr. 1,630,456; May 31.
 Grab and the like, Lifting. F. W. Steiger. 1,646,938; Oct. 25.
 Grade crossing. H. Nottkie. 1,614,761; Jan. 18.
 Grade-crossing-protecting system. P. A. Bowen. 1,645,512; Oct. 18.
 Grade indicator. C. W. Cutter. 1,623,234; Apr. 5.
 Grade-marking apparatus. L. J. Grugman and E. A. Godley. 1,649,469; Nov. 15.
 Grader. W. F. Christel. 1,631,517; June 7.
 Grader. E. C. Gledhill. Re16,624; May 17.
 Grader, Fruit. F. L. Glaize and O. C. Cooper. 1,650,441; Nov. 22.
 Grader, Flower potato. H. Madson. 1,617,645; Feb. 15.
 Grader, Road. R. T. Mowbray. 1,617,538; Feb. 15.
 Grading and scraping machine, Road. J. W. Lehmkuhler. 1,646,156; Oct. 18.
 Grading apparatus. N. G. Morgan. 1,640,365; Aug. 30.
 Grading machine. W. T. B. Roberts. 1,640,372; Aug. 30.
 Grading machine for highway construction, Fine. R. D. Bahr. 1,653,333; Dec. 20.
 Grading machines, Pattern holder for. A. J. Therrien. 1,641,302; Sept. 6.
 Grading sand and grinding glass, Apparatus for. J. W. Cruikshank. 1,634,254; July 8.
 Gradometer. A. E. Coleman. 1,617,198; Feb. 8.
 Gradometer. S. E. Morrison. 1,620,380; Mar. 8.
 Gradometer. V. R. Will. 1,613,776; Jan. 11.
 Gradometer. A. D. Willson. 1,614,814; Jan. 18.
 Graduating machine, Multiple. H. N. Halversen. 1,624,549; Apr. 12.
 Graduating machine, Multiple. H. N. Halversen. 1,650,321; Nov. 29.
 Grain and hay stacker, Combined. J. Schrag, Jr. 1,636,650; July 19.
 Grain binders, Attachment for. B. H. Bura. 1,629,610; May 24.
 Grain binders, Shocking attachment for. G. W. Vetter. 1,637,668; Aug. 2.
 Grain cleaner. J. Volz. 1,617,187; Feb. 8.
 Grain cleaning and grading machine. P. D. Blackden. 1,620,865; Mar. 15.
 Grain conditioner. J. L. Guinan. 1,619,417; Mar. 1.
 Grain-cracking machine. S. Snyder. Re16,759; Oct. 4.
 Grain door. C. A. Johnson. 1,618,758; Feb. 22.
 Grain-door table. L. Smith. 1,652,802; Dec. 13.
 Grain drill, Multiple-section. J. L. Schrag. 1,617,967; Feb. 15.
 Grain-elevator heads, Dust and chaff collector for. W. A. Pettys. 1,624,800; Apr. 12.
 Grain-elevator garners, Dust-collecting system for. T. D. Budd and W. R. Sinks. 1,630,780; May 31.
 Grain elevators and the like, Bin-door dust-collecting system for. T. D. Budd and W. R. Sinks. 1,629,991; May 24.
 Grain, etc., Method and machine for thrashing. J. J. Trumb. 1,643,827; Sept. 27.
 Grain feeder, Automatic. S. P. Spain. 1,645,460; Oct. 11.
 Grain-feeding device. A. J. Hartley. 1,626,608; May 3.
 Grain loader. G. E. Thomas, Jr., W. P. Wade, and F. B. Ruwwe. 1,618,155; Feb. 15.

- Grain, Machine for treating. C. C. Calkins. 1,616,783; 8.
- Grain mixer. E. L. Benzel. 1,621,307; Mar. 15.
- Grain mixing and chemical-treating machine. O. Burgett. 1,625,521; Apr. 19.
- Grain or the like, Apparatus for drying, curing, ventilating, or otherwise treating. A. J. S. and L. J. D. Puzzi and A. P. Ordonez. 1,630,308; May 31.
- Grain pitcher, One-man hay or headed-. L. E. Daniel. 1,649,450; Nov. 15.
- Grain-reducing machine. O. P. Smith. 1,634,219; June 28.
- Grain-scouring apparatus. R. H. Barker. 1,639,364; Aug. 16.
- Grain seed, and the like, Portable apparatus for cleaning and grading. R. V. Judson. 1,616,000; Apr. 19.
- Grain separator. F. Bunse. 1,642,331; Sept. 18.
- Grain separator. A. Casey. 1,618,083; Jan. 4.
- Grain separator. H. O. Freeman. 1,617,246; Feb. 8.
- Grain separator. H. Mjolsness. 1,625,085; Apr. 19.
- Grain separator. N. B. Sandvig. 1,626,585; Apr. 26.
- Grain shocker. H. S. Dickinson. 1,614,778; Jan. 18.
- Grain shocker. H. S. Dickinson. 1,627,888; May 10.
- Grain shocker. C. and K. Esping. 1,614,782; Jan. 18.
- Grain shocker. G. Innes. 1,627,552; Feb. 15.
- Grain shocker. C. C. Kellogg. 1,626,612; May 3.
- Grain shocker. C. C. Kellogg and E. M. Kellogg, jr. 1,632,280; Dec. 13.
- Grain shocker. C. R. Raney. 1,632,148; June 14.
- Grain shocker. C. R. Raney. 1,643,173; Sept. 20.
- Grain shocker. S. H. Yancey and H. S. Dickinson. 1,639,478; Aug. 16.
- Grain sifter. A. Mironuck. 1,623,356; Apr. 5.
- Grain-sorting device. L. L. Ladd. 1,622,386; Mar. 29.
- Grain sprouter. B. J. Baskerville. 1,643,536; Sept. 27.
- Grain tester. M. Isaacs. 1,622,515; Mar. 29.
- Grain-testing machine. A. V. Cleland. 1,649,020; Nov. 15.
- Grain thrasher and cleaner, Combined. M. Davis. 1,633,153; Dec. 20.
- Grain washer, drier, and conditioner. D. Geddes. 1,622,580; Mar. 29.
- Grain washing and drying machine. D. Geddes. 1,624,831; Apr. 12.
- Grain weigher. W. Langerak. 1,631,376; June 7.
- Graining-plate filler and striker. H. B. Scott, J. C. Wideman, and H. Huey. 1,648,328; Nov. 8.
- Grains, Apparatus for treating. L. J. Puls. 1,629,050; May 17.
- Gramophone. E. L. Rankin. 1,646,316; Oct. 18.
- Gramophone record. H. A. Rogers. 1,632,313; June 14.
- Gramophone stand or similar article. H. W. S. Hoy. Des. 73,081; July 19.
- Gramophones and similar instruments, Sound box for. W. E. Naylor. 1,634,380; July 5.
- Grandstand. G. Hadden. Des. 73,499; Sept. 20.
- Granite block, Producing a polished surface on. E. A. Chase. 1,637,138; July 26.
- Granular material, Apparatus for compacting. G. Goebel. 1,627,601; May 10.
- Granular materials, Method of and apparatus for screening. R. A. Leahy. 1,616,701; Aug. 9.
- Granulating dry materials. F. L. Bryant. 1,621,869; Mar. 22.
- Grapefruit corer. J. Kovats. 1,622,874; Mar. 29.
- Graphic. P. M. Blond. 1,614,341; Jan. 11.
- Graphite, Purifying, enriching, or refining crude. E. J. E. Dumond. 1,614,352; Jan. 11.
- Graphophone needle. E. R. Haase. 1,619,863; Mar. 8.
- Grass and wood destroyer. J. H. Clipperton. 1,624,474; Apr. 12.
- Grass cutter. R. E. L. Sparks. 1,633,138; June 21.
- Grass digger. Quack-. W. Drefke. 1,636,048; July 19.
- Grass digger. Quack-. E. Pitcher. 1,623,451; June 14.
- Grass-root rake, Quack-. E. L. Morgenroth and C. R. Morgenroth. 1,626,046; Apr. 26.
- Grate. J. E. Pulverizer. 1,635,932; July 12.
- Grate. W. A. Hannum. 1,640,771; Aug. 30.
- Grate. S. S. Kennedy. 1,639,343; Aug. 16.
- Grate. O. W. Petersen. 1,614,317; Jan. 11.
- Grate. C. C. Ransdell. 1,627,866; May 10.
- Grate. L. T. Wilcox. 1,649,006; Nov. 15.
- Grate bar. J. J. Fleming. 1,622,634; Mar. 29.
- Grate bar. J. T. McDonald. 1,629,629; May 24.
- Grate bar. A. C. Mottl, Jr. 1,637,957; Aug. 2.
- Grate bar and support. A. E. Binder. 1,645,735; Oct. 18.
- Grate bar for fine fuel. H. A. Ellis. 1,633,931; June 28.
- Grate, Chain. W. M. Duncan. 1,613,316; Jan. 4.
- Grate, Chain. J. W. Wray. 1,649,557; Nov. 15.
- Grate, Cold-air. J. Hare. 1,632,128; Dec. 6.
- Grate construction. J. W. Wright. 1,619,842; Mar. 8.
- Grate, Dumping. S. J. A. Wiebe. 1,640,632; Aug. 30.
- Grate, Fire. A. S. Lomshakoff. 1,625,556; Apr. 19.
- Grate for grain thrashers, Separating. F. R. Fick. 1,617,624; Feb. 15.
- Grate, Furnace. J. H. Fryer. 1,634,991; July 5.
- Grate, Furnace. W. L. Harrison and C. W. Harrison. 1,642,812; Sept. 20.
- Grate, Furnace. C. L. C. Magee. 1,653,113; Dec. 20.
- Grate, Furnace. E. B. Priebe and D. P. Miner. 1,633,418; June 21.
- Grate, Furnace. J. T. Willard. 1,621,390; Mar. 15.
- Grate, housing. L. B. Zilair. 1,629,193; May 17.
- Grate link. A. P. Strong. 1,648,514; Nov. 8.
- Grate, Oven. F. E. Heath. 1,637,303; July 26.
- Grate, Revolving. E. R. Moore. 1,631,427; June 7.
- Grate section. W. W. Wynn. 1,621,302; Mar. 15.
- Grate, Stepped furnace. F. Seyboth. 1,644,953; Oct. 11.
- Grate stoker, Traveling-. A. E. M. Shafer and A. A. Norrman. 1,630,220; May 24.
- Grate structure. D. S. Van Wagenen. 1,617,186; Feb. 8.
- Grate, Water. J. G. Gibson. 1,624,230; Apr. 12.
- Grate, Water-cooled. J. Braunstein. 1,617,197; Feb. 8.
- Grate, Water-cooled. W. H. Cunningham and J. T. Rowan. 1,637,216; July 28.
- Grater. C. B. Hawkins. 1,633,700; June 28.
- Grating. C. B. Cushman. 1,636,592; July 19.
- Grating. J. A. Lundstead. 1,612,977; Jan. 4.
- Grating. A. E. Wells. 1,620,846; Mar. 15.
- Grates and manufacturing same, Forged. H. G. Tregillus. 1,650,055; Nov. 22.
- Grating structure, Continuous-. W. A. Van Hoffen. 1,629,134; May 17.
- Grates, Ash-sifter attachment for fire. L. S. Tenenbaum. 1,646,941; Oct. 25.
- Graveler. J. M. D. d'Arville. 1,622,995; Mar. 29.
- Grave marker. D. F. Forwood. 1,638,193; Aug. 9.
- Sept. 6.
- Grave marker. M. G. Slawson. 1,651,780; Dec. 6.
- Grave-marker mold. E. H. Pinkerton. 1,647,015; Oct. 25.
- Gravily balance. W. A. C. Schlueter. 1,649,746; Nov. 15.
- Gravity lock. P. Swanson. 1,647,434; Nov. 1.
- Gravity meter. W. C. Wright. 1,613,814; Jan. 11.
- Gravity separator and separation. E. O. Marty. 1,639,046; Aug. 16.
- Gravity table. F. J. Manrock. 1,623,427; Apr. 5.
- Gravity table. L. Nagy. 1,634,267; July 5.
- Grill, box or similar article. F. Schmidt. Des. 72,283; Mar. 22.
- Grease coupling, High-pressure. W. F. Hundemer. 1,637,612; Aug. 2.
- Grease cup. W. C. Brinton, jr. 1,644,234; Oct. 4.
- Grease cup. K. D. Montgomery. 1,634,112; June 28.
- Grease cup. J. W. Rhoades. 1,631,135; June 7.
- Grease cup. J. J. Thorp. 1,638,377; Aug. 9.
- Grease cup. N. W. Trautner. 1,632,934; June 21.
- Grease cup. J. T. Williams. 1,647,945; Nov. 1.
- Grease cup, Automatic. C. H. Berry. 1,632,872; June 21.
- Grease cup, Lubricating. G. V. Heidt. 1,648,228; Nov. 8.
- Grease dispenser, Pressure-operated. E. E. Lynch. 1,630,899; May 31.
- Grease, Emulsified solid. M. J. Heilmann. 1,632,027; June 14.
- Grease feeder, Automatic. E. B. Waddell, jr. 1,613,859; Jan. 11.
- Grease gun. J. A. Appleby. 1,643,761; Sept. 27.
- Grease gun. M. C. Bersted. 1,621,308; Mar. 15.
- Grease gun. C. G. Cooper and A. J. Dinkel. 1,621,657; Mar. 22.
- Grease gun. F. E. Liverance, jr. 1,628,624; May 10.
- Grease gun. P. MacKenzie. 1,621,172; Mar. 15.
- Grease gun. F. W. McNeely. 1,625,319; Apr. 26.
- Grease gun. N. Story, 3d. 1,647,941; Nov. 1.
- Grease-gun connection. H. W. Sanford. 1,632,149; June 14.
- Grease gun, High-pressure vacuum. M. A. Frank. 1,628,834; May 17.
- Grease guns, Cartridge for. J. F. Brommer. 1,636,407; Oct. 11.
- Grease guns, Quick-recharging top for. W. A. Thomas. 1,653,594; Dec. 20.
- Grease, Making. J. McKee. 1,619,352; Mar. 1.
- Grease, Making. J. McKee. 1,637,703; Aug. 2.
- Grease or oil gun or the like. W. M. Mayer. 1,644,687; Oct. 11.
- Grease package. L. W. Stevens. 1,646,264; Oct. 18.
- Grease retainer. N. W. Trautner. 1,624,852; Apr. 12.
- Grease retainer. W. L. Trautner. 1,638,378; Aug. 9.
- Grease retainer. R. Witkovsky. 1,629,059; May 17.
- Grease trap. E. A. Bell. 1,651,246; Nov. 29.
- Grease tube for facial make-up. F. (called) G. Baquey. 1,648,005; Oct. 18.
- Greenhouse-bar painter. R. S. Thompson. 1,645,976; Oct. 18.
- Greenhouse bench. C. W. Roberts. 1,618,999; Mar. 1.
- Greenhouse or conservatory bench. R. Mettetal. 1,621,850; Mar. 22.
- Greenhouses, Promoting health, growth, and development of plants in. W. S. Burke. 1,648,257; Nov. 8.
- Grenade, Hand. R. B. Lawrence. 1,620,475; Mar. 8.
- Grenades, Firing socket or cup for. E. Muttlet. 1,622,160; Mar. 22.
- Grid for filing stop motion. Movable. E. J. Dacey and W. E. Roberts. 1,651,116; Nov. 29.
- Grid leak. J. Connors. 1,621,832; Mar. 22.
- Grid leak, Variable. J. J. Ghegan. 1,618,003; Feb. 15.
- Grid-winding machine. E. E. Newton. 1,632,095; June 14.
- Griddle greaser. A. M. Jensen. 1,612,926; Jan. 4.
- Griddle or similar article. A. and M. Bersted. Des. 73,773; Nov. 8.
- Grille. G. W. Ackerman. Des. 73,769; Nov. 8.
- Grille. J. A. Wulfange. 1,622,363; Mar. 29.
- Grille for musical instrument. R. T. Davis. Des. 71,863; Jan. 18.
- Grind frame. A. L. Bell. 1,641,523; Sept. 6.
- Grinder. H. E. S. Chayes. 1,634,708; July 5.
- Grinder and making same, Ring wheel. G. E. Vance. 1,642,096; Sept. 13.

- Grinder, Clinker. F. Hodgkinson. 1,620,659; Mar. 15.
Grinder, Cocoa and chocolate. O. Thurmman. 1,620,702; Mar. 15.
Grinder, Cutter. J. B. Sinderson. 1,618,680; Feb. 22.
Grinder, Demountable drill bit. J. Maickel. 1,627,983; May 10.
Grinder, Drill. T. A. Jackson. 1,652,672; Dec. 13.
Grinder, Gear. M. Maag. 1,626,944-8; May 3.
Grinder, Gear. H. G. Shafer. 1,639,471; Aug. 16.
Grinder, Gear-tooth. H. Tanner. 1,626,890; May 3.
Grinder, Gear-tooth. A. L. Wilder. 1,622,693; Mar. 23.
Grinder, Harrow. H. F. Hanson. 1,642,553; Sept. 13.
Grinder head, Meat-. T. J. Marquis and J. S. Perrault. 1,644,425; Dec. 27.
Grinder head, Meat-. J. S. Perrault and J. T. Marquis. 1,619,632; Mar. 1.
Grinder, Internal. O. D. Kinsey. 1,636,137; July 19.
Grinder, Jacket-crown. C. F. Montag. 1,614,144; Jan. 11.
Grinder, Magazine. O. Andresen. 1,647,682; Nov. 1.
Grinder, Meat. M. E. Walker. 1,623,141; Apr. 5.
Grinder, Portable. M. Castillo. 1,633,885; June 28.
Grinder, Pulp. J. D. Ullgren. 1,626,015; Apr. 26.
Grinder, Saw. W. E. Knott. 1,647,366; Nov. 1.
Grinder, Saw-tooth. E. C. Orr. 1,620,165; Mar. 8.
Grinder shaft, F. H. Neuring. 1,623,116; Apr. 5.
Grinder, Valve. G. R. Rich. 1,630,889; Nov. 22.
Grinder, Valve. P. Tommel, jr. 1,616,399; Feb. 1.
Grinder, Wood. W. Stiel. 1,614,162; Jan. 11.
Grinders, Apparatus for feeding continuous wood-working. P. Priem. 1,644,148; Oct. 4.
Grinders, Driving mechanism for clinker. D. K. Beach. 1,651,433; Dec. 6.
Grinders, Driving mechanism for clinker. D. K. Beach and I. A. Taylor. 1,654,234; Dec. 27.
Grinders, Turning lathe for wood-pulp. J. J. Warren. 1,642,053; Sept. 13.
Grinding. G. R. Heim. 1,647,129-31; Nov. 1.
Grinding and drying apparatus. J. E. Bell. 1,632,109; June 14.
Grinding and drying apparatus. J. E. Bell. 1,641,409; Sept. 6.
Grinding and other machines, Indexing mechanism for. W. Smarr. 1,626,564; Apr. 26.
Grinding and polishing device, Roll. G. Bell. 1,614,097; Jan. 11.
Grinding and polishing machine, Marble. J. Glometti. 1,653,166; Dec. 20.
Grinding and separating apparatus. P. L. Crowe. 1,639,214; Aug. 16.
Grinding and separating apparatus. W. C. Hoover, R. D. Fritz, and E. F. Cahill. 1,626,466; Apr. 26.
Grinding and thinning machine, Twist-drill-point. H. W. and P. Hunt. 1,648,180; Nov. 8.
Grinding apparatus, Dry-pan. W. L. Hanley, jr. 1,648,176; Nov. 8.
Grinding ball and process of making. T. S. Curtis. 1,640,885; Aug. 30.
Grinding, crushing, and mixing machine or mill. J. E. Gernelle-Danloy. 1,636,360; July 19.
Grinding device. W. Storck. 1,624,753; May 17.
Grinding gun barrels, Apparatus for. J. L. Young. 1,630,688; May 31.
Grinding machine. J. L. Ballash. 1,644,812; Oct. 11.
Grinding machine. W. J. Baumberger. 1,631,188; June 7.
Grinding machine. W. J. Baumberger. 1,633,060; June 21.
Grinding machine. P. Brühl. 1,638,082; Aug. 9.
Grinding machine. E. B. Gardner, J. Nielsen, and R. D. Gardner. 1,651,382; Dec. 6.
Grinding machine. F. E. Gardner. 1,638,028; Aug. 9.
Grinding machine. F. E. Gardner. 1,649,823; Nov. 22.
Grinding machine. L. R. Heim. 1,644,057; Oct. 4.
Grinding machine. J. Holland-Letz. 1,616,713; Aug. 23.
Grinding machine. M. M. Kaufmann, J. P. Lynn, and F. C. Dell. 1,619,736; Mar. 1.
Grinding machine. H. Lutz. 1,632,379; June 14.
Grinding machine. E. F. Maas. 1,622,527; Mar. 29.
Grinding machine. R. McCleanthan. 1,614,076; Jan. 11.
Grinding machine. J. Miller, jr. 1,621,553; Mar. 22.
Grinding machine. J. F. Morgal. 1,627,853; May 10.
Grinding machine. R. L. Morgan. 1,633,568; June 21.
Grinding machine. G. A. Oliver. 1,625,049; Apr. 19.
Grinding machine. C. G. Olson. 1,612,830; Jan. 4.
Grinding machine. C. Schramm. 1,617,167; Feb. 8.
Grinding machine. F. D. Van Norman and G. W. Fleming. 1,644,801; Oct. 25.
Grinding machine. A. Vuilleumier. 1,624,642; Apr. 12.
Grinding machine, Cam-. H. H. Asbridge. 1,622,755; Mar. 29.
Grinding machine, Centerless. W. A. Addis. 1,616,296; Feb. 1.
Grinding machine, Centerless. C. H. Norton. 1,639,958; Aug. 23.
Grinding machine, Centerless. W. J. Peets. 1,635,339; July 12.
Grinding machine, Cutlery-. A. Hirst. 1,654,000; Dec. 27.
Grinding machine, Cylinder-. C. F. Dausmann. 1,652,769; Dec. 13.
Grinding machine, Face-. A. W. Morton. 1,640,715; Aug. 30.
Grinding machine, Glass-. G. Glaudel. 1,617,106; Feb. 8.
Grinding machine, Glass-. J. A. Milliken. 1,635,491; July 12.
Grinding machine, Gyrotory. C. M. Conradson. 1,631,247; June 7.
Grinding machine, Hob-. C. Knowles. 1,617,159; Feb. 8.
Grinding machine, Hob-. C. G. Olson and F. W. Englund. 1,616,590; Apr. 12.
Grinding machine, Internal-. F. O. Hoagland. 1,632,000; June 14.
Grinding machine, Lens-edge-. H. T. Daniels. 1,616,178; Feb. 1.
Grinding machine, Multiple-joint. A. W. and J. N. Martin. 1,648,991; Nov. 15.
Grinding machine, Multispindle internal-. W. L. Bryant. 1,624,211; Apr. 12.
Grinding machine, Roll-. G. W. Binns. 1,654,236; Dec. 27.
Grinding machine, Runner bar for plate glass. J. Didion. 1,643,928; Sept. 27.
Grinding machine, Steady-rest mechanism for. S. Einstein and L. F. Nenninger. 1,654,213; Dec. 27.
Grinding machine, Thread-chaser-. E. A. Moyer. 1,619,361; Mar. 1.
Grinding machine, Tool-. S. Langlais. 1,624,259; Apr. 12.
Grinding machines and the like, Induction motor for. A. W. Forbes. 1,614,292; Jan. 11.
Grinding machines, Device for maintaining the working surface of the grinding disk in. A. F. T. Löfquist. 1,649,713; Nov. 15.
Grinding machines for grinding clays, shales, and other dry and semidry materials, Grinding pan for. T. A. Hibbins. 1,640,772; Aug. 30.
Grinding machines for producing wood pulp, Apparatus for feeding mechanical. G. Nenzel. 1,652,044; Dec. 6.
Grinding machines, Knife-grinding attachment for meat-. G. S. Klein. 1,631,491; June 7.
Grinding machines, Relieving mechanism for. J. Bath and A. Walker. 1,651,432; Dec. 6.
Grinding mechanism. C. B. Keller. 1,635,792; July 12.
Grinding mechanism. H. Mason, W. Bixby, and H. L. Bogan, jr. 1,624,494; Apr. 12.
Grinding, Method of and machine for. L. Rupprecht and A. G. Koller. 1,622,849; Mar. 29.
Grinding mill, Cane-. F. Farrel, jr. 1,635,263; July 12.
Grinding, milling, or boring machines and the like, Feeding device for. C. O. Weber. 1,621,145; Mar. 15.
Grinding mills, Feed regulator for. J. S. Buckwalter. 1,629,377; May 17.
Grinding mills, Release clutch for. J. S. Buckwalter. 1,618,942; Feb. 22.
Grinding plane surfaces, Apparatus for. J. W. Cruikshank. 1,621,236; Mar. 15.
Grinding, refining, and mixing machine. J. McIntyre. 1,638,355; Aug. 9.
Grinding rolls. A. D. O'Brien and D. B. Geeseman. 1,618,942; Feb. 22.
Grinding stone. A. E. Maynard. 1,651,533; Dec. 6.
Grinding surfaces, Method and apparatus for. J. L. Young. 1,630,685; May 31.
Grinding threaded work. J. Bath. 1,614,225; Jan. 11.
Grinding tool. P. L. Starr. 1,624,634; Apr. 12.
Grinding tool, Cylinder-. P. L. Starr. 1,624,635; Apr. 12.
Grinding wheel. E. A. Chase. 1,635,607; July 12.
Grinding wheel. B. M. W. Hanson. 1,640,991; Aug. 30.
Grinding wheel and holder therefor. F. J. Tone. 1,641,791; Sept. 6.
Grinding wheel and method of grinding. G. Wirrer. 1,642,708; Sept. 20.
Grinding wheel, Sectional. P. H. Brandes and J. W. Adams. 1,641,799; Sept. 6.
Grinding wheels and applying the same, Bond for elastic. E. Anderson. 1,631,113; June 7.
Grinding wheels, Eye and face shield for. T. J. Kelleher. 1,633,412; June 21.
Grindstone. N. M. Baker. 1,647,722; Nov. 1.
Grip. H. J. Papin. 1,638,454; Aug. 9.
Grip, Hand. W. A. Howell. 1,643,891; Sept. 27.
Grip ratchet. W. L. Atkinson. 1,646,676; Oct. 25.
Grip tester. W. K. Edwards. 1,640,050; Aug. 23.
Gripping tool. S. A. Gruber. 1,616,121; Feb. 1.
Grizzly. F. J. Tuite and G. F. Dodge. 1,621,695; Mar. 22.
Grocery box. W. F. Folmer. 1,617,900; Feb. 15.
Grooved wheel. W. O'Brien. 1,638,702; Aug. 9.
Grooves in flat panels, Machine for cutting-. C. B. Norris. 1,623,020; Mar. 29.
Grooving and reinforcement-supporting device and process. P. J. McInerney. 1,634,262; July 5.
Grooving machine. B. A. Slocum. 1,637,501; Aug. 27.
Grooving machine, Box-joint. A. Colonna. 1,643,576; Sept. 27.
Grooving machine, Ring-. G. H. Higgins. 1,651,598; Dec. 6.
Ground brake. C. E. Atwood. 1,631,115; June 7.
Ground clamp. A. E. Feige. 1,616,847; Feb. 8.
Ground detector. C. C. Van Voorhis. 1,651,423; Dec. 6.
Ground-speed indicator. R. Kauch and C. L. Paulus. 1,643,121; Sept. 27.
Grounding arrangement. E. G. Merrick. 1,648,694; Nov. 8.
Grouser. R. C. Hawkins. 1,622,111; Mar. 22.
Grouser. T. G. Schmeiser. 1,647,019; Oct. 25.
Grouser. F. Weeks. 1,629,763; May 24.

- Grouting. A. E. Troiel. 1,628,933; May 17.
Growth. Support for parasite. P. W. Leffmand. 1,654,042; Dec. 27.
Grubber, Dandelion. R. B. Stastny. 1,624,442; Apr. 12.
Grubber or cultivator. G. K. Spitzenberg. 1,640,811; Aug. 30.
Guaiacol, Extracting of. O. Moser. 1,651,617; Dec. 6.
Guaiacol, Making. J. Gubelman, H. J. Weiland, and O. Stallman. 1,623,949; Apr. 5.
Guanidines, Making disubstituted. W. Scott. 1,630,769; May 31.
Guanidines, Preparation of substituted. E. Kline. 1,648,184; Nov. 8.
Guano distributor. E. M. Cole. 1,654,413-14; Dec. 27.
Guard. J. L. Vaughan and C. E. Justice. 1,647,065; Oct. 25.
Guard finger and ledger plate. L. J. Borkhuis, jr. 1,650,861; Nov. 29.
Guard fingers, Ledger-plate fastener for. M. M. Hustad. 1,629,793; May 24.
Guard mechanism. A. E. Kintner. 1,650,134; Nov. 22.
Guard rail. G. W. Whitman. 1,637,844; Aug. 2.
Guard-rail fastening. T. Maney. 1,638,739; Aug. 9.
Guard-rail structure. C. D. Young. 1,623,713; Apr. 5.
Guard rails, Foot guard for. E. C. Zimmerman. 1,644,048; Oct. 4.
Guarded-opening screen. M. E. Layne. 1,635,368; July 12.
Guide, Combination. C. D. Frey. 1,630,120; May 24.
Guide for side trackers. E. F. Raymond. 1,615,037; Jan. 18.
Guide for straightedges. R. C. Williams. 1,635,352; July 12.
Guide-rail lubricator. E. Weigels. 1,643,038; Sept. 20.
Guideway, Adjustable. E. W. Zeh. 1,635,030; Dec. 20.
Guitar. F. Monaco. 1,617,454; Feb. 15.
Guitars, Bar for. F. C. Meyer. 1,618,884; Feb. 22.
Gum, Chewing. W. H. Berg, R. C. Whitman, and E. F. Adams. 1,629,461; May 17.
Gum, Chewing. P. H. Raymer. 1,630,763; May 31.
Gum chicle dispersed in an aqueous colloid, Composition of. A. Biddle. 1,624,088; Apr. 12.
Gum material, Automatic stacher for raw-. W. R. Scott. 1,648,828; Nov. 8.
Gummed-tape-serving machine. W. A. Uetz, sr. 1,646,774; Oct. 18.
Gunning and creasing mechanism. A. Novick. 1,651,992; Dec. 6.
Gunning device. W. E. Molins. 1,651,146; Nov. 29.
Guns, Device for applying ointment to the. O. Temple. 1,622,618; Mar. 29.
Guns, Instrument for massaging the. P. E. E. Nuyts. 1,615,910; Feb. 1.
Gun. H. Wenzel. 1,614,053; Jan. 11.
Gun, Air. E. S. Roe. 1,616,469; Feb. 8.
Gun, Automatic. K. F. Adamson and H. J. Stambaugh. 1,648,469; Nov. 8.
Gun, Automatic. C. E. Grill. 1,617,683; Feb. 15.
Gun, Automatic. T. M. Jervey. 1,651,128; Nov. 29.
Gun barrel. C. L. Medearis. 1,628,896; May 17.
Gun barrel. N. E. Methlin. 1,634,754; July 5.
Gun barrels and improvements in gun barrels, Renovation of worn. P. Malaval and R. P. E. Paquellier. 1,635,721; July 12.
Gun barrels, Method of and apparatus for cooling. W. R. Bull. 1,631,190; June 7.
Gun carriage. H. Romberg. 1,620,739; May 24.
Gun carriages, Cradle lock for. H. C. Zimmerman. 1,619,173; Mar. 1.
Gun carriages, Crank axle for. H. C. Zimmerman. 1,620,852; Mar. 15.
Gun carriages, Training mechanism for. H. C. Zimmerman. 1,619,843; Mar. 8.
Gun carriages, Traveling lock for. E. Rimalho. 1,613,720; Jan. 11.
Gun cartridges, Grease-. R. L. Drake. 1,642,770; Sept. 20.
Gun, Concrete. R. C. Hackley. 1,619,297; Mar. 1.
Gun filler, Grease-. E. Brown. 1,616,780; Feb. 8.
Gunfire control. System of. E. M. Hewlett and W. W. Willard. 1,650,626; Nov. 29.
Gun-fire control. System of and apparatus for. E. M. Hewlett and W. W. Willard. 1,626,824; May 3.
Gun firing mechanism. A. S. Halsey. 1,651,699; Dec. 6.
Gun, Grease. H. T. Taylor. 1,616,997; Feb. 8.
Gun, Ice-cream. G. E. Farmer. 1,653,353; Dec. 20.
Gun, Loading. K. Tjossem. 1,639,013; Aug. 16.
Gunlock. A. R. Lerro. 1,643,952; Oct. 4.
Gun, Lubricating. D. L. Conklin. 1,646,081; Oct. 18.
Gun, Lubricating. H. Kreidel. 1,614,134; Jan. 11.
Gun, Lubricating. C. W. Manzel. 1,620,824; Mar. 15.
Gun, Machine. W. T. Gorton. 1,625,993-4; Apr. 26.
Gun, Machine. R. A. Hagen. 1,653,171; Dec. 20.
Gun mount. S. G. Green and J. S. Hatcher. 1,621,365; Mar. 15.
Gun, sight. J. Fischer. 1,622,193; Mar. 22.
Gun sight. H. B. Ingalls. 1,650,628; Nov. 29.
Gun sight. C. H. Latourell. 1,620,364; Mar. 8.
Gun sight. J. H. Redfield. 1,618,225; Feb. 22.
Gun sight. J. D. Woods. 1,641,019; Aug. 30.
Gun sight for night use. H. O. Russell and C. L. Patus. 1,635,059; July 5.
Gun-sighting device. C. Otto. 1,635,763; July 12.
Gun, Silica-brick. W. A. Miller. 1,617,959; Feb. 15.
Gun, Sporting. von Frommer. 1,618,247; Feb. 22.
Gun, Spray. H. D. Binks. 1,650,686; Nov. 29.
Gun, Spring. W. F. Schmidt. 1,633,795; June 28.
Gunstock, Adjustable. R. V. Stansel. 1,651,299; Nov. 29.
Gun unit, Machine-. T. M. Jervey. 1,630,532; May 31.
Gun valve, Rivet-cutting-. J. M. Crowe. 1,615,934; Feb. 1.
Guns and rifles, Locking mechanism of hammerless shot. J. Larsen. 1,616,501; Feb. 8.
Guns, Apparatus for directing the sighting of. R. W. Anderson. 1,624,523; Apr. 12.
Guns, Apparatus for indirectly laying antiaircraft. W. F. Grotendorst. 1,615,509; Jan. 25.
Guns, Automatic single-trigger mechanism for double-barrel. J. Kautzky, jr. 1,625,546; Apr. 19.
Guns, Barrel-locking device for breakdown. L. P. Smith. 1,624,879; Apr. 12.
Guns, Barrel-locking mechanism for breakdown. L. P. Smith. 1,624,877; Apr. 12.
Guns, Counting or registering apparatus for machine. R. C. Coupland. 1,653,698; Dec. 27.
Guns, Cradle for. H. C. Zimmerman. 1,650,752; Nov. 29.
Guns, Deflection vernier for machine. C. T. Schwab, jr. 1,652,499; Dec. 13.
Guns, Fire-control system for. J. C. Karnes. 1,635,365; July 12.
Guns, Firing control for automatic machine. J. M. Browning. 1,628,227; May 10.
Guns, Firing mechanism for multiple-barrel. P. W. Byrnes. 1,649,888; Nov. 22.
Guns for antiaircraft firing, Sight for machine. Y. P. G. Le Prieur. 1,651,093; Nov. 29.
Guns, Loader for. T. A. Conlon. 1,619,193; Mar. 1.
Guns, Mount for. S. G. Green. 1,643,491; Sept. 27.
Guns, Mount for machine. W. T. Gorton. 1,619,113; Mar. 1.
Guns, Mount for machine. T. M. Jervey and S. G. Green. 1,625,124; Apr. 19.
Guns, Projectile for smooth-bore. E. W. Brandt. 1,628,527; May 10.
Guns, Protecting attachment for repeating. A. R. Neef. 1,614,755; Jan. 18.
Guns, Rear sight for. S. G. Green. 1,621,476; Mar. 15.
Guns, Recoil pad for. A. H. Ammann. 1,642,835; Sept. 20.
Guns, Regulating automatically sweeping fire in machine. J. Schults and F. J. J. Furnemont. 1,625,775; Apr. 19.
Guns, Sear mechanism for. W. T. Gorton. 1,618,280; Feb. 22.
Guns, Semiautomatic rammer for. A. Dabrowsky. 1,629,663; May 24.
Guns, Single-trigger mechanism for multiple-barreled. D. W. French. 1,634,415; July 5.
Guns, Traversing gear for. H. C. Zimmerman. 1,620,851; Mar. 15.
Guns, Vehicle mount for. T. A. Conlon. 1,614,655; Jan. 18.
Gut, Treatment of. P. J. Wohl. 1,623,858; Apr. 5.
Gutter hanger. C. Mennier. Re16,622; May 10.
Gutter hanger. C. A. Meunier. 1,630,051; May 31.
Gutter hanger. W. Feizer. 1,640,369; Aug. 30.
Gutter hanger. E. Rachlin. 1,632,561; June 14.
Gutter hanger. M. Rachlin. 1,629,305; May 17.
Gutter-hanger circle. G. B. Geisler. 1,630,935; May 31.
Gutter-hanger circles, Support for. G. B. Geisler. 1,630,934; May 31.
Gutter, Scum. M. P. McArdle. 1,635,762; July 12.
Guy and guard, Combination. G. W. Perks. 1,630,356; May 31.
Guys and the like, Guard for. F. N. Bierce. 1,627,423; May 3.
Gymnastic apparatus. J. Pilates. 1,621,477; Mar. 15.
Gymnastic implement. A. Weschke. 1,631,388; June 7.
Gypsum product and producing same. L. M. Parkhurst. 1,640,918; May 15.
Gypsum product, Light-weight. H. E. Brookby. 1,638,001; Aug. 2.
Gyrat wheel. A. Moore. 1,625,327; Apr. 19.
Gyrocompass. J. B. Henderson. 1,625,361; Apr. 19.
Gyrocompass, Liquid-controlled. H. L. Tanner. 1,647,419; Nov. 1.
Gyrocompass relay transmitter. E. A. Sperry. 1,626,123; Apr. 26.
Gyroscopic-erection systems, Control of. F. G. Henry. 1,627,178; May 3.
Gyroscopic, Stabilizing. A. E. Schein. 1,617,309; Feb. 8.
Gyroscopic apparatus. C. M. Paxton. 1,639,233; Aug. 16.
Gyroscopic device. T. Umetsu. 1,613,301; Jan. 4.
Gyroscopic instrument and apparatus. J. B. Henderson. 1,644,921; Oct. 11.
Gyroscopic stabilizer. A. S. Chessin. 1,618,570; Feb. 22.
Gyroscopic stabilizer. C. E. Schueller. 1,621,815; Mar. 22.
Gyroscopic stabilizer system. B. G. Lamme. 1,640,549; Aug. 30.
Hacking machine. G. E. Luce. 1,276,656; May 10.
Hemacrylic compound. S. Trenner. 1,630,146; May 24.
Hemacrylic compound, Marking for. C. A. Hausser. 1,647,865; Nov. 1.
Hafnium and zirconium, Dissolving a mixture of hafnium and zirconium phosphates and for separating. A. E. Van Arkel and J. H. De Boer. 1,636,493; July 19.

- Hafnium and zirconium phosphates and separating hafnium and zirconium. Dissolving a mixture of. A. E. Van Arkel and J. H. De Boer. 1,618,494; Feb. 22.
- Hafnium and zirconium phosphates. Converting. J. H. de Boer. 1,624,162; Apr. 12.
- Hair and scalp. Apparatus for treating the. J. C. Casey. 1,637,035; July 26.
- Hair. Apparatus for permanently waving or curling. J. E. MacGregor. 1,617,260; Feb. 8.
- Hair. Apparatus for waving. F. R. Marcel. 1,643,783; Sept. 27.
- Hair. Apparatus for waving. C. G. Nessler. 1,614,756; Jan. 18.
- Hair. Apparatus for waving human. C. Posternock. 1,612,942; Jan. 4.
- Hair. Apparatus for waving human. C. Posternock. 1,617,134; Feb. 8.
- Hair-bobbing device. F. Lewis. 1,639,804; Aug. 23.
- Hairbrush. G. B. Aufesser. 1,628,289; May 10.
- Hairbrush. F. K. Weber. 1,628,291; May 10.
- Hairbrush with comb. A. Meltzer. 1,637,083; July 26.
- Hair clasp. J. Philipp. 1,618,670; Feb. 22.
- Hair clip. H. Naito. 1,624,428; Apr. 12.
- Hair clipper. A. H. Hicks. 1,643,559; Sept. 27.
- Hair clipper. J. H. Hines. 1,632,183; June 14.
- Hair clippers. Attachment for. H. F. Patenaude. 1,628,421; May 10.
- Hair clippers. Attachment for. M. L. Ruff. 1,625,747; Apr. 19.
- Hair clippers. Gauging attachment for. W. O. and V. L. Tancey. 1,649,999; Nov. 22.
- Hair clippers. Guard for. C. H. Redman. 1,621,641; Mar. 22.
- Hair comb. H. Lister. 1,632,238; June 14.
- Hair comb. J. W. Meek. 1,621,425; Mar. 15.
- Hair comb. J. S. Pickford. 1,621,269; Mar. 15.
- Hair comb. H. Sendelbeck. 1,614,631; Jan. 18.
- Hair comb and cutter. Combined. E. Seavey. 1,639,617; Aug. 16.
- Hair comb. Fountain. J. W. Burgewitz. 1,638,523; Aug. 9.
- Hair curler. M. C. Conant and C. Seely. 1,620,722; Mar. 15.
- Hair curler. S. Goldberg. 1,620,543; Mar. 8.
- Hair curler. K. McClaire. 1,619,743; Mar. 1.
- Hair curler. M. D. Meserole. 1,622,660; Mar. 29.
- Hair curler. L. J. Schumacker. 1,649,869; Nov. 15.
- Hair curler. W. T. Tabb. 1,631,989-90; June 14.
- Hair curler and waver. G. W. Anderson. 1,631,781; June 7.
- Hair curler and waver. H. Brinkschneider. 1,636,457; July 19.
- Hair curler and waver. P. Sartory. 1,616,090; Feb. 1.
- Hair curler. Electrical. A. B. Gordon. 1,653,302; Aug. 9.
- Hair curler. Spitless spit-curl. N. Fulton. 1,615,692; Jan. 25.
- Hair curling and waving device. A. H. Sexton. 1,626,254; Apr. 26.
- Hair-curling apparatus. P. Santurello. 1,623,758; Apr. 5.
- Hair-curling device. P. M. Beard. 1,630,560; May 31.
- Hair curling device. W. G. Shelton. 1,641,205; Sept. 6.
- Hair-curling iron. J. C. Mead. 1,650,932; Nov. 29.
- Hair-curling material and preparing the same. A. E. Ciarante. 1,647,958; Nov. 1.
- Hair cutter. F. Fawins. 1,615,328; Jan. 25.
- Hair-cutting comb. A. M. Widhows. 1,623,292; Apr. 5.
- Hair-cutting device. N. McGlashan. 1,634,788; July 5.
- Hair-cutting machine. L. Bernarducci. 1,633,063; June 21.
- Hairdress on natural hair. Fixing artificial. E. Syprotho. 1,627,469; May 3.
- Hairdressing appliance. T. J. and J. M. Martin. 1,623,630; Apr. 5.
- Hairdressing article. R. B. Stephens. 1,652,462; Dec. 13.
- Hairdressing implement. H. Durlacher. 1,654,117; Dec. 27.
- Hair drier. Electric. W. G. Shelton. 1,654,273; Dec. 27.
- Hair dye. M. A. M. Wheeler. 1,636,341; July 19.
- Hair guard and template. M. Schick. 1,629,741; May 24.
- Hair net. L. C. Hogan. 1,616,800; Feb. 8.
- Hair net. A. Knoll. 1,633,182; June 21.
- Hair ornament. E. R. Person. 1,649,040; Nov. 15.
- Hair. Permanent waving of. S. and H. Bonat. 1,640,345; Aug. 30.
- Hair-piece attachment. J. Oppenheim. 1,638,018; Aug. 9.
- Hairpin. G. E. Almqvist. 1,617,980; Feb. 15.
- Hairpin. W. P. Black. 1,651,802; Dec. 6.
- Hairpin. W. H. H. Davis. 1,621,924; Mar. 22.
- Hairpin. W. H. H. Davis and F. Celestano. 1,637,766; Aug. 2.
- Hairpin. A. J. Greenwith. 1,647,797; Nov. 1.
- Hairpin. L. J. Pearson. 1,618,385; Feb. 22.
- Hairpin. E. G. Sylvester. 1,614,809; Jan. 18.
- Hairpin box. V. A. Joy. 1,623,684; Apr. 5.
- Hair protector. A. Reinhold. 1,618,297; Feb. 22.
- Hair receiver. Barber's vacuum. W. Ellerhorst. 1,635,618; July 12.
- Hair-retaining comb. P. Eagle. 1,642,364; Sept. 13.
- Hair shield. W. Graham-Barnett. 1,613,095; Jan. 4.
- Hair snap. K. L. Heath and L. School. 1,623,034; Mar. 20.
- Hair-straightening device. M. L. Perry. 1,642,888; Sept. 20.
- Hair structure. W. Hepner. 1,634,190; June 28.
- Hair-tinting device. E. J. Matheson. 1,637,781; Aug. 2.
- Hair-treating method and composition. J. C. Brown. 1,637,469; Aug. 2.
- Hair treatment. Heating device for. A. E. Reimers and W. K. Tavender. 1,647,748; Nov. 1.
- Hair-trimming appliance. C. W. Jackson. 1,622,647; Mar. 29.
- Hair waver. M. Banach. 1,618,144; Feb. 15.
- Hair waver. B. E. Haynes. 1,623,838; Apr. 5.
- Hair waver. R. F. Minty. 1,646,162; Oct. 18.
- Hair waver. W. C. and E. D. Scherer. 1,653,229; Dec. 20.
- Hair waver. M. C. Steichen. 1,646,173; Oct. 18.
- Hair waver. I. Strabell. 1,643,226; Sept. 20.
- Hair waver. M. D. Worley. 1,629,567; May 24.
- Hair waver. Electrical. W. M. Nevotti. 1,643,168; Sept. 20.
- Hair waver or crimper. B. M. Beskow. 1,637,893; Aug. 2.
- Hair waving. S. Fisher. 1,641,751; Sept. 6.
- Hair waving and curling device. S. B. Hammerly. 1,652,356; Dec. 13.
- Hair waving and curling device. Electrical. R. L. Oppen and J. M. Oppen. 1,641,353; Sept. 6.
- Hair-waving apparatus. H. B. Baird. 1,631,571; June 7.
- Hair-waving apparatus. E. G. Unger. 1,653,792; Dec. 27.
- Hair-waving appliance and method. J. Mayer. 1,622,957; Mar. 29.
- Hair waving. Appliance for permanent. A. H. Bongers. 1,616,558; Feb. 22.
- Hair-waving appliance. Permanent-. J. Mayer. 1,619,794; Mar. 1.
- Hair-waving comb. G. B. O'Connor. 1,624,757; Apr. 12.
- Hair-waving comb. S. M. Wright. 1,642,636; Sept. 13.
- Hair waving. Curling pin for permanent. F. R. Marcel. 1,635,426; July 12.
- Hair-waving device. K. Eklund and M. A. Loock. 1,621,527; Mar. 22.
- Hair-waving device. H. Jacobs. 1,652,279; Dec. 13.
- Hair-waving device. I. Jayne and E. R. Rinker. 1,638,442; Aug. 9.
- Hair-waving device. L. Laznovsky. 1,623,736; Apr. 29.
- Hair-waving device. V. J. Moughin. 1,622,798; Mar. 29.
- Hair-waving device. C. G. Nessler. 1,614,757-8; Jan. 18.
- Hair-waving device. C. G. Nessler. 1,643,239; Nov. 8.
- Hair-waving device. E. C. A. Spontet. 1,618,487; Feb. 22.
- Hair-waving device. O. S. Wright. 1,632,753; June 14.
- Hair-waving device. Permanent. B. Bognar. 1,644,321; Oct. 4.
- Hair-waving device. Permanent-. W. A. Groff. 1,624,336; Apr. 12.
- Hair. Waving of. W. and H. McDonald. 1,630,396; May 31.
- Hair waving or curling device. L. H. G. Van Dijk. 1,636,896; Aug. 16.
- Hair-waving pad. H. W. Carrouh. 1,653,841; Dec. 27.
- Hair-waving tube. F. R. Marcel. 1,635,426; July 12.
- Hair wrapper. N. M. Adams. 1,633,507; June 21.
- Halogen-albumin compounds. Producing. R. Wolfenstein. 1,649,051; Nov. 15.
- Halogen. Substituting. K. Schölkopf. 1,645,974; Oct. 18.
- Halogenated hydrocarbons. Reduction of. A. F. S. Bel-lone. 1,627,881; May 10.
- Halogen-sulphonamides. Stable mixture yielding salts of. H. Gunzler and G. Wesenberg. 1,650,124; Nov. 22.
- Halter. F. D. Nelson and B. C. Lammers. 1,633,268; June 21.
- Ham boiler. H. Adelmann. 1,613,151; Jan. 4.
- Ham boiler. O. M. Otte. 1,642,168; Sept. 13.
- Ham presser. G. W. Scholten. 1,624,808; Apr. 12.
- Hams. Apparatus for reslapping. J. H. Appleton. 1,633,337; June 21.
- Hamburger press. D. A. Wallace. 1,648,834; Nov. 8.
- Hame for draft horses or mules. A. Pillet. 1,624,624; Apr. 12.
- Hame hook. F. R. Warren. 1,616,013; Feb. 1.
- Hammer. T. Abratis. 1,614,055; Jan. 11.
- Hammer. J. R. Collins. 1,640,393; Oct. 25.
- Hammer. A. B. Rosso. 1,639,614; Aug. 10.
- Hammer. Air-cooled pneumatic. C. H. Haeseler. 1,634,780; July 5.
- Hammer and drill. Electric. N. Pischonere. 1,636,923; July 26.
- Hammer. Automatic chisel. M. W. Gaillard. 1,641,031; Aug. 30.
- Hammer-blow steam trap. C. H. Thompson. 1,625,107; Apr. 19.
- Hammer. Bricklayer's. J. Martin. 1,648,616; Nov. 8.
- Hammer. Bush. J. J. Padbury. 1,634,298; July 5.
- Hammer. Centrifugal. G. P. Lucas. 1,630,021; May 24.
- Hammer crusher. G. W. Borton and W. A. Battey. 1,649,565; Nov. 15.
- Hammer. Drop. F. C. Billings. 1,649,380; Nov. 15.
- Hammer. Drop. M. W. Cole. 1,648,875; Sept. 27.
- Hammer. Drop. W. Merrill. 1,636,426; July 19.
- Hammer. Drop. M. C. Talcott. 1,651,493; Dec. 6.
- Hammer. Fluid-pressure. E. W. Stevens. 1,617,969; Feb. 15.
- Hammer. Fluid-pressure-operated. E. W. Stevens. 1,634,729; July 5.
- Hammer or riveter. Power-driven. H. P. Brumell. 1,621,103; Mar. 15.

- Hammer or the like. R. W. Mills. 1,628,897; May 17.
 Hammer, Pneumatic. E. L. Burton. 1,639,076; Aug. 16.
 Hammer, Pneumatic. J. L. Price. 1,625,374; Dec. 13.
 Hammer, Pneumatic. E. W. Stevens. 1,615,890; Feb. 1.
 Hammer-position indicator. L. P. Smith. 1,624,878; Apr. 12.
 Hammer, Power. F. H. Dorby. 1,620,525; Mar. 8.
 Hammer, Power. G. E. Heber. 1,640,570; Aug. 30.
 Hammer, Power. W. Kirchner. 1,612,859; Sept. 20.
 Hammer, Power. H. H. Miller. 1,633,995; June 28.
 Hammer, Power. H. H. Miller. 1,634,623; July 5.
 Hammer, Power. M. S. Reed. 1,653,590; Dec. 20.
 Hammer, Power. F. Schellerer. 1,642,560; Sept. 13.
 Hammer, Power. W. Trappell. 1,647,554; Nov. 1.
 Hammer, Power. F. A. Young. 1,647,493; Nov. 1.
 Hammer, Saw-swaging. J. Hasselberg. 1,638,632; Aug. 9.
 Hammer, Spring. L. Knöchel. 1,639,459; Aug. 16.
 Hammers, Chisel retainer for riveting. A. Levedahl. 1,613,399; Jan. 4.
 Hammers, Nail-driving attachment for pneumatic. C. O. Dick. 1,618,367; Feb. 22.
 Hammers, Shock absorber for pneumatic. A. D. Williams and F. J. Hickey. 1,642,759; Sept. 20.
 Hammers, Tool attachment for. L. W. Shaver. 1,620,923; Mar. 15.
 Hammers, Tool retainer for pneumatic. M. Strunack. 1,646,120; Oct. 18.
 Hammock, Automobile parcel. J. E. McGee. 1,616,591; Feb. 8.
 Hammock back, Automatic. S. Heyman. 1,650,714; Nov. 29.
 Hammock, Glide. C. Klein. 1,618,593; Feb. 22.
 Hammer. G. S. Faber. 1,653,556; Dec. 20.
 Hammer, Collapsible. H. T. Bradley and F. Jacobi. 1,632,269; June 14.
 Hammers, Adjustable bottom for. H. T. Bradley and F. Jacobi. 1,632,270; June 14.
 Hand and finger protector. G. G. Condon. 1,625,191; Apr. 19.
 Hand and forearm, Mechanical detachable. J. Smith. 1,630,277; May 31.
 Hand, Artificial. F. G. Gelse. 1,649,400; Nov. 15.
 Hand, Artificial. H. E. Hodgson. 1,625,317; Apr. 19.
 Hand bag. M. Baldwin. 1,643,440; Sept. 20.
 Hand bag. E. Elias. 1,627,496; May 3.
 Hand bag. R. Fishbein. 1,639,454; Aug. 16.
 Hand bag. J. Kirsch and A. Glibberman. Des. 73,614; Oct. 11.
 Hand bag. O. J. Malinsky. Des. 72,403; Apr. 12.
 Hand bag. H. Margolin. Des. 72,326; Mar. 29.
 Hand bag. C. J. McCabe and I. Schoenholz. 1,624,611-12; Apr. 12.
 Hand bag. E. L. Weber. Des. 73,419; Sept. 6.
 Hand bag accessory. F. J. Quigan and S. Carolin. 1,627,068; May 3.
 Hand bag, Collapsible. M. F. Roser. 1,636,838; July 26.
 Hand-bag frame. W. T. Goldsmith. Des. 73,564-5; Oct. 4.
 Hand-bag frame. E. Poeter. Des. 72,386-8; Apr. 5.
 Hand-bag frame. E. Poeter. Des. 73,146; July 26.
 Hand bag, Lady's. M. Borfuss. 1,622,806; Mar. 29.
 Hand bag, Lady's. M. White. Des. 72,744; May 24.
 Hand bag, Lady's. T. G. Williams. Des. 73,729; Oct. 25.
 Hand bag or similar article. S. Haskell. Des. 72,478; Apr. 19.
 Hand bag or similar article, Lady's. A. Sokol and S. Montag. Des. 71,814; Jan. 4.
 Hand bag, Small. J. A. Methot. Des. 72,178; Mar. 8.
 Hand bags and other articles, Interchangeable initial or ornamental decoration for. N. Greenbaum and A. Rosenband. 1,636,150; July 19.
 Hand bags and the like, Handle for. M. White and D. I. Reiter. 1,640,522; Aug. 30.
 Hand-brake booster. S. J. Strid. 1,612,994; Jan. 4.
 Hand carrying device. K. Moeller. 1,639,266; Aug. 16.
 Hand clamp. S. N. Coleman. 1,640,838; Aug. 30.
 Hand covering. P. A. Jones. 1,612,822; Jan. 4.
 Hand covering. G. A. Kurz. 1,625,368; Apr. 19.
 Handcuff. J. J. Murphy. 1,634,114; June 28.
 Hand drill. C. Bodmer and H. J. Cook. 1,642,986; Sept. 20.
 Hand guard. C. G. Hinze. 1,631,128; June 7.
 Hand gun, High-pressure. W. H. Opitz. 1,646,418; Oct. 25.
 Handkerchief. M. P. Bee. Des. 72,347; Apr. 5.
 Handkerchief. E. Journef. Des. 72,065; Feb. 22.
 Handkerchief. E. G. Myers. 1,650,030; Nov. 22.
 Handkerchief holder, Novelty. E. P. Goldsmith. 1,636,301; July 19.
 Handkerchief or similar article. C. Fenwick. Des. 74,051; Dec. 13.
 Handkerchief vanity and powder-puff holder. E. B. P. Crump. 1,652,611; Dec. 13.
 Hand painting machine. J. J. Able. 1,636,863; July 26.
 Hand press. W. Papke. 1,622,806; Mar. 29.
 Hand roller. F. H. Martin. 1,637,450; Aug. 2.
 Hand saw. J. C. Barr. 1,613,432; Jan. 4.
 Hand saw. W. L. Jacques. 1,641,168; Sept. 6.
 Hand saw. C. Patterson. 1,622,466; Mar. 29.
 Hand support for use in horizontal exercises. H. J. Bradstreet. 1,630,467; May 31.
 Handwheel. H. D. Geyer. 1,629,075; May 17.
 Handwheel. L. W. Lee. 1,638,044; Aug. 9.
- Handle. See—
 Automatic handle.
 Basket handle.
 Car-seat handle.
 Curtain handle.
 Detachable handle.
 Door-closing handle.
 Door handle.
 Flatiron handle.
 Golf-club handle.
 Mop handle.
 Shovel handle.
 Spring handle.
 Switch handle.
 Tool handle.
 Umbrella handle.
 Utensil handle.
 Vault handle.
- Handle. H. C. Binkley. 1,644,630; Oct. 4.
 Handle. W. A. Hastings. 1,645,381; Oct. 11.
 Handle. J. K. Kinnear. 1,641,226; Sept. 6.
 Handle and making same. A. J. Weatherhead, jr. 1,617,557; Feb. 15.
 Handle and the like, Molded. F. E. Layman. 1,625,322; Apr. 19.
 Handle assembly. T. P. Archer. 1,619,097; Mar. 1.
 Handle assembly. S. W. Nicholson. 1,636,011; July 19.
 Handle attachment. F. D. Bowen. 1,638,390; Aug. 9.
 Handlebars, Attachment for. E. K. Kühn. 1,640,454; Apr. 30.
 Handle-bending machine. W. S. Elliot. 1,626,190; Apr. 26.
 Handle device, Safety. W. Evans. 1,622,996; Mar. 29.
 Handle-fastening device, Tool. R. Gabriel. 1,644,576; Oct. 4.
 Handle for heated tools. F. Kuhn and L. H. Thomas. 1,618,444; Feb. 22.
 Handle-inserting machine. H. W. Lormor. 1,638,642; July 19.
 Handle knobs, Fastening. R. K. Winning. 1,648,524; Nov. 8.
 Handle support. C. March. 1,613,667; Jan. 11.
 Handles, Attachment for. H. Miller. 1,617,493; Feb. 15.
 Handles, Detachable fastening for. C. M. Keener. 1,645,490; Oct. 11.
 Handles to cleat plates, Apparatus for attaching. H. Miller. 1,642,458; Sept. 13.
 Handling and display system, Web. C. T. Bartlam. 1,615,298; Jan. 25.
 Handling and severing articles, Apparatus for. J. W. Fay. 1,641,257; Sept. 6.
 Handling apparatus, Material. W. B. Clifford. 1,651,253; Nov. 29.
 Handling articles. H. K. Spencer. 1,620,618; May 10.
 Handling material. R. T. Romine. 1,615,813; Jan. 25.
 Handpiece. W. R. Johnson and A. C. Canfield. 1,653,212; Dec. 20.
 Hand press, Sanitary noodle. F. De Fazi. 1,653,154; Dec. 20.
 Hand protector. I. C. Lairy. 1,654,331; Dec. 27.
 Hand punch. G. F. McGill. 1,653,057; Dec. 20.
- Hanger. See—
 Adjustable hanger.
 Beam hanger.
 Book hanger.
 Brake-beam safety hanger.
 Brake hanger.
 Bracket hanger.
 Broom and mop hanger.
 Chicken-roost hanger.
 Clothes hanger.
 Coat and trouser hanger.
 Curtain hanger.
 Cutter hanger.
 Door hanger.
 Eaves-trough hanger.
 Electrical-fixture hanger.
 Fixture hanger.
 Garment hanger.
 Gutter hanger.
 Hay track hanger.
 Joist hanger.
 Lamp hanger.
 Meat hanger.
 Mold-form hanger.
 Necktie hanger.
 Picture hanger.
 Pipe hanger.
 Pulley-block hanger.
 Radiator hanger.
 Sash hanger.
 Sausage hanger.
 Screen hanger.
 Seed-corn hanger.
 Sheet and curtain hanger.
 Spring-clip hanger.
 Spring hanger.
 Sucker-rod hanger.
 Tank hanger.
 Trousers hanger.
 Tubing hanger.
 Vehicle spring hanger.
 Window hanger.
 Window-screen hanger.
 Wire and cord hanger.
- Hanger. M. Bernhard. 1,615,866; Feb. 1.
 Hanger. C. J. Gibson. 1,647,794; Nov. 1.
 Hanger. C. L. Greer. 1,618,334; Feb. 22.
 Hanger. T. W. Kendall. 1,643,661; Sept. 27.
 Hanger. A. Montan and H. W. Falstrom. 1,634,377; July 5.
 Hanger and support. F. Obols. 1,635,900; July 12.
 Hanger box. R. F. Runge. 1,638,747; Aug. 9.
 Hanger box. M. S. Vile. 1,645,503; Oct. 11.
 Hanger clamp. C. C. Parrish. 1,654,383; Dec. 27.
 Hanger clamp, Adjustable. F. C. Harris. 1,613,394; Jan. 4.
 Hanger for wall closets. K. A. Wernlé. 1,650,057; Nov. 22.
 Hanger or support, Adjustable. C. E. Jewell. 1,631,209; June 7.
 Hangers, Attachment for garment. F. Stutz. 1,638,375; Aug. 9.
 Hanks or skeins, Machine for stretching. W. Gerber. 1,638,433; Aug. 16.
 Hardness-testing machine. R. B. Lewis. 1,622,455; Mar. 29.
 Hardness-testing machine and method of testing hardness. H. M. German. 1,646,195; Oct. 18.
 Hardware. Body. J. H. Bourgon. 1,633,077; Jan. 4.
 Hardware. Weatherproofing. C. J. Parsons. 1,622,046; Mar. 22.
 Harmonic frequency producer. W. A. Marrison. 1,639,045; Aug. 16.

- Harmonic generator. H. A. Affel. 1,646,438-9; Oct. 25.
 Harmonica. W. B. Yates. 1,637,289; July 26.
 Harness. A. W. and A. F. Pocan. 1,618,673; Feb. 22.
 Harness and coupling for window cleaners. Safety. B. Kugler. 1,649,240; Nov. 15.
 Harness, Baby. M. Breslin. 1,639,424; Aug. 16.
 Harness, Child's. R. E. Storey. 1,651,551; Dec. 6.
 Harness, Dog. W. D. Plantic. 1,614,083; Jan. 11.
 Harness frame. E. Weibel. 1,636,726; July 26.
 Harness rack. C. Olson. 1,613,477; Jan. 4.
 Harp damper. E. O. Starke. 1,637,539; Aug. 2.
 Harp, Jew's. G. B. Dusinger. 1,651,448; Dec. 6.
 Harrow. C. J. Buswell. 1,637,633; Aug. 2.
 Harrow. R. Eckardt. 1,651,086; Nov. 20.
 Harrow. A. E. Erickson. 1,617,997; Feb. 15.
 Harrow. R. C. Haugland. 1,623,114; Apr. 5.
 Harrow. A. B. Janosek. 1,625,318; Apr. 19.
 Harrow. E. H. Kesler. 1,616,261; Feb. 1.
 Harrow. T. Madden. 1,646,549; Oct. 25.
 Harrow. M. C. Myers. 1,629,356; May 17.
 Harrow. J. Nordstog. 1,628,799; May 17.
 Harrow. A. Walter and W. Kuttrof. 1,624,521; Apr. 12.
 Harrow. F. H. Zuehlke. 1,627,002; May 3.
 Harrow and smoothing blade, Combination. A. Fromherz. 1,618,076; Feb. 15.
 Harrow, Disk. L. Brenneis. 1,620,066; Mar. 8.
 Harrow, Disk. L. Brenneis. 1,621,622; Mar. 22.
 Harrow, Disk. L. Brenneis. 1,649,336; Nov. 15.
 Harrow, Disk. S. W. Cady. 1,639,451; Aug. 16.
 Harrow, Disk. W. D. Dewend. 1,619,857; Mar. 8.
 Harrow, Disk. P. W. Iseley. 1,616,576; Feb. 8.
 Harrow, Disk. F. Sweeney. 1,625,379; Apr. 19.
 Harrow, Disk. H. F. Towner. 1,627,355; May 3.
 Harrow disks and operating the same, Scraper for. J. H. Flatley. 1,648,381; Nov. 8.
 Harrow tooth. G. C. Haley. 1,645,482; Oct. 11.
 Harrow tooth. L. Reimers and N. Erickson. 1,622,343; Mar. 29.
 Harrow, Tractor. W. C. Dwyer and J. I. Mitchell. 1,632,122; June 14.
 Harrow weight-distributing device. R. L. Barton. 1,620,794; Mar. 15.
 Harrows, Draft evener for. J. A. Reimer and H. C. Hansen. 1,629,529; May 24.
 Harrows, Hand lift for. R. M. De Rosa. 1,626,793; May 3.
 Harrows, Tilting apparatus for. C. D. Brackelsberg. 1,646,273; Oct. 18.
 Harrows, Weeder attachment for. C. Johnston. 1,624,789; Apr. 12.
 Harrows, Weeder attachment for land. J. Sandhoff. 1,645,933; Oct. 18.
 Harvest bat. E. Wittecoff. Des. 73,462; Sept. 13.
 Harvester. L. Carter. 1,628,948; May 17.
 Harvester. H. B. Johnson. 1,629,215; May 17.
 Harvester and cleaner, Broomcorn. W. A. James. 1,646,981; Feb. 1.
 Harvester and cleaner, Cotton. P. M. Melton. 1,638,867; Aug. 16.
 Harvester and stooker. C. E. Stearns and C. H. Vogel. 1,646,462; Oct. 25.
 Harvesters and topping machine, Beet. J. W. Bright. 1,625,680; Oct. 25.
 Harvester, Bean and pea. M. B. Sample. 1,621,462; Mar. 22.
 Harvester, Beet. E. J. and O. H. Hammer. 1,620,019; Mar. 8.
 Harvester, Beet. J. Moreau. 1,635,494; July 12.
 Harvester, Beet. G. Wandscheer. 1,636,883; July 26.
 Harvester, Berry. T. F. Hall. 1,632,597; July 14.
 Harvester, Broomcorn. R. G. Patterson. 1,639,055; Aug. 16.
 Harvester, Corn. C. F. Kruse. 1,641,682; Sept. 6.
 Harvester, Corn. O. W. Powell. 1,642,892; Sept. 20.
 Harvester, Cotton. P. Carlson. 1,624,313; Apr. 12.
 Harvester, Cotton. W. E. Riza. 1,652,459; Dec. 13.
 Harvester, Ensilage. A. M. Grund. 1,630,693; May 31.
 Harvester, Onion. J. C. Larsen. 1,627,289; May 3.
 Harvester packer support. R. C. Livesay. 1,650,369; Nov. 22.
 Harvester, Potato. C. Jaspersen. 1,650,753; Nov. 29.
 Harvester, Potato. L. Willis. 1,650,562; Nov. 22.
 Harvester, Sugar-cane. G. D. Luce. 1,648,313; Nov. 8.
 Harvester, Sugar-cane. H. O. Scranton. 1,630,097; May 24.
 Harvester thrasher, Combination. W. F. MacGregor. 1,615,334; Jan. 25.
 Harvester thrasher, Combination. W. F. MacGregor. 1,632,745; June 14.
 Harvester, Tobacco. J. C. Trulove. 1,629,422; May 17.
 Harvester, Tractor. B. R. Benjamin and W. Webber. 1,642,149; Sept. 20.
 Harvesters, Driving mechanism for. G. H. Harris. 1,650,350; Nov. 22.
 Harvesters, Feeder mechanism and housing for combined. L. H. Thoon. 1,633,235; June 21.
 Harvesters, Floating elevator for. G. W. Witte. 1,624,703; Apr. 12.
 Harvesters, Gathering mechanism for onion. R. C. Zuckerman. 1,642,287; Sept. 13.
 Harvesters, Knottor-cam oiler for. W. Webber. 1,629,190; May 17.
 Harvesters, Lever system for power-drawn. W. J. Coultas. 1,648,113; Nov. 8.
 Harvesters, Motor mounting for corn. J. C. Erickson. 1,639,402; Aug. 16.
 Harvesters, Power drive for. A. L. Johnson and R. M. Mitchell. 1,646,455; Oct. 25.
 Harvesters, Sacking apparatus for potato. R. C. Zuckerman. 1,639,832; Aug. 23.
 Harvesters, Separator attachment for bean. G. E. Pritchard. 1,643,629; Sept. 27.
 Harvesters, Snapping roll for corn. G. C. Jett. 1,641,436; Sept. 6.
 Harvesting apparatus, Hay-. O. B. Paulson. 1,637,048; July 26.
 Harvesting flax and other plants. Machine for. M. Soeven. 1,643,684; Sept. 27.
 Harvesting machine. A. Apel. 1,652,808; Dec. 13.
 Harvesting machine. L. J. Cameron. 1,637,730; Aug. 2.
 Harvesting machine. P. W. Meacham. 1,644,537; Oct. 4.
 Harvesting machine, Broom-corn-. S. Udstad and W. T. Owens. 1,647,749; Nov. 8.
 Harvesting machine, Caner-. R. S. Falkiner. 1,651,920; Dec. 6.
 Harvesting machine, Corn-. J. Van Nortwick. 1,651,422; Dec. 6.
 Harvesting machine, Sugar-beet-. H. Chavez. 1,629,993; Mar. 22.
 Hashing machine. O. C. Schmidt and A. G. Klawitter. 1,637,965; Aug. 2.
 Hat. J. H. Bowditch. 1,635,456; July 12.
 Hat. J. H. Desmond. 1,626,272; Apr. 26.
 Hat. C. Lipper. 1,638,349; Aug. 9.
 Hat. F. D. Mason. 1,652,723; Dec. 13.
 Hat. F. D. Maxwell. 1,625,670; Apr. 19.
 Hat. C. E. Tracey. 1,616,475; Feb. 8.
 Hat and making same, Straw. E. Wittecoff. 1,641,310; Sept. 6.
 Hat and neck protector. L. Farkas. 1,646,193; Oct. 18.
 Hat and parcel carrier. H. C. Sloane. 1,632,568; June 14.
 Hat and shoe drawer, Combined. F. W. Meyer. 1,636,702; July 26.
 Hatband. N. L. Bootson. 1,643,335; Sept. 27.
 Hatband. O. Hills. 1,640,895; Aug. 30.
 Hatband. M. Kreh. 1,646,153; Oct. 18.
 Hatband, fastening and method of affixing hatbands. F. R. Roberts. 1,633,732; Dec. 27.
 Hatband, Telescopic. A. Walsh. 1,619,007; Mar. 1.
 Hat bandeau. J. M. Nelson. 1,637,126; July 26.
 Hat block. R. A. Bredow. 1,644,976; Oct. 11.
 Hat block, Adjustable. A. and A. C. Ryder. 1,630,803; May 31.
 Hat-block clamp. H. Diamond. 1,639,331; Aug. 16.
 Hatbox. A. Berkowitz. 1,628,745; Apr. 5.
 Hatbox. J. Dreyfus. 1,638,568; Aug. 9.
 Hatbox. J. A. Holtzman. 1,637,223; July 26.
 Hatbox. O. J. Wallinsky. 1,636,675; July 19.
 Hatbox, Collapsible. L. H. Williams. 1,647,679; Nov. 1.
 Hat brims, Renovating and reblocking. H. Heartfield. 1,625,889; Apr. 26.
 Hat cover. E. F. Chambliss. 1,632,786; June 21.
 Hat cover and carrier therefor. B. M. Williams. 1,635,916; July 12.
 Hat-crown block. J. Puley. 1,650,571; Nov. 22.
 Hat-crown shaper. A. Brodin. 1,649,338; Nov. 15.
 Hat-felling machine. F. Schaeffer. 1,622,295; Mar. 29.
 Hat formers. Signal means for. J. S. Robinson. 1,650,467; Nov. 22.
 Hat-forming machine. K. F. Kraney. 1,652,441; Dec. 13.
 Hat, Fisherman's. J. I. Williams. 1,623,768; Apr. 5.
 Hat holder. J. H. Gibson. 1,645,478; Oct. 11.
 Hat, Harvest. E. Wittecoff. 1,636,889; July 26.
 Hat, Lady's. G. H. Simon. Des. 73,763; Nov. 1.
 Hat, Lady's. G. H. Simon. Des. 73,946; Nov. 22.
 Hat, Lady's trimmed. E. M. Ach. 1,631,945; June 7.
 Hat lining and size reducer, Combined. L. Cohen. 1,651,015; Nov. 20.
 Hat lining, Vanity. J. M. Peedie. 1,613,675; Jan. 11.
 Hat or cap. W. T. Cosgrove. 1,614,231; Jan. 11.
 Hat protector. D. M. Hart. 1,632,598; June 14.
 Hat protector. C. F. Reuleke. 1,618,781; Feb. 22.
 Hatrack. V. T. Anderson. 1,649,207; Nov. 15.
 Hatrack. A. M. Yarbrough. 1,654,063; Dec. 27.
 Hat, Self-conforming straw. F. G. Phelps. 1,629,176; May 17.
 Hat-size reducer. L. Cohen. 1,643,004; Sept. 20.
 Hat-sizing machine. G. S. Boesch. 1,645,581; Oct. 18.
 Hay sling. R. E. Sturman. 1,651,978; Dec. 6.
 Hat stand. P. M. Twigg. Des. 73,452; Sept. 13.
 Hat, Straw. F. S. Bates. 1,633,353; June 21.
 Hat, Straw. C. Steinberg. 1,643,138; Sept. 20.
 Hat stretcher. M. J. Parsch. 1,634,051; June 28.
 Hat-tree. A. F. Allen. Des. 72,974; July 5.
 Hat, Ventilated. V. Zimmerman. 1,647,030; Oct. 25.
 Hats, Cover for military. M. E. Wesala. 1,616,780; Jan. 25.
 Hats, Memoranda holder for. T. Johnson. 1,641,812; Sept. 6.
 Hats, Sweatband for. E. M. Poon. 1,646,737; Oct. 25.
 Hat and holding. C. A. Finley. 1,614,949; Jan. 18.
 Hatways, Weather guard for. J. F. Grunbock. 1,640,188; Aug. 23.
 Hay and the like, Device for handling. J. W. Callahan and G. B. Dusinger. 1,638,498; July 19.
 Hay-bunching rake. E. F. Halliday. 1,628,971; May 17.

- Hay carriers, Trip head and rope attachment for. S. L. Hanson. 1,613,435; Jan. 4.
- Hayfork. H. S. Coleman. 1,634,137; June 28.
- Hay-handling apparatus. M. H. Madsen. 1,643,078; Sept. 20.
- Hay loader. G. J. Bowman. 1,626,178; Apr. 26.
- Hay loader. J. G. Taylor and H. Stoker. 1,623,447; Apr. 8.
- Hay presses, Hay remover and weigher for. J. G. Owens. 1,621,807; Mar. 22.
- Hayrake. W. F. Mottier. 1,623,062; Apr. 5.
- Hayrake, Sweep. G. R. Elmore. 1,640,031; Aug. 23.
- Hay stacker. E. Bryant. 1,647,955; Nov. 1.
- Haystacker. M. E. Fenner. 1,632,743; June 14.
- Hay-stacking device. G. W. Voelkel. 1,629,604; May 24.
- Hay sweep. R. Duggan. 1,652,350; Dec. 13.
- Hay-sweep load remover. B. G. Heywood. 1,627,703; May 10.
- Hay track hanger. E. M. Johnson. 1,653,769; Dec. 27.
- Headband. R. K. Siner. 1,626,453; Apr. 26.
- Headband attachment. E. A. C. Smith. 1,649,551; Nov. 15.
- Headband, Receiver. H. F. Obergefell. 1,651,623; Dec. 6.
- Head covering. M. R. Artau. 1,629,062; May 17.
- Headress. H. Wallman. 1,638,756; Aug. 9.
- Head gate. W. Murdock. 1,621,748; Mar. 22.
- Head gate. A. J. Smitham. 1,624,152; Apr. 12.
- Headlamp. J. H. Laird. 1,625,946; Apr. 26.
- Headlamp shield. S. F. Arbuckle. 1,635,879; July 12.
- Head lamps, Aircraft fitted with. A. Rohrbach. 1,648,463; Nov. 8.
- Headlight. C. H. Allen and G. S. Soseman. 1,651,984; Dec. 6.
- Headlight. W. D' A. Ayan. 1,647,149-50; Nov. 1.
- Headlight. W. P. Carstarphen. 1,614,650; Jan. 18.
- Headlight. C. R. B. Clafin. 1,627,688; May 10.
- Headlight. G. W. Draper. 1,625,246; Apr. 19.
- Headlight. W. R. Du Breuil. 1,635,116; July 5.
- Headlight. B. J. Giese. 1,618,425; Feb. 22.
- Headlight. L. K. Hoss. 1,618,010; Feb. 15.
- Headlight. W. B. Johnson. 1,619,617; Mar. 1.
- Headlight. F. M. Kinkead. 1,628,545; May 10.
- Headlight. C. L. Lawton. 1,642,160; Sept. 13.
- Headlight. S. F. Lucas. 1,622,953; Mar. 29.
- Headlight. C. A. Michel. 1,643,466; Sept. 27.
- Headlight. S. Moore and F. O. Sheets. 1,638,450; Aug. 9.
- Headlight. G. Rawak. 1,626,626; May 3.
- Headlight. W. E. Richard. 1,622,395; Mar. 29.
- Headlight. O. Ritz. 1,621,085; Mar. 15.
- Headlight. W. D. Ryan. 1,648,198; Nov. 8.
- Headlight. W. D. Ryan. 1,648,199; Nov. 8.
- Headlight. C. N. Scott. 1,621,224; Mar. 15.
- Headlight. R. H. Shippey and H. D. Van Leunen. 1,633,387; June 21.
- Headlight. J. B. Sineath. 1,617,463; Feb. 15.
- Headlight. E. J. Whalen. 1,641,714; Sept. 6.
- Headlight. W. G. Wood. 1,614,939; Jan. 18.
- Headlight and mounting therefor. Locomotive. C. P. McGinnis and C. W. Dake. 1,650,719; Nov. 29.
- Headlight anti glare shield. F. H. Fredette. 1,647,613; Nov. 1.
- Headlight attachment. S. Cordes. 1,618,365; Feb. 22.
- Headlight attachment. C. B. Frierson. 1,639,600; Aug. 16.
- Headlight, Automobile. F. W. Bedard. 1,614,821; Jan. 18.
- Headlight, Automobile. J. P. Carson. 1,653,493; Dec. 20.
- Headlight, Automobile. W. E. Jory. 1,620,356; Mar. 8.
- Headlight, Automobile. L. N. Kenward. 1,624,491; Apr. 12.
- Headlight, Automobile. M. H. Kern. 1,628,153; May 10.
- Headlight, Automobile. B. Morgan. 1,647,011; Oct. 25.
- Headlight, Automobile. O. Nelson. 1,630,860; May 31.
- Headlight, Automobile. P. Ring. 1,651,070; Nov. 29.
- Headlight, Automobile. G. Rodrigues. 1,651,042; Nov. 29.
- Headlight, Automobile. R. A. Russell, Jr. 1,618,108; Feb. 15.
- Headlight, Automobile. R. P. Tyler. 1,635,517; July 12.
- Headlight, Auxiliary. H. G. Smith. 1,634,694; July 5.
- Headlight, Controlled. R. H. Cloughley. 1,642,919; Sept. 20.
- Headlight construction. C. E. Godley. 1,625,648; Apr. 19.
- Headlight construction. C. E. Godley. 1,628,460; May 10.
- Headlight construction. O. R. Sell. 1,647,890; Nov. 1.
- Headlight construction for automobiles. Dirigible. S. F. Fletcher and H. J. Smith. 1,632,224; June 14.
- Headlight construction for automobiles. Dirigible. F. Greenlee. 1,631,412; June 7.
- Headlight control. T. J. Moan. 1,620,675; Mar. 15.
- Headlight control, Electric. L. Anderson. 1,654,067; Dec. 27.
- Headlight-control switch. J. Glzewski. 1,623,937; Apr. 5.
- Headlight-control switch. E. and H. Lewis. 1,629,397; May 17.
- Headlight-deflecting attachment. R. L. Anderson. 1,645,509; June 21.
- Headlight dimmer. Automobile. C. Zimmerman and W. T. Hamner. 1,652,082; Dec. 8.
- Headlight dimmer, Variable. W. Laventure. 1,630,621; May 31.
- Headlight dimming and spotlight controlling means, Combination. G. H. Hemphill. 1,627,445; May 10.
- Headlight-dimming mechanism. G. F. Phillips and T. H. Torlan. 1,631,057; May 31.
- Headlight-dimming, Vehicle. P. Doherty. 1,628,036; May 10.
- Headlight dipping mechanism. G. Pierce. 1,634,044; June 28.
- Headlight, Dirigible. A. E. Amans. 1,635,393; July 12.
- Headlight, Dirigible. A. J. Baker. 1,615,435; Jan. 25.
- Headlight, Dirigible. H. W. Boyd. 1,614,866; Jan. 18.
- Headlight, Dirigible. J. H. Burnfiel. 1,649,661; Nov. 15.
- Headlight, Dirigible. J. M. Dorton. 1,623,395; Apr. 5.
- Headlight, Dirigible. S. F. Foster. 1,632,442; June 21.
- Headlight, Dirigible. J. Glennon. 1,644,427; Oct. 4.
- Headlight, Dirigible. J. Ingalls. 1,648,349; Nov. 8.
- Headlight, Dirigible. G. S. Keck. 1,634,580; July 5.
- Headlight, Dirigible. A. C. Kollman. 1,617,160; Feb. 8.
- Headlight, Dirigible. B. B. McCannan and J. A. McLaughlin. 1,617,067; Feb. 8.
- Headlight, Dirigible. A. G. and W. Meyer. 1,615,129; Jan. 18.
- Headlight, Dirigible. W. M. Sweet. 1,639,865; Aug. 23.
- Headlight, Dirigible. T. F. Taylor. 1,640,738; Aug. 30.
- Headlight, Dirigible. W. V. Van Bitten. 1,639,119; Nov. 1.
- Headlight, Dirigible engine. S. N. Brach. 1,647,559; Nov. 1.
- Headlight-door remover and replacer. J. W. Heller. 1,633,628; June 21.
- Headlight-focusing attachment and pilot light therefor, Locomotive. C. P. McGinnis. 1,648,955; Nov. 15.
- Headlight for automobiles and the like, Dirigible. G. S. Keck. 1,651,133; Nov. 29.
- Headlight for automobiles and the like, Tilting. F. Pfeifer. 1,627,199; May 3.
- Headlight for automobiles, Dirigible. A. H. Johnson. 1,633,332; June 21.
- Headlight for automobiles, Dirigible. A. T. Nyblom. 1,627,060; May 3.
- Headlight for motor vehicles. F. W. Riehl. 1,628,193; May 10.
- Headlight for motor vehicles, Dirigible. H. Goodman. 1,632,026; June 14.
- Headlight for motor vehicles, Dirigible. E. G. Wentworth. 1,629,752; May 24.
- Headlight for spring bumper. A. W. Pattison. 1,644,945; Oct. 11.
- Headlight, Glareless. J. G. Ames. 1,613,370; Jan. 4.
- Headlight, Glareless. C. A. Middleton. 1,615,336; Jan. 25.
- Headlight-glare-protecting device. R. C. Hainline. 1,642,993; Sept. 20.
- Headlight glareshield. T. L. Day. 1,623,831; Apr. 5.
- Headlight lamps, Nonglare attachment for. R. P. McCurdy and F. W. Hochstetter. 1,617,262; Feb. 8.
- Headlight lens. J. Cathrill. 1,620,572; Mar. 15.
- Headlight. A. R. Gibson and H. E. Schorr. 1,627,498; May 3.
- Headlight lens, Automobile. G. D. Macbeth. Des. 72,066; Feb. 22.
- Headlight, Locomotive. C. Aalborg. 1,631,112; June 30.
- Headlight, Locomotive. J. R. Townsend. 1,628,862; May 17.
- Headlight mechanism, Dirigible. J. S. Rowley. J. W. Riggles, and H. E. McCully. 1,634,630; July 5.
- Headlight, Mine locomotive. J. R. Townsend. 1,635,564; July 12.
- Headlight mounting. H. D. Church. 1,639,486; Aug. 16.
- Headlight, Movable. C. E. Beaulac. 1,632,691; June 14.
- Headlight, Movable. F. B. Sugg. 1,640,326; Oct. 18.
- Headlight, Nonglare. J. B. and C. S. Nicholson. 1,640,288; Aug. 23.
- Headlight, Nonglare road and car illuminating. W. D. Baker. 1,642,190; Sept. 13.
- Headlight of automobiles, Swivelling. E. O. Rutter. 1,620,291; Mar. 8.
- Headlight, Operating. W. P. Reeves. 1,632,851; June 21.
- Headlight pilot. E. E. Reisinger and W. H. Reisinger. 1,613,805; Jan. 11.
- Headlight reflector. J. F. Reynolds. 1,621,752; Mar. 22.
- Headlight reflector. E. J. Richards. 1,631,159; June 7.
- Headlight-rim wrench. C. H. Presho. 1,620,739; Mar. 15.
- Headlight shield. F. W. Gerken. 1,651,763; Dec. 6.
- Headlight shield. E. C. Neufendor. 1,625,621; Apr. 10.
- Headlight shield. F. J. Topping. 1,621,181; Mar. 15.
- Headlight shutters, Operating device for automobile. G. N. Presa. 1,643,030; Sept. 20.
- Headlight switch, Automobile. B. F. Savary. 1,641,905; Sept. 6.
- Headlight, Vehicle. W. E. Adair. 1,652,340; Dec. 13.
- Headlight, Vehicle. G. Pierce. 1,634,043; June 28.
- Headlight, Vehicle. W. J. Pike and W. J. Gibson. 1,643,086; Sept. 20.
- Headlight wrench, Automobile. J. R. Rhoads. 1,640,296; Aug. 23.
- Headlights, Antiglare attachment for. H. L. Gordon. 1,619,720; Mar. 1.
- Headlights, Antiglare attachment for. O. A. King. 1,652,015; Dec. 6.
- Headlights, Antiglare device for vehicle. F. Rabbit. 1,615,199; Jan. 18.
- Headlights, Auxiliary reflector for automobile. E. Benders. 1,624,166; Apr. 12.

- Headlights, Controlling mechanism for. A. B. Wilson. 1,630,154; May 24.
- Headlights, Deflecting shade for. E. D. Smith. 1,638,967; Aug. 16.
- Headlights, Dimmer control for. L. P. Rogers. 1,618,355; Feb. 22.
- Headlights, Dirigible. J. H. Gillies. 1,619,068; Mar. 1.
- Headlights, etc., Treating reflectors for. J. W. Trimmer. 1,625,711; Apr. 5.
- Headlights for vehicles, Reflector for. W. H. Zorger. 1,653,142; Dec. 20.
- Headlights, Glare deflector for. N. R. Homyer and W. M. Homyer. 1,625,660; Apr. 19.
- Headlights, Glare shield for. M. P. Cullinan. 1,637,895; Aug. 2.
- Headlights, Light shade for. G. W. Wilkin. 1,646,436; Oct. 25.
- Headlights of motor vehicles, Light-deflecting attachment for. W. H. Ratnour. 1,638,408; Aug. 9.
- Headlights, Operating mechanism for dirigible. T. P. Bailey. 1,635,097; July 5.
- Headlights, Positioning apparatus for. J. D. Guiss. 1,649,777; Nov. 15.
- Headlights, Reflector attachment for vehicle. E. J. Markel. 1,644,686; Oct. 11.
- Headlights, Shield for auto. G. Pratt. 1,650,298; Aug. 22.
- Headlights, Shield for automobile. C. P. Hoefler. 1,631,130; June 7.
- Head protector. D. Oppenheim. 1,614,018; Jan. 11.
- Head protector, Adjustable. M. E. Harold. 1,627,847; May 10.
- Headrest. F. E. Masters and W. A. Hussey. 1,625,267; Apr. 19.
- Headrest. H. Rosswinkle. 1,644,402; Oct. 4.
- Headrest, Disappearing. C. Lane. 1,632,737; June 14.
- Headwear. A. Johnson. 1,631,210; June 7.
- Header plugs, Conserving. C. A. S. Swanson. 1,621,648; Mar. 22.
- Header reel. J. C. Eichelberger. 1,645,856; Oct. 18.
- Headers, upsetting machines, or the like, Cutting off blanks in. R. L. Wilcox. 1,622,935; Mar. 29.
- Heading device. O. Boerger. 1,615,066; Jan. 18.
- Heading machine. J. A. Forgey and J. B. Cusick. 1,613,449; Jan. 4.
- Heading machine and body-conveying means. J. Brenzinger and P. H. Lange. 1,625,639; Apr. 19.
- Heading machine, Single-stroke. J. Kuhne. 1,618,445; Feb. 22.
- Hearing shell. C. K. Schucker. 1,640,908; Aug. 30.
- Hearse, Casket-retaining device for. W. B. Parsels. 1,637,239; July 26.
- Hearse, Inner receptacle for. W. and A. E. Livingston. 1,628,893; May 17.
- Heat and cold, Apparatus for the transmission of. C. V. Pereda. 1,614,357; Jan. 11.
- Heat, Apparatus for the recovery of waste. J. Y. Propst. 1,636,336; Oct. 25.
- Heat applicator and electrode. K. Fukuyama. 1,618,526; Feb. 22.
- Heat-branding machine. A. Van Veen and G. F. Matteson. 1,630,282; May 31.
- Heat collector. L. T. Wilcox. 1,649,007; Nov. 15.
- Heat-conducting apparatus. R. S. Blair. 1,632,784; June 21.
- Heat conserver and dispenser. O. Lundell. 1,643,745; Sept. 27.
- Heat-control device, Oven. E. L. and W. E. Claus. 1,623,576; Apr. 5.
- Heat control in castings. H. S. Lee. 1,652,445; Dec. 13.
- Heat-controlling device. W. F. Clark. 1,643,575; Sept. 27.
- Heat deflector, Basket-grate. A. C. Axford. 1,617,473; Feb. 15.
- Heat distributor. N. E. Rice. 1,613,534; Jan. 4.
- Heat engine. R. W. Davenport. 1,619,195; Mar. 1.
- Heat engine. R. W. Davenport. 1,619,187; Mar. 1.
- Heat-exchange apparatus. F. S. Bennett. 1,618,797; Feb. 22.
- Heat-exchange apparatus. R. L. Munday. 1,639,051; Aug. 16.
- Heat-exchange apparatus. A. R. Vila. 1,630,148; May 24.
- Heat-exchange device. G. Pagel. 1,651,900; Dec. 6.
- Heat-exchange device, Regenerative. F. Ljungström. 1,652,025; Dec. 6.
- Heat-exchange device, Regenerative. H. B. Rudd. 1,617,867; Feb. 15.
- Heat-exchange roll. F. H. Banbury. 1,651,502; Dec. 6.
- Heat exchanger. C. F. Braun. 1,640,746; Aug. 30.
- Heat exchanger. E. Haber. Re16,807; Dec. 6.
- Heat exchanger. W. H. Kniskern. 1,649,120; Nov. 15.
- Heat exchanger. J. E. Kobernik. 1,648,646; Nov. 8.
- Heat exchanger. J. Price. 1,617,083; Feb. 8.
- Heat exchanger. R. L. Shipman. 1,615,658; Jan. 25.
- Heat exchanger. L. C. Whiton. 1,638,107; Aug. 9.
- Heat exchanger with self-draining tube surface. R. C. Jones. 1,641,975; Sept. 13.
- Heat exchangers, Expansion joint for. E. M. O'Donnell and D. D. Peebles. 1,626,869; May 3.
- Heat-exchanging apparatus. J. Forgan-Potts. 1,637,276; July 26.
- Heat-exchanging apparatus. W. and S. Yates. 1,619,776; Mar. 1.
- Heat-exchanging element. E. Haber. 1,635,838; July 12.
- Heat-exchanging mechanism. L. R. Stowe. 1,650,242; Nov. 22.
- Heat-generating apparatus. W. J. Maddrell. 1,616,271; Feb. 1.
- Heat in a projector upon the backing of the images to be projected, obviating the action of. F. Couade. 1,652,817; Dec. 13.
- Heat-insulating instrument, Motor. G. H. Townsend. Des. 73,392; Aug. 30.
- Heat indicator. H. H. Boyce. Des. 73,023; July 12.
- Heat indicator. H. E. Rider. 1,652,838; Dec. 13.
- Heat indicator for heated tools. R. Amodio. 1,625,014; Apr. 19.
- Heat-insulating construction material. A. Elmendorf. Des. 73,801; Jan. 28.
- Heat-insulating material and method of making it. W. H. Seigle. 1,613,137; Jan. 4.
- Heat-insulating unit. H. W. O'Dowd. 1,637,497; Aug. 2.
- Heat-interchange apparatus. G. A. Foisy. 1,624,487; Apr. 12.
- Heat-interchange apparatus. R. Seligman. 1,622,006; Mar. 22.
- Heat-interchange device. H. Kühni. 1,650,140; Nov. 22.
- Heat interchanger. W. B. Cronan. 1,645,801; Oct. 18.
- Heat interchanger. N. H. Hiller and E. B. McCabe. 1,634,714; July 5.
- Heat indicator. M. L. Bullard. 1,646,388; Oct. 25.
- Heat, Method and apparatus for generating and controlling. W. S. Hadaway. 1,627,735; May 10.
- Heat, Method and apparatus for utilizing. D. S. Jacobus and A. D. Pratt. 1,624,602; Apr. 12.
- Heat or vulcanizing device. R. W. Brown. 1,647,339; Nov. 1.
- Heat-producing composition. H. D. O'Neal and J. La Prain. 1,613,120; Jan. 4.
- Heat protector, especially for electric machines and apparatus, Automatic excess-. W. Hinkel and O. Pletscher. 1,642,953; Sept. 20.
- Heat rays, Indicator for. R. Mechau. 1,639,412; Aug. 19.
- Heat regulator. J. W. Houch. 1,638,582; Aug. 9.
- Heat regulator, Automatic. A. Wild. 1,617,886; Feb. 15.
- Heat regulator, Oven. A. Stockstrom. 1,617,871; Feb. 15.
- Heat regulator, Thermostatic oven-. B. E. Meacham. 1,640,245; Aug. 23.
- Heat-resisting glass. R. F. Brenner. 1,623,301; Apr. 5.
- Heat-resisting plate. F. A. Fahrwald. 1,643,766; Sept. 27.
- Heat retaining. P. A. Hasselblatt. 1,624,211; Apr. 12.
- Heat retainer and distributing element. J. B. Laughlin. 1,639,739; Aug. 23.
- Heat to waste-heat boiler plants, Method and apparatus for supplying additional. F. Falla. 1,614,109; Jan. 11.
- Heat-transfer apparatus. J. M. Seymour. 1,627,713; May 10.
- Heat-transfer apparatus, Control system for. H. H. Buckman. 1,648,672; Nov. 8.
- Heat-transfer apparatus for effecting. H. F. Smith. 1,617,600; Feb. 15.
- Heat-transfer apparatus, Tube disposal in. J. E. Ercanbrack. 1,616,179; Feb. 1.
- Heat transfer at high temperatures, Apparatus for. C. Field. 1,619,661; Mar. 1.
- Heat-transfer device. I. Haster. 1,626,958; July 26.
- Heat-transfer device. H. Webster. 1,641,999; Sept. 13.
- Heat-transfer system for aircraft. H. F. Parker. Re-16,644; May 31.
- Heat, Transforming. R. W. Davenport. 1,619,196; Mar. 1.
- Heat-transmission system, Liquid. D. M. Luehrs. 1,620,956; May 31.
- Heat-treating furnace. A. D. Keene. 1,617,396; Feb. 15.
- Heat-treating furnace. S. Westberg. 1,617,359; Feb. 15.
- Heater: See—
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| Air heater. | Hot-water heater. |
| Automatic heater. | Induction heater. |
| Automobile heater. | Intake-manifold heater. |
| Car heater. | Liquid heater. |
| Carburetor-manifold heater. | Manifold heater. |
| Condenser-type heater. | Oil-burning air heater. |
| Convection heater. | Oil-burning heater. |
| Crank-case heater. | Oil heater. |
| Electric heater. | Oil-well heater. |
| Electric water heater. | Orchard heater. |
| Electrical heater. | Radiant and convection heater. |
| Emergency heater. | heater. |
| Exhaust-gas heater. | Radiator heater. |
| Feed-water heater. | Rivet heater. |
| Fireplace heater. | Roll heater. |
| Floor heater. | Room and iron heater. |
| Fresh-air heater. | Tank heater. |
| Fuel heater. | Thermoelectric heater. |
| Gas heater. | Vehicle heater. |
| Gas-log heater. | Vertical-type water heater. |
| Hot-air and hot-water heater. | Water heater. |
| Hot-water and steam heater. | Water-tube heater. |
| | Windshield heater. |
- Heater. W. F. Allen. Re16,677; July 12.
- Heater. T. F. Castle. Des. 72,144; Mar. 8.
- Heater. H. V. Deemar. 1,627,235; May 3.
- Heater. H. L. Gilbert. 1,649,218; Nov. 15.
- Heater. M. F. Gilbert. 1,627,086; May 3.
- Heater. P. H. Hamilton. Des. 73,175; Aug. 2.

- Heater. S. Heitler. 1,621,668; Mar. 22.
 Heater. H. L. Horning, J. B. Fisher, and A. W. Pope, jr. 1,638,581; Aug. 9.
 Heater. S. F. Jackes. Des. 72,768; May 31.
 Heater. A. T. Johanson. 1,616,960; Feb. 8.
 Heater. B. B. Kahn. Re16,707; Aug. 16.
 Heater. B. B. Kahn. Des. 72,264; Mar. 22.
 Heater. T. H. Kennedy. 1,623,415; Apr. 5.
 Heater. W. Kennedy. 1,646,026; Oct. 18.
 Heater. E. P. Landsberger. 1,618,761; Feb. 22.
 Heater. M. R. Lehman. Des. 72,773; May 31.
 Heater. L. J. Lévesque and J. Lessard. 1,619,425; Mar. 1.
 Heater. J. E. McMinna. Des. 72,177; Mar. 8.
 Heater. J. E. McMinna. Des. 72,560; May 3.
 Heater. L. W. Mills. 1,634,265; July 5.
 Heater. E. C. Molby. 1,643,026; Sept. 20.
 Heater. F. P. Muehlenbeck. 1,629,116; May 17.
 Heater. P. Neusser. 1,640,287; Aug. 23.
 Heater. M. L. Packer. Des. 72,108; Mar. 1.
 Heater. F. Rayman. 1,635,636; July 12.
 Heater. W. W. Ridgely. 1,648,622; Nov. 8.
 Heater. W. G. Scherer. 1,647,315; Nov. 1.
 Heater. R. W. Spake. Des. 72,532; Apr. 26.
 Heater. J. C. Thomas, J. F. Halliday, and A. Hill, jr. 1,652,067; Dec. 6.
 Heater. L. P. Webert. 1,638,974; Aug. 16.
 Heater. A. F. Zverina. 1,648,600; Nov. 8.
 Heater and drier. O. A. Knopp. 1,637,488; Aug. 2.
 Heater and maintenance apparatus, Combination. H. P. Andresen. 1,613,736; Jan. 11.
 Heater and operating same, Air. B. and B. A. Ljungström. 1,649,605; Nov. 15.
 Heater and purifier. J. Gruber. 1,623,242; Apr. 5.
 Heater and purifier, Water. H. E. Moffat. 1,624,557; Apr. 12.
 Heater and retarder, Air. E. H. Swift. 1,618,238; Feb. 22.
 Heating and steaming instrument, Therapeutical. L. J. Hassly. 1,653,901; Dec. 27.
 Heater and stove, Electric. J. J. Libi. 1,621,171; Mar. 15.
 Heater casing, Parlor-. A. M. Mertzsoff. Des. 73,532-3; Sept. 27.
 Heater casing, Water-. C. B. Waters. Des. 74,086; Dec. 13.
 Heater control, Fluid. F. M. Poole. 1,615,478; Jan. 25.
 Heater control, Multiple. H. A. Hands. 1,619,510; Mar. 1.
 Heater cover, Automobile. E. P. Gray. 1,640,187; Aug. 23.
 Heater for automobiles. H. Hanson. 1,621,199; Mar. 15.
 Heater for automobiles. J. W. Kelch and J. J. Sunday. 1,628,671; May 17.
 Heater for automobiles. J. J. Sunday. 1,628,691; May 17.
 Heater for curling irons and the like. W. Meyer. 1,625,487; Apr. 19.
 Heater for fluids, Electric. J. H. Valiquette. 1,635,591; July 12.
 Heater for hair waving. B. F. Jancke. 1,618,592; Feb. 22.
 Heater for hair waving. W. S. Lewis. 1,647,965; Nov. 1.
 Heater for rolls. R. L. McIntosh. 1,644,069; Oct. 4.
 Heater for transformer oil. D. G. McArn. 1,634,719; July 5.
 Heater lighter, Orchard-. H. G. Graf. 1,640,222; Nov. 15.
 Heater or boiler, Water. L. J. Mitchell. 1,640,284; Aug. 23.
 Heater or fumer. I. E. Aske. 1,643,438-9; Sept. 27.
 Heater or vaporizer, Electric. L. E. Aske. 1,616,247; Feb. 1.
 Heater-supporting shield. W. S. Lewis. 1,647,964; Nov. 1.
 Heating. C. L. Bryant. 1,649,097; Nov. 15.
 Heating and cooling at high temperatures. C. Field. 1,619,662; Mar. 1.
 Heating and cooling device, Electrical. W. J. Noonan. 1,622,803; Mar. 29.
 Heating and for controlling reactions at high temperatures, Apparatus for. C. Field. 1,619,663; Mar. 1.
 Heating and drying device. F. J. Cook. 1,634,649; July 5.
 Heating and humidifying device. G. E. Ryan. 1,619,092; Mar. 1.
 Heating and ventilating apparatus. A. R. Teare. Re16,761; Sept. 27.
 Heating and ventilating apparatus. J. A. Wolfe. 1,626,172; Apr. 26.
 Heating and ventilating device. S. R. Lewis. 1,640,331; Aug. 23.
 Heating and ventilating systems, Unit for. J. M. Frank. 1,626,400; Apr. 26.
 Heating apparatus. H. P. Hanson. 1,639,941; Aug. 23.
 Heating apparatus. J. T. Janette. 1,651,060; Nov. 29.
 Heating apparatus. W. W. Miller. 1,635,379; July 12.
 Heating apparatus. T. J. Peace. 1,622,807; Mar. 29.
 Heating apparatus. H. F. Smith. 1,639,114; Aug. 16.
 Heating apparatus, Air. C. D. Mosher. Re16,531; Jan. 11.
 Heating apparatus, Automatic electric connection plug for electric. M. C. Bersted. 1,620,184; Mar. 8.
 Heating apparatus, Burner for. J. B. Anderson and J. B. Garner. 1,642,762; Sept. 20.
 Heating apparatus, Burner unit for gas-. H. W. O'Dowd. 1,647,712; Nov. 1.
 Heating apparatus, Combination. W. Mooney. 1,621,640; Mar. 22.
 Heating apparatus, Control device for. E. P. Bogan. 1,637,369; Aug. 2.
 Heating apparatus, Electric. C. E. Johnson. 1,633,747; June 25.
 Heating apparatus, Electric. J. P. Sunderland. 1,645,029; Oct. 11.
 Heating apparatus, Electrical. G. H. and H. F. Collins. 1,615,742; Jan. 25.
 Heating apparatus, Electrical. F. F. Forshee. 1,624,402; Apr. 12.
 Heating, Apparatus for central. H. Moreau. 1,629,043; May 17.
 Heating apparatus, Metal-. E. J. Miller. 1,652,371; Dec. 13.
 Heating apparatus, Steam-. F. J. Douglass. 1,645,522; Oct. 2.
 Heating apparatus, Water-. R. L. Geaslen. 1,651,692; Dec. 6.
 Heating apparatus, Water-. O. C. Grutter. 1,628,664; May 17.
 Heating appliance, Electrical. M. S. Williams. 1,633,801; June 25.
 Heating attachment. A. W. Becker. 1,642,292; Sept. 13.
 Heating boiler feed water. B. R. Skinner. 1,647,476; Nov. 1.
 Heating by steam. C. A. Dunham. 1,644,114; Oct. 4.
 Heating, cooling, or drying materials, Apparatus for. V. J. Mayo. Re16,599; Aug. 9.
 Heating device. H. W. Atwood. 1,631,614; June 7.
 Heating device. J. L. Breese, jr. 1,633,065; June 21.
 Heating device. F. E. Karg. 1,644,595; Oct. 4.
 Heating device. L. O. Steink. 1,647,155; Nov. 1.
 Heating device. F. D. Sullivan. 1,624,080; Apr. 12.
 Heating device, Electric. J. H. Reichart. 1,614,434; July 11.
 Heating device, Electric. A. Ruckstahl. 1,649,925; Nov. 22.
 Heating device, Electric. R. E. Talley. 1,625,380; Apr. 19.
 Heating device, Electrical. A. J. Kercher and W. W. June. 1,644,255; Oct. 4.
 Heating device, Electrical. R. M. Moffitt. 1,632,034; June 14.
 Heating device, Electrical. E. L. Wiegand. 1,636,029; July 19.
 Heating drum. L. R. Swett. 1,633,201; June 21.
 Heating elastic-fluid prime-mover installation, Industrial-. A. Bosch. 1,621,435; Mar. 15.
 Heating element. H. Baetz. 1,649,010; Nov. 15.
 Heating element and making the same. V. A. Boker. 1,642,223; Sept. 13.
 Heating element, Electric. W. C. Merrill. 1,643,673; Jan. 11.
 Heating element, Electric. F. W. Moffat. 1,639,382; Aug. 16.
 Heating element, Electrical. E. L. Wiegand. 1,614,330; Jan. 11.
 Heating element, Electrical. E. L. Wiegand. 1,614,331; Jan. 11.
 Heating element of the strip type, Electrical. E. L. Wiegand. 1,614,938; Jan. 18.
 Heating furnace. E. E. Carroll and F. B. Culbertson. 1,634,706; July 5.
 Heating furnace. H. Junkers. 1,614,439; Jan. 11.
 Heating furnace. H. C. Ryding and A. B. Hasswell. 1,624,763; Apr. 12.
 Heating furnace. M. Sklovsky. 1,618,486; Feb. 22.
 Heating furnace and method of heat-treating material, Pair-. T. J. Costello. Re16,526; Jan. 11.
 Heating furnace, Cast-iron steam-. W. A. Hagstrum. 1,633,406; June 21.
 Heating furnace, Pressure still. J. B. Bell. 1,617,297; Feb. 8.
 Heating furnace, Rotary. J. Weintz. 1,639,243; Aug. 16.
 Heating installation, Central. D. van der Woude. 1,640,629; Aug. 30.
 Heating installation, Hot-water. M. J. G. A. Lemaistre. 1,650,874; Nov. 29.
 Heating means for injectors. M. Hard. 1,651,701; Dec. 6.
 Heating means, Tunnel-kiln-. P. d'H. Dressler. 1,615,217; Jan. 25.
 Heating method, High-temperature. C. Field. 1,619,660; Aug. 30.
 Heating pad, Sanitary. P. R. Galt. 1,633,482; June 21.
 Heating pad, Chemical. M. A. Smith. 1,620,581; Mar. 8.
 Heating plants, Boiler for hot-water. W. F. McPhee. 1,651,613; Dec. 6.
 Heating purposes, Electrically-operated water heater or boiler for. S. D. Nesmith. 1,640,049; Aug. 23.
 Heating roller, Massaging. E. Becker. 1,634,316; July 5.
 Heating stove. H. H. Heildbreder. Des. 71,702; Jan. 4.
 Heating stove using liquid vaporizing fuel. H. C. Hanson. Re16,625; May 17.
 Heating structure, Electric. T. C. Russell. 1,637,391; Aug. 2.
 Heating system. W. R. Abbott. 1,654,396; Dec. 27.
 Heating system. C. B. Eatinger. 1,646,786; Oct. 25.

- Heating system. L. M. Ellis. 1,618,177; Feb. 22.
 Heating system. R. K. Emerson. 1,639,084; Aug. 16.
 Heating system. L. Grafflin. 1,640,768; Aug. 30.
 Heating system. J. M. Harrison. 1,621,881; Mar. 22.
 Heating system. J. Holan. 1,637,341; Aug. 2.
 Heating system, Drier-. A. MacKay. 1,623,425; Apr. 5.
 Heating system, Electric. G. R. Blakesley. 1,626,221; Aug. 26.
 Heating system, Electric. W. E. Hudson. 1,631,485; June 7.
 Heating system for power plants, Water-. R. N. Ehrhart. 1,620,807; Mar. 15.
 Heating system, Steam. L. J. Fisher. 1,617,328; Feb. 15.
 Heating systems, Apparatus for use with hot-air. R. A. Herbruck. 1,645,140; Oct. 11.
 Heating systems, Control mechanism for water-. W. J. Griffiths. 1,630,741; May 31.
 Heating systems, Humidifier for hot air. C. J. Hilty. 1,641,587; Sept. 6.
 Heating systems or similar purposes, Boiler for. M. Treschow. 1,651,049; Nov. 29.
 Heating systems, Regulator for. J. M. Larson. 1,650,993; Nov. 29.
 Heating systems, Thermostat for. F. K. Bezenberger and W. R. Zimmerman. 1,615,825; Feb. 1.
 Heating unit. K. Ehrgott. 1,628,876; May 17.
 Heating unit. M. M. Kohn. 1,636,372; July 19.
 Heating unit and heating system for kilns. M. L. Mueller. 1,621,333; Mar. 15.
 Heating-unit adapter. M. Bornkessel. 1,646,525; Oct. 25.
 Heating unit, Electric. K. Ehrgott. 1,628,876; May 17.
 Heating unit, Electric. W. B. Louthan. 1,645,867; Oct. 18.
 Heating unit, Electric. F. C. Simms. 1,632,318; June 14.
 Heating unit, Electric. J. C. Woodson. 1,628,868; May 17.
 Heating unit, Electric-furnace. J. C. Woodson. 1,626,656; May 31.
 Heating unit, Removable furnace. E. J. Branningan. 1,638,826; Aug. 16.
 Heating-unit terminal. A. D. Keene. 1,624,345; Apr. 12.
 Heating units, Terminal for electric. E. E. Sutherland. 1,615,661; Jan. 25.
 Heaters, Attachment for electrical. A. H. Thompson. 1,647,563; Nov. 1.
 Heaters, Burner for hot-water. P. S. Sinclair. 1,633,716; June 28.
 Heaters, Control of engine-oil. J. H. Hunt. 1,619,978; Mar. 8.
 Heaters, Foot rest for oil. A. Lochhead. 1,649,170; Nov. 15.
 Heaters, Guard for electric. F. D. Pitt and A. Osterloo. 1,616,985; Feb. 8.
 Heaters, Isothermal combustion control for oil-burning. J. L. Breese, Jr. 1,634,448; July 5.
 Heaters, Overload relay for electric. L. P. Hynes. 1,635,674; Dec. 12.
 Heaters, Radiant for gas. W. L. Sharp. Des. 73,762; Nov. 1.
 Heaters, Thermostatic control for domestic and hot-water. J. L. Breese, Jr. 1,633,759; June 28.
 Heaters used in connection with blast furnaces, Working. H. Ruppold. 1,631,950; June 7.
 Heaters, Valve-controlling mechanism for water. T. J. Radke. 1,639,066; Aug. 23.
 Hedge trimmer. J. J. Sullivan. 1,627,258; May 3.
 Heel. J. B. Hadaway. 1,647,444; Nov. 1.
 Heel and making the same. A. L. Clapp. 1,643,374; Sept. 27.
 Heel and making the same, Composition shoe. J. A. Mulherin. 1,614,989; Jan. 18.
 Heel-attaching apparatus. Shoe. S. Gubitosi. 1,645,809; Oct. 18.
 Heel-attaching device. J. N. Fowler. 1,642,991; Sept. 20.
 Heel-attaching, Method of and mechanism for. J. B. Hadaway. 1,615,270; Jan. 25.
 Heel bases, Making. O. T. Crafts. 1,652,610; Dec. 13.
 Heel-bending machine. E. Erickson. 1,653,623; Dec. 27.
 Heel-beveling machine. M. F. Brogan. 1,642,719; Sept. 20.
 Heel-building machine. E. E. Winkley. 1,645,567; Oct. 18.
 Heel-building machine and method. W. Hubbard. 1,643,498; Sept. 27.
 Heel-building machine, Lift magazine for. L. A. Holman. 1,645,531; Oct. 18.
 Heel-construction, Detachable-. M. Mayorowitz. 1,633,449; June 21.
 Heel, Cushion. J. B. Hadaway. 1,613,096; Jan. 4.
 Heel, Cushioned. M. W. Hirschfeld. 1,629,916; May 24.
 Heel, Detachable. E. Tranides. 1,631,710; June 7.
 Heel, Detachable cushion. L. F. Hartung. 1,633,324; June 21.
 Heel facings, Binding for shoe. J. N. Craslinneck. 1,646,475; Oct. 25.
 Heel-finishing machine. A. B. Fowler. 1,630,564; May 31.
 Heel for boots and shoes. J. E. Grosjean. 1,650,511; Nov. 22.
 Heel for footwear and attaching the same. W. J. De Witt. 1,649,291; Nov. 15.
 Heel holder. E. R. Pope. 1,616,467; Feb. 8.
 Heel, Interchangeable rubber. A. H. Cowlin. 1,643,294; Sept. 27.
 Heel machine. A. B. Fowler. 1,630,561; May 31.
 Heel machine. A. B. Fowler. 1,630,565; May 31.
 Heel marker, Wood-. N. W. Kinney. 1,640,359; Aug. 30.
 Heel pad for boots and shoes, Detachable. E. Junker. 1,618,881; Feb. 22.
 Heel piece for footwear, Detachable. A. E. C. Chamberlain. 1,647,856; Nov. 1.
 Heel protector, Automobile driver's. E. M. Smock. 1,620,401; Mar. 8.
 Heel, Repairing overshoe. C. Petersen. 1,641,689; Sept. 6.
 Heel, Reversible. G. A. Volz. 1,636,494; July 19.
 Heel, Rubber. E. G. Blosser. 1,637,075; Aug. 2.
 Heel, Rubber. A. M. Eichorn. 1,649,294; Nov. 15.
 Heel, Rubber. J. B. Falvo. 1,615,007; Jan. 18.
 Heel, Rubber. A. Golub. 1,636,772; July 26.
 Heel, Rubber. J. B. Hadaway. 1,640,354; Aug. 30.
 Heel, Rubber. L. J. Harrison. 1,642,951; Sept. 20.
 Heel, Rubber. K. Kautzsch. 1,627,651; May 10.
 Heel, Rubber. A. Pentifallo. 1,641,826; Sept. 6.
 Heel, Rubber-cushioned. H. G. Norwood. 1,638,701; Aug. 9.
 Heel-seat-cutting machine. B. M. Pericaud. 1,623,551; Apr. 5.
 Heel-seat-fitting machine. D. W. Bowie. 1,617,475; Feb. 15.
 Heel-seat-fitting machine. J. T. Haworth. 1,615,838; Feb. 1.
 Heel-seat-fitting machine. J. A. Kelly. 1,642,033; Sept. 13.
 Heel-seat-fitting machine. C. S. Norden. 1,613,407; Jan. 4.
 Heel, Shoe. H. N. Atwood. 1,640,686; Aug. 30.
 Heel, Shoe. F. Ducheneau. 1,645,187; Oct. 11.
 Heel, Shoe. W. I. Littman. 1,644,784; Oct. 11.
 Heel, Spring. J. R. Nock. 1,625,048; Apr. 19.
 Heel sweep and making the same. H. A. Dean. 1,639,593; Aug. 16.
 Heel-treating-tool support. A. B. Fowler. 1,630,563; May 31.
 Heel-turning machine, Wood-. D. O. Marshall. 1,646,205; Oct. 18.
 Heel-turning machine, Wood. D. O. Marshall. 1,647,573; Nov. 1.
 Heel-turning machine, Wood-. N. A. Monfils. 1,647,574; Nov. 1.
 Heel-turning machines, Guard for wood-. R. H. Pettengill. 1,622,838; Mar. 29.
 Heel-washer-stacking machine. G. G. Andrews. 1,622,243; Mar. 22.
 Heels, Apparatus for making. A. C. Hayden. 1,651,952; Dec. 6.
 Heels, Attaching rubber. J. B. Hadaway. 1,617,049; Feb. 8.
 Heels for boots and shoes, Machine for use in the manufacture of. E. E. Winkley. 1,620,149; Mar. 8.
 Heels for shoes, Machine for forming. C. I. Pollard. 1,619,154; Mar. 1.
 Heels, Machine for operating on. A. W. Matthews. 1,642,738; Sept. 20.
 Heels, Manufacture of. T. Lund. 1,643,387; Sept. 27.
 Heels, Manufacture of rubber. J. J. Batterman. 1,615,156; Jan. 18.
 Heels, Manufacture of rubber. J. J. Batterman. 1,622,077; Mar. 22.
 Heels, Mold for combination. L. B. Conant. 1,637,441; Aug. 2.
 Heels, Resilient lift for boot and shoe. C. Emanuele. 1,634,537; July 5.
 Heels to shoes, Applying. C. M. Hahn. 1,620,344; Mar. 8.
 Heels to shoes, Attaching. M. V. Bresnahan. 1,615,258; Jan. 25.
 Helicopter. G. W. Calvert. 1,652,090; Dec. 6.
 Helicopter. A. P. Filippi. 1,622,191; Mar. 22.
 Helicopter wing. A. J. Erickson. 1,615,938; Feb. 1.
 Helmet. K. Fitzpatrick and R. T. Mullins. 1,637,692; Aug. 2.
 Helmet. H. R. Hart. 1,616,187; Feb. 1.
 Helmet and mask. F. M. Bowers. 1,616,515; Jan. 4.
 Helmet, Football. A. E. Kennedy. 1,648,850; Nov. 8.
 Helmet, Football. R. T. Mullins. 1,652,283; Dec. 13.
 Helmet or head guard. B. E. Bates. 1,646,272; Oct. 18.
 Hemacytometer and similar apparatus, Case for. W. L. Patterson. 1,639,436; Aug. 16.
 Hemmer. A. H. DeVoe. 1,631,956; June 14.
 Hemming machine and forming bag tubing. A. Krasa. 1,636,517; July 19.
 Hemstitching mechanism, Multiple-needle. H. A. Jacobs and C. E. Jacobs. 1,638,338; Aug. 9.
 Hexagonal cosmetic box. H. J. Titus. Des. 72,642; Mar. 10.
 Hexamethylenetetramine and ammonium chloride, Process and apparatus for producing. C. B. Carter. 1,630,782; May 31.
 Hexamethylenetetramine, Manufacture of. C. B. Carter. 1,635,707; July 12.
 Hexyl resorcinol. A. R. L. Dohme. 1,649,670; Nov. 15.
 Hexyl resorcinol composition. A. R. L. Dohme. 1,649,670; Nov. 15.
 Hexyl resorcinol. A. R. L. Dohme. 1,649,669; Nov. 15.
 Hide material and obtaining same. C. A. Widmer. 1,618,031; Feb. 15.
 Hides and leather, Holdfast for stretching. E. G. Lowe. 1,638,046; Aug. 9.

- Hides and skins preparatory to tanning, Treatment of. R. Botson. 1,647,953; Nov. 1.
- Hides, skins, and leather, Machine for treating. J. J. Brophy and W. B. Broughton. 1,625,981; Apr. 26.
- Hides, Tanning animal. J. Schiefer. 1,650,841; Nov. 22.
- Hibbey, O. B. Bach. Des. 72,343; Apr. 5.
- High chair. C. J. Walker. 1,617,852; Feb. 15.
- High-frequency current generator, Polyphase. R. D. Duncan, Jr. 1,643,405; Sept. 27.
- High-frequency energy, Transferring. R. S. Ohl. 1,619,882; Mar. 8.
- High-frequency sending stations, Circuit arrangement for. O. Osawa. 1,624,006; Apr. 12.
- High-potential conductor. A. O. Austin. 1,626,777; May 3.
- High-pressure joint. W. H. Kniskern. 1,617,451; Feb. 15.
- High-pressure lubricator. R. M. Ferrell. 1,630,735; May 31.
- High-resistance element and making the same, Variable. L. F. Muter. 1,626,421; Apr. 26.
- High-speed safety cutter head. L. T. Medholdt. 1,626,247; Apr. 26.
- High tension construction work. C. G. Koppitz. 1,614,889; Jan. 18.
- High-tension switch. F. P. Lawler. 1,640,455-7; Aug. 30.
- High-voltage-line plants, Device for neutralizing the higher harmonics in. R. Riidenberg and K. Kurda. 1,625,567; Apr. 19.
- High-voltage networks, Measuring device for. H. Kafka and S. Klein. 1,617,915; Feb. 15.
- Highway construction. D. L. Turner and J. P. Hallihan. 1,628,934; May 17.
- Highway maintainer. C. O. Johnson. 1,648,310; Nov. 8.
- Highway marking device. I. E. Hanson. 1,624,408; Apr. 12.
- Highway obstruction. J. A. Walston. 1,649,877; Nov. 22.
- Highway safety device. T. R. Richey. 1,626,627; May 3.
- Highways, Danger indicating means for. M. L. Jones. 1,641,279; Sept. 6.
- Hi-li basket. D. I. Abrahams. Des. 72,656; May 17.
- Hinge. G. W. Alden. 1,650,413; Nov. 22.
- Hinge. G. W. Alden. 1,652,500; Dec. 13.
- Hinge. J. E. Belliveau. 1,640,525; Aug. 30.
- Hinge. O. J. Berger. 1,623,572; Apr. 5.
- Hinge. C. S. Boek. 1,647,074; Oct. 25.
- Hinge. O. W. L. Buss. 1,632,116; June 14.
- Hinge. C. H. Campbell. 1,654,362; Dec. 27.
- Hinge. T. H. Costello. 1,627,275; May 3.
- Hinge. E. W. Cummings. 1,635,482; July 12.
- Hinge. A. J. and J. A. Deby. 1,644,638; Oct. 4.
- Hinge. M. J. Economides. 1,633,480; June 21.
- Hinge. M. J. Economides. 1,646,644; Oct. 25.
- Hinge. F. W. Fahrenfeld. 1,631,369; June 7.
- Hinge. M. W. Fischer. 1,648,621; Sept. 27.
- Hinge. C. M. Fitch. 1,621,500; Mar. 22.
- Hinge. E. Flagg. 1,634,181; June 28.
- Hinge. C. H. Kessler. 1,650,018; Nov. 22.
- Hinge. W. A. Krentler. 1,651,824; Dec. 6.
- Hinge. J. P. McKinney, Jr. 1,618,544; Feb. 22.
- Hinge. H. H. Motschman. 1,636,529; July 19.
- Hinge. J. N. Pepin. 1,648,781; Nov. 8.
- Hinge. G. Sellers. Des. 74,029; Dec. 6.
- Hinge. G. Sellers. Des. 74,076; Dec. 13.
- Hinge. J. Soss. 1,614,262; Jan. 11.
- Hinge. J. Soss. 1,614,324; Jan. 11.
- Hinge. J. Soss. 1,643,592; Sept. 27.
- Hinge. E. L. Teich. 1,620,701; Nov. 15.
- Hinge. T. B. Thurman. 1,622,617; Mar. 29.
- Hinge. P. Tishken. 1,627,584; May 10.
- Hinge. G. Toth and E. A. Brandt. 1,618,736; Feb. 22.
- Hinge. A. F. Winters and B. R. Crampton. 1,648,249; Nov. 8.
- Hinge. G. W. Zabel. 1,626,372; Apr. 26.
- Hinge. F. Zoufal. 1,633,916; June 28.
- Hinge, and doorcheck. Combined. J. H. Harrison. 1,644,249; Oct. 4.
- Hinge, Automobile door. A. W. Way. 1,652,965; Dec. 13.
- Hinge, Bag frame. W. C. Hering. 1,622,334; June 14.
- Hinge, Bag-frame. H. Tueckmann. 1,636,971; July 26.
- Hinge, Ball-bearing. H. H. Raymond. 1,639,633-4; Aug. 16.
- Hinge, Bracket. D. D. Swem. 1,629,183; May 17.
- Hinge, Casement. F. W. Young. 1,621,047; Mar. 15.
- Hinge, Cellar-door. H. Blum. 1,635,107; July 5.
- Hinge, Closet hopper-seat. W. J. Dennis and J. S. Perry. 1,615,574; Dec. 25.
- Hinge, Concealed. M. Fox. 1,619,502; Mar. 1.
- Hinge construction. F. E. Elmer and R. W. Roberts. 1,652,102; Dec. 6.
- Hinge construction. W. Marshall. 1,636,007; July 19.
- Hinge, Detachable suspension. W. C. Canfield. 1,620,189; Mar. 8.
- Hinge device, Frictional. T. J. and C. D. Ryan. 1,634,052; June 28.
- Hinge, Door. A. Boucher. 1,633,432; June 21.
- Hinge, Door. A. E. Titus. 1,645,977; Oct. 18.
- Hinge, Door. E. L. Wilson. 1,617,830; Feb. 15.
- Hinge fixture, Stop-door. W. H. Packer. 1,645,114; Oct. 11.
- Hinge, Folding chair. O. H. Cole. 1,639,723; Aug. 23.
- Hinge for automobile seats. F. L. Buckner. 1,642,228; Sept. 13.
- Hinge for storm sashes. F. Jachimstal. 1,641,036; Aug. 30.
- Hinge, for suitcases or the like, Adjustable. F. C. Gadsby. 1,646,286; Oct. 18.
- Hinge for swinging doors. T. P. Enright. 1,653,160; Aug. 20.
- Hinge, Friction. T. H. Costello. 1,627,275; May 3.
- Hinge, Friction. T. P. Enright. 1,619,107; Mar. 1.
- Hinge, Friction. R. C. Hilton. 1,637,642; Aug. 2.
- Hinge, Gate. A. L. Panoch. 1,634,337; July 5.
- Hinge, Jewelry-box. R. I. Rhodes. 1,626,301; Apr. 26.
- Hinge, Locking. A. T. Lindken. 1,613,838; Jan. 11.
- Hinge, Lifting machine. W. G. Alden. 1,630,883; May 31.
- Hinge mounting, Toilet-seat. E. J. Nielsen. 1,633,281; June 21.
- Hinge, Olive-knuckle. S. W. Parsons. 1,632,415; June 14.
- Hinge or fastening, Extensible. W. J. Hill. 1,650,793; Nov. 29.
- Hinge, Pivot. E. Bommer. 1,653,448; Dec. 20.
- Hinge, Pivot spring. E. Bommer. 1,624,919; Apr. 19.
- Hinge, Recess gauge. R. L. Carter. 1,644,666; Oct. 11.
- Hinge, Separable. G. F. Dyer. 1,614,834; Jan. 18.
- Hinge, Side-cup. S. A. Krosch. 1,622,451; Mar. 29.
- Hinge, Structure. S. F. Kenyon. 1,645,429; Oct. 11.
- Hinge support. W. Marshall. 1,622,598; Mar. 29.
- Hinge, Table leaf. W. A. Noack. 1,644,440; Oct. 4.
- Hinge, Temple. J. Fielding and J. P. Whitaker. 1,616,965; Feb. 8.
- Hinge, Transom. L. S. Simon. 1,638,065; Aug. 9.
- Hinge, Variety-case. G. W. Kendall. 1,635,941; July 12.
- Hinge with automatic lifting and locking means. J. L. C. Heinz. 1,631,527; June 7.
- Hinged construction. J. C. Bogle. 1,647,602; Nov. 1.
- Hinged last. E. W. Gerrish. 1,612,807; Jan. 4.
- Hinges, Attachment means for. W. Marshall. 1,634,839; July 5.
- Hinges, Device for facilitating the marking of door jambs for. G. Hobbisierken. 1,630,429; May 31.
- Hinges, Forming. C. A. Munson. 1,620,603; Mar. 8.
- Hinges, Making. C. Habart. 1,649,586; Nov. 15.
- Hinges, Pintle for. J. Silbermann. 1,619,890; Mar. 8.
- Hinge, Spine pad, Combined. L. W. Hardage. 1,614,125; Jan. 11.
- Hitch. C. A. Barry. 1,646,342; Oct. 18.
- Hitch. D. W. Koehn. 1,621,418; Mar. 15.
- Hitch. C. Pearson. 1,632,145; June 14.
- Hitch, Automatic. P. J. H. Freet. 1,618,872; Feb. 22.
- Hitch device. R. J. Altgelt. 1,613,597; Jan. 11.
- Hitch for draft animals. C. Holland. 1,639,608; Aug. 16.
- Hitch for semitrailers. C. W. Shipley and R. B. Jones. 1,622,470; Mar. 29.
- Hobber, Simplified. W. F. Zimmermann. 1,634,130; June 28.
- Hobbing machine. F. E. Eberhardt. 1,615,537; Jan. 25.
- Hobbing machine. K. L. Herrmann. 1,645,596; Oct. 18.
- Hobbyhorse. F. L. Sheldon. 1,617,725; Feb. 15.
- Hobs, Grinding. J. Edgar. 1,617,798; Feb. 15.
- Hobs, Grinding apparatus for. H. Mensforth and F. A. Cowell. 1,616,056; Feb. 1.
- Hockey stick. Z. A. Hall. 1,631,960; June 14.
- Hod. V. J. Lall. 1,643,163; Sept. 20.
- Hoe. A. B. Garrett. 1,630,121; May 24.
- Hoe. J. B. Paluck. 1,649,921; Nov. 22.
- Hoe. A. H. Rogers. 1,629,415; May 17.
- Hoe. J. R. Thomas. 1,613,144; Jan. 4.
- Hog conditioner. E. E. McCarty. C. C. Dicus, and T. F. Langkop. 1,634,155; June 28.
- Hog greaser. H. B. Palm and B. L. Palm. 1,625,677; Apr. 19.
- Hog house, Sanitary heated. C. V. Short. 1,638,712; Aug. 9.
- Hog leader and crate, Combined. J. Pallas, Jr. 1,644,201; Oct. 4.
- Hog ringer. C. E. Schweser. 1,637,878; Aug. 2.
- Hoist. W. Borkes. 1,644,770; Oct. 11.
- Hoist. J. Christensen. Jr. 1,618,914; Feb. 22.
- Hoist. O. E. Clark. 1,633,543; June 21.
- Hoist. C. C. Hansen. 1,635,887; July 12.
- Hoist. R. P. Joyce. 1,635,162; July 5.
- Hoist. H. G. Kitchell. 1,613,895; Jan. 11.
- Hoist. P. M. Slater. 1,614,168; Jan. 11.
- Hoist. A. S. Watson. 1,632,571; June 14.
- Hoist, Air. W. E. Simpson. 1,645,665; Oct. 18.
- Hoist and tilting frame, Oil-drum. H. A. Nichols. 1,641,985; Sept. 13.
- Hoist, Area way. C. K. Ernst. 1,635,709; July 12.
- Hoist, Automatic self-loading. W. E. Howlett. 1,622,589; Mar. 29.
- Hoist, Body. A. P. Peterson. 1,640,364; Nov. 15.
- Hoist control. W. J. Lilly and H. H. Logan. 1,624,260; Apr. 12.
- Hoist device for dumping bodies. L. T. Wood. 1,641,365; Sept. 6.
- Hoist drums, Lubricating system for. R. G. Barzen. 1,636,892; July 26.
- Hoist, Elevator. M. B. McLouthlin and J. W. Dodd. 1,650,936; Nov. 29.
- Hoist, Gas-engine-driven. S. S. McIntyre. 1,649,908; Nov. 22.
- Hoist, Hay. H. J. Jensen. 1,614,617; Jan. 18.

- Hoist, Overwind control for. D. F. Lepley. 1,614,372; Jan. 11.
- Hoist, Power. R. A. Fontaine. 1,637,338; Aug. 2.
- Hoist, Safety mine. T. R. Cook and D. N. Smith. 1,653,345; Dec. 20.
- Hoist, Scaffold. W. C. Ferris. 1,622,247; Mar. 22.
- Hoist system, Skip. W. E. Hale. 1,628,314; May 10.
- Hoist, Timber. A. W. Bell, sr., and H. L. Jennings. 1,650,316; Nov. 22.
- Hoist, Vehicle. W. L. Gass. 1,650,438; Nov. 22.
- Hoisting and conveying device. M. H. Dickinson. 1,624,545; Apr. 12.
- Hoisting apparatus. C. E. Allison. 1,634,629; July 5.
- Hoisting apparatus. F. J. Murphy. 1,650,847; Nov. 29.
- Hoisting apparatus. C. T. Siebs. 1,614,575; Jan. 18.
- Hoisting apparatus, Roping for. F. Hymans. 1,625,084; Apr. 19.
- Hoisting device. J. Owen. 1,642,383; Sept. 18.
- Hoisting device. J. F. Lucas. 1,616,380; Feb. 1.
- Hoisting drum, Air-cooled. B. Boykin, jr. 1,613,925; Jan. 11.
- Hoisting-drum mechanism. J. E. Funk. 1,651,760; Dec. 6.
- Hoisting drums, Reversing mechanism for. W. Sommer. 1,639,151; Aug. 16.
- Hoisting machine. A. H. Wilson. 1,621,700; Mar. 22.
- Hoisting machine. A. H. Wilson. 1,623,147; Apr. 5.
- Hoisting machine. A. H. Wilson. 1,651,569; Dec. 6.
- Hoisting machines, Standard-locking mechanism for. R. M. Lovejoy. 1,626,141; Apr. 26.
- Hoisting mechanism. G. T. Bonk. 1,628,916; May 17.
- Hoisting reel. Air-cooled. B. Boykin, jr. 1,636,040; July 19.
- Hoisting tackle. W. W. Wilson. 1,648,158; Nov. 8.
- Hoisting tackle, Locking. E. E. Knudson. 1,650,281; Nov. 22.
- Hoists and the like, Safety means for. C. F. Bledsoe. 1,641,957; Sept. 13.
- Hoists, Cable-winding mechanism for. L. J. Westwood. 1,646,804; Oct. 25.
- Hold-down device. H. S. Sternbergh. 1,623,762; Apr. 5.
- Hold over. T. C. Whitehead. 1,637,943; Aug. 2.
- Hold-up alarm. G. R. Dobbins. 1,645,185; Oct. 11.
- Hold-up alarm. S. Steinhart. 1,639,578; Aug. 16.
- Holder. A. Melnick. 1,653,652; Dec. 27.
- Holder. A. K. Tanquary. 1,652,544; Dec. 13.
- Holder and case. Article. J. McGrevey. 1,629,040; May 17.
- Holder for a glass dish or similar article. S. W. Farber. Des. 74,005; Dec. 6.
- Holder for bags during filling operation. J. D. Cox. 1,653,393; Dec. 20.
- Holder for baking potatoes. U. G. Knauff. 1,630,188; May 24.
- Holder for balls of thread. A. Seibold. 1,636,871; July 26.
- Holder for glasses. S. W. Farber. Des. 74,006-8; Dec. 6.
- Holder for shaving-cream tubes, tooth-paste tubes, and the like. F. Wolf. 1,626,771; May 3.
- Holder for tubes of tooth paste, shaving cream, and the like. E. E. Stark. 1,637,883; Aug. 2.
- Holder for turn packages, Collapsible. J. Brandwood. 1,646,472; Oct. 25.
- Holder or stand for use in the unwinding of yarns and threads, Cop or cone. W. H. Sutton. 1,653,520; Dec. 20.
- Holding and shipping insert. G. S. Murphy. 1,635,430; July 12.
- Holding device. W. H. Dunne. 1,629,488; May 24.
- Holding device. T. P. Little. 1,646,967; Oct. 25.
- Holding device for wild animals. 1,623,774; Apr. 5.
- Hole-cleansing mechanism. E. G. Gartin. 1,614,026; Jan. 11.
- Hollow annular article, Making. J. J. Callahan and F. C. Rogers. 1,628,821; May 17.
- Hollow arm signal. K. Koenigsberg. 1,628,157; May 10.
- Hollow articles and making the same, Flexible. A. E. Anderson. 1,625,582; Apr. 19.
- Hollow articles, Method and apparatus for the manufacture of. W. P. Darwin. 1,648,475; Nov. 8.
- Hollow articles, Method of and apparatus for making. C. W. Steele and R. T. Griffiths. 1,624,849; Apr. 12.
- Hollow articles of rubber, Manufacture of. C. H. Cray. 1,640,987; Aug. 30.
- Hollow bodies, Apparatus for indicating internal relieves of. T. Mariotti. 1,649,966; Nov. 22.
- Hollow-expandable elements, Method of and apparatus for charging. H. T. Patton. 1,629,174; May 17.
- Horn's rounds, Rolling. A. W. Heinle. 1,624,340; Apr. 12.
- Hollow structure and making the same. T. E. and T. E. Murray, jr. 1,622,664; Mar. 29.
- Hollow structure of plastic material and producing the same centrifugally. C. W. Watson. 1,641,793; Sept. 6.
- Hollow ware, Contrivance for rolling zinc and other sheet-metal. J. Gronfeldt. 1,634,661; July 5.
- Horn ware, Method and apparatus for forming. H. Lundgren. 1,631,498; June 7.
- Holster. C. F. Harter. 1,629,700; May 24.
- Holster, Revolver. K. Corrison. 1,635,984; July 19.
- Holster, Safety. J. V. Jovine. 1,641,439; Sept. 6.
- Horn, trainer. E. E. Lee. 1,621,120; Mar. 15.
- Homogenizer, Fuel-mixture. C. Jesdale. 1,643,072; Sept. 20.
- Homogenizing procedure and apparatus therefor. O. Nielsen. 1,654,263; Dec. 27.
- Hone and strop, Razor. W. M. Tierz. 1,629,980; May 24.
- Honing device, Razor-. E. Jacobs. 1,630,182; May 24.
- Honing or tapping machine, Portable. H. Strand. 1,624,636; Apr. 12.
- Honey food product. C. J. O'Connell. 1,646,657; Oct. 25.
- Honey from the comb, Apparatus for extracting. A. Bergquist. 1,615,158; Jan. 18.
- Honey, Refining bee. W. W. Somerford. 1,636,719; July 26.
- Hood, Apron. I. Brown. 1,636,122; July 19.
- Hood clamp. W. R. Willey. 1,647,422; Nov. 1.
- Hood latch, Automobile. L. C. Vanderlip. 1,645,492; Oct. 11.
- Hood, Distributing. H. H. Payzant. 1,627,926; May 10.
- Hood, Dust. H. W. Peters. 1,620,390; Mar. 8.
- Hood fastener. S. De Orlow. 1,647,508; Nov. 1.
- Hood for tank-car outlets, Heating. E. A. Fall. 1,620,452; Mar. 8.
- Hook: See—
- Bill hook. Log-loading hook.
 - Bracelet hook. Logging hook.
 - Butt hook. Pintle hook.
 - Cable hook. Rod hook.
 - Cargo hook. Safety hook.
 - Chain hook. Sickle hook.
 - Choker hook. Skulling hook.
 - Clevis hook. Slug hook.
 - Coat-hook. Snap hook.
 - Display hook. Spoon hook.
 - Ear hook. Staggering hook.
 - Fishhook. Strap hook.
 - Fishing hook. Supporting hook.
 - Fly hook. Swing hook.
 - Folding hook. Swinging hook.
 - Freight hook. Swivel hook.
 - Ham hook. Torpedo hook.
- Hook, J. Bergsten. 1,636,209; July 19.
- Hook. F. W. Jones. 1,635,277; July 12.
- Hook. F. W. Nittel. 1,637,315; July 26.
- Hook and eye tape. A. Bebel. 1,622,408; Mar. 29.
- Hook and eye tape. D. Silberman. 1,622,743; Mar. 29.
- Hook-and-eye tape. D. Silberman. 1,645,548; Oct. 13.
- Hook-and-eye tape, Concealed. B. H. Marcus. 1,648,736; Nov. 8.
- Hook, Backband. S. J. Lester. 1,618,838; Feb. 22.
- Hook bracket. J. J. Rhodes. 1,625,745; Apr. 19.
- Hook device. C. W. Dake. 1,629,438; May 17.
- Hook dog, Power-operated. E. H. Percy. 1,648,659; Nov. 8.
- Hook for derricks, Safety connection. R. King. 1,617,763; Feb. 15.
- Hook forming and clamping device. J. J. Higgins. 1,612,816; Jan. 4.
- Hook forming and inserting machine. H. de Jong and W. Konig. 1,620,523; Mar. 8.
- Hook-forming machine. J. B. Whitmore and J. E. Ferguson. 1,628,652; May 3.
- Hook or bracket, Adjustable. H. B. Schutten. 1,642,428; Sept. 13.
- Hoop: See—
- Adjustable hoop.
 - Hoop and holder therefor, Order-carrying. R. W. Curran. 1,652,429; Dec. 13.
 - Hoop for sales and packages. E. Barnes and G. V. M. Edge. 1,649,050; Nov. 15.
 - Hoop-making machine. E. Craig. 1,634,487; Sept. 27.
 - Hopper-car end and ladder construction. D. Hindahl. 1,617,809; Feb. 15.
 - Hopper, Coal feeding. F. Dornbrock. 1,639,931; Aug. 23.
 - Hopper construction. F. B. Allen. 1,633,562; June 28.
 - Hopper construction. F. N. Ross. 1,631,160; June 7.
 - Hopper feeding device, Automatic. H. T. and E. J. Kingsbury. 1,650,278; Nov. 22.
 - Hopper, Loading. E. J. Smith. 1,626,122; Apr. 26.
 - Hoppers, Fastening seed distributors to metal. H. D. Johnson. 1,630,838; May 31.
 - Hoppers, Flow-facilitating means for gravity. R. H. Beaumont. 1,622,565; Mar. 29.
 - Hoppers, Gate for gravity-discharge. W. J. Burnett. 1,649,286; Nov. 15.
 - Hopple. C. Strand. 1,649,200; Nov. 15.
 - Horn, Cow. F. M. Ingram. 1,633,020; June 21.
 - Horn, E. Duttlinger and H. Speyer. 1,645,044; Oct. 11.
 - Horn, S. Goldberg. 1,623,106; Apr. 5.
 - Horn. T. J. Scofield. 1,637,316; July 26.
 - Horn, Acoustic. M. Abrahams. Des. 73,217-18; Aug. 9.
 - Horn, Acoustic. W. R. Respess. 1,646,707; Oct. 25.
 - Horn, Acoustic. J. Slepian and C. R. Hanna. 1,623,561; Apr. 5.
 - Horn, Amplifying. F. Cirelli. 1,637,438; Aug. 2.
 - Horn button. L. Blackmore. 1,640,375; Aug. 30.
 - Horn, Concert. J. Heald. 1,634,355; July 5.
 - Horn or the like, Treatment of. F. Homberg. 1,636,813; July 26.
 - Horn, Pneumatic. G. V. Sparlin. 1,627,407; May 3.
 - Horn, Pneumatically-operated. L. Chollet. 1,654,454; Dec. 27.
 - Horn push button. E. N. Jacobi. 1,638,037; Aug. 9.
 - Horn, Sound-amplifying. G. W. Bulley. 1,617,513; Feb. 15.

- Horn, Sound amplifying or concentrating. C. P. Alexander. 1,652,655; Dec. 13.
- Horn, Stuffer. W. F. Henderson. 1,617,848; Feb. 15.
- Horn-supporting means. P. H. Lange. 1,639,514; Aug. 16.
- Horn, trumpet, or like acoustic amplifier. E. A. Graham. 1,613,511; Jan. 4.
- Horns, Amplifying tone chamber for. J. Berg. 1,650,976; Nov. 29.
- Horns for sound-reproducing apparatus, Making. C. H. Biggs. 1,654,208; Dec. 27.
- Horse collar. H. Kurtz. 1,617,602; Feb. 15.
- Horse collar. W. S. Rogers. 1,642,427; Sept. 13.
- Horse collar. J. F. Schoellkopf. 1,647,151; Nov. 1.
- Horse collar. J. M. Walsh. 1,615,858; Feb. 1.
- Horse collar, Adjustable pneumatic. H. H. Ruedebusch. 1,614,994; Jan. 18.
- Horse-collar cushion. A. H. Stahl. 1,623,210; Apr. 5.
- Horse collars, Cap for. M. H. Brown. 1,646,051; Oct. 18.
- Horse collars, Fastener for. H. H. Ruedebusch. 1,614,995; Jan. 18.
- Horse nose guard. C. G. Christiansen. 1,654,363; Dec. 27.
- Horseshoe, P. F. Meade. 1,629,083; May 17.
- Horseshoe. O. P. Mossman and F. R. Niven. 1,646,627; Oct. 25.
- Horseshoe. W. Van Tassel. 1,622,748; Mar. 29.
- Horseshoe. W. Yergler. 1,653,488; Dec. 20.
- Horseshoe and replaceable pad therefor. J. A. Paff. 1,653,490; Dec. 20.
- Horseshoe calks, Manufacturing. T. F. Boylan, sr. 1,647,076; Oct. 25.
- Hose and pipe coupling. J. A. Costello. 1,613,644; Jan. 11.
- Hose attachment. E. S. Roe. 1,651,550; Dec. 6.
- Hose band. W. V. Thompson. 1,641,559; Sept. 6.
- Hose, Brush attachment for. O. E. Loomis. 1,633,643; June 28.
- Hose clamp. H. W. Goodall. 1,635,783; July 12.
- Hose clamp. N. Schwartz. 1,615,142; Jan. 18.
- Hose clamp. C. S. Witwer. 1,619,841; Mar. 8.
- Hose-clamp applicator. F. W. Gunn. 1,648,160; Sept. 20.
- Hose clamping tool. J. P. P. Riordan and W. Murray. 1,619,766; Mar. 1.
- Hose connection. W. T. Skillern. 1,619,439; Mar. 1.
- Hose construction. W. H. Fulton. 1,651,022; Nov. 29.
- Hose coupling. A. H. Handian, jr. 1,626,729; May 3.
- Hose coupling. W. K. Herbst. 1,630,895; May 31.
- Hose coupling. D. O'Connor. 1,615,595; Jan. 25.
- Hose coupling. P. Richards. 1,646,873; Oct. 25.
- Hose coupling. R. Schawrow. 1,639,813; Aug. 23.
- Hose coupling. L. B. Waggoner. 1,647,324; Nov. 1.
- Hose coupling. O. H. Walters. 1,637,095; July 26.
- Hose coupling. H. E. Weber. 1,636,578; July 19.
- Hose fastener. B. W. Bennett. 1,729,481; May 17.
- Hose fittings. M. Loughhead. 1,620,114; Mar. 8.
- Hose, Flexible ventilating. W. H. Evans. Re16,719; Aug. 23.
- Hose holder. B. Hudgins. 1,625,255; Apr. 19.
- Hose housing, Air-. E. V. Walter. 1,642,132; Sept. 13.
- Hose nozzles, Spray attachment for. R. Miller. 1,645,814; Oct. 18.
- Hose or sock. A. J. McCallum. 1,620,160; Mar. 8.
- Hose protector. L. Gruener. 1,644,673; Oct. 11.
- Hose protector. E. Hoensisch. 1,640,276; Aug. 23.
- Hose reel. J. H. Keys. 1,653,103; Dec. 20.
- Hose reel. C. R. Parker. 1,649,993; Oct. 4.
- Hose-repair clamp. T. E. Charter. 1,619,287; Mar. 1.
- Hose, Sport storm. H. P. Conrad. 1,648,758; Nov. 8.
- Hose, Storm. F. Marino. 1,643,023; Sept. 20.
- Hose support, Sprinkling-. H. P. Arnt. 1,631,849; June 7.
- Hose supporter. S. Kurzer. 1,637,948; Aug. 2.
- Hose supporter. D. A. Lederer. 1,613,799; Jan. 11.
- Hose supporter. J. A. Skaer. 1,629,811; May 24.
- Hose supporter and shirt adjuster, Combined. C. G. Guy. 1,638,304; Aug. 9.
- Hose-supporter clasp. J. M. Bodensiek. 1,640,689; Aug. 30.
- Hose-supporter structure. C. J. Hazelton. 1,631,813; June 7.
- Hosiery. A. J. Beucus. 1,623,024; Mar. 29.
- Hosiery. J. E. Dakin. 1,651,677; Dec. 6.
- Hosiery. J. Zaki. 1,654,064; Dec. 27.
- Hosiery and making same, Seamless. J. C. Williams. 1,621,943; Mar. 15.
- Hosiery, Drying form for. D. Rabinovitch. 1,614,388; Jan. 11.
- Hosiery-drying machine. W. W. Sibson. 1,634,237; June 28.
- Hosiery, Full-fashioned. H. Evans and H. E. Hellbroner. 1,619,199; Mar. 1.
- Hosiery, Gartered. P. A. Fischer. 1,644,185; Oct. 4.
- Hosiery, Knitting. A. J. Beucus. 1,622,857; Mar. 29.
- Hosiery, Knitting. G. Murphy and W. A. Simond. 1,626,049; Apr. 26.
- Hosiery, Lady's. R. E. Schletter. 1,651,792; Dec. 6.
- Hosiery, Lady's. W. E. Zander. 1,650,104; Nov. 22.
- Hosiery machine for making right and left toe pockets. F. E. Jones. 1,641,589; Sept. 6.
- Hosiery machine of the straight or flat web type. L. Marxene. 1,645,439; Oct. 11.
- Hosiery-machine yarn-tension device. C. L. Landis. 1,648,816; Nov. 8.
- Hosiery, Manufacture of. E. A. Hirner. 1,635,712; July 12.
- Hot-air and hot-water heater, Combined. B. B. Choiniski. 1,642,539; Sept. 13.
- Hot-air bath, Moist-. P. R. Wilde. 1,636,581; July 19.
- Hot-air device. W. L. and L. K. Ratbjen. 1,639,897; Aug. 23.
- Hot-air distributor. J. A. Ross. 1,649,738; Nov. 15.
- Hot-air engine. J. Koening. 1,613,038; Jan. 4.
- Hot-air engine. J. Koening. 1,614,962; Jan. 18.
- Hot-air furnace. W. S. Martin. 1,630,024; May 24.
- Hot-air furnace. E. J. Whidden. 1,618,498; Feb. 22.
- Hot-air furnace, Convertible built-in. G. C. Royse. 1,620,235; Mar. 8.
- Hot-air furnace, Downdraft. C. W. Swingley and H. Miller. 1,618,315; Feb. 22.
- Hot-air motor. J. Koening. 1,614,961; Jan. 18.
- Hot-air motor. J. Koening. 1,618,594; Feb. 22.
- Hot-air motor. J. Koening. 1,644,286; Oct. 4.
- Hot-dish lifter. G. B. Hosler. 1,623,979; Apr. 5.
- Hot-plate auto cooker. C. W. Daly. 1,629,094; May 17.
- Hot-plate foot feed. W. V. Pennington and P. C. Isom. 1,618,945; Feb. 22.
- Hot-top. E. C. Smith. 1,654,057; Dec. 27.
- Hot-top mold, Permanent-. J. E. Perry. 1,636,013; July 19.
- Hot-water and hot-air furnace, Combination. A. Gabriel. 1,628,459; May 10.
- Hot-water and steam heater. W. F. Goodnow and G. H. Vickers. 1,635,404; July 12.
- Hot-water bag. T. Blunt. 1,625,018; Apr. 19.
- Hot-water bottle. H. A. Bauman. Des. 72,925; June 28.
- Hot-water bottles, douche bags, etc., Making. F. T. Roberts. 1,625,395; Apr. 19.
- Hot-water bottles, Making. W. E. Roberts. 1,625,396; Apr. 19.
- Hot-water furnace. J. A. Burkman. 1,642,600; Sept. 13.
- Hot-water heater. O. Bjorklund. 1,644,228; Oct. 4.
- Hot-water heater. U. R. Denniston. 1,650,612; Nov. 29.
- Hot-water heater. J. A. Susong. 1,641,997; Sept. 13.
- Hot-water heaters, Draft hood for. F. W. Shnell. E. E. Ledbetter, and T. J. Cobey. 1,636,016; July 19.
- Hot-water heaters, Valve-construction for automatic. J. V. Buckley. 1,627,830; May 10.
- Hot-water systems, Composition for. G. I. Ray. 1,648,867; Nov. 8.
- Hot-water systems, Composition for repairing leaks in. G. I. Ray. 1,648,868; Nov. 8.
- Hot-water systems, Leak-stopping composition for. G. I. Ray. 1,648,866; Nov. 8.
- Hot-water tanks, Clothes-drier attachment for. D. H. Noyes. 1,630,965; May 31.
- Hot-water vest. J. Jirasek. 1,629,626; May 24.
- Hotel lock. A. K. Morton and J. A. Halloran. 1,628,264; May 10.
- House: See—
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| Amusement house. | Hog house. |
| Bird house. | Tropical house. |
| Farrowing house. | Ventilated house. |
- House construction. G. Stevenson. 1,632,421; June 14.
- House construction of tubes or tubular members. B. Urban, jr. 1,622,071; Mar. 22.
- House for sows, Farrowing. C. F. Walsh. 1,644,212; Oct. 4.
- Household article. J. H. Camper. 1,626,507; Apr. 26.
- Household article. A. Olsen. 1,613,476; Jan. 4.
- Household article, Combination. E. P. French. 1,616,315; Feb. 1.
- Household articles, Making. R. Wittlinger. 1,638,902; Aug. 16.
- House number and porch light. J. C. Clemons. 1,642,644; Sept. 13.
- Housing. A. M. Alcazar. 1,646,739; Oct. 25.
- Housing, Controller. J. Teipel and W. F. Exner. 1,616,149; Feb. 1.
- Housing for universal connections, Fixed. D. P. Owens. 1,623,200; Apr. 5.
- Housing, Rolling-mill. H. W. Wilson. 1,616,161; Feb. 1.
- Housing, Rotatable block. L. E. Hansen. 1,628,972; May 17.
- Housing structure. J. M. Fitzgerald. 1,617,626; Feb. 15.
- Houses, Method and material for construction of. C. A. Ewing. 1,654,120; Dec. 27.
- Houses, Steel interior for. D. Bruhn. 1,644,869; Oct. 11.
- Hub and brake mechanism. C. C. Pearce. 1,617,648; Feb. 15.
- Hub and journal box. H. W. Sanford and H. W. Jones. 1,630,219; May 24.
- Hub cap. J. J. Mitnick and J. L. Silverstine. 1,621,556; Mar. 22.
- Hub cap, Pulley-attaching. C. H. Fredrick. 1,647,789; Nov. 15.
- Hub construction. C. Sauzede. 1,635,504; July 12.
- Hubs and spindles, Light attachment for. J. E. Prince and J. E. Schooley. 1,650,158; Nov. 22.
- Hull and cotton separator and cleaner. J. A. Streun. 1,630,638; May 31.
- Hull construction. J. H. Crary. 1,613,645; Jan. 11.
- Huller: See—
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| Out huller. | Seed huller. |
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- Huller. F. H. Moening. 1,631,426; June 7.
- Huller. W. H. Worthington. 1,631,446; June 7.
- Huller and opener. W. L. Hancock. 1,623,181; Apr. 5.
- Huller and scarifier. J. L. Owens. 1,627,248; May 3.

- Hullers, Separating apron for green-pear-vine. F. Hamacheck. 1,645,324; Oct. 11.
- Hulling green peas. J. Goffin. 1,620,644; Mar. 15.
- Human remanent and article made thereby, Perpetuating. A. Vanderlaan. 1,640,680; Aug. 30.
- Humidifier. F. F. Bahnsen. 1,622,482; Mar. 29.
- Humidifier. H. B. Blakeslee. 1,649,055; Nov. 15.
- Humidifier. E. Buehrer. 1,654,209; Dec. 27.
- Humidifier. R. Carlstedt. 1,627,686; May 10.
- Humidifier. J. E. and T. E. Clark. 1,632,392; Dec. 13.
- Humidifier. S. W. Cramer and W. B. Hodge. 1,626,666-8; May 3.
- Humidifier. J. W. Galloway. 1,637,693; Aug. 2.
- Humidifier. W. H. Kelly. 1,625,663; Apr. 19.
- Humidifier. J. C. Kreps, jr., G. M. Marsh, and W. C. Lutz. 1,617,124; Feb. 15.
- Humidifier. Z. A. Lipinski. 1,624,838; Apr. 12.
- Humidifier. J. A. Maker. 1,644,737; Oct. 11.
- Humidifier. J. L. McKay. 1,637,123; July 26.
- Humidifier. A. S. Nichols. 1,634,552; July 5.
- Humidifier. C. J. Rainsburg. 1,618,726; Feb. 22.
- Humidifier. C. C. Ridler. 1,630,739; Nov. 29.
- Humidifier. J. Schulz. 1,640,379; Aug. 30.
- Humidifier. L. H. Timmons. 1,618,243; Feb. 22.
- Humidifier. T. D. Ulrich. 1,646,329; Oct. 18.
- Humidifier, Air-cleansing. W. J. Bridges. 1,640,641; Aug. 30.
- Humidifier attachment for water pans, Automatic. W. W. Warner. 1,646,566; Oct. 25.
- Humidifier, Automatic. J. S. Makin. 1,620,373; Mar. 8.
- Humidifier for heating units. E. Buehrer. 1,648,537; Nov. 8.
- Humidifier pan. J. M. Fackler. 1,615,689; Jan. 25.
- Humidifying device. J. Phillips. 1,621,430; Mar. 15.
- Humidity-control system. A. J. Nelson. 1,650,149; Nov. 22.
- Humidity-controlling units, Attachment for. J. Whiting. 1,617,885; Feb. 15.
- Humidity regulator. A. E. Krick. 1,629,107; May 17.
- Husbor. R. S. Blair. 1,627,581; Mar. 15.
- Humidor, Cold-towel. D. W. Lepert. 1,615,879; Feb. 1.
- Husker and polisher mill, Rice. A. L. Romero. 1,653,733; Dec. 27.
- Husker, Corn. E. E. McNeely. 1,636,380; July 19.
- Husking unit. J. Powell. 1,622,207; Mar. 22.
- Hydrant. P. P. Garbarino. 1,636,599; July 19.
- Hydrant. R. W. Penny. 1,627,251; May 3.
- Hydrant, Irrigation. C. E. Crownever. 1,624,317; Apr. 12.
- Hydrator. H. Miscampbell. 1,641,347; Sept. 6.
- Hydraulic apparatus, Alleviator for. F. McFarland. 1,640,046; Aug. 23.
- Hydraulic brake. F. Dotsch. 1,631,800; June 7.
- Hydraulic brake. E. L. Larson. 1,626,542; Apr. 26.
- Hydraulic brake. C. F. Mattingly. 1,625,418; Apr. 19.
- Hydraulic brake. R. E. McCleary. 1,630,710; May 31.
- Hydraulic brake. D. Nettenstrom. 1,635,383; July 12.
- Hydraulic brake. P. F. Richards. 1,639,058; Aug. 16.
- Hydraulic classifier and separating process. F. W. Schmidt and W. M. Green. 1,650,239; Nov. 22.
- Hydraulic conveyor. F. L. Ward. 1,618,395; Feb. 22.
- Hydraulic core drill. E. Whinnen. 1,617,659; Feb. 15.
- Hydraulic drive. O. N. Bratford. 1,616,252; Feb. 1.
- Hydraulic elevator. L. A. Bonner. 1,654,406; Dec. 27.
- Hydraulic engine. H. Hoyos. 1,621,840; Mar. 22.
- Hydraulic gate. W. S. Lee, R. Pfaeher, and D. Nabow. 1,642,253; Sept. 13.
- Hydraulic head, Creating a. H. Till. 1,623,369; Apr. 5.
- Hydraulic internal reaction propulsion, Arrangement for. O. Angelini. 1,631,733; June 7.
- Hydraulic jack. E. W. Anderson. 1,644,101; Oct. 4.
- Hydraulic jack. O. Schlemeyer. 1,626,158; Apr. 26.
- Hydraulic jack. J. P. Shevlin. 1,624,151; Apr. 12.
- Hydraulic machines, Wearing plate for. W. M. White. 1,641,362; Sept. 6.
- Hydraulic mechanism. E. Cannon. 1,638,653; Aug. 9.
- Hydraulic motor. M. F. Petras. 1,627,990; May 10.
- Hydraulic motor. J. F. Rambo. 1,626,239; Apr. 26.
- Hydraulic press. R. Craig. 1,624,160; Apr. 12.
- Hydraulic press. W. B. Kochenderfer. 1,631,037; May 31.
- Hydraulic press. E. M. Smith. 1,643,591; Sept. 27.
- Hydraulic press, High-speed. W. Ernst. 1,653,350; Dec. 20.
- Hydraulic ram. J. L. Boland. 1,641,878; Sept. 6.
- Hydraulic regulating apparatus. H. F. Schmidt. 1,617,460; Feb. 15.
- Hydraulic testing apparatus. V. I. Zelov. 1,650,736; Nov. 29.
- Hydraulic unit. J. S. Reynolds. 1,636,488; July 19.
- Hydrocarbon and similar fuel, Burner for. R. E. Goldsbrough. 1,637,695; Aug. 2.
- Hydrocarbon, Apparatus for treating. G. Egloff and H. P. Benner. 1,618,645; Feb. 22.
- Hydrocarbon burner. M. J. Banks. 1,615,321; Jan. 25.
- Hydrocarbon burner. C. A. Berkins. 1,639,920; Aug. 23.
- Hydrocarbon burner. H. J. Gieseke. 1,633,175; June 21.
- Hydrocarbon burner. H. H. Holcombe and W. A. Bart-schmid. 1,616,124; Feb. 1.
- Hydrocarbon burner. E. Labelle. 1,653,297; Dec. 20.
- Hydrocarbon burner. C. A. Rosier. 1,614,045; Jan. 11.
- Hydrocarbon burner. F. H. Schultenberger. 1,625,162; Apr. 19.
- Hydrocarbon burner. H. A. Sekowsky. 1,630,139; May 24.
- Hydrocarbon burner. C. R. Smith. 1,613,060; Jan. 4.
- Hydrocarbon. Catalytic oxidation of aromatic. A. E. Craver. 1,636,854; July 26.
- Hydrocarbon distillation products, Treating cracked. H. Blumenberg, jr. 1,649,384; Nov. 15.
- Hydrocarbon fractions, Separating. D. Pyzel. 1,622,737; Mar. 29.
- Hydrocarbon fuel, Apparatus for vaporizing. G. Wirrer. 1,631,176; June 7.
- Hydrocarbon liquids, Manufacturing light. W. S. Yard and E. N. Percy. 1,643,401; Sept. 27.
- Hydrocarbon liquids, Producing light. E. C. Herthel. 1,632,967; June 21.
- Hydrocarbon material, Distilling. E. M. Clark. 1,625,984; Apr. 26.
- Hydrocarbon mixtures, Apparatus for vaporizing. G. Wirrer. 1,819,050; Mar. 1.
- Hydrocarbon motor. C. F. Johnson. 1,613,706; Jan. 11.
- Hydrocarbon motor. M. Tibbets. 1,627,753; May 10.
- Hydrocarbon motor. J. G. Vincent. 1,647,846; Nov. 1.
- Hydrocarbon motor. L. M. Woolson. 1,613,255; Jan. 4.
- Hydrocarbon motor. L. M. Woolson. 1,631,177; June 7.
- Hydrocarbon oil conversion. L. C. Huff. 1,638,735; Aug. 9.
- Hydrocarbon oils, Reactivating desulphurizing agents for. J. B. Rather and F. S. Shepard. 1,622,671; Mar. 29.
- Hydrocarbon, Process and apparatus for treating. W. R. Howard. 1,627,436; May 3.
- Hydrocarbon-vaporizing device for starting motors. T. J. Little, jr. 1,640,902; Aug. 30.
- Hydrocarbon vapors, Process of and apparatus for condensing, treating, and washing. C. L. Freeland. 1,627,431; May 3.
- Hydrocarbons and making the same, Reagent for treating materials containing. A. H. Ackerman. 1,654,154-5; Dec. 27.
- Hydrocarbons and other materials, Apparatus for treating. D. E. De Lape. 1,652,563; Dec. 13.
- Hydrocarbons, Apparatus for absorption and distilling of. L. Newton. 1,628,055; May 10.
- Hydrocarbons, Apparatus for cracking. J. E. Bell and E. W. Isom. 1,641,941; Sept. 6.
- Hydrocarbons, Apparatus for cracking. G. Egloff and J. G. Alther. 1,638,116; Aug. 9.
- Hydrocarbons, Apparatus for the solidification of liquid. H. Neveu. 1,636,044; July 19.
- Hydrocarbons, Apparatus for treating. J. E. Kobernik. 1,613,352; Jan. 4.
- Hydrocarbons, Burner for heavy. E. R. Wolcott. 1,630,556; May 31.
- Hydrocarbons, Condensation of. E. W. Isom and J. E. Bell. 1,623,790; Apr. 5.
- Hydrocarbons, Continuously cracking and fractionating. A. C. Spencer. 1,648,967; Nov. 15.
- Hydrocarbons, Controlling the combustion of. J. L. Breese, jr. 1,629,253; May 17.
- Hydrocarbons, Cracking. E. W. Isom. 1,650,519; Nov. 22.
- Hydrocarbons, Cracking liquid. H. O. Swoboda and E. M. Richards. 1,616,515; Feb. 8.
- Hydrocarbons, Cracking of. E. C. Herthel and H. L. Pelzer. 1,634,666; July 5.
- Hydrocarbons, Destructive distillation of. C. W. Turner. 1,647,026; Oct. 25.
- Hydrocarbons, Dispensing apparatus for liquid. J. H. Allen. 1,632,815; June 21.
- Hydrocarbons from gas, Extracting. A. P. Bjerregaard. 1,624,206; Apr. 12.
- Hydrocarbons, Heating. W. M. Cross. 1,624,889; Apr. 12.
- Hydrocarbons in internal-combustion engines and apparatus therefor, Utilizing. D. Balachowsky and P. Caire. 1,630,048; May 24.
- Hydrocarbons, Material for the treatment of. A. B. Way. 1,638,022; Aug. 9.
- Hydrocarbons, Method and apparatus for treating. C. S. Corning. 1,652,394; Dec. 13.
- Hydrocarbons, Method of and apparatus for treating. C. P. Tolman. 1,643,036; Sept. 20.
- Hydrocarbons, Purifying. L. W. Parsons and S. P. Coleman. 1,640,720; Aug. 30.
- Hydrocarbons, Refining. O. D. Lucas and E. L. Lomax. 1,615,286; Jan. 25.
- Hydrocarbons, Thermal decomposition of. G. O. Curme, jr. 1,646,349; Oct. 18.
- Hydrocarbons, Treating. C. P. Dubbs. 1,638,112; Aug. 9.
- Hydrocarbons, Treating. W. S. Hadaway, jr. 1,628,143; May 10.
- Hydrocarbons, Treating. O. G. Messenger. 1,623,061; Apr. 5.
- Hydrocarbons, Treating. R. de M. Taveau. 1,645,553; Oct. 18.
- Hydrocarbons, Treating. A. B. Way. 1,638,021; Aug. 9.
- Hydrocarbons, Treating heavy. A. D. Smith and J. Perl. 1,640,223; Aug. 23.
- Hydrocarbons under pressure and a catalyzing agent, Apparatus for distilling. F. M. Hess. 1,625,467; Apr. 19.
- Hydrocraft. A. Ludasy. 1,630,623; May 31.
- Hydrocyanic acid, Apparatus for spraying liquid. K. A. Kilbourne. 1,642,779; Sept. 20.
- Hydrodynamic power machine. L. L. Osborn. 1,624,115; Apr. 12.
- Hydrogen from gases, Removing sulphureted. W. Gluud. 1,616,331; May 24.

- Hydrogen. Manufacture of. J. Rochet. 1,617,965; Feb. 15.
- Hydrogen-ion concentration. Method and apparatus for determining. E. D. Stirling. 1,616,062; Feb. 1.
- Hydrogen peroxide. Making a stable. A. L. Halvorsen. 1,627,325; May 3.
- Hydrogen sulphide from coal or water gases. Removing. W. R. Leuchtenberg. 1,629,396; May 17.
- Hydrogen sulphide. Preparation of. A. Henwood. 1,629,342; Apr. 5.
- Hydrometer. W. Ripplien. 1,620,393; Mar. 8.
- Hydrometer. C. E. Linebarger. 1,648,412; Nov. 8.
- Hydrometer bulb. L. Edelmann. 1,637,219; July 26.
- Hydrometer suction bulb or the like. L. Edelmann. Des. 73,401; Sept. 6.
- Hydrometer units. Attachment for. L. S. Brach. 1,629,484; May 17.
- Hydroxy-benzanthrones and making same. K. Schirmacher, K. Zahn, K. Wilke, and P. Ochwat. 1,614,398; Jan. 11.
- Hydroxyl-aryl-p-diamino-anthraquinone compounds and making same. R. E. Schmidt. 1,652,584; Dec. 13.
- Hygrometer, humidity regulator, and the like. A. J. Loepsinger. 1,636,374; July 19.
- Hygrometric apparatus. S. S. Amdursky. 1,635,697; July 12.
- Hygrometric apparatus. E. B. Foote and F. W. Stalker. 1,632,483-85; June 14.
- Hygroscopic substances. Apparatus for testing. F. T. Carson. 1,642,577; Sept. 13.
- Hypochromatic objective. A. Polack. 1,629,361; May 17.
- Hypochlorite composition. M. C. Taylor. 1,650,054; Nov. 22.
- Hypochlorites. Manufacture of. R. B. MacMullin. 1,632,729; June 14.
- Hypodermic case. K. Campbell. 1,650,980; Nov. 23.
- Hypodermic-solution container. H. K. Mulford. 1,616,274; Feb. 1.
- Hypoglycemia-producing substance and product. Making a. H. E. Dubin and H. B. Corbitt. 1,653,452; Dec. 26.
- Ice-belt construction. R. G. Marsh. 1,637,494; Aug. 2.
- Ice-can carrier. G. B. Bright and R. N. Cole. 1,626,222; Apr. 26.
- Ice-can dump. N. H. Gay. 1,637,901; Aug. 2.
- Ice card. E. C. Moore. 1,617,164; Feb. 8.
- Ice cap. E. Schmidt. 1,636,438; July 12.
- Ice-cropping device. A. Mendoza. 1,652,788; Dec. 13.
- Ice colors on cotton. Producing. K. Jellinek and W. Christ. 1,638,121; Aug. 9.
- Ice concrete. V. Wikkuila. 1,623,989; Apr. 12.
- Ice-cream cabinet. E. Klineberg. 1,633,588; June 28.
- Ice-cream cabinet. C. D. Ryder and C. F. Moores. 1,635,962; July 12.
- Ice-cream can and the like. Reversible. A. Bray. 1,634,569; July 5.
- Ice-cream cone. J. W. Sheridan. Des. 73,712; Oct. 25.
- Ice-cream cone. D. Boynton. 1,616,570; Feb. 8.
- Ice-cream cone. M. E. Buhse. 1,616,680; Jan. 25.
- Ice-cream cone. M. E. and W. W. Buhse. 1,615,681; Jan. 25.
- Ice-cream-cone holder. O. Asselin. 1,615,209; Jan. 25.
- Ice-cream-cone holder. E. Baker. 1,643,735; Sept. 27.
- Ice-cream-cone-making machine. W. M. and P. D. Roberts. 1,615,345; Jan. 25.
- Ice-cream-cone server. G. W. Traver. Des. 72,917; Jan. 21.
- Ice-cream-cone storing and dispensing device. A. Leon and J. Lattimer. 1,641,040; Aug. 30.
- Ice-cream-cone wrapper and carrier. C. E. Fritzsche. 1,628,718; May 17.
- Ice-cream cones. Container for. A. J. Pukt. 1,619,883; Mar. 8.
- Ice-cream container. Brick. C. Binder. 1,627,424; May 3.
- Ice-cream cutter. G. Marandino. 1,636,142; July 19.
- Ice-cream cutting and coating machine. Automatic. W. E. Urschel. 1,645,835; Oct. 18.
- Ice-cream-cutting machine. T. L. Valerius and O. Larson. 1,647,384; Nov. 3.
- Ice-cream-dipper mold. H. Landman. 1,620,110; Mar. 8.
- Ice-cream disher. H. D. Flegel. 1,615,939; Feb. 1.
- Ice-cream disher. J. Thompson. 1,645,208; Oct. 11.
- Ice-cream disher. W. F. Wendel. 1,627,132; May 3.
- Ice-cream. Edible container for. J. Denaro. 1,637,556; Aug. 2.
- Ice-cream freezer. C. A. Ballreich. 1,653,978; Dec. 27.
- Ice-cream freezer. W. E. Wright. 1,627,302; May 3.
- Ice-cream freezers. Operating mechanism for. F. G. Scott. 1,645,458; Oct. 11.
- Ice-cream-handling apparatus. S. B. Whiteside. 1,638,154; Aug. 9.
- Ice-cream ices, or the like. Container or receptacle for the dispensing of. M. Feybusch. 1,638,480; Aug. 9.
- Ice-cream machine. R. A. Willson. 1,636,345; July 19.
- Ice-cream machinery. G. H. White. 1,628,941; May 17.
- Ice-cream mold. S. B. Long and J. C. Pimm. 1,615,641; Jan. 25.
- Ice-cream or other material. Method of and apparatus for charging containers with. F. X. Kuhn. 1,627,853; May 10.
- Ice-cream package and method of and apparatus for making the same. F. X. Kuhn. 1,627,854; May 10.
- Ice-cream packer. Iceless. H. A. Lidenberg. 1,643,816; Sept. 27.
- Ice-cream sucker. H. B. Burt. 1,618,324; Feb. 22.
- Ice creeper. L. Chenoweth. 1,647,957; Nov. 1.
- Ice creeper. E. Ferard. 1,637,691; Aug. 2.
- Ice creper. D. W. Fish. 1,616,790; Feb. 8.
- Ice-cutting machine. F. R. Hussey. 1,648,181; Nov. 8.
- Ice cycle. E. M. and S. B. Smith. 1,635,292; July 12.
- Ice holder. A. L. Karnes. 1,651,457; Dec. 6.
- Ice machine. R. Artus. 1,638,179; Aug. 9.
- Ice machines. Air-agitating means for. C. L. Whitaker and N. E. Middleton. 1,648,836; Nov. 8.
- Ice-making apparatus. R. L. Shipman and E. D. Sprague. 1,615,411; Jan. 25.
- Ice-making machine. M. Ribl. 1,633,712; June 28.
- Ice-making systems. Basket for. N. M. Small. 1,648,830; Nov. 8.
- Ice-manufacturing. F. M. Gutierrez y Lado. 1,616,492; Feb. 8.
- Ice pick. H. C. Asmus. 1,623,375; Apr. 5.
- Ice picks. Can-opening attachment for. C. W. Halsey. 1,618,530; Feb. 22.
- Ice-scoring machine. C. Jobst. 1,619,128; Mar. 1.
- Ice-scoring machine. R. H. Roark. 1,644,396; Oct. 4.
- Ice shaver. Sanitary. A. R. Romero. 1,643,856; Sept. 27.
- Ice shaving machine. R. R. Smith. 1,641,899; Sept. 6.
- Ice tank. Refrigerator. V. P. Warren. 1,644,408; Oct. 4.
- Ice tray. J. H. P. Haneklaus. 1,616,043; Feb. 1.
- Identification-card case. A. Schlickerling. 1,613,414; Jan. 4.
- Identification device. J. Griesinger. 1,634,419; July 5.
- Identification device. J. E. Guay. 1,652,117; Dec. 6.
- Identification device. Automobile. S. K. Wood. 1,620,791; Mar. 15.
- Identification device for attaché cases, hand bags, pouches, or other articles. C. Flint. 1,618,073; Feb. 15.
- Identification device for vehicles. H. C. Ross and H. W. Falconer. 1,619,271; Mar. 1.
- Identification mechanism. J. H. Horsburgh. 1,644,132; Oct. 4.
- Identifying tag. C. M. Rice. 1,621,810; Mar. 22.
- Igniter. Flash. O. J. Leins. 1,613,040; Jan. 4.
- Igniter. A. A. Selt. A. A. Selt. 1,613,311; Jan. 4.
- Igniting devices and the like. Tip for. O. J. Leins. 1,654,265; Dec. 27.
- Ignition and lighting system. Motor-vehicle. K. Wolff. 1,623,648; Apr. 5.
- Ignition apparatus. S. Alsop. 1,620,861; Mar. 15.
- Ignition apparatus. P. Brown. 1,634,135; June 28.
- Ignition apparatus. W. A. Chryst and J. H. Hunt. 1,634,737; July 5.
- Ignition apparatus. F. C. Kroeger. 1,641,442; Sept. 6.
- Ignition apparatus. R. P. Lansing. 1,633,704; June 28.
- Ignition apparatus. H. E. Norviel. 1,622,164; Mar. 22.
- Ignition apparatus. H. E. Norviel. 1,624,113; Apr. 12.
- Ignition apparatus. C. Ringwald. 1,616,451; Feb. 1.
- Ignition circuit and the supply of gas to the carburetor. Device for controlling both. C. D. Harding. 1,632,133; June 14.
- Ignition coil. W. G. Schneider. 1,647,417; Nov. 1.
- Ignition control. Electrically-operated. J. F. Nikonov. 1,639,329; Apr. 5.
- Ignition-controlling apparatus. A. Howard. 1,644,591; Oct. 4.
- Ignition-controlling means. F. S. Denison. 1,625,796; Apr. 26.
- Ignition cut-off. Controlling means for. G. W. Thompson. 1,629,953; May 24.
- Ignition device. L. O. French. 1,641,421; Sept. 6.
- Ignition device. W. Hermann. 1,644,190; Oct. 4.
- Ignition device. Oil-burner. W. A. Doble. 1,617,677; Feb. 15.
- Ignition machine. F. Billon and J. Bohl. 1,620,060; Mar. 8.
- Ignition magneto. W. W. Hawkins. 1,629,575; May 24.
- Ignition magneto. W. W. Hawkins. 1,634,574-5; July 5.
- Ignition magneto. W. W. Hawkins. 1,640,936; Aug. 30.
- Ignition switch. W. Kensing. 1,641,189; Sept. 6.
- Ignition switch. J. S. Rycklevsk. 1,650,469; Nov. 22.
- Ignition switch and safety device. L. J. MacGlashan. 1,614,376; Jan. 11.
- Ignition system. S. Coyne. 1,652,094; Dec. 6.
- Ignition system. J. T. Fitzsimmons and H. Wallace. 1,641,378; Sept. 6.
- Ignition system. C. H. Kindl. 1,638,266; Aug. 9.
- Ignition system and switch therefor. W. Hemingway, jr. 1,641,140; Aug. 30.
- Ignition systems and the like. Commutating mechanism for. T. P. Nickell and W. H. Rodef. 1,628,902; May 17.
- Ignition systems and the like. Timer for. R. H. Reece. 1,624,975; Apr. 19.
- Ignition systems. Current converter for. E. von Lepel. 1,614,906; Jan. 18.
- Ignition systems. Distributor for. A. C. Schroeder. 1,647,667; Nov. 1.
- Ignition systems. Inductance coil for. M. Mallory. 1,623,426; Apr. 5.
- Ignition systems. Remotely-controlled interlocking means for. A. W. Farrell. 1,618,956; Feb. 8.
- Ignition systems. Testing device for. W. J. Doody. 1,617,017; Feb. 16.
- Ignition timer. G. G. Barry. 1,615,255-6; Jan. 25.
- Ignition timer. Z. C. Bradford. 1,632,187; June 14.
- Ignition timer. H. L. Joyce. 1,621,115; Mar. 15.

- Ignition timer. G. Schadee. 1,640,725; Aug. 30.
- Illuminated cross. H. L. Wolfers. 1,614,703; Jan. 18.
- Illuminated level. G. E. Boucher, G. H. Price, and F. Foster. 1,618,937; Feb. 15.
- Illuminating and heating device. J. J. Rekar. 1,631,645; June 7.
- Illuminating apparatus. L. A. Jones. 1,631,488; June 7.
- Illuminating apparatus. C. H. Kelsea. 1,614,068; Feb. 11.
- Illuminating appliance. W. W. Thompson. 1,654,150; Dec. 27.
- Illuminating device. J. W. Bunker. 1,615,070; Jan. 18.
- Illuminating device. K. Edison. 1,619,198; Mar. 1.
- Illuminating device. C. A. B. Halvorsen, jr. 1,616,042; Feb. 1.
- Illuminating device. E. M. Mabey. 1,629,284; May 17.
- Illuminating device. J. A. O'Neill. 1,640,423; Aug. 30.
- Illuminating device. L. R. Spencer. 1,644,287; Oct. 4.
- Illuminating device. L. J. Voorhes. 1,613,069; Jan. 4.
- Illuminating device for medical purposes. G. Wolf. 1,650,963; Nov. 22.
- Illuminating device for projection purposes. R. M. Hill. 1,631,529; June 7.
- Illuminating means. G. T. Kirby and H. I. Day. 1,626,615; May 3.
- Illuminating unit. C. A. B. Halvorsen, jr. 1,614,121; Feb. 11.
- Illumination, Device for artificial. L. X. Champeau. 1,618,055; Feb. 15.
- Images, Method of and apparatus for projecting. A. Linnebach. 1,635,795; July 12.
- Images, Producing distorted. H. L. Cooke. 1,652,271; Jan. 13.
- Impact device. N. Georgevitch. 1,645,477; Oct. 11.
- Impact drill, Underreaming. J. A. Zublin. 1,613,863; Jan. 11.
- Impaling animal trap. H. Dorn. 1,616,786; Feb. 8.
- Impelling trap. J. D. Jefferson. 1,635,890; July 12.
- Impeller. F. W. Caldwell. 1,622,222; Mar. 22.
- Impeller balancing and sealing device. H. F. Benson. 1,634,317; July 5.
- Impeller blower, High-speed lobed-. J. T. Wilkin. 1,646,373; Oct. 18.
- Impervious material, Producing. W. F. Bleeker. 1,620,940; Mar. 15.
- Implement, Combination. E. R. Shearwood. 1,613,729; Jan. 11.
- Implement draft device. G. E. Collins. 1,646,784; Oct. 25.
- Implement, Driven. E. H. W. Foot. 1,614,356; Jan. 11.
- Implement for cutting and opening pasteboard boxes. A. D. Forry. 1,628,806; May 3.
- Implement for effecting the relative movement of two elements. W. V. Gilbert. 1,631,110; May 31.
- Implement for marking objects. H. W. Hacker. 1,630,659; May 31.
- Implement for testing cones. M. Bartholdy. 1,643,570; Sept. 27.
- Implement handles, Resilient grip for. C. W. Halsey. 1,632,227; June 14.
- Implement hitch. S. K. Dennis. 1,629,153; May 17.
- Implement tongue. C. H. Rand. 1,622,231; Mar. 22.
- Implement, Power-driven. C. J. Travers. 1,650,667; Nov. 29.
- Implements, Unitary frame for farm. A. R. Coon. 1,634,650; July 5.
- Impregnated wood and effecting the impregnation. D. B. Bradner. 1,652,811; Dec. 13.
- Impregnating and vulcanizing process. D. E. Hennessy. 1,642,546; Sept. 13.
- Imprints on sheet material, Apparatus for making indelible. G. Kirkegaard. 1,624,552; Apr. 12.
- Impulse generator, Adjustable. C. L. Paulus and R. Kauch. 1,622,121; Mar. 22.
- Impulse sender. R. F. Stehlik. 1,640,473; Aug. 30.
- Impulse-sending device. H. F. Obergettel. 1,615,311; Nov. 25.
- Impulse system of control. E. Roučka. 1,621,280; Mar. 15.
- Impulses of predetermined different durations, System of control by. A. D. Trenor. 1,620,987; Mar. 15.
- Incarescent filament. G. R. Ponda. 1,623,784; Apr. 5.
- Inclinometer. E. M. Jones. 1,633,771; Aug. 9.
- Inclinometer. E. B. Kay. 1,626,000; Apr. 26.
- Inclinometer. E. Kener, jr. 1,634,998; July 5.
- Inclinometer. E. Kener, jr. 1,645,863; Oct. 18.
- Inclinometer. E. Kener, jr. 1,653,574; Dec. 20.
- Inclinometer. T. H. Ladden. 1,630,393; May 31.
- Inclinometer. E. D. Lewis. 1,642,536; Sept. 13.
- Inclinometer. K. Mann. 1,654,339; Dec. 27.
- Inclinometer. B. F. Shaughnessy. 1,651,636; Dec. 6.
- Inclinometer, Air-cooled. J. Feigenbaum. 1,622,431; Mar. 29.
- Inclinometer. Built in chimney. T. Treganowan. 1,645,262; Oct. 11.
- Inclinometer, Collapsible. W. R. Gorrell. 1,651,818; Dec. 6.
- Inclinometer, Dwelling. H. F. Fisher. 1,628,537; May 10.
- Inclinometer for garbage and the like. W. C. Epstein. 1,643,206; Sept. 20.
- Inclinometer, Garbage. M. H. Hallett. 1,648,119; Nov. 8.
- Inclinometer, Portable. A. E. Engle. 1,644,379; Oct. 11.
- Inclining machine. D. W. Edwards and J. H. Mansfield. 1,646,955; Oct. 26.
- Inclination indicator. L. G. Shinn. 1,623,759; Apr. 5.
- Inclination indicator. G. J. Yakesh. 1,622,755; Mar. 29.
- Inclinometer. E. F. Arnold. 1,627,183; May 3.
- Inclinometer. C. M. Collins. 1,623,463; Apr. 5.
- Inclinometer. C. W. Custer. 1,630,172; May 24.
- Inclinometer. J. S. Donaldson. 1,634,934; July 5.
- Inclosed switch. C. D. Platt. 1,652,795; Dec. 13.
- Inclosure, Concealed. C. B. Ricken. 1,630,906; May 31.
- Incubator. C. Caver. 1,644,634; Oct. 4.
- Incubator. W. L. Chamberlain. 1,613,362; Jan. 4.
- Incubator. A. H. Denault. 1,639,025; Aug. 16.
- Incubator. A. E. Grimes. 1,654,372; Dec. 27.
- Incubator. D. M. Holbrook. 1,652,120; Dec. 6.
- Incubator. F. C. Hare. 1,618,055; Feb. 15.
- Incubator. L. Hawkins. 1,650,445; Nov. 22.
- Incubator. F. W. Lord. 1,642,735; Nov. 8.
- Incubator. J. F. MacKay. 1,634,909; July 5.
- Incubator. A. Montour. 1,613,049; Jan. 4.
- Incubator. A. Oller. 1,635,901; July 12.
- Incubator. A. A. Scott. 1,624,629; Apr. 12.
- Incubator and hoyer, Combined. L. E. Goble. 1,614,727; Jan. 13.
- Incubator egg tray. F. Becker, jr. 1,642,323; Sept. 13.
- Incubator-heating system. E. Haney. 1,645,380; Oct. 11.
- Incubator thermometer. C. D. Bolln. 1,618,500; Feb. 15.
- Incubator, Thermostatically-regulated. J. V. Giesler. 1,628,139; May 10.
- Incubator tray. F. E. Coatsworth. 1,626,394; Apr. 29.
- Incubator-ventilating means. D. M. Holbrook. 1,636,634; July 19.
- Incubators, Egg receptacle for. H. C. Gregg. 1,638,303; Aug. 9.
- Incubators, Egg tray for. J. F. MacKay. 1,632,239; Jan. 14.
- Incubators, Egg tray for. J. F. MacKay. 1,648,186; Nov. 8.
- Incubators, Egg turner for. J. L. Davis. 1,647,786; Nov. 1.
- Incubators, Egg-turning device for. R. G. Miller. 1,647,920; Aug. 15.
- Incubators, Moisture guide for. C. T. Patterson. 1,625,420; Apr. 9.
- Incubators, Temperature regulator for. J. L. Davis. 1,634,401; July 5.
- Incubators, Thermal controller for. J. E. Davis. 1,616,807; Feb. 1.
- Incubator, Thermostatic switch for. A. M. Goldberg. 1,639,374; Aug. 16.
- Indenture. P. Zalkind. 1,640,684; Aug. 30.
- Index. F. P. Gorin. 1,614,838; Jan. 18.
- Index. W. F. Johnston. 1,645,598; Oct. 18.
- Index. J. H. Rand. 1,637,535; Aug. 2.
- Index. R. H. Rand. 1,654,053; Dec. 27.
- Index. C. T. Raschick. 1,619,089; Mar. 1.
- Index and file. Card. M. McDonald. 1,649,244; Nov. 15.
- Index and system of indexing. E. A. Hemphill. 1,643,161; Sept. 20.
- Index, Card. D. C. Daniels. 1,626,027; Apr. 26.
- Index, Card. R. C. Davis. 1,637,856; Aug. 2.
- Index card. S. C. Radford. 1,648,822; Nov. 8.
- Index device. W. N. Howard. 1,616,623-4; Feb. 8.
- Index device. J. H. Rand. 1,637,536; Aug. 2.
- Index device. J. H. Rand. 1,654,053; Dec. 27.
- Index device. J. A. Sprenger. 1,614,021; Jan. 11.
- Index device. Card. A. G. Wuest. 1,639,622; May 31.
- Index element. H. Rand. 1,619,760; Mar. 1.
- Index-file unit, Protected. F. M. Shotwell. 1,613,570; Jan. 4.
- Index-glass inclosure. K. C. Tomlinson. 1,637,093; July 26.
- Index-locking device and card attachment. R. M. Smith. 1,626,835; May 3.
- Index, memorandum, and reference equipment. G. P. Butler. 1,646,008; Oct. 18.
- Index or file. W. H. Day and C. R. Thomas. 1,628,124; May 10.
- Index or file. R. D. Hayes. 1,616,897; Feb. 8.
- Index record device. Card. J. H. Rand, jr., and L. E. Hutchings. 1,651,907; Dec. 6.
- Index plate. F. Ungerer. 1,648,034; Nov. 8.
- Index rack. W. P. De Saussure, jr. 1,643,547; Sept. 27.
- Index rack. W. P. De Saussure, jr. 1,650,890; Nov. 29.
- Index system for cards and the like. W. Hoge. 1,641,438; Sept. 6.
- Index system, Protected card-. R. J. Wood. 1,639,016; Aug. 16.
- Index tab. H. E. Hubbard. 1,629,033; May 17.
- Index tab. J. H. Rand. 1,625,154; Apr. 19.
- Index, Telephone. G. D. and W. V. Pogue. 1,633,952; June 28.
- Index, Thumb. F. P. Gorin. 1,617,446; Feb. 15.
- Index, Thumb. F. P. Gorin. 1,622,641; Mar. 29.
- Index, Visible. W. C. Clark. 1,631,473; June 7.
- Index, Visible. W. A. Ringler. 1,641,293; Sept. 6.
- Index, Visible card. A. Von Auer. 1,649,763; Nov. 15.
- Indexing device. N. Warshaw. 1,644,162; Oct. 4.
- Indexing mechanism. A. J. Ott and C. L. Ott. 1,644,540; Oct. 4.
- Indicating apparatus. W. C. White. 1,628,444; May 10.
- Indicating device. T. Daly. 1,646,687; Oct. 26.
- Indicating device. E. R. Curney. 1,628,472; Apr. 5.
- Indicating device. J. Karagunya. 1,622,917; Mar. 29.
- Indicating device. P. G. MacGregor. 1,635,555; July 12.
- Indicating device. E. Q. Moses, G. E. Terwilliger, and W. P. Hammond. 1,621,995; Mar. 22.

- Indicating device. H. R. Sargent. 1,623,950; Apr. 5.
 Indicating device. E. G. Thomas. 1,647,320; Nov. 1.
 Indicating device, Illuminated. E. T. R. and L. E. R. Murray. 1,646,763; Oct. 25.
 Indicating instrument. L. F. Blume. 1,618,800; Feb. 22.
 Indicating instrument. C. B. Carson. 1,630,291; May 31.
 Indicating instrument. L. A. Mapel. 1,633,672; June 28.
 Indicating instrument. J. G. Patey. 1,641,454; Sept. 6.
 Indicating instrument. Electrically-controlled. H. L. Decker. 1,653,947; Dec. 27.
 Indicating means and the like. C. K. Woodbridge. 1,638,558; Aug. 9.
 Indicating position of pianos on floors or other surfaces. Device for. B. H. Jefferson. 1,622,445; Mar. 29.
 Indicating speed, Device for. G. Mombur. 1,647,115; Oct. 25.
 Indicating the amount of liquid in a supply tank, Method of and apparatus for. J. McElwain. 1,620,606; Mar. 8.
 Indicating time, Device for. F. C. Meacham. 1,620,980; Mar. 15.
 Indicating variations of immersion depth of ships and the weight of ships' cargoes, Apparatus for. H. Froger. 1,648,382; Nov. 8.
 Indication and control, Frequency. R. A. Heising. 1,620,204; Mar. 8.
 Indicator: See—
 Air-speed indicator.
 Balance indicator.
 Call indicator.
 Current-theft indicator.
 Date indicator.
 Depth indicator.
 Dial indicator.
 Direction indicator.
 Down indicator.
 Electromagnetic indicator.
 Elevator indicator.
 Elevator-position indicator.
 Fire-damp indicator.
 Flow indicator.
 Fluid-flow indicator.
 Fluid-tank indicator.
 Fuel-consumption indicator.
 Fuel-supply indicator.
 Grade indicator.
 Ground speed indicator.
 Hammer-position indicator.
 Heat indicator.
 Inclination indicator.
 Level indicator.
 Liquid indicator.
 Liquid-level indicator.
 Liquid-quantity indicator.
 Load indicator.
 Lubrication indicator.
 Maneuver indicator.
 Modulation indicator.
 Office indicator.
 Oil indicator.
 Operation indicator.
 Pendulum inclination indicator.
 Position indicator.
 Precision indicator.
 Pressure indicator.
 Price indicator.
 Reflecting indicator.
 Right-of-way indicator.
 Service indicator.
 Speed and direction indicator.
 Speed indicator.
 Speeding indicator.
 Station indicator.
 Stop indicator.
 Street-and-station indicator.
 Surface test indicator.
 Temperature indicator.
 Time-lock indicator.
 Time-recording indicator.
 Tire-deflating indicator.
 Traffic indicator.
 Vehicle direction indicator.
 Visible pulse and diastolic indicator.
 Volume indicator.
 Water-level indicator.
 Weight indicator.
 Winding-mechanism indicator.
 Indicator. W. Cunliffe. 1,634,176; June 28.
 Indicator. R. E. Curtis. 1,643,238; Sept. 20.
 Indicator. W. F. Dittman. 1,645,513; Oct. 18.
 Indicator. J. S. Gullborg. 1,645,699; Oct. 18.
 Indicator. J. Klansnich. 1,635,128; July 5.
 Indicator. C. M. Norris. 1,627,110; May 8.
 Indicator. O. C. Reeves. 1,647,896; Nov. 1.
 Indicator. A. Senchuk. 1,649,197; Nov. 15.
 Indicator. C. E. Summers. 1,635,232; July 12.
 Indicator. C. I. Walker. 1,648,287; Nov. 8.
 Indicator. F. R. Wasserkampf. 1,647,894; Nov. 1.
 Indicator and automatic water supply for storage batteries. W. C. Smock. 1,618,894; Feb. 22.
 Indicator and recorder. Water-level. G. W. Lind. 1,641,229; Sept. 6.
 Indicator and regulator, Pressure. C. E. Rogers. 1,652,051; Dec. 6.
 Indicator board. W. R. Roupiche. 1,653,312; Dec. 20.
 Indicator device for instruments. G. Hutchinson. 1,635,479; July 12.
 Indicator device for instruments. G. Hutchinson. 1,646,819; Oct. 25.
 Indicator for automobiles, Direction. H. H. Soper. 1,620,402; Mar. 8.
 Indicator for measuring machines, Yard. A. Vanderveld. 1,617,881; Feb. 15.
 Indicator for moving bodies, Direction. T. Rosenbaum. 1,642,087; Sept. 13.
 Indicator or telltale for oil stills and the like. Level. E. C. Herthel and E. W. Isom. 1,650,986; Nov. 29.
 Indicators, Attachment for automobile. H. W. Weathers. 1,645,634; Oct. 18.
 Indicators, Control means for liquid-level. H. E. Adams and L. L. Becker. 1,649,885; Nov. 22.
 Indicators, Rheostat for liquid-level. C. Hyland. 1,641,491; Sept. 6.
 Indophenol and producing the same. J. G. Dinwiddie. 1,628,534; May 10.
 Indophenol compounds, Producing. W. A. Mauss. 1,637,868; Aug. 2.
 Inductance. S. Kupa. 1,637,649; Aug. 2.
 Inductance coil and manufacturing the same. E. B. Payne. 1,624,560; Apr. 12.
 Inductance-coil attachment. H. B. Pearson. 1,630,903; May 31.
 Inductance-coil frame. G. A. Turner. 1,624,447; Apr. 12.
 Inductance coils, Insulated support for. L. Steinberger and C. Hull. 1,645,492; Oct. 11.
 Inductance device. A. J. Christopher. 1,624,536; Apr. 12.
 Inductance device. F. Conrad. 1,635,541; July 12.
 Inductance device. F. O. Hartman. 1,651,703; Dec. 6.
 Inductance device and manufacturing the same. W. J. Shackleton. 1,624,680; Apr. 12.
 Inductance furnace, Electric. J. R. de Zubiria. 1,647,787; Nov.
 Inductance unit. C. A. Birch-Field. 1,645,511; Oct. 18.
 Inductance unit, Variable. M. M. Eells. 1,628,237; May 10.
 Inductance, Variable. G. F. Mansbridge. 1,639,044; Aug. 16.
 Induction apparatus, Stationary. S. E. Johannesen. 1,644,729; Oct. 11.
 Induction coil. W. A. Chryst. 1,641,374; Sept. 6.
 Induction coil. S. Z. Chylinski. 1,641,473; Sept. 6.
 Induction coil. C. E. Wilson. 1,641,564; Sept. 6.
 Induction furnace. W. Hoskins. 1,646,245; Oct. 25.
 Induction furnace. M. Unger. 1,626,437; Apr. 26.
 Induction furnace. M. Unger. 1,626,485; Apr. 26.
 Induction furnace. J. M. Weed. 1,648,707; Nov. 8.
 Induction furnace, Combination. A. E. Greene. 1,639,240; Aug. 16.
 Induction heater. E. E. Kittredge. J. A. Forster, and R. D. Johansen. 1,653,014; Dec. 20.
 Induction machine. H. M. Hobart. 1,628,464; May 10.
 Induction meter. H. M. Witherow. 1,620,505; Mar. 8.
 Induction motor. H. M. Hobart. 1,632,601; June 14.
 Induction motor. J. I. Hull. 1,637,041; July 26.
 Induction motor. H. Moeller. 1,626,622; May 3.
 Induction motor. R. Ridenberg. 1,645,296; Oct. 11.
 Induction motor, Self-excited. J. I. Hull. 1,637,040; July 26.
 Induction synchronous motor. T. Yamamoto and M. Kawarada. 1,617,092; Feb. 8.
 Inductive interference, Neutralization of. R. A. Shetzline. 1,643,550; Sept. 27.
 Inductor coil, Air-cooled. E. F. Northrup. 1,640,799; Aug. 30.
 Inductor-type frequency changer. A. Nyman. 1,642,041; Sept. 13.
 Indicating porous objects and materials for use in same. J. J. Kessler. 1,613,894; Jan. 11.
 Inertia stripper. R. P. M. Davis. 1,639,409; Aug. 23.
 Infant's conveyance. S. Nistler. 1,631,546; June 7.
 Infusible articles, Machine for testing porosity of. W. Stephens. 1,623,932; Apr. 5.
 Infusible ball. J. T. Riddell. 1,618,677; Jan. 11.
 Infusible ball. A. J. Turner. 1,621,943; Mar. 15.
 Infusing and injecting device. L. H. Crook. 1,643,945; Oct. 4.
 Infuser. E. Willner. 1,636,727; July 26.
 Ingot mold. G. A. Dornin. 1,620,010; Mar. 8.
 Ingot mold. E. Gathmann. 1,621,402; Mar. 15.
 Ingot mold. E. Gathmann. 1,636,224; July 19.
 Ingot mold. E. Gathmann. 1,649,522; Nov. 15.
 Ingot mold. R. C. Krause. 1,634,999; July 5.
 Ingot mold and stool therefor. J. E. Perry. 1,647,660; Nov. 1.
 Ingot mold, Nonshrinkage cavity. W. F. McMahon. 1,641,597; Sept. 6.
 Ingot molds and apparatus for same, Casting. J. E. Perry. 1,620,128; Mar. 8.
 Ingot molds and the like, Apparatus for casting. W. H. Ramage. 1,651,835; Dec. 6.
 Ingot molds or the like, Core box for. J. E. Perry. 1,620,227; Mar. 8.
 Ingot molds, Shrink-head casing for. E. Gathmann. 1,630,612; May 31.
 Ingots, Apparatus for compressing. S. S. Ball. 1,633,970; June 28.
 Ingots, Box for pouring steel. B. J. Madden. 1,633,992; June 28.
 Inhalation device. J. H. Williams. 1,636,344; July 19.
 Inhaler. T. B. Aldrich. 1,618,143; Feb. 15.
 Initial, motif, and the like. A. Parsons. 1,654,187; Dec. 27.
 Initiating apparatus. M. H. Spaulding. 1,623,282; Apr. 5.
 Injection device. F. S. Woodrow. 1,651,499; Dec. 6.
 Injector. S. L. Kneass. 1,629,712; May 24.
 Injector, Oil. J. S. and A. Johnson. 1,639,409; Aug. 16.
 Ink. H. Schladebach and H. Hähle. 1,646,117; Oct. 11.
 Ink agitator. E. F. Marceau. 1,648,187; Nov. 8.
 Ink and making the same. M. S. Hopkins and N. Underwood. 1,621,541; Mar. 22.
 Ink bottles, Combined stopper and pen-filling attachment for. A. D. Platt. 1,627,804; May 10.
 Ink dispenser. W. R. Greenland. 1,632,473; June 14.
 Ink-distributing roller. A. J. Duane. 1,637,807; Aug. 2.
 Ink eradicator. T. W. Crippen. 1,630,829; May 31.
 Ink eraser. Steel-wool. F. Evans. 1,617,478; Feb. 15.
 Ink. Intaglio. M. S. Hopkins and N. Underwood. 1,621,542; Mar. 22.
 Ink, Printing. M. S. Hopkins and N. Underwood. 1,621,543; Mar. 22.
 Ink ribbon, Renewing. S. A. Neldich. 1,636,573; July 19.
 Ink-ribbon stop mechanism. S. A. Neldich. 1,639,749; Aug. 23.
 Inkstand. J. C. Pearson. Des. 73,265; Aug. 16.
 Inkstand, Embedded. W. T. Guth. 1,615,377; Jan. 25.

- Ink-vending device. O. Amos and C. A. Deal. 1,615,354; Jan. 25.
- Inkwell. W. J. Somerville. 1,615,600; Jan. 25.
- Inkwell, Automatically closing. O. N. Kelly. 1,628,786; May 17.
- Inking fountains of printing machines, Combined agitator and ink distributor for. G. and D. B. Ortleb. 1,615,769; Jan. 25.
- Inking mechanism. J. J. Halliwell. 1,644,723; Oct. 11.
- Inking mechanism. H. Swanson. 1,617,875; Feb. 15.
- Inking mechanism. H. Swanson. 1,617,878; Feb. 15.
- Inking pads, Making. P. A. Gollnick and J. J. Toolan. 1,642,199; Sept. 13.
- Inlaid work of curved formation and producing the same. F. H. Auld. 1,641,955; Sept. 13.
- Inlets, box for drums. G. H. Lang. 1,622,652; Mar. 29.
- Inlets, Plug for lubricant. C. G. Coffin and J. A. Wolf. 1,627,373; May 8.
- Innersole. J. F. Teehan. 1,646,430; Oct. 25.
- Innersole channel filler. L. H. Gilson. 1,639,770; Aug. 23.
- Innersole-forming machine. H. A. Ballard. 1,645,515; Oct. 18.
- Inner tube. W. J. Bowman. 1,628,642; May 17.
- Inner tube. G. H. Ellinwood. 1,613,089; Jan. 4.
- Inner-tube boot. E. V. Gilmore. 1,640,403; Aug. 30.
- Inner tubes, Apparatus for unwrapping and stripping. J. Smith. 1,642,566; Sept. 13.
- Inner tubes, Apparatus for vulcanizing. O. J. Kuhlke. 1,644,678; Oct. 11.
- Inner tubes, Beveling the ends of. C. E. Maynard. 1,649,358; Nov. 15.
- Inner tubes, Composition for treating. A. L. Gibbs and J. A. Gill. 1,620,342; Mar. 8.
- Inner tubes, Cuffing device for. E. W. Bierman. 1,637,467; Aug. 2.
- Inner tubes for pneumatic tires, Treating cured. F. Fenton. 1,624,725; Apr. 12.
- Inner tubes, Manufacture of. H. H. Hastings. 1,619,119; Mar. 1.
- Inner tubes, Manufacturing. C. H. Semple. 1,634,160; June 28.
- Inner tubes or the like, Testing case for. W. E. McAshland. 1,638,049; Aug. 9.
- Inscribing and recording machine, Commercial. R. Ley-sieffer. 1,640,003; Aug. 23.
- Insect catcher. C. Y. Hake. 1,638,690; Aug. 9.
- Insect destroyer. A. L. Duunagan. 1,624,321; Apr. 12.
- Insect destroyer. E. Eckl. 1,631,121; June 7.
- Insect destroyer. W. W. Harwood. 1,624,240; Apr. 12.
- Insect destroyer. F. A. Treffer and J. A. Peterson. 1,622,922; Mar. 29.
- Insect destroyer, Electrical. V. D. Coglon. 1,651,999; Dec. 6.
- Insect destroyer, Electrical. V. D. Coglon. 1,648,723; Nov. 8.
- Insect-destroying device. M. Ray. 1,633,753; June 28.
- Insect-exterminating machine. V. N. Delgado. 1,637,477; Aug. 2.
- Insect exterminator. J. T. Monte. 1,642,306; Sept. 13.
- Insect trap. A. D. Cardinet. 1,634,648; July 6.
- Insect trap. R. J. Harris. 1,626,531; Apr. 26.
- Insect trap. W. Pierpoint. 1,614,153; Jan. 11.
- Insecticide. M. A. Drushel. 1,630,836; May 31.
- Insecticide. M. J. Forsell. 1,618,702; Feb. 22.
- Insecticide. H. Howard. 1,620,208; Mar. 8.
- Insecticide. W. K. Schweitzer. 1,648,595-6; Nov. 8.
- Insecticide. F. Zernik. 1,652,339; Dec. 13.
- Insecticide. C. A. and S. D. Wilkins. 1,630,506; May 31.
- Insecticide and applying same. W. L. Tanner. 1,652,291; Dec. 13.
- Insecticide and fungicide. K. S. Boynton. 1,621,825; Mar. 22.
- Insecticide and making the same. H. P. Corson. 1,648,577; Nov. 8.
- Insecticide and preparing the same. D. T. Day. 1,647,214; Nov. 1.
- Insecticide composition. O. F. Hedenburg and D. S. Pratt. 1,627,389; May 3.
- Insecticide duster. L. Chessman. 1,641,735; Sept. 6.
- Insecticide emulsion. P. R. Jones. 1,646,149; Oct. 18.
- Insecticide, Making an. W. C. Piver. 1,626,872; May 3.
- Insecticides, Manufacture of arsenate. H. W. Walker. 1,629,557; May 24.
- Insectifuge. S. L. Hoover. 1,619,258; Mar. 1.
- Insectifuge. L. E. Jackson and H. E. Wassell. 1,615,843; Feb. 1.
- Inserting and welding machine, Combination. J. J. Higgins. 1,626,678; May 3.
- Insole. C. A. Roberts. 1,630,135; May 24.
- Insole, Molded flange. A. H. Prenzel. 1,638,705; Aug. 9.
- Insole, Ventilated. G. M. Penbody. 1,642,308; Sept. 13.
- Insole, Waterproofed. C. A. Morin. 1,638,504; Aug. 9.
- Insulating Machine for making cork. J. Nueske, jr. 1,642,690; Sept. 20.
- Inspection and weighing apparatus. G. S. Jaxon. 1,619,782; Mar. 1.
- Inspection light. J. Boerman. 1,615,067; Jan. 18.
- Instantaneous switch. A. Leverenz. Re16,054; June 14.
- Instrument attachment. A. Halpin. 1,627,059; May 3.
- Instrument-board panel. A. G. Smith. Des. 73,347; Aug. 23.
- Instrument for graphic control. E. Szepesl. 1,623,216; Apr. 5.
- Instrument for indicating tensile strain. H. L. Doolittle. 1,650,789; Nov. 20.
- Instrument for measuring reentrant angles. G. S. Strakman. 1,633,887; Aug. 19.
- Instrument for the inspection of pipes, canals, and cavities of the human or animal body. P. Heymer. 1,632,290; June 14.
- Instrument for treating urethritis. O. Hayes. 1,644,919; Oct. 11.
- Instrument panel. T. C. Dingman. Des. 73,163; Aug. 2.
- Instrument panel. T. C. Dingman. 1,620,328; Mar. 8.
- Instrument support. A. F. Pleper. 1,645,660; Oct. 18.
- Instrument supporting and adjusting apparatus. F. Koenigkramer. 1,638,938; Aug. 16.
- Instruments of the lute type. Chord-controlling means for. F. P. Richter. 1,652,797; Dec. 13.
- Instrument-supporting apparatus. F. Koenigkramer. 1,638,939; Aug. 16.
- Insulated conductors, Machine for forming armored. J. H. Hunter. 1,640,939; Aug. 30.
- Insulated conductors, Making. E. B. Wheeler. 1,638,556; Aug. 9.
- Insulated conductor terminal. E. A. Mau. 1,645,539; Oct. 18.
- Insulated electric apparatus, Control of liquid-. M. Buchholz. 1,642,401; Sept. 13.
- Insulated electric apparatus, Protecting liquid-. M. Buchholz. 1,642,408; Sept. 13.
- Insulated electric apparatus, Protection of liquid-. M. Buchholz. 1,642,403; Sept. 13.
- Insulated electric apparatus, Protective system for liquid-. M. Buchholz. 1,642,404; Sept. 13.
- Insulated electric apparatus, System of protection of liquid-. M. Buchholz. 1,642,407; Sept. 13.
- Insulating piston. M. B. Kratzberger. 1,624,701; Apr. 12.
- Insulating structure, Compound. L. L. Knox. 1,650,279; Nov. 22.
- Insulating and plaster board from corn stalks, Manufacturing. J. J. Hinde. 1,623,184; Apr. 5.
- Insulating and plaster holding wall and ceiling covering. J. Nelson and T. B. Hennessy. Re16,763; Oct. 1.
- Insulating cores. G. L. Rock. 1,632,853; June 21.
- Insulating disks in metal caps, Apparatus for inserting. L. G. Lange. 1,629,513; May 24.
- Insulating element. J. J. Weldon. 1,640,433; Aug. 30.
- Insulating enclosure. A. C. Gaynor. 1,641,265; Sept. 6.
- Insulating liquid. C. J. Rodman. 1,622,809; Mar. 29.
- Insulating material. H. Brown. 1,637,547; Aug. 2.
- Insulating material. A. R. Kemp. 1,628,986; May 17.
- Insulating material. F. M. Olson. 1,651,539; Dec. 6.
- Insulating material, Ceramic. J. A. Jeffery and E. T. Montgomery. 1,631,729; June 7.
- Insulating means, Motor shock-. J. Riise. 1,642,697; Sept. 20.
- Insulating paper containing phenol resins, Production of. C. A. Haanen. 1,630,424; May 31.
- Insulating smoke pipes. L. E. Linhart. 1,625,734; Apr. 19.
- Insulating structure for high-potential condenser terminals and the like. W. Dubilier. 1,650,983; Nov. 20.
- Insulating tape, Heat-. C. L. Hill. 1,642,204; Sept. 13.
- Insulating wall, Heat-. J. C. Woodson. 1,626,656; May 3.
- Insulation. Attachment to electric. A. Haddock. 1,624,595; Apr. 12.
- Insulation, boson. Electric. D. M. Sutherland, jr. 1,636,491; July 19.
- Insulation composition. F. H. Ford. 1,620,091; Mar. 8.
- Insulation construction. L. B. McMillan. 1,654,137; Dec. 27.
- Insulation construction for containers. J. S. Carroll. 1,629,255; May 17.
- Insulation lining for cold-storage chambers, Heat. E. A. Thomson. 1,614,411; Jan. 11.
- Insulation of finely-divided magnetic material. H. H. Lowry. 1,651,957-8; Dec. 6.
- Insulation of magnetic material. V. E. Legg. 1,647,738; Nov. 1.
- Insulation-severing device. E. H. Sippel and N. J. Wright. 1,632,320; June 14.
- Insulator. C. Aalberg. 1,637,329; Aug. 2.
- Insulator. H. D. Brookman. 1,640,816; Aug. 30.
- Insulator. S. C. Cutter. 1,620,864; Mar. 15.
- Insulator. L. Fort. 1,625,645; Apr. 19.
- Insulator. C. L. Fortescue. 1,637,374; Aug. 2.
- Insulator. W. T. Goddard. 1,621,246; Mar. 15.
- Insulator. W. T. Goddard. 1,625,601; Apr. 19.
- Insulator. W. T. Goddard. 1,628,241; May 10.
- Insulator. M. F. H. Gouverneur. 1,617,154; Feb. 8.
- Insulator. M. F. H. Gouverneur. 1,651,201; Nov. 29.
- Insulator. W. F. Grimes. 1,649,111; Nov. 15.
- Insulator. R. P. Jackson. 1,622,648; Mar. 29.
- Insulator. H. P. Liversidge. 1,653,436; Dec. 20.
- Insulator. D. H. Osborne. 1,650,034; Nov. 22.
- Insulator. H. E. Rider. 1,620,392; Mar. 8.
- Insulator caps, Making. H. L. Barnes. 1,636,586; July 19.
- Insulator changer. J. G. Simmons. 1,616,764; Feb. 8.
- Insulator connector. N. A. Wahlberg. 1,645,266; Oct. 11.
- Insulator, Cut-out. T. Bailey. 1,652,693; Dec. 13.
- Insulator, Electrical. A. M. Trognor. 1,651,783; Dec. 6.
- Insulator fitting. G. E. Eckert. 1,633,399; June 21.
- Insulator for antennae. A. F. Curtright. 1,617,989; Feb. 15.

- Insulator for high-tension electric current. W. Deutsch. 1,654,212; Dec. 27.
- Insulator, High-tension. A. Simon. 1,643,565; Sept. 27.
- Insulator, Line. L. E. Hande. 1,651,704; Dec. 6.
- Insulator, Link-type. N. A. Wahlberg. 1,652,506; Dec. 13.
- Insulator manufacture. H. P. Liversidge. 1,653,437; Dec. 20.
- Insulator, Molding strain. F. H. Tupper. 1,621,042; Dec. 15.
- Insulator or cut-out switch, Sectional. R. A. Sapp. 1,629,893; May 24.
- Insulator pins, Making. C. L. Peirce, jr. 1,652,835; Dec. 13.
- Insulator, Reinforced. W. D. Kyle. 1,613,464; Jan. 4.
- Insulator, Sectional. J. M. Peck. 1,649,853; Nov. 22.
- Insulator, Shock. J. Rise. 1,650,045; Nov. 22.
- Insulator, Strain. J. S. Lapp. 1,654,047; Dec. 27.
- Insulator support. C. Christensen. 1,643,943; Oct. 4.
- Insulator, Suspension. J. M. Peck. 1,645,447; Oct. 11.
- Insulator, Suspension. J. M. Peck. 1,653,117; Dec. 20.
- Insulator, Terminal. H. W. I. Royal. 1,620,693; Mar. 15.
- Insulator, Wood strain. L. E. Frost. 1,654,286; Dec. 27.
- Insulators. Apparatus for testing. F. C. Doble. 1,644,422; Oct. 4.
- Insulators, Assembling. K. A. Hawley. 1,647,695; Nov. 1.
- Insulators having live wires, Device for testing. L. P. Delssabo, B. F. Dengler, and E. R. Stauffer. 1,647,905; Nov. 1.
- Insulators, Manufacturing electric. E. R. C. Boelcke. 1,636,282; July 19.
- Insulators, Method and apparatus for finishing. A. E. Atterman. 1,641,815; Sept. 6.
- Insulators, Method of and apparatus for forming. K. C. Randall. 1,630,762; May 31.
- Insulators, Method of and apparatus for making. G. M. Eaton. 1,615,800; Jan. 25.
- Insurance cash register. F. L. Pruett. 1,616,867; Oct. 3.
- Insurance-policy form. E. B. Wilford. 1,634,240; June 28.
- Intake. G. M. French. 1,641,670; Sept. 6.
- Intake-manifold heater. G. M. Holley. 1,613,796; Jan. 11.
- Intake manifolds and circuit for same, Heating system for. H. S. Mattison. 1,632,139; June 14.
- Intake silencer. A. V. Saharoff. 1,644,794; Oct. 11.
- Intake ventilator. N. A. Lichty and C. L. Ostrander. 1,613,897; Jan. 11.
- Intelligence, Distribution of. H. A. Affel. 1,632,777; June 21.
- Intelligence, Distribution of. L. Expenschied. 1,633,082; June 21.
- Intensifiers and oscillators, Device for starting. S. Loewe. 1,654,295; Dec. 27.
- Intercommunication system. T. R. Coggeshall. 1,647,606; Nov. 1.
- Interdenial spaces, Cleaning. H. Munro. 1,627,525; Mar. 3.
- Interfolding machine. P. J. Christman, jr. 1,637,550; Aug. 2.
- Interior-collar can. M. E. Widell. 1,621,389; Mar. 15.
- Interleaving device. F. H. Shinn. 1,627,417; Mar. 3.
- Interliner. D. Baker. 1,620,054; Mar. 8.
- Interlock mechanism. H. F. Woernley. 1,615,429; Jan. 25.
- Interlocking control for multistage compressors, Centralizer. S. B. Redfield. 1,623,494; Apr. 5.
- Interlocking mechanism, Electric. D. L. Galusha. 1,654,511; Dec. 27.
- Interment mat. J. M. Stern and E. M. Elder. 1,637,839; Aug. 2.
- Intermittent feeler in transferrer. H. L. Blanchard. 1,627,526; May 10.
- Internal-combustion engine. D. E. Anderson. 1,644,702; Oct. 11.
- Internal-combustion engine. H. Andresen. 1,654,156; Dec. 27.
- Internal-combustion engine. W. D. Armitage. 1,645,471; Oct. 11.
- Internal-combustion engine. F. E. Aseltine. 1,619,965; Mar. 8.
- Internal-combustion engine. B. R. Bacon. 1,628,100; May 10.
- Internal-combustion engine. A. J. Baker. 1,620,936; Mar. 15.
- Internal-combustion engine. D. B. Baker. 1,639,449; Aug. 16.
- Internal combustion engine. J. Barletta. 1,652,236; Dec. 13.
- Internal-combustion engine. H. Becker. 1,649,440; Nov. 15.
- Internal-combustion engine. E. H. Belden. 1,623,462; Apr. 5.
- Internal-combustion engine. J. E. Blanding. 1,631,615; June 7.
- Internal-combustion engine. M. H. Blank. 1,617,986; Feb. 15.
- Internal-combustion engine. M. H. Blank. 1,625,189; Apr. 19.
- Internal-combustion engine. P. P. Bourne and O. Nonnenbruch. 1,642,293; Sept. 13.
- Internal-combustion engine. J. W. Boyd. 1,617,792; Feb. 15.
- Internal-combustion engine. L. K. Braren. 1,633,541; June 21.
- Internal-combustion engine. W. B. Bronander. 1,649,806; Nov. 22.
- Internal-combustion engine. H. L. Brownback. 1,643,603; Sept. 27.
- Internal-combustion engine. H. L. Brownback. 1,651,250; Nov. 22.
- Internal-combustion engine. H. A. Bullard. 1,618,806; Feb. 22.
- Internal-combustion engine. W. Burke. 1,648,719; Nov. 8.
- Internal-combustion engine. G. E. Burson. 1,628,027; May 10.
- Internal-combustion engine. E. R. Burtnett. 1,614,229; Jan. 11.
- Internal-combustion engine. E. R. Burtnett. 1,623,384-7; Apr. 5.
- Internal-combustion engine. E. R. Burtnett. 1,623,389-91; Apr. 5.
- Internal-combustion engine. E. R. Burtnett. 1,624,581-4; Apr. 12.
- Internal-combustion engine. E. R. Burtnett. 1,626,387-8; Apr. 26.
- Internal-combustion engine. E. R. Burtnett. 1,632,879; June 21.
- Internal-combustion engine. E. R. Burtnett. 1,632,881; June 21.
- Internal-combustion engine. E. R. Burtnett. 1,633,931; June 28.
- Internal-combustion engine. E. R. Burtnett. 1,635,533-35; July 12.
- Internal-combustion engine. E. R. Burtnett. 1,638,287-8; Aug. 16.
- Internal-combustion engine. E. R. Burtnett. 1,638,291; Aug. 9.
- Internal-combustion engine. E. R. Burtnett. 1,639,164-5; Aug. 16.
- Internal-combustion engine. E. R. Burtnett. 1,645,795-7; Oct. 18.
- Internal-combustion engine. E. R. Burtnett and H. A. Brunell. 1,638,290; Aug. 9.
- Internal-combustion engine. J. A. Charter. 1,649,509; Nov. 15.
- Internal-combustion engine. A. E. L. Chorlton. 1,647,434; Nov. 1.
- Internal-combustion engine. C. S. Clark. 1,618,859; Feb. 22.
- Internal-combustion engine. A. Craigion. 1,635,742; July 12.
- Internal-combustion engine. J. H. Crary. 1,652,930; Dec. 13.
- Internal-combustion engine. E. B. Cushman. 1,630,527; May 31.
- Internal-combustion engine. G. R. Davenport. 1,621,155; Mar. 15.
- Internal-combustion engine. G. R. Davenport. 1,635,266; July 12.
- Internal-combustion engine. H. E. Dickinson. 1,620,446; Mar. 8.
- Internal-combustion engine. H. Dock. 1,616,029; Feb. 1.
- Internal-combustion engine. F. W. Dufwa. 1,639,217; Aug. 16.
- Internal-combustion engine. F. Dürr. 1,633,851; June 28.
- Internal-combustion engine. L. Dyck. 1,627,160; May 3.
- Internal-combustion engine. L. H. Dyer. 1,631,120; June 7.
- Internal-combustion engine. O. J. Eckland. 1,640,696; Aug. 30.
- Internal-combustion engine. J. Edman. 1,649,817; Nov. 22.
- Internal-combustion engine. K. Elermann. 1,644,517; Oct. 4.
- Internal-combustion engine. S. Elliot. 1,614,329; Oct. 4.
- Internal-combustion engine. E. R. Evans. 1,639,762; Aug. 23.
- Internal-combustion engine. C. S. Fliedner. 1,644,719; Oct. 11.
- Internal-combustion engine. F. W. Frese. 1,624,404; Apr. 12.
- Internal-combustion engine. W. J. Gannet. 1,634,901; July 5.
- Internal-combustion engine. M. Gatti. 1,616,789; Oct. 25.
- Internal-combustion engine. G. B. Geran. 1,613,090; Jan. 11.
- Internal-combustion engine. J. Gerstmayr. 1,640,445; Aug. 30.
- Internal-combustion engine. S. B. Gold. 1,627,532; May 3.
- Internal-combustion engine. J. D. Granath. 1,623,589; Apr. 5.
- Internal-combustion engine. J. J. Grégoire. 1,637,746; Aug. 2.
- Internal-combustion engine. F. M. Grimes. 1,612,917; Jan. 4.
- Internal-combustion engine. W. F. Grumme. 1,625,205; Apr. 19.
- Internal-combustion engine. T. W. Hainline. 1,633,323; June 21.
- Internal-combustion engine. J. Haltenberger. 1,630,245; May 24.

- Internal-combustion engine. W. L. Hartzell. 1,642,494; Sept. 13.
- Internal-combustion engine. A. S. Hawks. 1,624,101; Apr. 12.
- Internal-combustion engine. N. L. Heinz. 1,633,251; June 21.
- Internal-combustion engine. W. H. Henderson. 1,619,071; Jan. 1.
- Internal-combustion engine. E. Herkt. 1,645,595; Oct. 18.
- Internal-combustion engine. K. L. Herrmann. 1,613,610; Jan. 11.
- Internal-combustion engine. K. L. Herrmann. 1,618,194; Feb. 22.
- Internal-combustion engine. A. W. Hubbell. 1,632,478; June 14.
- Internal-combustion engine. T. A. Hutsell. 1,645,647; Oct. 18.
- Internal-combustion engine. R. K. Jack. 1,629,664; May 24.
- Internal-combustion engine. T. G. Jackson. 1,624,952; Apr. 19.
- Internal-combustion engine. B. Jerome. 1,631,208; June 7.
- Internal-combustion engine. F. M. Jobes. 1,629,795; May 24.
- Internal-combustion engine. F. M. Jobes. 1,649,700; Nov. 15.
- Internal-combustion engine. H. R. Jones. 1,621,634; Mar. 22.
- Internal-combustion engine. O. E. Jorgensen. 1,615,282; Jan. 25.
- Internal-combustion engine. O. E. Jorgensen. 1,615,458; Jan. 25.
- Internal-combustion engine. E. Junge. 1,624,489; Apr. 12.
- Internal-combustion engine. E. Junge. 1,643,581; Sept. 27.
- Internal-combustion engine. J. Kelster. 1,616,320; Feb. 1.
- Internal-combustion engine. C. F. Kettering. 1,644,732; Oct. 11.
- Internal-combustion engine. C. F. Kettering and C. B. Shurt. 1,644,731; Oct. 11.
- Internal-combustion engine. E. Krettingen. 1,648,647; Nov. 8.
- Internal-combustion engine. E. T. Larkin. 1,642,735; Sept. 20.
- Internal-combustion engine. C. L. Lawrence. 1,621,326; Mar. 15.
- Internal-combustion engine. V. Link. 1,625,261; Apr. 19.
- Internal-combustion engine. C. E. Lucke. 1,619,825; Mar. 8.
- Internal-combustion engine. C. E. Lucke. 1,626,202; Apr. 26.
- Internal-combustion engine. C. E. Lucke. 1,629,111; May 17.
- Internal-combustion engine. C. E. Lucke. 1,633,384; June 21.
- Internal-combustion engine. C. E. Lucke. 1,640,950; Aug. 30.
- Internal-combustion engine. W. V. B. Marquette. 1,645,959; Oct. 18.
- Internal-combustion engine. C. C. Martin. 1,648,141; Nov. 8.
- Internal-combustion engine. E. H. Maupin. 1,628,894; May 17.
- Internal-combustion engine. H. E. McCray. 1,625,043; Apr. 19.
- Internal-combustion engine. H. E. McCray. 1,648,737; Nov. 8.
- Internal-combustion engine. R. J. Meyers and M. Schlosberg. 1,618,602; Feb. 22.
- Internal-combustion engine. A. Moorhouse. 1,635,855; July 12.
- Internal-combustion engine. A. Moorhouse. 1,689,892; Aug. 23.
- Internal-combustion engine. J. J. Morris and L. N. Gulick. 1,651,147; Nov. 23.
- Internal-combustion engine. G. Morrisey. 1,649,246; Nov. 15.
- Internal-combustion engine. V. A. Nelson. 1,640,552; Aug. 30.
- Internal-combustion engine. O. Nelson and P. Lignell. 1,640,953; Aug. 30.
- Internal-combustion engine. F. M. Newson. 1,637,958; Aug. 2.
- Internal-combustion engine. G. P. Nielson. 1,620,124; Mar. 8.
- Internal-combustion engine. L. H. Noah. 1,636,612; July 19.
- Internal-combustion engine. H. A. Nordwick. 1,616,630; May 24.
- Internal-combustion engine. H. A. Nordwick and P. J. Marchetti. 1,624,277; Apr. 12.
- Internal-combustion engine. G. Nuesell. 1,648,780; Nov. 8.
- Internal-combustion engine. F. J. Oakes. 1,634,681; July 5.
- Internal-combustion engine. H. J. Outcalt. 1,627,403; May 3.
- Internal-combustion engine. B. V. Palmer. 1,616,137; Feb. 1.
- Internal-combustion engine. C. A. Parsons, S. S. Cook, and H. G. Kimber. 1,616,332; Feb. 1.
- Internal-combustion engine. A. J. Patch. 1,645,543; Oct. 18.
- Internal-combustion engine. C. W. Pendock. 1,620,917; Mar. 15.
- Internal-combustion engine. E. W. Petter and J. Hutton. 1,653,925; Dec. 27.
- Internal-combustion engine. V. U. D. Pierce. 1,624,432; Dec. 1.
- Internal-combustion engine. M. Plass. 1,649,544; Nov. 15.
- Internal-combustion engine. F. R. Porter. 1,618,473; Feb. 22.
- Internal-combustion engine. F. R. Porter. 1,618,603; Feb. 22.
- Internal-combustion engine. F. R. Porter. 1,620,832; Mar. 15.
- Internal-combustion engine. F. R. Porter. 1,649,486; Nov. 15.
- Internal-combustion engine. E. Prouty. 1,616,391; Feb. 1.
- Internal-combustion engine. A. R. Purdy. 1,616,064; Feb. 1.
- Internal-combustion engine. P. H. Reid. 1,639,898; Aug. 23.
- Internal-combustion engine. C. Reineke. 1,630,311; May 31.
- Internal-combustion engine. H. R. Ricardo. 1,622,885; Mar. 29.
- Internal-combustion engine. C. G. A. Rosén. 1,640,518; Aug. 30.
- Internal-combustion engine. D. E. Ross. 1,628,877; May 3.
- Internal-combustion engine. L. Salves. 1,653,825; Dec. 27.
- Internal-combustion engine. R. Schlatter. 1,622,398; Mar. 29.
- Internal-combustion engine. I. W. Seward. 1,648,597; Nov. 8.
- Internal-combustion engine. W. E. Shore. 1,633,909; June 23.
- Internal-combustion engine. B. C. Smith. 1,623,501; Apr. 5.
- Internal-combustion engine. W. F. Smith. 1,640,622; Aug. 30.
- Internal-combustion engine. E. Sokal. 1,631,702-6; June 7.
- Internal-combustion engine. I. H. Spencer. 1,649,370; Nov. 15.
- Internal-combustion engine. E. O. Spillman. 1,624,992; Apr. 19.
- Internal-combustion engine. D. A. Stewart. 1,645,309; Oct. 11.
- Internal-combustion engine. B. C. Stickney. 1,628,442; May 10.
- Internal-combustion engine. B. C. Stickney. 1,632,517; June 14.
- Internal-combustion engine. B. C. Stickney. 1,641,787; Sept. 18.
- Internal-combustion engine. P. Stone. 1,649,869; Nov. 22.
- Internal-combustion engine. A. Strand. 1,643,645; Sept. 27.
- Internal-combustion engine. S. Summer. 1,622,010; Mar. 22.
- Internal-combustion engine. O. D. Sutton and C. E. Kendall. 1,625,835; Apr. 26.
- Internal-combustion engine. R. J. Sweet. 1,649,554; Nov. 15.
- Internal-combustion engine. O. E. Szekely. 1,622,687; Mar. 29.
- Internal-combustion engine. W. M. Tompkins. 1,618,692; Feb. 22.
- Internal-combustion engine. H. A. Trussell. 1,643,396; Sept. 27.
- Internal-combustion engine. C. Tuckfield. 1,632,684; June 14.
- Internal-combustion engine. J. G. Vincent. 1,652,333; Dec. 13.
- Internal-combustion engine. G. W. Waldo. 1,629,327; May 17.
- Internal-combustion engine. H. W. Wellman, Jr. 1,618,360; Feb. 22.
- Internal-combustion engine. E. Wercely. 1,615,895; Feb. 1.
- Internal-combustion engine. O. Werner. 1,616,157; Feb. 1.
- Internal-combustion engine. W. B. S. Whaley. 1,645,170; Oct. 11.
- Internal-combustion engine. J. E. Whitfield. 1,649,004; Nov. 15.
- Internal-combustion engine. W. P. Wiens. 1,622,300; Mar. 29.
- Internal-combustion engine. J. M. Williams, Jr. 1,622,015; Mar. 22.
- Internal-combustion engine. J. H. Wilson. 1,624,454; Apr. 12.
- Internal-combustion engine. K. M. Wise. 1,640,634; Aug. 30.
- Internal-combustion engine. L. M. Woolson. 1,616,938; Feb. 8.
- Internal-combustion engine. L. M. Woolson. 1,616,940-2; Feb. 8.
- Internal-combustion engine. L. M. Woolson. 1,626,061; Apr. 26.

- Internal-combustion engine. L. M. Woolson. 1,627,761; May 10.
- Internal-combustion engine. L. M. Woolson. 1,638,903; Aug. 18.
- Internal-combustion engine. L. M. Woolson. 1,639,874; Aug. 23.
- Internal-combustion engine. L. M. Woolson. 1,647,848-9; Nov. 1.
- Internal-combustion engine. L. M. Woolson. 1,652,386; Dec. 13.
- Internal-combustion engine. V. F. Zahodiakin. 1,644,907; Oct. 11.
- Internal-combustion engine. W. M. Zaikowsky. 1,648,929; Nov. 15.
- Internal-combustion-engine attachment. J. M. Mader. 1,623,940; Apr. 5.
- Internal-combustion engine, Constant-compression. A. L. Riker. Re16,711; Aug. 23.
- Internal-combustion engine, Constant-compression. J. A. Charter. 1,627,727; May 10.
- Internal-combustion engine, Constant-pressure. P. A. Lawrence. 1,621,936; Mar. 22.
- Internal-combustion engine, Double-acting. M. G. Koury. 1,623,116; Apr. 5.
- Internal-combustion engine, Double-acting two-stroke. P. Kuyken. 1,618,345; Feb. 22.
- Internal-combustion engine, Double-acting two-stroke. W. Riehm. 1,632,984; June 21.
- Internal-combustion engine, Forced-feed. G. Fornaca. 1,625,597; Apr. 19.
- Internal-combustion engine, Heavy-oil. L. Corsi. 1,621,525; Mar. 22.
- Internal-combustion engine, High-compression two-cycle. S. Olson. 1,646,554; Oct. 25.
- Internal-combustion engine, Liquid-fuel. E. H. Tartrals. 1,615,293; Jan. 25.
- Internal-combustion engine, Multicylinder. C. Reineke. 1,629,530; May 24.
- Internal-combustion engine, Multiple-cylinder. F. Müller. 1,613,618; Jan. 11.
- Internal-combustion engine, Progressive-impulse. A. Moore. 1,633,385; June 21.
- Internal-combustion engine, Reversible. F. T. Cable. 1,627,316; May 3.
- Internal-combustion engine, Rotary. A. B. Craig. 1,615,110; Jan. 18.
- Internal-combustion engine, Rotary. A. J. La Gasa. 1,618,448; Feb. 22.
- Internal-combustion engine, Rotary. U. Hutchinson. 1,614,476; Jan. 18.
- Internal-combustion engine, Rotary. C. H. Kain. 1,628,876; Apr. 5.
- Internal-combustion engine, Rotary. R. L. Pannell. 1,634,269; July 5.
- Internal-combustion engine, Rotary. V. Z. Post. 1,644,490; Oct. 4.
- Internal-combustion engine, Rotary. M. L. Zimmer. 1,649,091; Nov. 15.
- Internal-combustion engine, Rotary-valve-type. E. W. Jewell. 1,650,362; Nov. 22.
- Internal-combustion engine, Sleeve-valve. L. A. Gaw. 1,650,120; Nov. 22.
- Internal-combustion engine, Two-cycle. G. Held. 1,613,226; Jan. 4.
- Internal-combustion engine, Two-cycle. L. V. Hosford and D. Davison. 1,633,585; June 28.
- Internal-combustion engine, Two-cycle. F. Lang. 1,645,199; Oct. 11.
- Internal-combustion engine, Two-stroke. W. Riehm. 1,629,535; May 24.
- Internal-combustion engine, Two-stroke-cycle. C. S. H. Snow. 1,628,520; May 10.
- Internal-combustion engine, Two-stroke-cycle opposed-piston. W. B. Bronander. 1,614,867; Jan. 18.
- Internal-combustion engine, Uniform compression. T. R. Wilson. 1,639,477; Aug. 16.
- Internal-combustion motor. Z. W. Davis. 1,639,287; Aug. 16.
- Internal-combustion motor. A. A. Gloss. 1,614,608; Jan. 18.
- Internal-combustion motor. S. Schieffelin. 1,613,136; Jan. 4.
- Internal-combustion rotary motor. G. E. Bragg. 1,619,237; Mar. 1.
- Internal-explosion engine. W. F. Crouch. 1,636,289; July 19.
- Interupter mechanism. W. W. Hawkins. 1,624,100; Apr. 12.
- Inulin and inulin derivatives, Production of. W. C. Arsem. 1,616,164; Feb. 1.
- Inulin, Extraction and purification of. W. C. Arsem. 1,616,167; Feb. 1.
- Inulin, Hydrolysis of. W. C. Arsem. 1,616,169; Feb. 1.
- Inulin, Hydrolysis of. W. C. Arsem. 1,616,171; Feb. 1.
- Inulin, Lifter and carrier. S. S. Jenkins. 1,641,388; Sept. 6.
- Invalid support. M. Cathrine. 1,628,949; May 17.
- Inverter. W. W. Wallace. 1,644,407; Oct. 4.
- Investment composition. C. L. Corfman. 1,631,249; June 7.
- Ion concentration, Apparatus for measuring. E. Mislowitz. 1,648,739; Nov. 8.
- Iron: See—
- Carry iron. Puff iron.
- Climbing iron. Reeling iron.
- Curling iron. Solder iron.
- Electric iron. Soldering iron.
- Half-curling iron. Steam-heated iron.
- Marceling iron. Waffle iron.
- Pressing iron.
- Iron and steel and product, Producing corrosion-resisting coatings on. C. H. Humphries. 1,615,585; Jan. 25.
- Iron and steel and products, Producing corrosion-resisting coating on. C. H. Humphries. 1,651,278; Nov. 29.
- Iron and steel, Making. S. Westberg. 1,629,563; May 24.
- Iron and steel nonoxidizable and articles produced thereby, Rendering. E. G. Caughey. 1,617,616; Feb. 15.
- Iron and steel, Producing rustless. D. W. Berlin. 1,631,512; June 7.
- Iron, Carbonyl, Manufacture of. M. Müller-Cunradl. 1,614,625; Jan. 18.
- Iron casting, Making malleable. H. A. Schwartz. 1,636,657; July 19.
- Iron castings, Making malleable. H. A. Schwartz. 1,640,674; Aug. 30.
- Iron, Cast-iron nail with copper insert. K. Spieckermann. 1,620,496; Mar. 8.
- Iron from its oxide ores, Making sponge. W. W. Percy. 1,645,968; Oct. 18.
- Iron, Manufacture of sponge. P. W. Nevill. 1,635,950; July 12.
- Iron ore, Apparatus for utilizing low-grade. H. H. Hindshaw. 1,633,339; June 23.
- Iron oxide, Manufacturing. H. C. Stewart. 1,642,975; Sept. 20.
- Iron plug, Electric. B. G. C. Stephens. 1,618,686; Feb. 22.
- Iron pressing support, Safety. J. A. Soffa. 1,613,297; Jan. 4.
- Iron, Refining of. G. S. Evans. 1,646,728; Oct. 25.
- Iron roll, Chilled. H. E. Walters. 1,627,626; May 10.
- Iron scale, Purifying. A. Lucas. 1,631,423; June 7.
- Iron slat of 2-phenylquinoline-4-carboxylic acid and making same. M. L. Crossley and M. L. Dolt. 1,638,834; Aug. 16.
- Iron, steel, and other metals in open-hearth furnaces, Smelting and refining of. P. Kühn. 1,618,934; Feb. 22.
- Iron switch, Electric. F. H. Hanley. 1,646,911; Oct. 25.
- Iron, Treating. I. R. Valentine. 1,648,750; Nov. 8.
- Ironer, Flat-work. J. H. Taylor. 1,631,347; June 7.
- Ironer, Power-press. W. J. Lewis. 1,639,410; Aug. 16.
- Ironers, Piece feeder for flatwork. L. R. Sager and R. H. Mitchell. 1,641,784; Sept. 6.
- Ironing and pressing machines, Pad for. G. C. Houck. 1,628,147; May 10.
- Ironing board. E. W. Cummings. 1,622,495; Mar. 29.
- Ironing board. J. P. Doman. 1,612,909; Jan. 4.
- Ironing board. L. Faust. 1,618,374; Feb. 22.
- Ironing board. L. Faust. 1,631,255; June 7.
- Ironing board. D. W. Ferguson. 1,619,409; Mar. 1.
- Ironing board. M. and A. B. Fernandez. 1,615,119; Jan. 4.
- Ironing board. F. D. Gorman. 1,633,403; June 21.
- Ironing board. J. E. Kalgren. 1,636,232; July 19.
- Ironing board. J. E. Kalgren. 1,636,305; July 19.
- Ironing board. S. F. Kohn. 1,616,905; Feb. 8.
- Ironing board. A. J. Kufahl. 1,616,907; Feb. 8.
- Ironing board. W. L. McGowan. 1,634,294; July 5.
- Ironing board. E. T. Mickey. 1,639,304; Aug. 16.
- Ironing board. R. A. Morrison and F. L. Oswald. 1,626,624; May 3.
- Ironing board. L. Nuesse. 1,614,489; Jan. 18.
- Ironing board. E. Wagh. 1,651,427; Dec. 6.
- Ironing board and ladder, Combined. M. Carlon. 1,617,234; Feb. 8.
- Ironing-board and stand, Combined. A. W. Sherwood and G. B. Groff. 1,618,115; Feb. 15.
- Ironing board and step ladder, Combined. C. D. Wolf. 1,632,721; June 14.
- Ironing board, Cabinet. J. Dearwood. 1,633,003; June 21.
- Ironing-board cabinet. G. Evans. 1,625,354; Apr. 19.
- Ironing board, Foldable. F. L. Ellis. 1,618,116; Jan. 18.
- Ironing board, Folding. A. E. Todd. 1,622,403-4; Mar. 29.
- Ironing board, Folding. C. E. Tonguetto and R. A. McLean. 1,633,857; Jan. 11.
- Ironing-board installment. L. E. Watts. 1,619,774; Mar. 1.
- Ironing boards, Garment tray for. J. R. Clover. 1,630,925; May 31.
- Ironing boards, Pad for. H. Kobrin. 1,636,913; July 26.
- Ironing boards, Receptacle for. A. Sondack. 1,621,090; Mar. 15.
- Ironing horse for sleeves. A. Rehfeldt. 1,614,043; Jan. 11.
- Ironing machine. T. N. Brown. 1,641,315; Sept. 6.
- Ironing machine. F. D. Chapman. Re16,647; June 7.
- Ironing machine. A. O. Dady. 1,652,561; Dec. 13.
- Ironing machine. E. B. Decker. 1,631,363-4; June 7.
- Ironing machine. F. H. Ehnats. 1,650,617; Nov. 29.
- Ironing machine. H. C. and N. C. Ellis. 1,649,455-7; Nov. 15.
- Ironing machine. W. A. Frantz. 1,634,353; July 5.
- Ironing machine. P. E. Geldhof. 1,650,828; Nov. 29.

- Ironing machine. R. Hoe. 1,651,599-601; Dec. 6.
 Ironing machine. H. Louth. 1,642,038; Sept. 13.
 Ironing machine. G. E. Mathiasen. 1,649,357; Nov. 15.
 Ironing machine. A. S. Newsbam, P. A. Viersen, and G. Misch. 1,632,094; June 14.
 Ironing machine. A. M. Rasmussen. 1,627,747; May 10.
 Ironing machine. C. E. Reddig. 1,628,996; May 17.
 Ironing machine. E. H. Sumbaling. 1,634,523; July 5.
 Ironing machine. W. L. York. 1,618,400; Feb. 22.
 Ironing machine, Portable. M. Hedgion. 1,636,472; July 19.
 Ironing machine, Shirt-. A. J. Dreher and D. H. Benjamin. 1,634,654; July 5.
 Ironing-machine steam remover. P. E. Geldhof. 1,641,137; Aug. 30.
 Ironing machine, Universal. J. Huebsch. 1,623,187; Apr. 5.
 Ironing machines, Doffer for. R. J. Watts. 1,624,698; Apr. 12.
 Ironing machines, Guard and stop for. H. Tucker. 1,622,214; Mar. 22.
 Ironing machines, Wall cabinet for. M. Hedgion. 1,652,895; Dec. 13.
 Ironing pad. C. E. Hamilton. 1,630,894; May 31.
 Ironing press. A. B. Clisson. 1,613,818; Jan. 11.
 Ironing-press burguard. J. C. Ledbetter. 1,618,986; Mar. 1.
 Ironing-press burn guard. J. C. Ledbetter. 1,644,930; Oct. 11.
 Ironing roll. M. Hedgion. 1,636,471; July 19.
 Ironing roll. C. and S. Silverstein. 1,612,990; Jan. 4.
 Ironing spring. N. Fulton. 1,647,790; Nov. 1.
 Ironing table. C. A. Forney. 1,653,355; Dec. 20.
 Ironing table. A. L. Hartman. 1,638,733; Aug. 9.
 Ironing table. J. E. Kalgren. 1,637,526; Aug. 2.
 Ironing table. G. W. Lewis. 1,638,347; Aug. 9.
 Ironing table, Built-in. W. D. Johnston and G. M. Sullivan. 1,634,426; July 5.
 Irons, Attachment for electric. E. S. Karlson. 1,624,666; Nov. 12.
 Irons, Wicket torch for soldering. P. E. King. 1,615,764; Jan. 25.
 Irrigation system, Automatic hydraulic. E. A. Kiepast. 1,624,744; Apr. 12.
 Iso-alkyl resorcinol. A. R. L. Dohme. 1,649,668; Nov. 15.
 Isoedibenzantrones, Manufacture of. P. Nawlasky, O. Braunsdorf, and E. Holzapfel. 1,644,849; Oct. 11.
 Isoedibenzantrones, Manufacture of. H. Neresheimer. 1,644,850; Oct. 11.
 Jack: See Automobile jack.
 Boot jack. Pumping jack.
 Bracing jack. Reel jack.
 Candy jumping jack. Rim jack.
 Cobbler's jack. Rolling and motor propelled jack.
 Floor jack. Shoe jack.
 Hydraulic jack. Spiral pull jack.
 Jumping jack. Spring jack.
 Ladder jack. Telephone jack.
 Lifting jack. Testing jack.
 Loading jack. Track jack.
 Lumber-piling jack. Transporting jack.
 Meat jack. Truck jack.
 Oil-well jack. Vehicle jack.
 Pole-framing jack. Vehicle wheel jack.
 Pump jack. Window jack.
 Jack. A. J. Carter. 1,620,755; Mar. 15.
 Jack. M. M. Egan. 1,649,674; Nov. 15.
 Jack. P. J. Jackson. 1,640,411; Aug. 30.
 Jack. W. L. Knowles. 1,638,859; Aug. 16.
 Jack. S. Moltrup. 1,648,188; Nov. 8.
 Jack. F. P. Noe and S. M. Gooder. 1,646,591; Oct. 25.
 Jack. W. B. Runyan. 1,652,582; Dec. 13.
 Jack. W. B. Templeton. 1,626,591; May 3.
 Jack. I. A. Weaver. 1,650,510; Nov. 29.
 Jack and puller, Combination. H. Carlson. 1,621,829; Mar. 22.
 Jack box. R. M. Diener. 1,632,788; June 21.
 Jack plug. H. O. Engstrom. 1,642,064; Sept. 13.
 Jack-post construction. R. C. Rumbaugh. 1,617,966; Feb. 15.
 Jacket, House-flue. W. E. Frohish. 1,639,558; Aug. 16.
 Jacketed casing. D. B. Becker. 1,628,524; May 10.
 Jacking system, Hydraulic. H. G. Eisler. 1,613,268; Jan. 4.
 Jacks, Operating mechanism for lifting. F. L. Gormley. 1,628,108; Apr. 5.
 Jacks, Trip mechanism for. G. E. Weaver and A. R. Squyer. 1,648,036; Nov. 8.
 Jails and the like, Safety locking system for. D. F. Youngblood. 1,614,336; Jan. 11.
 Jails, etc., Observation and communication permitting device for. D. F. Youngblood. 1,629,371; May 17.
 Jar: See Candy jar.
 Preserver jar. Rotary jar.
 Preserving jar. Sealing jar.
 Jar. A. C. Crimmel. Des. 73,643; Oct. 18.
 Jar and closing mechanism, Fruit. L. O. Culver. 1,636,684; July 26.
 Jar clamp and wrench. P. Cole. 1,643,876; Sept. 27.
 Jar-closing machine. T. L. Tallaferro. 1,628,007; May 10.
 Jar-closing machine. T. L. Tallaferro. 1,644,209; Oct. 4.
 Jar closure. E. A. Dewald. 1,613,383; Jan. 4.
 Jar closure. S. A. Hoge. 1,640,122; Aug. 23.
 Jar closure. J. O. Rollins. 1,629,639; May 24.
 Jar closure. T. L. Tallaferro. 1,616,516; Feb. 8.
 Jar closure. T. L. Tallaferro. 1,616,518; Feb. 8.
 Jar closures or the like, Apparatus for forming sealing rings on. T. L. Tallaferro. 1,628,008; May 10.
 Jarlike or similar article. R. E. Lindsey. Des. 74,064; Dec. 13.
 Jar handle and producing same. A. S. Huntington. 1,625,210; Apr. 19.
 Jar holder. C. J. May. 1,620,272; Mar. 8.
 Jar holder. F. B. Richard. 1,646,961; Oct. 25.
 Jar holder. F. J. Trout. 1,652,221; Dec. 13.
 Jar holder, Candy-. E. Messer. 1,626,205; Apr. 26.
 Jar lifter. J. F. Lehr, Sr. 1,631,698; June 7.
 Jar lifter, Fruit-. J. M. Miller. 1,632,664; June 14.
 Jar mechanism, Rotary hydraulic. W. B. Wigle. 1,637,505; Aug. 2.
 Jar-molding machine. W. Lewis. 1,642,074; Sept. 13.
 Jar opener. G. E. Grant. 1,624,833; Apr. 12.
 Jar opener. A. Lilja. 1,615,196; Jan. 18.
 Jar-opening device. T. E. Welsh. 1,620,706; Mar. 15.
 Jar or similar container. E. Haslett. Des. 73,430; Sept. 13.
 Jar wire-tying mechanism, Glass-. C. C. Klinker. 1,652,864; Dec. 13.
 Jar wrench. C. H. Viebrock. 1,647,892; Nov. 1.
 Jars and other containers, Vacuum sealing machine for. H. Ingram. 1,624,869; Apr. 12.
 Jars and the like, Cover for. G. J. Speicher. 1,624,440; Apr. 12.
 Jars and the like, Opener and closer for. C. V. Hatzfeld. 1,637,638; Aug. 2.
 Jars, bottles, or the like, Closing of. E. Maingonnat. 1,613,472; Jan. 4.
 Jars, cans, etc., Cap for covering the opening ends of. J. T. Vander. 1,618,393; Feb. 22.
 Jars, Cap fastening means for preserving. L. O. Culver. 1,631,522; June 7.
 Jars, Closing. T. L. Tallaferro. 1,616,517; Feb. 8.
 Jars, Closure for fruit. J. L. Kivlan. 1,649,599; Nov. 15.
 Jars, Gasket for fruit. S. E. Larson. 1,629,346; May 17.
 Jars, Method and apparatus for sealing fruit. F. Reinbold. 1,621,132; Mar. 15.
 Jars or similar containers, Evacuation and sealing of glass. H. J. Poole. 1,615,772; Jan. 25.
 Jars, Sealing device for. R. Edwardson. 1,616,614; Feb. 8.
 Jelly base containing pectin and sugar and making same. Dry-powdered. H. T. Leo. 1,646,157; Oct. 15.
 Jelly preparation. A. Leo. 1,629,716; May 24.
 Jet dyeing apparatus and process. R. G. Jennings. 1,627,850; May 10.
 Jetty. W. Pringle. 1,646,168; Oct. 18.
 Jetty and unit therefor. C. L. Nohlen. 1,635,899; July 12.
 Jewel bearings, Making concentric bushings for. H. Colomb. 1,640,348; Aug. 30.
 Jewel mounting and gem, Combination. F. J. Gaertner. Des. 74,105; Dec. 20.
 Jewelry. S. Scheuer. 1,628,278; May 10.
 Jewelry. S. K. Zook. 1,624,458; Apr. 12.
 Jewelry, Article of. J. D. Reyes. 1,625,375; Apr. 19.
 Jewelry box. R. J. Warner. 1,618,561; Feb. 22.
 Jewelry clasp. A. C. Brown. Des. 72,890; June 21.
 Jewelry clasp. S. Lauterbach. 1,637,699; Aug. 2.
 Jewelry component. F. A. Fairbrother. Re16,741; Sept. 20.
 Jewelry, Mounting for articles of. E. I. Dauer. 1,653,260; Dec. 20.
 Jewelry, Setting for. S. Varni. Des. 74,127; Dec. 20.
 Jewels or precious stones, Apparatus for the production of artificial. L. Schmidt. 1,653,022; Dec. 20.
 Jib-crane excavator. S. King. 1,629,124; Aug. 23.
 Jig. H. C. Maise. 1,624,609; Apr. 12.
 Jig, Babbitting. W. J. Hempy. 1,618,430; Feb. 22.
 Jig, Casting. J. I. Michaels and L. R. Watkins. 1,626,144; Apr. 26.
 Jig for grinding. K. Williams. 1,616,727; Feb. 8.
 Jig, Grinding fixture and drilling. I. A. P. Anderson. 1,615,668; Jan. 25.
 Jig, Pulsating. M. S. Hachita. 1,634,101; June 28.
 Jig, Reaming. M. I. Seiler. 1,621,137; Mar. 15.
 Jigsawproof automatic lock, Universal. C. W. Lanphere. 1,621,549; Mar. 22.
 Joining mechanism. P. Colquhoun. 1,651,189; Nov. 29.
 Joining materials. E. O. Peterson. 1,625,907; Apr. 26.
 Joint: See Anticreeping joint.
 Artificial knee joint. Pipe joint.
 Ball joint. Pivot joint.
 Belt joint. Rail joint.
 Cable joint. Railway or tramway rail joint.
 Column joint. Railway-rail joint.
 Contraction joint. Railway-track joint.
 Expansion-contraction joint. Red joint.
 Expansion joint. Ship joint.
 Flexible joint. Steam joint.
 Glass joint. Tool joint.
 High-pressure joint. Universal joint.
 Metal joint. Wall and floor joint.

- Joint. H. C. Lord. 1,652,175; Dec. 13.
 Joint. G. Tasman. 1,619,836; Mar. 8.
 Joint and connection, Flexible. G. H. Zouck. 1,648,930; Nov. 15.
 Joint and dowel bar holder. Center. L. F. Sayles. 1,614,495; Jan. 18.
 Joint assembly, Universal-. C. E. Swenson. 1,651,850; Dec. 13.
 Joint between end and side walls of structures, Sealed. G. R. Meyercord. 1,654,138; Dec. 27.
 Joint-breaking apparatus. J. G. Grattan. 1,615,695; Jan. 25.
 Joint casing. Self-adjustable universal-. A. W. Meler. 1,643,725; Sept. 27.
 Joint composition. B. C. Reed. 1,651,104; Nov. 29.
 Joint drain, Expansion-. D. B. Luten. 1,634,549; July 5.
 Joint for casing sections and making the joint. O. W. Kilham. 1,637,750; Aug. 2.
 Joint for concrete pipe, Self-calking. F. H. Sherrerd. 1,652,418; Dec. 13.
 Joint for knockdown structures. J. Melkie. 1,616,915; Feb. 8.
 Joint for rotary drill pipes, Cushion. A. C. Hopkins. 1,619,728; Mar. 1.
 Joint for wires and wire ropes. A. Stecke. 1,642,314; Dec. 13.
 Joint form. P. J. McInerney. 1,634,263; July 5.
 Joint-forming machine. O. P. Nystrom and J. Knoll. 1,642,691; Sept. 20.
 Joint machine, Ring-. W. L. Evans. 1,617,623; Feb. 15.
 Joint strip, Antirattle. H. G. Jorgensen. 1,632,903; June 21.
 Joint strip, Antirattle. H. G. Jorgensen. 1,653,012; Dec. 20.
 Joint strips, Reinforcing and the like band for expansion. A. C. Fischer. 1,645,743; Oct. 18.
 Joiner. F. S. Lash. 1,653,916; Dec. 27.
 Joint heater. W. P. Wheeler. 1,630,847; Mar. 15.
 Joints, Feed device for. E. D. Church. 1,637,175; July 26.
 Joints, Table for. L. B. Whipple. 1,638,538; July 19.
 Joining machine, Stave-. R. Mills. 1,645,920; Oct. 18.
 Joints, Apparatus for building. D. M. Simons. 1,620,740; Mar. 15.
 Joints, Device for making ring. W. L. Evans. 1,617,621-2; Feb. 15.
 Joints, Forming universal. A. Welland. 1,652,651; Dec. 13.
 Joints, Pipe-coupling means for making steam and other fluid tight. L. M. Glen. 1,642,728; Sept. 20.
 Joints, Shim for universal. R. J. Look. 1,645,247; Oct. 11.
 Joints of drier cylinders and the like, Packing device for steam. A. Birch. 1,634,821; July 5.
 Joints of pipe and the like, Apparatus for screwing together and unscrewing. H. C. Thrift. 1,617,509; Feb. 15.
 Joist and beam coupling, Building. E. S. Daniels. 1,652,612; Dec. 13.
 Joist, Fabricated. W. C. Corryell. 1,649,577; Nov. 15.
 Joist floor forms, Concrete. J. H. Duncan and S. Rogow. 1,616,546; Feb. 8.
 Joist form. W. F. Hedberg. 1,626,823; May 3.
 Joist hanger. C. S. Boardman and J. W. Free. 1,639,483; Aug. 16.
 Joist hanger. C. S. Boardman. 1,639,484; Aug. 16.
 Joist, Metal. J. D. Cover. 1,629,479; May 24.
 Joist, Metallic. W. F. Zabriskie. 1,622,559; Mar. 29.
 Joist, Structural-steel. N. Wagner. 1,634,127; June 28.
 Joist-roll-over mechanism. F. A. Seeman. 1,627,348; May 8.
 Journal bearing. A. G. M. Michell. 1,617,719; Feb. 15.
 Journal box. D. S. Barrows. 1,624,708; Apr. 12.
 Journal box. R. A. Bates. 1,649,439; Nov. 15.
 Journal box. A. O. Buckins, Jr. 1,618,614; Jan. 25.
 Journal box. C. Gibson. 1,629,865; May 24.
 Journal box. A. T. Kuehner. 1,632,552; June 14.
 Journal box. G. E. McCoy and E. Hawker. 1,638,124; Aug. 8.
 Journal box. N. C. Naylor. 1,651,619; Dec. 6.
 Journal box. T. Orden. 1,653,870; Dec. 27.
 Journal box. J. H. Reedy. 1,630,026; May 24.
 Journal box. G. A. Woodman. 1,631,353; June 7.
 Journal box and axle. H. W. Sanford. 1,618,890; Feb. 22.
 Journal-box lid. J. W. Bettendorf. 1,648,253-5; Nov. 8.
 Journal-box lid. H. S. Brantigan. 1,650,638; Nov. 29.
 Journal-box lid. C. J. Lucas and A. G. Ponce. 1,650,761; Nov. 29.
 Journal-box lid. G. Woodman. 1,631,352-3; June 7.
 Journal box, Separable. H. C. Dreibus. 1,615,074; Jan. 18.
 Journal box, Separable. H. C. Dreibus. 1,636,767; July 26.
 Journal-box structure. P. J. McCullough. 1,646,036; Oct. 18.
 Journal boxes, Lateral-motion bearing for. A. F. Hoegg. 1,635,124; July 6.
 Journal boxes, Lubricating paddle for. G. Eveno. 1,617,205; Feb. 8.
 Journal lubricator. A. J. Posselt. 1,646,109; Oct. 18.
 Journal wedge, Adjustable. G. L. Webb. 1,643,326; Sept. 27.
 Jug. J. S. Boswell. Des. 72,141; Mar. 8.
 Jug. W. D. Edwards. Des. 73,601; Oct. 11.
 Jug cover. W. H. Wright. 1,625,405; Apr. 19.
 Jug, Glass. E. B. Worcester. Des. 73,513; Sept. 20.
 Juice extractor. G. F. Marshall and C. W. Vogt. 1,643,819; Sept. 27.
 Juice extractor, Fruit-. J. K. Curry. 1,646,527; Oct. 25.
 Juice from cane stalks, Apparatus for and method of extracting. W. H. Morgan, sr. 1,646,762; Oct. 25.
 Jumping device. G. H. Loun. 1,638,350; Aug. 8.
 Jumping jack. I. Balmer. 1,622,562; Mar. 29.
 Junction box for portable lights. H. G. Moore. 1,647,187; Nov. 1.
 Knife corn, maize, and the like, Heading and loading. C. T. Barker. 1,635,106; July 5.
 Kasette. G. E. Gelse. 1,622,371; Mar. 29.
 Keg-closing device, Lead-. W. F. Butler. 1,634,488; July 5.
 Keg, Metal. G. E. Mittinger. 1,648,859; Nov. 8.
 Keg, Metallic. E. D. and J. I. Mahan. 1,634,035; June 28.
 Keg, Sheet-metal. J. R. Ratble. 1,628,686; May 17.
 Kennel, Fox. F. F. Berry. 1,618,404; Feb. 22.
 Kerchief, Display. L. A. Campbell. 1,631,398; June 7.
 Ketones and phenols, Condensation product of. A. Amann and E. Fonrobert. 1,614,172; Jan. 11.
 Kettle. C. Paget. 1,618,992; Mar. 1.
 Kettle, Popping. W. Y. Barnard. 1,642,531; Sept. 13.
 Kettles, Supporting. R. N. Kircher. 1,644,063; Oct. 4.
 Kettle, Cooking. J. Hardie. 1,625,655; Apr. 19.
 Kettle, Cooking. J. Rozic. 1,622,975; Jan. 11.
 Kettle insert. J. F. O'Donnell. 1,613,671; Jan. 29.
 Kettle, Pop-corn. W. H. Kriete. 1,617,643; Feb. 15.
 Kettle, Popping. W. Y. Barnard. 1,642,531; Sept. 13.
 Kettles, Draining handle for stew. S. Stone. 1,615,414; Jan. 25.
 Key. See—
 Master key. Piano key.
 Key. H. K. McKellar. 1,653,581; Dec. 20.
 Key action and key mechanism. O. U. Desha. 1,643,203; Sept. 20.
 Key and keyway. H. M. Knight. 1,617,527; Feb. 15.
 Key-bitting machine. L. K. Loehr and E. J. Kind, jr. 1,615,020; Jan. 18.
 Keyboard. B. Burns. 1,616,025; Feb. 1.
 Keyboard. J. M. Lohit. 1,641,133; Sept. 6.
 Keyboard. J. Whitaker. 1,653,883; Dec. 27.
 Keyboard cleaner. I. Kirsner. 1,635,127; July 5.
 Keyboard for key instruments. E. Moor. 1,618,546; Feb. 22.
 Keyboard for musical instruments. E. Moor. 1,618,547; Feb. 22.
 Keyboard, Indicating device and registering performance. J. Stauss. 1,644,960; Oct. 11.
 Keyboard mechanism. G. W. Beadle. 1,652,294; Dec. 13.
 Key carrier. M. L. and B. A. Ross. 1,616,704; Feb. 8.
 Key case. W. R. Buxton. 1,623,959; Apr. 12.
 Key case. W. R. Buxton. 1,630,653; May 31.
 Key case. W. R. Buxton. 1,650,922; Nov. 22.
 Key case. J. P. de l'Eau. 1,649,514; Nov. 15.
 Key case. C. Lorber. 1,621,795; Mar. 22.
 Key case. C. Lorber. 1,621,797; Mar. 22.
 Key case. C. Lorber. 1,623,627; Apr. 5.
 Key case. L. Mayer. 1,646,827; Oct. 25.
 Key case. F. Skone. 1,642,791; Sept. 20.
 Key case. D. J. Wulffing. 1,615,059; Jan. 18.
 Key case, Combination. C. Lorber. 1,645,709; Oct. 18.
 Key case, Flexible. C. Lorber. 1,613,760; Jan. 11.
 Key case, Pocket. C. Lorber. 1,646,485; Oct. 25.
 Key circuit for tube senders. W. Zeletzki. 1,646,517; Oct. 25.
 Key clutch, Rotary. F. John. 1,630,183; May 24.
 Key compact. H. M. Colvin. 1,621,831; Mar. 22.
 Key controller. A. A. Egli. 1,652,439; Dec. 13.
 Key-cutting device. J. H. Shaw. 1,628,637; May 10.
 Key device, Safety. F. M. Lyon. 1,622,793; Mar. 29.
 Key for combination locks. E. Frischmuth. 1,642,725; Sept. 20.
 Key guide. H. F. McDonald. 1,621,637; Mar. 22.
 Key holder. N. Bailey. 1,647,390; Nov. 1.
 Key holder. J. Brewer. 1,616,302; Feb. 1.
 Key holder. C. J. Gildemester. 1,649,402; Nov. 15.
 Key holder. W. D. Gladstone. 1,621,777; Mar. 22.
 Key holder. E. M. Long. 1,619,582; Mar. 1.
 Key holder. C. Lorber. 1,621,796; Mar. 22.
 Key holder. J. Newman. 1,633,575; June 28.
 Key holder, Quick-releasing. F. W. Morse. 1,622,532; Mar. 29.
 Key holder, Safety. R. E. Deacon. 1,618,408; Feb. 22.
 Key-holding device. C. B. Yale. 1,623,224; Apr. 5.
 Key-identification device. J. A. Katz. 1,629,343; May 17.
 Keyless lock. A. G. Hatch. Re16,833; Dec. 27.
 Keyless lock. J. McDeam. 1,618,641; Feb. 22.
 Keyless lock. A. T. Warren. 1,654,410; Dec. 27.
 Keyless lock. M. Wildrick. 1,618,550; Jan. 4.
 Key lock. E. O. Bennett. 1,644,335; Oct. 4.
 Key lock. J. P. Venegas. 1,620,987; May 8.
 Key machine. H. Belsser. 1,634,133; June 28.
 Key, Master. H. Sornf. 1,645,407; Oct. 1.
 Key mechanism, Octave. A. Loomis. 1,616,662; Feb. 8.
 Key protector. U. L. Rife. 1,643,904; Sept. 27.
 Key pulley. C. W. Lynch. 1,653,715; Dec. 27.
 Key retainer. R. W. Baldwin, jr. 1,616,407; Feb. 1.
 Key retainer, Draft-rigging-. J. Harris. 1,640,075; Aug. 23.

- Key-ring holder. C. E. Gillette. 1,613,390; Jan. 4.
Key-ring holder. A. Johnson and J. A. Sidle. 1,640,278; Aug. 23.
Key-ring holder. L. H. Kerns. 1,618,831; Feb. 22.
Key, Water. S. McDaniel. 1,620,161; Mar. 8.
Kiln. A. Hansen. 1,649,029; Nov. 15.
Kiln. J. N. Silva. 1,617,550; Feb. 15.
Kiln and cooler, Rotary. J. S. Fasting. 1,652,168; Dec. 13.
Kiln and cooler, Rotary. P. T. Lindhard. 1,653,050; Dec. 20.
Kiln and drier, Combined brick. N. U. Ludwig. 1,627,979; May 10.
Kiln and drier, Continuous. C. Dressler. 1,627,841; May 10.
Kiln and other heat-treatment furnace. C. W. Speirs. 1,630,587; May 31.
Kiln bottom. C. E. Fuller. 1,654,481; Dec. 27.
Kiln construction, Shaft-. S. W. Jameson. 1,630,489; May 31.
Kiln, Cylindrical. G. McCrear. 1,649,909; Nov. 15.
Kiln, Dry. C. G. Ullin. 1,637,166; July 26.
Kiln, Dry. J. B. Welch. 1,648,089; Nov. 8.
Kiln, Electric tunnel. J. Kelleher. 1,647,524; Nov. 1.
Kiln for burning cement, magnesite, lime, and the like, Rotary. H. Stehmann. 1,617,137; Feb. 8.
Kiln for glass melting and like purposes. G. E. Crawford. 1,623,773; Apr. 5.
Kiln for the burning of cement. C. Naske. 1,622,337; Mar. 29.
Kiln, Oil-fired. A. W. Morse. 1,632,143; June 14.
Kiln, Open-fire. P. d'Huc Dressler. 1,651,380; Dec. 6.
Kiln, Reciprocating car. P. D. Dressler. 1,633,988; Aug. 16.
Kiln, Reversible-dow dry. R. A. Simmons. 1,636,490; July 19.
Kiln, Tunnel. C. Dressler. 1,646,279; Oct. 18.
Kiln, Tunnel. W. L. Hanley, Jr. 1,614,470; Jan. 18.
Kiln, Tunnel. W. L. Hanley, Jr. 1,652,570; Dec. 13.
Kiln, Tunnel. W. L. Hanley, Jr. 1,633,174; Dec. 20.
Kiln, Tunnel. P. A. Meehan. 1,646,208; Oct. 18.
Kiln, Tunnel. P. A. Meehan. 1,646,254; Oct. 18.
Kiln, Tunnel. T. C. and W. O. Prouty. 1,613,054; Jan. 4.
Kiln, Tunnel. H. R. Straight. 1,633,829; June 28.
Kilns, Mechanism for, progressing cars in. G. W. Denison. 1,646,901; Oct. 25.
Kindling device. J. W. Thomas. 1,651,165; Nov. 29.
Kit, Actor's make-up. C. McKash. 1,638,356; Aug. 9.
Kit, Carrying and dispensing. W. G. McCadood. 1,648,992; Nov. 15.
Kit, Emergency. A. K. Kessler. 1,625,547; Apr. 19.
Kit for wagons, trucks, and the like. E. G. Handte. 1,621,536; Mar. 22.
Kit, Hypodermic. E. Lilly. 1,625,035; Apr. 19.
Kit, Oral. W. T. Scholl. 1,624,016; Apr. 12.
Kit, Tool. C. L. Lawrence. 1,633,030; June 21.
Kit, Tool. C. L. Lawrence. 1,639,227; Apr. 16.
Kits, Holding device for lunch. H. B. Korwan. 1,653,913; Dec. 27.
Kitchen cabinets, Support for flexible doors of. A. I. S. Halvorsen. 1,627,738; May 10.
Kitchen table. J. Patenaude. 1,623,850; Apr. 5.
Kitchen utensil. J. S. Eagen. 1,633,243; May 10.
Kitchen utensil. I. F. Ruff. 1,623,703; Apr. 5.
Kitchenette or cabinet, Tourist's. L. S. Gilmore. Re-16,664; June 28.
Kite. G. W. Ayling. 1,633,510; June 21.
Kite. B. D. Wickersham. 1,617,978; Feb. 15.
Kite, Self-balancing. C. Dahl. 1,632,822; June 21.
Kites, Trolley for. W. L. Brown, 4th. 1,620,991; Mar. 15.
Kneading and mixing machine. F. Kempter. 1,632,975; June 21.
Knee brace. F. Sheehan. 1,622,211; Mar. 22.
Knee clamp. A. M. Westerberg and J. M. Sickie. 1,634,184; June 28.
Knee pad. M. W. Kelley. 1,637,116; July 26.
Knee-protecting device. B. Gamino. 1,627,497; May 3.
Knicker cuff. A. Gottlieb. 1,638,642; Nov. 8.
Knicker supporter. L. E. Steensen. 1,643,613; Sept. 27.
Knickers. K. J. Rosenberg. 1,631,064; May 31.
Knickers, Cuff for. H. Karrett. 1,650,076; Nov. 22.
Knickerbockers. L. F. Rosenbaum. 1,633,607; June 28.
Knife. J. J. C. Culver. 1,627,689; May 10.
Knife. E. P. Hulise. 1,622,870; Mar. 29.
Knife. E. L. McCalin. 1,651,141; Nov. 29.
Knife. C. H. Schetzer. 1,613,200; Jan. 4.
Knife. Adjustable regulable. G. Burke and M. Acosta. 1,651,667; Dec. 6.
Knife and savings bank, Pocket-. S. E. Purdum. 1,613,481; Jan. 4.
Knife-blade switch. W. H. Siemon. 1,643,789; Sept. 27.
Knife-blank and making the same. W. P. Withrow. 1,618,791; Feb. 22.
Knife, Budding. B. W. Miller. 1,649,318; Nov. 15.
Knife, Burn-in. J. and E. V. Paolicelli. 1,616,544; Feb. 8.
Knife, Calender. K. Oyler. 1,637,784; Aug. 2.
Knife, Card-board-box. F. L. Blevin and A. D. Ferguson. 1,623,158; Apr. 5.
Knife, Corn. J. P. Cullison. 1,625,713; Apr. 19.
Knife, Cultivator. E. H. Burks. 1,645,039; Oct. 11.
Knife, Detachable-blade. F. M. Weiss. 1,651,856; Dec. 6.
Knife, Diathermy. S. H. Groff. 1,639,996; Aug. 23.
Knife, Farrier's. V. Kyfes. 1,619,619; Mar. 1.
Knife fastening. Mower. F. Crawford. 1,652,238; Dec. 13.
Knife for cutting the points of wire tacks and nails. J. Wikschtröm. 1,648,795; Nov. 8.
Knife for peeling oranges, Combination. H. C. Kelly. 1,630,186; May 24.
Knife for use in slaying cattle and like purposes. R. H. Tasker. 1,630,871; May 31.
Knife, Fruit. A. H. and A. S. Pinchbeck. 1,638,956; Aug. 16.
Knife, Fur. K. Rellich. 1,629,412; May 17.
Knife glue clamp. B. C. Rockwell. 1,619,989; Mar. 7.
Knife guard. A. Bambini and C. Nascivera. 1,614,772; Jan. 18.
Knife head and manufacture of the same. F. H. Dickson. 1,618,920; Feb. 22.
Knife, Paring. W. Clawson. 1,636,287; July 19.
Knife, Paring and slicing. J. Battaini. 1,638,468; Aug. 9.
Knife, Pencil. J. Schick. 1,620,236; Mar. 8.
Knife, Plugging. B. Garland. 1,630,420; May 31.
Knife, Pocket. P. Glesen. 1,647,406; Nov. 1.
Knife, Skinning. F. Schulz. 1,638,883; Aug. 16.
Knife, Tailor's cutting. C. Ilig. 1,614,243; Jan. 11.
Knife, Tire-repair. J. M. Newton. 1,646,166; Oct. 18.
Knife, Topping and pruning. O. M. Randolph. 1,620,133; Mar. 8.
Knife with detachable blade. W. E. Nickerson. 1,625,778; Apr. 19.
Knives of razors, Manufacturing. E. Gerling. 1,635,614; July 12.
Knit fabric. R. Rothman. 1,636,943; July 26.
Knitted articles, Method of and apparatus for finishing. E. J. Ziock. 1,623,080; Apr. 5.
Knitted fabric. M. D. Brown. Des. 73,366; Aug. 30.
Knitted fabric. R. Hinchliff. 1,616,630; Feb. 8.
Knitted fabrics, Run-stop course for. J. G. Council. 1,629,999; Aug. 23.
Knitting device. W. J. Gourie. 1,635,547; July 12.
Knitting machine. G. Bell and J. Boardman. 1,651,316; Nov. 29.
Knitting machine. G. Dennis. 1,615,167; Jan. 18.
Knitting machine. K. Howie. 1,634,874; July 5.
Knitting machine. J. Imbraili. 1,628,497; May 10.
Knitting machine. H. Langer. 1,614,073; Jan. 11.
Knitting machine. P. Lieberknecht. 1,643,249; Sept. 20.
Knitting machine. V. Lombardi. 1,650,083; Nov. 22.
Knitting machine. E. Oesterreich. 1,644,688; Oct. 11.
Knitting machine. M. Ratignier. 1,649,126; Nov. 15.
Knitting machine. A. E. Schulz. 1,622,976; Mar. 29.
Knitting machine. P. G. Stroud and W. A. Simond. 1,624,373; Apr. 12.
Knitting machine, Automatic. R. W. Scott. 1,641,101; Aug. 30.
Knitting machine, Circular. E. H. M. E. Durand. 1,624,482; Apr. 12.
Knitting machine, Circular. F. L. Fay. 1,618,744; Feb. 8.
Knitting machine, Circular. H. E. Houseman. 1,631,816-17; June 7.
Knitting machine, Circular. J. W. Mettler and H. L. Davis. 1,654,266; Dec. 27.
Knitting machine, Circular. A. E. Page. 1,627,337; May 8.
Knitting machine, Circular. O. H. Walton. 1,652,547; Dec. 13.
Knitting machine, Dogless. W. Larkin. 1,613,465; Jan. 4.
Knitting-machine elements, Positioning device for. A. E. Page. 1,634,692; July 5.
Knitting machine, Ribbed-fabric hosiery. R. W. Scott. 1,641,554; Sept. 6.
Knitting machine, Ribbed-top-holding-down attachment for. W. A. Hughes. 1,643,849; Sept. 27.
Knitting machine, Spring-embed. K. Howie. 1,652,308; Dec. 13.
Knitting machines, Auxiliary take-up for. N. J. Perry. 1,621,559; Mar. 22.
Knitting machines, Axleless loop wheel for circular. E. Saupe. 1,621,136; Mar. 15.
Knitting machines, Cam-slide adjustment for. W. S. Parker. 1,638,164; Aug. 9.
Knitting machines, Controlling mechanism for primary and secondary yarns of split-work circular. A. Gagné. 1,623,027; Mar. 29.
Knitting machines, Course-controlling attachment for. A. Wagner. 1,626,017; Apr. 26.
Knitting machines, Dial-positioning and yarn-feeding mechanism for dial. R. W. Scott. 1,652,500; Dec. 13.
Knitting machines, Driving mechanism for. M. C. Miller. 1,616,633; Feb. 8.
Knitting machines, Feed-controlling mechanism for circular. C. Walton and O. H. Walton. 1,648,083; Nov. 8.
Knitting machines, Feed mechanism for. M. C. Miller. 1,622,249; Mar. 22.
Knitting machines, Feeding means for. F. E. Jones. 1,641,690; Sept. 6.
Knitting machines, Knitting mechanism for. E. W. Clarke. 1,623,233; Apr. 5.
Knitting machines, Needles cam for flat. J. Muller. 1,613,050; Jan. 4.

- Knitting machines, Pattern cylinder for. W. S. Parker. 1,633,676; June 25.
- Knitting machines, Pattern-pulling attachment for circular. E. R. Ammon. 1,642,761; Sept. 20.
- Knitting machines, Pattern-producing means for. H. T. Ballard. 1,613,304; Jan. 4.
- Knitting machines, Safety device for. C. Madaris. 1,639,622; Aug. 16.
- Knitting machines, Sectional-splicing mechanism for. Robert W. Scott. 1,628,517; May 10.
- Knitting machines, Sinker for. F. F. Billings. 1,653,886; Dec. 27.
- Knitting machines, Stop mechanism for circular. O. La Roche. 1,653,915; Dec. 27.
- Knitting machines, Stop motion for. F. Crawford, sr. 1,621,397; Mar. 15.
- Knitting machines, Stop motion for. W. L. Smith, jr. 1,637,662; Aug. 2.
- Knitting machines, Stripping attachment for. J. Bosch. 1,615,807; Jan. 25.
- Knitting machines, Stripping attachment for. W. Larkin. 1,624,792; Apr. 12.
- Knitting machines, Stripping attachment for circular. E. T. Floyd. 1,646,905; Oct. 25.
- Knitting machines, Take-up for. N. J. Perry. 1,638,955; Aug. 16.
- Knitting machines, Thread-feeding attachment for. E. J. Lottman. 1,627,534; May 3.
- Knitting machines, Yarn-feeding mechanism for. A. Landry. 1,643,341; Sept. 27.
- Knitting needle, Latch. H. E. Katzenmoyer. 1,629,454; May 17.
- Knob. E. F. Bossung. 1,629,773; May 24.
- Knob. A. F. Klipper. Des. 72,772; May 31.
- Knob for bag fasteners, etc. W. C. Hiering. 1,613,751; Jan. 11.
- Knob, Furniture. W. A. Anderson. 1,639,159; Aug. 16.
- Knob or handle lock. E. L. Teich. 1,654,149; Dec. 27.
- Knob or handle lock. E. L. Teich. 1,654,489; Dec. 27.
- Knob or similar article. H. J. Kasch. Des. 73,182; Aug. 2.
- Knob or the like. H. J. Kasch. Des. 73,183; Aug. 2.
- Knockdown box, Diagonal-bottom-section. J. K. Van Worman. 1,652,844; Dec. 13.
- Knockdown stand. C. A. Duk. 1,624,721-2; Apr. 12.
- Knockdown table. A. Wexelman. 1,643,478; Sept. 27.
- Knob-picking machine. P. Nilsson. 1,641,686; Sept. 6.
- Knurling roll. T. D. Campbell. 1,647,825; Nov. 1.
- Knurling tool. G. W. Dover. 1,623,662; Apr. 5.
- Label-attaching device. A. S. Partridge. 1,636,432; July 19.
- Label-attaching seam. J. S. Finch. 1,643,406; Sept. 27.
- Label, Combination. L. Reiss. 1,620,833; Mar. 15.
- Label folding and packing machine. A. Rosenthal. 1,618,138; Feb. 15.
- Label for livestock. M. W. Miller. 1,635,853; July 12.
- Label holder. F. H. Crump. 1,653,346; Dec. 20.
- Label holder. W. King. 1,615,332; Jan. 25.
- Label-sewing machine. P. W. Hatfield. 1,621,837; Mar. 22.
- Label tape, Operating upon. J. M. Reis. 1,642,387; Sept. 13.
- Labeling machine. W. F. Boettger. 1,652,897; Dec. 13.
- Labeling machine. C. E. Hall. 1,630,235; May 24.
- Labeling machine. C. Holm and A. H. Johnson. 1,622,381; Mar. 29.
- Labeling machine. G. Meyer-Jagenberg. 1,653,910; Dec. 27.
- Labeling machine, Can. C. H. Wild. 1,619,840; Mar. 8.
- Labeling machine, Can. C. H. Wild. 1,627,946; May 10.
- Labeling machine, Hand-operable. C. E. Putnam. 1,648,590; Nov. 8.
- Labeling machines and the like, Article-propelling means for. A. P. Ekvall. 1,650,436; Nov. 22.
- Labeling mechanism. G. B. Scheffey. 1,624,366; Apr. 12.
- Labeling process. W. H. Bechley. 1,635,795; Aug. 9.
- Labeling apparatus for operating upon. J. M. Reis and E. F. Busingier. 1,642,386; Sept. 13.
- Labels, Holder for. B. Cox. 1,636,500; July 19.
- Labels, symbols, and the like on glass containers, Formation of. W. C. Hart. 1,640,076; Aug. 23.
- Labels, wrappers, and the like, Machine for applying and running. H. H. Pelzer. 1,620,232; Mar. 8.
- Laboratory, Washing apparatus for. J. B. Parker. 1,635,633; July 12.
- Laboratory tongs. E. H. Fisher. 1,653,803; Dec. 27.
- Lace. B. A. Ball. Des. 73,681-4; Oct. 25.
- Lace. B. A. Ball. Des. 74,044; Dec. 13.
- Lace. L. Dinkelspiel. Des. 73,515; Sept. 27.
- Lace. A. E. Newton. Des. 71,922-8; Jan. 25.
- Lace. A. E. Newton. Des. 72,435-8; Apr. 12.
- Lace. A. E. Newton. Des. 72,678-80; May 17.
- Lace. A. E. Newton. Des. 73,191; Aug. 2.
- Lace. A. E. Newton. Des. 73,537; Sept. 27.
- Lace. A. E. Newton. Des. 73,756-7; Nov. 1.
- Lace and manufacturing same, Machine-made. C. W. and H. L. Birkin, and A. Coxon. 1,618,798; Feb. 22.
- Lace center motif. F. Truman. Des. 73,213; Aug. 2.
- Lace, Embroidered. H. Schwarber. Des. 72,038; Feb. 15.
- Lace, Embroidered. H. Schwarber. Des. 72,633; May 17.
- Lace, Embroidered. H. Schwarber. Des. 73,945; Nov. 22.
- Lace, Embroidered. J. Walder. Des. 74,157; Dec. 27.
- Lace fabric and producing same. S. Pepper. 1,631,886; June 7.
- Lace insertion and making the same, Machine-braided. E. Türk. 1,637,716; Aug. 2.
- Lace machines, Pattern mechanism for twist. S. T. Hall. 1,647,798; Nov. 1.
- Lace manufacture. C. W. and H. L. Birkin and A. Coxon. 1,622,021; Mar. 22.
- Lace, medallion, Embroidered. M. Savitzky. Des. 72,389-1; Apr. 6.
- Lace, medallion, Embroidered. H. Schwarber. Des. 72,448; Apr. 12.
- Lace-threading machine. H. Lundquist. 1,627,610-11; May 10.
- Lace-tipping machine. C. A. Matson. 1,613,715; Jan. 11.
- Lace tray cover or the like. S. N. Mallouk. Des. 72,268; Mar. 22.
- Lacework, Pattern for producing. J. H. Wachter. 1,630,681; May 31.
- Lacing cutter. G. A. Dostal. 1,646,141; Oct. 18.
- Lacing device. L. C. Deal. 1,615,073; Jan. 18.
- Lacing, Lapping machine. F. E. Burlingame. 1,625,522; Apr. 19.
- Lacings, Tipping. C. A. Matson. 1,613,840; Jan. 11.
- Lacquer and film produced therefrom, Low-viscosity. E. M. Flaherty. Re 16,803; Nov. 29.
- Lacquer and film produced therefrom, Low-viscosity. E. M. Flaherty. 1,629,999; May 24.
- Lacquer and lacquer enamel. S. D. Shipley and G. C. Given. 1,618,481-4; Feb. 22.
- Lacquer composition, Nitrocellulose. C. Bogin. 1,651,578; Dec. 6.
- Lacquer, Nitrocellulose. I. W. Humphrey. 1,653,010; Dec. 20.
- Lacquering or varnishing apparatus. W. Mäueler. 1,613,235; Jan. 4.
- Lacquers, Wood filler for. W. F. Graul. 1,652,353; Dec. 13.
- Lactonitrile fumigant. L. J. Christmann. 1,620,074; Mar. 8.
- Laminating. Manufacturing. S. C. Meredith and N. N. T. Nyberg. 1,626,857; May 3.
- Ladder. P. Bertrand. 1,651,914; Dec. 6.
- Ladder. T. H. Curtis. 1,631,922; June 7.
- Ladder. G. K. Hoffman. 1,647,915; Nov. 1.
- Ladder. T. Thompson. 1,643,649; Sept. 27.
- Ladder and board, Combined. C. R. Miller. 1,615,715; Jan. 25.
- Ladder and platform support. H. E. Skeels. 1,645,879; Oct. 18.
- Ladder and preparing rungs and rails thereof. A. V. Rowe. 1,644,694; Oct. 11.
- Ladder and seat, Combination. W. A. Thomas. 1,618,357; Feb. 22.
- Ladder-climbing device. G. E. Pritts. 1,630,484; May 31.
- Ladder construction. J. Ingersoll. 1,616,899; Feb. 8.
- Ladder, Emergency. C. C. McCracken. 1,644,739; Oct. 11.
- Ladder, Extension. H. E. Skeels. 1,651,478; Dec. 6.
- Ladder, Folding. J. Hausle. 1,615,759; Jan. 25.
- Ladder, Hayrack. F. F. Mess. 1,616,461; Feb. 8.
- Ladder jack. M. J. Baur. 1,651,863; Dec. 6.
- Ladder, Mechanical. H. Mattes. 1,637,197; July 26.
- Ladder, Orchard. F. J. P. Kuhlmann. 1,613,836; Jan. 11.
- Ladder, Orchard. C. L. Smith. 1,641,906; Sept. 6.
- Ladder-pulley-block support. P. G. Gauss. 1,620,254; Mar. 8.
- Ladder rail, Trussed. J. E. Allen and H. G. Schweppe. 1,653,248; Dec. 20.
- Ladder step, Removable. S. Putnam. 1,615,135; Jan. 18.
- Ladders, Extension foot for. C. A. Glover. 1,624,045; Apr. 19.
- Ladders, Extension-leg attachment for. F. F. Berry. 1,631,513; June 7.
- Ladle. J. G. Kogele. 1,624,553; Apr. 12.
- Ladle. G. McKittrick. 1,612,826; Jan. 4.
- Ladle, Cast-steel. E. G. Switzer. 1,633,363; June 28.
- Ladle elevator. J. M. Rohling. 1,631,393; June 7.
- Ladles used in pouring molten metal, Nozzle for. J. K. Hassall and A. Harris. 1,635,539; July 12.
- Lake. E. Hartmann. 1,653,851; Dec. 27.
- Laminated articles, Manufacturing. T. G. Richards. 1,647,055; Oct. 25.
- Laminated glass. W. F. Brown. 1,651,581; Dec. 6.
- Laminated material. G. F. Wikle. 1,651,794; Dec. 6.
- Laminated material and making the same. W. C. Geer. 1,617,707; Feb. 15.
- Laminated products, Manufacturing. C. M. Hargrave. 1,634,530; July 6.
- Laminated spring. J. H. Stott. 1,628,371; May 10.
- Lamp. O. B. Bach. Des. 72,132; Mar. 8.
- Lamp. O. B. Bach. Des. 72,346; Apr. 5.
- Lamp. O. B. Bach. Des. 73,466; Sept. 20.
- Lamp. O. B. Bach. Des. 73,469; Sept. 20.
- Lamp. O. B. Bach. Des. 73,472; Sept. 20.
- Lamp. B. Beardsley. Des. 73,157; Aug. 2.
- Lamp. O. Brivelline. 1,646,442; Oct. 25.
- Lamp. A. Cavallaro. Des. 74,097; Dec. 20.
- Lamp. A. J. Carmichael and H. F. Thurber. Des. 74,047; Dec. 13.
- Lamp. H. Christensen. Des. 72,692; May 10.
- Lamp. H. B. Donley. 1,648,167; Nov. 8.
- Lamp. V. R. Gersmehl. Des. 72,996; July 5.
- Lamp. C. E. Godley. 1,621,585; Mar. 22.
- Lamp. I. Gonyak. 1,622,873; Mar. 29.
- Lamp. R. Graf. Des. 73,830; Nov. 15.

- Lamp. R. Graf. 1,614,027; Jan. 11.
 Lamp. F. A. Hart. 1,651,090; Nov. 29.
 Lamp. J. T. Jaret. Des. 72,950; June 28.
 Lamp. J. Lieberman. Des. 72,214; Mar. 15.
 Lamp. W. McCoy. Des. 73,094; July 19.
 Lamp. C. W. Meehan. 1,639,701; Aug. 23.
 Lamp. J. F. Nenzel. 1,619,213; Mar. 1.
 Lamp. E. B. Nier. 1,649,178; Nov. 15.
 Lamp. W. J. Pike. 1,652,456; Dec. 13.
 Lamp. T. E. Powers. Des. 72,634; May 10.
 Lamp. F. W. Rooteggs. Des. 71,987; Feb. 8.
 Lamp. V. K. Samuelson. Des. 72,074; Feb. 22.
 Lamp. T. A. Stiffel. Des. 73,111; July 19.
 Lamp. H. F. Thurber. Des. 74,081; Dec. 13.
 Lamp. E. E. Wiese. Des. 73,590; Oct. 4.
 Lamp. H. H. Wolter. Des. 73,153; July 26.
 Lamp. W. H. Wood. 1,631,610; June 7.
 Lamp. W. H. Wood. 1,634,528; July 5.
 Lamp. W. H. Wood. 1,651,431; Dec. 6.
 Lamp. Acetylene. A. L. Hansen. 1,644,780; Oct. 11.
 Lamp and bracket therefor. J. Galamb. 1,637,375; Aug. 2.
 Lamp and clock case. Combination. J. D. Newland. Des. 72,489; Apr. 19.
 Lamp and electric fan, Combined reading. D. Heenan. Des. 74,011; Dec. 6.
 Lamp and getter therefor, Gas-filled incandescent. D. S. Gustin. 1,643,310; Sept. 27.
 Lamp and glass Combination. R. F. Mathews. Des. 73,665; Oct. 18.
 Lamp and license-plate holder or similar article, Combined. O. C. Ritz Woller. 72,033-5; Feb. 15.
 Lamp and loud-speaker, Combination. F. C. Caswell. 1,628,935; Apr. 5.
 Lamp and loud speaker, Combination. T. Doyle. Des. 73,427; Sept. 13.
 Lamp and making same, Tipless J. S. Wheeler. 1,640,226; Aug. 23.
 Lamp and smoker's set, Combination. E. F. McCarthy. Des. 72,488; Apr. 19.
 Lamp and smoking stand, Combination standard and tray for a combined floor. E. Schultz. Des. 73,446; Sept. 13.
 Lamp and smoking stand, Combined floor. E. Schultz. Des. 72,285; Mar. 22.
 Lamp and sound amplifier, Combined floor. T. T. Tannehill. Des. 72,322; Mar. 29.
 Lamp and supporting bracket, Combined. E. M. Garey. Des. 73,126; July 26.
 Lamp, Arc. P. R. Bassett. 1,632,161; June 14.
 Lamp, Arc. E. J. Murphy. 1,623,848; Apr. 5.
 Lamp, Arc. M. L. Patterson. 1,645,966; Oct. 18.
 Lamp, Arc. A. C. Roebuck. 1,650,881; Nov. 29.
 Lamp, Arc incandescent. C. F. Lorenz. 1,651,398; Dec. 6.
 Lamp arm J. B. Salterini. Des. 73,582-4; Oct. 4.
 Lamp arm. T. La Tessa. Des. 73,920-5; Nov. 22.
 Lamp arm or a similar article, Bridge. J. A. Boehringer. Des. 73,121; July 26.
 Lamp arm or similar article, Bridge. J. A. Boehringer. Des. 72,757; May 31.
 Lamp arm or similar article, Bridge. J. A. Boehringer. Des. 73,999; Dec. 6.
 Lamp, Auto. C. W. Crowe. 1,650,822; Nov. 29.
 Lamp, Automobile. S. Di Stefano. Des. 73,164; Aug. 2.
 Lamp, Automobile. W. U. Stonehill. 1,644,696; Oct. 1.
 Lamp, Automobile dash. I. Sorgius. 1,653,418; Dec. 20.
 Lamp, Automobile head. H. B. Donley. 1,650,500; Nov. 22.
 Lamp, Automobile head. P. J. Kent. Des. 74,013; Dec. 6.
 Lamp, Auxiliary. J. J. Gough. 1,614,732; Jan. 18.
 Lamp base. W. Block. Des. 72,081-2; Mar. 1.
 Lamp base. S. W. Farber. Des. 72,008; Feb. 15.
 Lamp base. M. Rothbart. Des. 73,099-102; July 19.
 Lamp base. M. Rothbart. Des. 73,335-42; Aug. 23.
 Lamp base. L. Vivirito. Des. 71,889; Jan. 18.
 Lamp base. L. Vivirito. Des. 71,891; Jan. 18.
 Lamp base. L. Vivirito. Des. 71,893; Jan. 18.
 Lamp, Base for a. O. B. Bach. Des. 73,473; Sept. 20.
 Lamp, Base for a. P. Sheiner. Des. 72,579; May 3.
 Lamp base or analogous article. L. Hecht. Des. 74,110; Dec. 20.
 Lamp base or similar article. J. A. Boehringer. Des. 73,997-8; Dec. 6.
 Lamp base or similar article. F. M. Poritz. Des. 72,565-9; May 3.
 Lamp base, Portable. A. J. Carmichael. 1,636,735; July 28.
 Lamp, Beacon. A. V. Conover. 1,637,072; July 28.
 Lamp, Bed. G. F. Smith. 1,654,148; Dec. 27.
 Lamp, Bicycle. W. P. Wood. 1,649,637; Nov. 15.
 Lamp, Boudoir. C. Fischer. 1,639,493; Aug. 16.
 Lamp bracket. W. Block. Des. 72,080; Mar. 1.
 Lamp bracket. M. Rothbart. Des. 73,914; June 21.
 Lamp bracket. M. Rothbart. Des. 72,902-8; Aug. 2.
 Lamp bracket. H. R. Saxon. 1,643,131; Sept. 20.
 Lamp bracket and convenience outlet, Combined electric. A. H. Opperman. Des. 71,925; Jan. 25.
 Lamp, Bridge. O. B. Bach. Des. 73,470; Sept. 20.
 Lamp, Bridge. J. B. Salterini. Des. 73,581; Oct. 4.
 Lamp bulb, Colored-incandescent. F. Skaup. 1,638,369; Aug. 9.
 Lamp bulb or similar article, Incandescent. A. Weber. Des. 74,040; Dec. 6.
 Lamp-bulb socket. E. H. Rollinson. 1,629,970; May 24.
 Lamp bulb, Theftproof. L. Schmidt, jr. 1,648,916; Nov. 15.
 Lamp, Candle. C. W. Davis. 1,653,256; Dec. 20.
 Lamp canopy. A. R. Solomon. Des. 73,875; Oct. 18.
 Lamp casing, Automobile signal-. T. Lonet. Des. 72,774; May 31.
 Lamp casing, Combined signal-. R. W. Norris. 1,640,008; Aug. 23.
 Lamp casing or article of similar nature, Vehicle. W. T. Pittman. Des. 73,415; Sept. 6.
 Lamp casing, Vehicle signal-. E. H. Bessette. Des. 72,348; Apr. 5.
 Lamp catch. F. L. Bamford. 1,626,593; May 3.
 Lamp, Classification. S. C. Holland. 1,649,229; Nov. 15.
 Lamp clip for miners' caps. W. J. Brown. 1,615,900; Feb. 1.
 Lamp, Colled-flament incandescent. J. Bergmans. 1,637,034; July 26.
 Lamp, Column parlor floor. H. Angel. 1,629,946; May 24.
 Lamp, Combination motor-vehicle. J. F. Farmer. 1,641,750; Sept. 6.
 Lamp, Combination tall. C. E. Godley. 1,639,497; Aug. 16.
 Lamp connection, Incandescent electric. J. H. Sullivan. 1,626,983; May 3.
 Lamp construction. W. J. Cameron. 1,649,150; Nov. 15.
 Lamp construction. H. C. Foster. 1,642,435; Sept. 13.
 Lamp, Cowl. H. A. Douglas. 1,634,408; July 5.
 Lamp, Dash. S. S. C. Befield. 1,617,892; Feb. 15.
 Lamp, Dash. W. Hermann. 1,641,759; Sept. 6.
 Lamp, Desk. C. T. Brady. Des. 72,142; Mar. 8.
 Lamp, Desk. J. Brielfof. Des. 74,093; Dec. 20.
 Lamp, Detachable battery. M. M. Wilkinson. 1,651,307; Nov. 29.
 Lamp device. M. B. Cary. Re16,722; Aug. 30.
 Lamp device. M. B. Cary. 1,614,102; Jan. 11.
 Lamp-display device, Electric. H. A. Hechinger. 1,652,825; Dec. 13.
 Lamp-door fastening. C. E. Godley. 1,626,405; Apr. 26.
 Lamp doors, Hook for. C. E. Godley. 1,614,728; Jan. 18.
 Lamp, Electric. F. A. Anderson. 1,631,176; Nov. 29.
 Lamp, Electric. L. S. Brach. 1,627,551; May 10.
 Lamp, Electric. R. S. Burnap. 1,650,602; Nov. 29.
 Lamp, Electric. L. J. Buttolph. 1,630,051; May 24.
 Lamp, Electric. A. de Graaff. 1,644,712; Oct. 11.
 Lamp, Electric. M. Gordon. Des. 72,997; July 5.
 Lamp, Electric. W. Hermann. 1,634,332; July 5.
 Lamp, Electric. G. Minoff. Des. 71,845; Jan. 11.
 Lamp, Electric. F. Skaup. 1,623,761; Apr. 5.
 Lamp, Electric. G. Venturini. 1,626,315; Apr. 26.
 Lamp, Electric-arc. J. A. Heany. 1,617,638-7; Feb. 15.
 Lamp, Electric-arc. L. S. Kubiac. 1,648,019; Nov. 8.
 Lamp, Electric incandescent. H. Workman. 1,640,867; Aug. 30.
 Lamp, Electric signal. E. J. Zelt. 1,618,741; Feb. 22.
 Lamp extinguisher. C. D. Dunbar. 1,641,254; Sept. 6.
 Lamp filaments, Affixing coatings on incandescent. H. K. Richardson. 1,624,071; Apr. 12.
 Lamp filaments. Cement for incandescent. W. C. Ibele. 1,641,761; Sept. 6.
 Lamp fixture. E. A. Ermold. Des. 72,205; Mar. 15.
 Lamp fixture. A. G. Myers. 1,647,741; Nov. 1.
 Lamp fixture. W. H. Spencer. 1,644,452; Oct. 4.
 Lamp fixture, Electric cluster. A. T. Blackburn. Des. 73,865; Aug. 30.
 Lamp, Flashlight. P. Vierkötter. 1,625,108; Apr. 19.
 Lamp, Floor. M. Block. Des. 73,638-7; Oct. 18.
 Lamp, Floor. L. C. Doane. 1,628,395; May 10.
 Lamp, Floor. H. Horn, jr. 1,619,976; Mar. 8.
 Lamp focusing. H. C. Foster. 1,649,295; Nov. 15.
 Lamp, Focusing. C. E. Godley. 1,614,729; Jan. 18.
 Lamp, Focusing. C. E. Godley. 1,631,724; June 7.
 Lamp, Focusing, Arc. M. J. Wohl. 1,613,003; Jan. 4.
 Lamp for automobiles. W. C. Matthews. 1,624,842; Apr. 12.
 Lamp for automobiles, Dirigible. L. D. Copeland. 1,631,519; June 7.
 Lamp for cinematographic apparatus, Electric. J. Marrette. 1,625,619; Apr. 19.
 Lamp for instrument boards of motor vehicles. C. H. H. Rodanet. 1,644,277; Oct. 4.
 Lamp for motor vehicles. H. J. Monson. 1,613,841; Jan. 11.
 Lamp for photographing, Electric arc. H. Traut. 1,640,913; Aug. 30.
 Lamp for radios, Electric. C. Branning. 1,636,211; July 19.
 Lamp for vehicles, Dirigible. H. C. Seltz. 1,652,738; Dec. 13.
 Lamp for vehicles, Signal. F. J. J. Servais. 1,650,471; Nov. 22.
 Lamp, Gaseous-discharge. C. C. Van Voorhis. 1,647,591; Nov. 1.
 Lamp, Glareless. A. V. Cassels. 1,622,764; Mar. 29.
 Lamp, Glareless. J. M. Stewart. 1,637,429; Aug. 2.
 Lamp grip. M. N. Russell. 1,644,033; Oct. 4.
 Lamp guard. A. G. Urbahn. 1,634,439; July 5.
 Lamp, Hair drier and therapeutic. W. G. Shelton. 1,639,753; Aug. 23.
 Lamp, Hand arc. S. M. Meyer. 1,640,793; Aug. 30.
 Lamp hanger. C. L. Bundy. 1,620,516; Mar. 8.
 Lamp, High-frequency. H. C. Rentscher. 1,616,001; Feb. 1.
 Lamp holder, Electric-miniature. R. Eckstein. 1,625,248; Apr. 19.

- Lamp, Illuminating and signal. D. Anglada. 1,617,432; Feb. 15.
- Lamp, Incandescent. R. N. Falga. 1,621,360; Mar. 15.
- Lamp, Incandescent. G. R. Fonda. 1,632,647; June 14.
- Lamp, Incandescent. G. R. Fonda. 1,648,679; Nov. 8.
- Lamp, Incandescent. O. V. Maurer. 1,630,128; May 24.
- Lamp, Incandescent electric. F. Czech. 1,641,068; Aug. 30.
- Lamp, Incandescent electric. J. H. de Boer. 1,648,677; Nov. 8.
- Lamp, Incandescent electric. J. A. Heany. 1,635,320; July 12.
- Lamp, Incandescent electric. J. A. Heany. 1,640,829; Aug. 30.
- Lamp, Incandescent electric. C. F. Lorenz. 1,653,365; Dec. 20.
- Lamp, Incandescent electric. D. MacRae. 1,624,109; Apr. 12.
- Lamp, Incandescent electric. J. B. McGinley. 1,650,289; Nov. 22.
- Lamp, Incandescent electric. W. C. Sprousser. 1,624,077; Apr. 12.
- Lamp, Inclosed arc. A. Rutenauer. 1,629,313; May 17.
- Lamp, Intermittent glow. C. F. Lorenz. 1,617,065; Feb. 8.
- Lamp lens, Fluted. C. E. Godley. 1,626,406; Apr. 26.
- Lamp, Luminescent electrode discharge. C. F. Lorenz. 1,643,126; Sept. 20.
- Lamp made of glass tubing, Electric incandescent. H. Mayer. 1,651,287; Nov. 29.
- Lamp, Magnesium. R. Otte. 1,654,012; Dec. 27.
- Lamp, Magneto-electric pocket. I. Häggi. 1,615,624; Jan. 25.
- Lamp-making machine. H. D. Kelly. 1,626,679; May 3.
- Lamp, Marine. L. E. Perkins. 1,634,469; July 5.
- Lamp, Miner's. J. S. Sherman. Des. 72,075; Feb. 22.
- Lamp, Motor-vehicle. W. L. Goodstein. 1,632,127; June 14.
- Lamp, Motor-vehicle. G. V. Lauchin. 1,623,687; Apr. 5.
- Lamp mount. E. W. Briggs. 1,653,385; Dec. 20.
- Lamp mounting, H. E. Ganett. 1,639,336; Aug. 16.
- Lamp mounting for motor vehicles, Reflecting. H. D. Mullan. 1,647,651; Nov. 1.
- Lamp mounting, Vehicle. E. J. Cook. 1,640,923; Aug. 30.
- Lamp, Nonarcing electric. W. A. McKay and C. C. Colby. 1,647,647; Nov. 1.
- Lamp of motor vehicles. J. E. Robertson. 1,653,064; Dec. 20.
- Lamp or analogous article. L. Zweig. Des. 73,423; Sept. 6.
- Lamp or similar article, Vehicle. G. Graff. Des. 73,078; July 19.
- Lamp outfit, electric. R. D. Malley. 1,630,090; May 24.
- Lamp, Pedestal. R. Pfaffe. 1,647,053; Oct. 27.
- Lamp, Portable. O. Sacksteder, jr. Des. 73,871; Nov. 15.
- Lamp, Portable electric. F. Pavel. Des. 73,941; Nov. 22.
- Lamp, Portable electric. W. R. Winsell. 1,648,709; Nov. 8.
- Lamp, Portable regulatable. W. A. Harvey. 1,639,774; Aug. 23.
- Lamp, Portable therapeutic. N. E. Goodrich. 1,651,385; Dec. 6.
- Lamp post. H. M. Lloyd. Des. 71,842; Jan. 11.
- Lamp post. H. M. Lloyd. Des. 72,160; Mar. 8.
- Lamp post. G. W. Reynolds. Des. 73,199; Aug. 2.
- Lamp post or similar article. H. Barkschat. Des. 72,466-7; Apr. 19.
- Lamp post or similar article. H. Barkschat. Des. 72,583; May 10.
- Lamp post or similar article. H. Barkschat. Des. 72,589; May 10.
- Lamp, Projection. H. Workman. 1,631,905; June 7.
- Lamp, Reading. J. A. Horne. 1,648,125; Nov. 8.
- Lamp, Reflector. A. Rutenauer and G. Galdies. 1,624,762; Apr. 12.
- Lamp, regulator, Thermostatic. G. M. Trollinger. 1,634,008; June 28.
- Lamp, Road-light. F. O. Farwell. 1,634,657; July 5.
- Lamp, Road-vehicle. W. B. Wish. 1,626,901; May 3.
- Lamp, Running-board. W. A. Pearsall, jr. 1,623,131; Apr. 5.
- Lamp, Sanctuary. B. Muller-Thym. 1,626,008; Apr. 26.
- Lamp shade. E. Beardsley. Des. 73,859; Nov. 22.
- Lamp shade. I. Demblitz. 1,618,978; Mar. 1.
- Lamp shade. L. Gold. Des. 73,171-2; Aug. 2.
- Lamp shade. A. J. Hammond. Des. 73,976; Nov. 29.
- Lamp shade. C. A. Herman. 1,654,482; Dec. 27.
- Lamp shade. T. Luck and T. Meaney. Re1,600; Feb. 22.
- Lamp shade. J. Jacoby and B. Wiczorkiewicz. Des. 72,673; May 17.
- Lamp shade. R. Levy. 1,634,545; July 5.
- Lamp shade. F. K. Maerz. Des. 72,904-5; June 21.
- Lamp shade. F. K. Maerz. Des. 73,438; Sept. 13.
- Lamp shade. S. Sato. Des. 74,124; Dec. 20.
- Lamp shade. H. Stone. Des. 73,625; Oct. 11.
- Lamp shade. W. H. Tombs. Des. 74,082; Dec. 13.
- Lamp-shade holder. E. H. Baare. 1,616,735; Feb. 8.
- Lamp-shade holder. T. Dahl. 1,637,739; Aug. 2.
- Lamp-shade holder. A. Willenbacher. 1,616,159; Feb. 1.
- Lamp shade, Multiple-wall. L. Larson. 1,614,004; Jan. 11.
- Lamp shade or analogous article of manufacture. A. R. Krause and F. W. Mathieu. Des. 72,856-9; June 14.
- Lamp, Signal. H. L. Piper. 1,618,778; Feb. 22.
- Lamp socket. E. A. Everett. 1,652,398; Dec. 13.
- Lamp socket. H. C. Foster. 1,641,159; Sept. 6.
- Lamp socket. D. E. Hamiel. 1,640,189; Aug. 23.
- Lamp socket. O. West. 1,629,243; May 17.
- Lamp socket and current tap, Combined. W. Ile. 1,635,889; July 12.
- Lamp-socket casings, Cap and shelf fastening for. W. Ile. 1,635,823; July 12.
- Lamp-socket construction. L. A. Hofstetter. 1,638,691; Aug. 9.
- Lamp socket, Double. W. Ile. 1,639,935; Aug. 16.
- Lamp socket, Electric. B. Haupt. 1,614,922; Jan. 18.
- Lamp socket, Electric. W. Ile. 1,645,860; Oct. 18.
- Lamp socket, Electric. P. E. Morrison. 1,635,686; July 12.
- Lamp socket, Electric. N. B. Parsons. 1,643,641; Sept. 27.
- Lamp socket, Electric. E. S. Sanderson. 1,649,927; Nov. 22.
- Lamp socket, Electric. H. E. Slade. 1,643,790; Sept. 27.
- Lamp socket, Electric. D. N. Thompson. 1,630,679; May 31.
- Lamp socket, Plural. J. S. Cumling. 1,616,528; Feb. 8.
- Lamp-socket switch. D. D. Gordon. 1,634,413; July 5.
- Lamp socket with leads on side. L. L. Raymond. 1,632,848; June 21.
- Lamp sockets, Lock attachment for electric. C. F. McCann and R. A. Berrenberg. 1,623,740; Apr. 5.
- Lamp sockets, Shade holder for electric. W. A. Martin. 1,624,794; Apr. 12.
- Lamp stand. J. B. Belanger. Des. 73,996; Dec. 6.
- Lamp stand. C. V. Daiger, jr. Des. 74,140; Dec. 27.
- Lamp stand. S. V. Jordan. Des. 74,113; Dec. 20.
- Lamp stand. O. Siebenbrodt. 1,619,639; Mar. 1.
- Lamp stand and ash tray, Combined. C. B. Namlot. Des. 73,668; Oct. 18.
- Lamp standard. H. O. Rastetter. Des. 73,442; Sept. 13.
- Lamp standards, Base for. G. F. Ebel. 1,627,640; Mar. 10.
- Lamp stem. A. Goldberg. Des. 73,655; Oct. 18.
- Lamp structure, Incandescent. J. J. Rekar. 1,637,786; Aug. 2.
- Lamp support. H. D. McFaddin. Des. 74,142-3; Dec. 27.
- Lamp support. K. Mensing. 1,633,558; June 21.
- Lamp support. E. M. Rump. 1,625,100; Apr. 19.
- Lamp support. R. Townsend. Des. 73,451; Sept. 13.
- Lamp support. J. R. Townsend. Des. 73,950; Nov. 22.
- Lamp-supporting collar. J. N. Gossett. 1,623,002; Mar. 29.
- Lamp, Table. R. F. Mathews. Des. 73,666; Oct. 18.
- Lamp, Table. L. W. Young. Des. 73,558; Aug. 23.
- Lamp, Telephone-switchboard. W. G. Laskey. 1,647,999; Nov. 8.
- Lamp, Theftproof. W. E. Anderson. 1,651,357; Dec. 6.
- Lamp, Therapeutic. L. J. Buttolph. 1,630,057; May 24.
- Lamp, Therapeutic. N. E. Goodrich. 1,641,629; Sept. 6.
- Lamp, Therapeutic. R. X. Tuttle. 1,643,430; Sept. 27.
- Lamp, Therapeutic. R. X. Tuttle. 1,654,313-4; Dec. 27.
- Lamp, Tungsten arc. W. Zebrowski. 1,617,979; Feb. 15.
- Lamp, Vapor. L. J. Buttolph. 1,630,053; May 24.
- Lamp, Vehicle. A. Graves. 1,620,202; Mar. 8.
- Lamp, Vehicle. J. H. MacPherson. 1,641,041; Aug. 30.
- Lamp, Vehicle. E. O. Seitz. 1,617,423; Feb. 15.
- Lamp, Vehicle. G. H. Stiles. 1,643,567; Oct. 4.
- Lamp, Vehicle signal. J. P. Hasselberger. 1,617,051; Feb. 8.
- Lamp, Vehicle signal. C. A. Shoemaker. 1,641,059; Aug. 30.
- Lamp, Vehicle head. H. B. Donley. 1,650,501; Nov. 22.
- Lamp, Vehicle head. W. C. Thomas. 1,650,500; Nov. 22.
- Lamp, Vehicle tail. L. V. Houghton. 1,646,094; Oct. 18.
- Lamp, Vehicle tail. A. W. Jaeger. Des. 73,181; Aug. 2.
- Lamp, Water-cooled. L. J. Buttolph. 1,630,052; May 24.
- Lamp, Water-cooled. L. J. Buttolph. 1,630,054-6; May 24.
- Lamp with filament having increased strength, Gas-filled incandescent electric. D. S. Gustin. 1,622,826; Mar. 29.
- Lamp with inclosed arc, Flame arc. T. L. Carbone. 1,629,254; May 17.
- Lamp wrapper. W. H. Fairchild. 1,619,608; Mar. 1.
- Lamps and its manufacture, Metal cap for electric incandescent. F. Graner. 1,623,536; Apr. 5.
- Lamps and method of making. Stem for incandescent. J. J. Higgins. 1,626,677; May 8.
- Lamps and similar articles, Apparatus for making incandescent. H. D. Blake and W. J. Geiger. 1,651,865; Dec. 6.
- Lamps and similar articles, Apparatus for making incandescent. J. F. Donovan. 1,620,447; Mar. 8.
- Lamps and the like, Application of setting to electric incandescent. W. C. Sprousser. 1,626,639; May 3.
- Lamps and the like, Cap or socket for incandescent electric. A. J. B. Marsat. 1,630,126; May 24.
- Lamps, Arm for bridge. W. T. Rabun. Des. 74,072; Dec. 13.
- Lamps, Attachment for bridge arm. G. W. Cassidy. Des. 73,307; Aug. 30.
- Lamps, Automatic control for arc. C. M. Fox. 1,622,505; Mar. 29.
- Lamps, Automatic regulation of arc. K. Vesely and K. Lustig. 1,614,415; Jan. 11.
- Lamps, Base for theftproof. F. W. Walton. 1,647,593; Nov. 1.
- Lamps, Bracket for electric. J. Grien. 73,498; Sept. 20.

- Lamps, Carbon feeding and adjusting mechanism for arc. W. G. Preddy, 1,650,849; Nov. 29.
- Lamps, Circuit connector for compartmental. C. E. Godley, 1,614,730; Jan. 18.
- Lamps, Electric accumulator for hand. C. R. Fowler and E. M. Roberts, 1,640,118; Aug. 23.
- Lamps, Explosion-proof fitting for electric glow. J. Beckmann, 1,629,089; May 10.
- Lamps, Feeding means for arc. T. Hall, 1,626,932; May 3.
- Lamps, Filament support for series. A. L. Powell, 1,620,487; Mar. 8.
- Lamps, Glass shield for electric. G. L. Baker, 1,643,937; Oct. 4.
- Lamps, Husk for incandescent. F. Yokel, Des. 73,355; Aug. 23.
- Lamps, Indicator for automobile. D. H. Deery, 1,652,707; Dec. 13.
- Lamps, Light indicator for reflector. A. St. Clair, 1,644,207; Oct. 4.
- Lamps, Locking attachment for incandescent. T. E. Vogt, 1,621,341; Mar. 15.
- Lamps, Manufacture of incandescent. H. G. Anderson, 1,626,658; May 3.
- Lamps, Manufacture of incandescent electric. J. J. Higgins, 1,617,112; Feb. 8.
- Lamps, Manufacture of incandescent. C. F. Lorenz, 1,647,139; Nov. 1.
- Lamps, Manufacture of incandescent electric. D. S. Gustin, 1,651,387; Dec. 6.
- Lamps, Manufacturing tipless incandescent. G. F. Webb, 1,633,732; Dec. 27.
- Lamps or similar article, Pedestal for table. A. H. Rimbarg, Des. 73,148; July 26.
- Lamps or similar articles, Filament for incandescent. P. A. Campbell, 1,650,605; Nov. 29.
- Lamps or similar articles, Filament for incandescent. C. Severin, 1,632,769; June 14.
- Lamps, portable drills and the like, Extension reel for electric. O. Miller, 1,642,936; Sept. 20.
- Lamps, Reflector for quartz. F. Girard, 1,633,525; June 21.
- Lamps, Reflector seal for. C. E. Godley, 1,614,731; Feb. 8.
- Lamps, Replacing broken or molten holding wires inside of incandescent electric. F. Voglihut, 1,637,016; July 26.
- Lamps, Sealing-in head for incandescent electric. W. S. Rotherham, 1,626,628; May 3.
- Lamps, Series-operated studio arc. T. Hall, 1,617,314; Feb. 8.
- Lamps, Shock-absorbing socket for electric filament. P. Van Bommel, 1,626,108; Apr. 26.
- Lamps, Shock-absorbing support for electric. S. Sokolow, 1,621,610; Mar. 22.
- Lamps, smoker's stands, and the like, Stand for floor. L. M. Clarke, 1,613,382; Jan. 4.
- Lamps, Support for concealed dash. C. H. Culver, 1,621,873; Mar. 22.
- Lamps, Switch for automobile signal. L. H. Peck, 1,646,419; Oct. 25.
- Lamps, Time switch for parking. W. F. Winterling, 1,626,319; Apr. 26.
- Lamps, to vases, Device for attaching. H. I. Albright, 1,613,260; Jan. 4.
- Landing light or flare for attaching to aircraft. H. E. S. Holt, 1,624,411; Apr. 12.
- Land-leveling machine. J. J. Henry, 1,639,182; Aug. 16.
- Land or lawn roller. A. E. Bell, 1,618,564; Feb. 22.
- Land roller. J. D. Hunt, 1,615,905; Feb. 1.
- Land-roller frame. J. F. Wagner, 1,621,295; Mar. 15.
- Lands and forming bulkheads, Reclaiming. A. C. Chenoweth, 1,638,656; Aug. 9.
- Landscape, Representing cascades in. J. A. Burnham, 1,624,270; May 3.
- Lantern. C. M. Anderson, 1,632,577; June 14.
- Lantern. J. W. Gosling, 1,640,446; Aug. 30.
- Lantern. C. O. Harrington, 1,617,595; Feb. 15.
- Lantern. G. F. Hitchcock, 1,620,970; Mar. 15.
- Lantern. G. F. Hitchcock, 1,644,925; Oct. 11.
- Lantern. E. B. Lindsay, Des. 73,930-1; Nov. 22.
- Lantern. D. E. Lindsay, Des. 73,937; Nov. 22.
- Lantern. W. E. Price, 1,623,699; Apr. 5.
- Lantern. H. Rosenfeld, Des. 73,444; Sept. 13.
- Lantern. F. D. Spear, Des. 73,877; Nov. 15.
- Lantern. A. Weber, Des. 73,393; Aug. 30.
- Lantern. A. Weber, Des. 73,725; Oct. 25.
- Lantern. E. B. Wilson, Des. 73,730; Oct. 25.
- Lantern. E. B. Wilson and A. K. Spencer, Des. 73,885; Nov. 15.
- Lantern. H. H. Wolter, Des. 73,631; Oct. 11.
- Lantern battery, Electric. F. T. Baird, 1,627,264; May 3.
- Lantern, Collapsible. K. K. Friedrich, 1,620,640; Mar. 15.
- Lantern, Electric hand. J. Van Rensselaer, Jr., 1,620,842; Mar. 15.
- Lantern, Foldable. K. K. Friedrich, 1,653,206; Dec. 20.
- Lantern frame. E. B. Wilson, Des. 73,731; Oct. 25.
- Lantern, Hand, G. Cohen, 1,641,880; Sept. 6.
- Lantern, Hanging. L. A. Crumley, Des. 72,511; Apr. 26.
- Lantern panel. L. A. Crumley, Des. 73,069; July 19.
- Lantern, Projecting. F. W. Schmidt, 1,637,788; Aug. 2.
- Lantern, Projection. J. P. Youtz, 1,633,837; June 28.
- Lantern roof. R. S. Bardwell, Des. 73,165; Aug. 2.
- Lantern, Signal. P. Koroknay, 1,625,474; Apr. 19.
- Lantern slide. J. R. Freeman, 1,633,376; June 21.
- Lantern, Switchman's. H. C. Sylvester, 1,646,328; Oct. 18.
- Lantern wheel for clocks and other purposes, Method and apparatus for making. H. Kienzie, 1,634,906; July 5.
- Lanterns and the like, Ball fastening or attaching means for. R. A. Currie, 1,648,446; Nov. 8.
- Lanterns, Attachment for. C. C. Walch, 1,650,809; Nov. 23.
- Lanterns, called personal-character readers. A. L. Romero, 1,624,149; Apr. 12.
- Lanterns or articles of similar nature, Body for. I. Rosenblatt, Des. 73,334; Aug. 23.
- Lap link. E. Kelly, 1,619,519; Mar. 1.
- Lap link. B. F. Rodgers, 1,651,909; Dec. 6.
- Lap machine. L. Schorsch, 1,642,178; Sept. 13.
- Lap rod. H. Skoler, 1,640,098; Aug. 23.
- Lap-winding machine. F. D. Langevin, 1,618,716; Feb. 22.
- Lapping machine. A. Ericsson, 1,635,469; July 12.
- Lapping machine. W. A. Oubridge, 1,623,697; Apr. 5.
- Lapping machine and truing the lapping elements. W. F. Fraser, 1,634,745; July 5.
- Lapel turner. N. Giancola, 1,643,410; Sept. 27.
- Lard, butter, or margarine, Apparatus for cutting. M. Baker, 1,627,007; May 3.
- Last. W. P. Becker, 1,625,588; Apr. 19.
- Last. J. Benda, 1,636,677; July 26.
- Last. G. Clausing, 1,621,710; Mar. 22.
- Last. G. Clausing, 1,627,272; Mar. 3.
- Last. G. Clausing, 1,641,154; Sept. 6.
- Last. W. A. Krentler, 1,621,988-3; Mar. 22.
- Last. J. W. May, 1,653,965; Dec. 27.
- Last. J. W. May, 1,654,007-8; Dec. 27.
- Last. C. H. Morrill, 1,627,661; May 10.
- Last. J. C. Schelter, 1,643,138; Sept. 20.
- Last. J. C. Schelter, 1,648,882-3; Nov. 8.
- Last. H. A. Toulmin, Jr., 1,631,709; June 7.
- Last-block fastener. S. D. Layman, 1,649,709; Nov. 15.
- Last, Hinged. C. H. Gerrish, 1,638,627; Aug. 9.
- Last, to the. C. P. Morton, 1,620,304; May 31.
- Last-removing device. G. P. S. Gross, 1,633,288; July 19.
- Last-scouring wheel. C. L. Pearson, 1,632,244; June 14.
- Last, Shoemaker's. L. P. Taylor, 1,652,384; Dec. 13.
- Lasting machine. W. F. Flickinger, 1,640,697; Aug. 30.
- Lasting machine. F. N. La Chapele, 1,634,503; July 5.
- Lasting machine. C. F. Pym, 1,627,999; May 10.
- Lasting machine. C. F. Pym, 1,634,511; July 5.
- Lasting machine. T. H. Seely, 1,623,135; Apr. 5.
- Lasts and shoes, Machine for separating. M. F. Brogan, 1,634,487; July 5.
- Lasts, Assembling. W. A. Krentler, 1,621,208; Mar. 15.
- Lasts, Machine for operating on. F. E. Bertrand, 1,624,916; Apr. 19.
- Lasts, Nailing plate for. H. O. Davis, 1,631,581; June 7.
- Latch. G. W. Aldeen, 1,650,414; Nov. 22.
- Latch. P. J. Beltz, 1,646,343; Oct. 18.
- Latch. H. Bentrott, 1,639,878; Aug. 23.
- Latch. J. H. Bourgois, 1,616,106; Feb. 1.
- Latch. B. W. Johnston, 1,634,195; June 23.
- Latch. J. H. Levinson, 1,647,821; Nov. 1.
- Latch. R. G. Moore, 1,630,270; May 31.
- Latch. C. A. Mutispaugh, 1,626,422; Apr. 26.
- Latch. E. C. Osbeck, 1,619,752; Mar. 1.
- Latch. J. Palacios, 1,621,808; Mar. 22.
- Latch. E. J. Perry, 1,636,069; July 19.
- Latch. C. S. Shilling and D. B. Louzon, 1,639,862; Aug. 23.
- Latch. R. R. Studler, 1,653,319; Dec. 20.
- Latch. F. M. Vandervoort, 1,634,636-7; July 5.
- Latch. C. Vogt, 1,619,789; Mar. 1.
- Latch. F. Winters and B. R. Crampton, 1,648,289; Nov. 8.
- Latch and draft plate, Window. G. Helge, 1,639,849; Aug. 23.
- Latch and guard, Window. A. Pavola, 1,621,740; Mar. 22.
- Latch and holder, Door. R. L. Neubert, 1,653,406; Dec. 20.
- Latch and keeper means. C. L. Crooks and F. M. Vandervoort, 1,634,635; July 5.
- Latch and keeper means. F. M. Vandervoort, 1,634,634; July 5.
- Latch and lock, Door. W. F. Wread, 1,617,001; Feb. 8.
- Latch and lock mechanism. J. Knell, 1,642,501; Sept. 13.
- Latch and lock mechanism, Door. A. J. Kopp, 1,618,344; Feb. 22.
- Latch and lock, Reversible door. A. J. Thomas, 1,627,426; Mar. 3.
- Latch and switch mechanism, Combined door. A. W. Jones, 1,649,475; Nov. 15.
- Latch, Automatic doff. C. W. Young and J. H. Diggitt, 1,645,083; Oct. 11.
- Latch, Automatic safety window. H. S. Wheaton, 1,625,293; Apr. 19.
- Latch, Automobile door. J. A. Drouin, 1,652,616; Dec. 13.
- Latch, Automobile hood. R. Wagner, 1,631,503; June 7.
- Latch-bolt keeper and mounting the same. J. Ledwinka, 1,646,332; Oct. 11.
- Latch, Choker-rod. H. Drews, 1,651,874; Dec. 6.

Latch construction. J. Ledwinka. 1,635,757; July 12.
 Latch-controlled-operating mechanism. J. H. Sayres. 1,628,474; May 10.
 Latch. Erb. F. C. Marquardt. 1,622,387; Mar. 29.
 Latch, Dogging means for vehicle door. F. N. Delavan. 1,615,829; Feb. 1.
 Latch. Door. D. Bell. 1,645,849; Oct. 18.
 Latch. Door. W. C. Devereaux. 1,621,497; Mar. 22.
 Latch. Door. W. C. Devereaux. 1,629,814; May 24.
 Latch. Door. W. C. Devereaux. 1,635,000; Aug. 16.
 Latch. Door. W. C. Devereaux. 1,644,240; Oct. 4.
 Latch. Door. M. M. Dudas. 1,629,379; May 17.
 Latch. Door. W. D. Ferris. 1,633,888; June 28.
 Latch. Door. W. D. Ferris. 1,638,249; Aug. 9.
 Latch. Door. P. Frantz. 1,630,379; May 31.
 Latch. Door. C. Haarberg. 1,642,612; Sept. 13.
 Latch. Door. E. Halpern. 1,641,537; Sept. 13.
 Latch. Door. H. N. Jones. 1,651,711; Dec. 6.
 Latch. Door. W. Kira. 1,617,641; Feb. 15.
 Latch. Door. S. W. Parsons. 1,619,032; Mar. 1.
 Latch. Door. A. A. Schaeffer. 1,621,437; Mar. 15.
 Latch. Door. W. Schlegel. 1,636,968; July 26.
 Latch. Door. J. Tuholske. 1,618,897; Feb. 22.
 Latch. Door. E. J. Waring. 1,654,197; Dec. 27.
 Latch. Door. G. A. Westfield. 1,637,366; Aug. 2.
 Latch. Door. C. A. Whitehurst. 1,648,520; Nov. 8.
 Latch, Elevator-door. W. A. Williams. 1,621,391; Mar. 15.
 Latch, Exit. J. O. Soemer. 1,630,141; May 24.
 Latch for air brakes, Push-rod. H. F. Bickel. 1,649,801; Nov. 22.
 Latch for automobile doors and the like. L. J. Morgan. 1,630,434; Aug. 16.
 Latch for automobile doors and the like. L. J. Morgan. 1,651,724; Dec. 6.
 Latch for boxes. C. H. Bissell. 1,615,784; Jan. 25.
 Latch for doors, Handle. H. A. Ziola. 1,653,489; Dec. 20.
 Latch for windows. G. I. Barclay. 1,615,864; Feb. 1.
 Latch, Gate. E. Crowley. 1,640,394; Aug. 30.
 Latch, Grain-car-door. C. J. Fischer. 1,615,120; Jan. 15.
 Latch handles, Mounting for. L. Ottinger. 1,641,988; Sept. 13.
 Latch, Hood. R. A. Frisbie. 1,647,128; Nov. 1.
 Latch, Hood. L. C. Vanderlip. 1,620,414; Mar. 8.
 Latch, Hopper. W. H. McClelland. 1,639,855; Aug. 23.
 Latch, Keeper. F. J. Schmidgal. 1,614,046; Jan. 11.
 Latch, Lock. A. Boge. 1,626,384; Apr. 26.
 Latch, Locker. J. B. O'Connor. 1,625,145; Apr. 19.
 Latch mechanism. C. F. Boucek. 1,634,013; June 28.
 Latch mechanism. J. Ledwinka. 1,628,633; May 10.
 Latch mechanism. J. Ledwinka. 1,635,579-80; July 12.
 Latch mechanism. J. Ledwinka. 1,645,336; Oct. 11.
 Latch mechanism. E. B. McMartin. 1,630,093; May 24.
 Latch mechanism. J. P. Tarbox. 1,635,589; July 12.
 Latch mechanism. J. P. Tarbox. 1,645,310; Oct. 11.
 Latch, Movable stairway. F. E. Bessler. 1,636,279; July 19.
 Latch, One-way pull. F. W. Stahl. 1,631,229; June 7.
 Latch-operating device. W. N. Davis. 1,616,909; Feb. 8.
 Latch, Platform-operated garage-door. M. Mattson. 1,652,574; Dec. 13.
 Latch, Railway-door. J. O. Nelkirk. 1,637,911; Aug. 2.
 Latch, Refrigerator. A. Rubin. 1,651,553; Dec. 6.
 Latch, Refrigerator. D. D. Swem. 1,650,398; Nov. 22.
 Latch-release mechanism. H. L. Beach. 1,643,974; Oct. 4.
 Latch, Remote-control. E. E. Heintz. 1,638,198; Aug. 9.
 Latch, Reversible. A. F. Winters and B. R. Crampton. 1,646,075; Oct. 18.
 Latch, Ring. R. G. Talley. 1,641,058; Aug. 30.
 Latch, Sash. E. H. Boone and J. W. Cook. 1,627,478; May 3.
 Latch, Sash. W. S. Hamm. 1,627,846; May 10.
 Latch, Scoop-board. J. Schnabel. 1,617,709; Feb. 15.
 Latch, Telephone. J. Krive. 1,644,194; July 12.
 Latch, Watch-bracket. R. King. 1,651,134; Nov. 29.
 Latch, Window. A. G. Hjert. 1,616,189; Feb. 1.
 Latch, Window. F. F. Kozak and G. Lutz. 1,653,295; Dec. 20.
 Latch, Window. O. Millauer. 1,636,782; July 26.
 Latch, Window. A. Zur. 1,653,143; Dec. 20.
 Latch, Window safety. J. Goldworm. 1,615,754; Jan. 25.
 Latch, Window-sash. J. D. Shipman. 1,622,742; Mar. 29.
 Latches, Locking means for door. L. Ottinger. 1,639,103; Aug. 16.
 Latches or the like, Handle for door. G. Graff. Des. 73,909; Nov. 22.
 Latches, Rotary bolt and striker plate for automobile door. W. C. Devereaux. 1,639,401; Aug. 16.
 Latching and braking device for adjustable windows. E. J. Rawlings. 1,632,677; June 14.
 Latching device. M. Rasmussen. 1,631,758; June 7.
 Latching device, Automatic door. C. de Vleeschouwer. 1,616,688; Oct. 25.
 Latching fixture, Swing-sash. G. G. Wiley. 1,630,913; May 31.
 Latex and product, Preserving. A. E. Jury and O. H. Smith. 1,619,938; Mar. 8.
 Latex and product thereof, Treating. W. B. Wescott. 1,630,411; May 31.
 Latex and product, Thickening and stabilizing. M. C. Teague. 1,634,124; June 28.

Latex and products obtained thereby, Treating. S. M. Cadwell. 1,641,573; Sept. 6.
 Latex, Manufacture of molded articles from. C. C. Loomis and H. E. Stump. 1,634,293; July 5.
 Latex, Treating. J. McGavack. 1,647,805; Nov. 1.
 Lath, Apparatus for expanding metal. L. E. Curtis. 1,624,543; Apr. 12.
 Lath board. S. M. Ford. 1,616,652; Feb. 8.
 Lath board and making the same. S. M. Ford. 1,616,651; Feb. 8.
 Lath, Composite metal. W. C. Coryell. 1,637,410; Aug. 2.
 Lath, Composite wire. R. J. Southwell. 1,641,872; Sept. 6.
 Lath-cutting machine. S. Hardy. 1,614,362; Jan. 11.
 Lath, Expanded-metal. J. Manofsky. 1,618,666; Feb. 22.
 Lath-expanding machine, Continuous. L. E. Curtis. 1,619,499; Mar. 1.
 Lath nail. H. Willig. 1,624,817; Apr. 12.
 Lath spacer. G. F. Voight. 1,624,193; Apr. 12.
 Lathing device. F. W. Bacon. 1,639,718; Aug. 23.
 Lathing, Metallic. L. P. Hazen. 1,648,345; Nov. 8.
 Lathing sheet. R. N. Jensen. 1,646,483; Oct. 25.
 Lathing, Shear. J. D. O'Brien. 1,614,081; Jan. 11.
 Lathing structure for plaster wall, Mounting. J. F. Makowski. 1,619,947; Mar. 8.
 Lathe. E. S. and F. B. Cockburn. 1,628,599; May 10.
 Lathe. G. W. Duchemin. 1,630,333; May 31.
 Lathe. W. F. Greene. 1,617,902; Feb. 15.
 Lathe. W. J. Hamblen. 1,649,538; Nov. 15.
 Lathe. J. E. Johnson. 1,639,090; Aug. 16.
 Lathe. H. W. Melling. 1,634,550; July 5.
 Lathe. E. H. Merritt. 1,617,409; Feb. 15.
 Lathe. L. Reno. 1,622,292; Mar. 29.
 Lathe. G. D. Sundstrand. 1,639,756; Aug. 23.
 Lathe. L. Thiel. 1,614,049; Jan. 11.
 Lathe. W. E. Whipp. 1,636,028; July 19.
 Lathe and drill, Combined. A. S. Thompson. 1,618,358; Feb. 22.
 Lathe attachment. P. L. Starr. 1,619,832; Mar. 8.
 Lathe attachment for turning irregular profiles. J. L. Matthews. 1,646,758; Oct. 25.
 Lathe attachment, Teeth-cutting. S. Helfgott. 1,617,807; Feb. 15.
 Lathe, Automatic. J. J. Thacher. 1,616,153; Feb. 1.
 Lathe, Automatic. J. J. Thacher. 1,637,792; Aug. 2.
 Lathe, Copying. H. A. Schultz. 1,623,638; Apr. 5.
 Lathe, Copying. H. A. Schultz. 1,638,511; Aug. 9.
 Lathe, Crankshaft. W. F. Greene. 1,636,633; June 28.
 Lathe, Dog. S. B. Boynton. 1,645,219; Oct. 11.
 Lathe, Drilling and milling machine, Combined. H. Dalton. 1,620,522; Mar. 8.
 Lathe, Metal. H. W. Thompson. 1,642,909; Sept. 20.
 Lathe, Milling. J. A. Doane. 1,618,275; Feb. 22.
 Lathe, Multiple-carriage. J. C. White. 1,619,281; Mar. 1.
 Lathe, Spoke-turning. H. Flick. 1,629,691; May 24.
 Lathe-tool holder. J. C. Stafford. 1,649,553; Nov. 15.
 Lathe, Turret. G. E. Cuttat. 1,644,566; Oct. 4.
 Lathe, Veneer. J. G. Sjöström. 1,646,115; Oct. 18.
 Lathe, Wood-turning. W. H. Moore. 1,653,223; Dec. 20.
 Lathes and the like, Auxiliary tool holder for. J. E. Perrault. 1,618,993; Mar. 1.
 Lathes, Auxiliary machining attachment for. O. C. Meyer. 1,614,432; Jan. 11.
 Lathes, Back squaring attachment for. N. King and R. A. Ashton. 1,644,733; Oct. 11.
 Lathes, Back squaring attachment for automatic. J. J. Thacher. 1,645,123; Oct. 11.
 Lathes, Chip and blank separator for. J. J. Thacher. 1,616,151; Feb. 1.
 Lathes, Counterbalance for. L. C. Cole. 1,634,396; July 5.
 Lathes, Follow rest for. A. G. Whitehead and E. J. Sullivan. 1,648,091; Nov. 8.
 Lathes, Forming attachment for. J. J. Thacher. 1,616,152; Feb. 1.
 Lathes, Headstock for. W. E. Whipp. 1,642,863; Sept. 20.
 Lathes, Overhead tool attachment for. J. E. Lovel. 1,647,368; Nov. 1.
 Lathes, Tool carrier for. E. F. Heard and M. M. Fitz Hugh. 1,648,900; Nov. 15.
 Lathes, Tool holder for. J. M. Palmer. 1,638,874; Aug. 16.
 Lathes, Tool turret for axle. L. C. Cole. 1,652,426; Dec. 13.
 Lathes, Turret tool post for car-wheel. J. O. MacDonald. 1,650,718; Nov. 29.
 Laundering machine. W. W. Trinks. 1,620,144; Mar. 8.
 Laundering machine. W. W. Trinks. 1,623,077; Apr. 5.
 Laundering and other machines, Pad for. W. A. Zeidler. 1,630,459; May 31.
 Laundry apparatus. W. A. Frantz. 1,634,539; July 5.
 Laundry apparatus. E. J. Perry and F. S. Boltz. 1,645,998; Oct. 18.
 Laundry appliance. C. R. Asmus. 1,627,948; May 10.
 Laundry assorter. A. Armbruster. 1,618,260; Feb. 22.
 Laundry, assorting rack. W. F. Herliow. 1,625,316; Apr. 19.
 Laundry-bag holder. O. Jetel. 1,638,203; Aug. 9.
 Laundry carrier. J. E. S. Russell. 1,641,458; Sept. 6.
 Laundry check. E. Lane. 1,620,158; Mar. 8.
 Laundry checking device. E. Lane. 1,621,259; Mar. 15.
 Laundry checking device. J. H. Lynch. 1,642,963; Sept. 20.

- Laundry clothes-handling apparatus. E. R. Knudson. 1,880,189; May 24.
- Laundry collar-finishing machine. J. Chant and Ed. P. Ryan. 1,617,896; Feb. 15.
- Laundry-handling device. E. Lane. 1,625,551; Apr. 19.
- Laundry machines. S. W. Mammen. 1,632,797; June 21.
- Laundry machine. W. W. Winger. 1,649,008; Nov. 15.
- Laundry machine, Rotary. J. N. White. 1,648,090; Nov. 8.
- Laundry machines, Safety device for. R. H. Palm and F. Pohlmann. 1,647,685; Nov. 1.
- Laundry machines, Safety device for. R. H. Palm and W. F. Pohlmann. 1,651,625; Dec. 6.
- Laundry machines, Safety device for. W. F. Pohlmann. 1,651,543; Dec. 6.
- Laundry mangles, Linen-straightening mechanism for. G. M. Bacon. 1,645,036; Oct. 11.
- Laundry marking machine. M. W. Griesbaum. 1,650,068; Nov. 22.
- Laundry marking-tag-attachment machine. A. L. Faust. 1,619,251; Mar. 1.
- Laundry trays, Mixing-valve support for. S. Kersten. 1,626,348; Apr. 26.
- Washing machine and hydro-extractor, Combined. A. Dimatos and G. D. Michal. 1,637,930; Aug. 2.
- Lavatory. G. I. Barbour. 1,627,475; May 3.
- Lavatory. D. E. Gulick. 1,627,504; May 3.
- Lavatory. C. Rekevitz. 1,626,155; Apr. 26.
- Lavatory. W. A. Rowe. 1,653,664; Dec. 27.
- Lavatory fixtures. H. MacMillan. 1,642,256; Sept. 13.
- Lawn. H. Mueller. 1,616,817; Feb. 8.
- Lawn cleaner, Combination. J. Coley. 1,619,851; Mar. 8.
- Lawn-edge trimmer. J. Green. 1,632,129; June 14.
- Lawn edger. A. L. Foster. 1,622,998; Mar. 29.
- Lawn-grooving machine. D. A. McBride. 1,644,068; Oct. 4.
- Lawn mower. C. Christensen. 1,637,603; Aug. 2.
- Lawn mower, Power. H. W. Bolens. 1,651,579; Dec. 6.
- Lawn rake. O. C. Kenyon. 1,631,375; June 7.
- Lawn rake. O. W. Thompson. 1,612,894; Jan. 4.
- Lawn rake. O. W. Thompson. 1,652,260; Dec. 13.
- Lawn sprinkler. C. C. Chappin. 1,651,511; Dec. 6.
- Lawn sprinkler. W. H. Toles. 1,637,140; July 26.
- Lawn sprinkler. U. G. Knauff. 1,634,261; July 5.
- Lawn sprinkler. W. Steinelger. 1,650,473; Nov. 22.
- Lawn sprinkler. W. V. E. Thompson. 1,613,336; Jan. 4.
- Lawn sprinkler. W. C. Todd. 1,639,389; Aug. 16.
- Lawn sprinkler, Automatic. R. F. Frye. 1,628,041; Jan. 10.
- Lawn sprinkler, Travelling. W. C. Todd and J. W. Pomeroy. 1,620,583; Mar. 8.
- Lawn trimmer. A. Felton. 1,651,759; Dec. 6.
- Lawn trimmer. A. Huberty. 1,632,479; June 14.
- Lay figure. G. Jalbert. 1,653,180; Dec. 20.
- Leaching apparatus. H. Y. Eagle. 1,651,680; Dec. 6.
- Leaching, filtering, and absorbing gases and the like, Apparatus and process for. H. M. Stark. 1,626,831; Apr. 26.
- Leaching method and apparatus. A. B. Kennedy. 1,628,787; May 17.
- Leaching solutions, Recovering and regenerating. H. E. Wetherbee. 1,615,970; Feb. 1.
- Lead-alkali metal containing bearing-metal alloys. G. Welter. 1,652,078; Dec. 6.
- Lead and making the same. Red. J. A. Schaeffer, J. H. Calbeck, and J. R. Crenshaw. 1,652,217; Dec. 13.
- Lead chloride, Recovering. W. Witter and P. Nehring. 1,647,426; Nov. 1.
- Lead chloride to lead carbonate, Conversion of. S. C. Smith. 1,643,261; Sept. 20.
- Lead compounds, Making organic. T. Midgley, jr. 1,622,228; Mar. 22.
- Lead compounds, Manufacture of. R. Wilhelm. 1,617,887; Feb. 15.
- Lead-copper particles, Making. H. M. Williams. 1,635,653; July 12.
- Lead dross, Treating. O. P. Chisholm. 1,642,358; Sept. 13.
- Lead-in connection. E. N. Maupin. 1,642,618; Sept. 13.
- Lead, Making tetra-alkyl. K. P. Monroe. 1,645,390; Oct. 11.
- Lead, Manufacture of tetra-ethyl. H. W. Daudt, A. E. Parmelee, and W. S. Calcott. 1,645,575; Oct. 11.
- Lead, Manufacturing tetra-ethyl. W. S. Calcott and F. L. English. 1,652,312; Dec. 13.
- Lead oxide, Apparatus for the manufacture of. H. Waring. 1,649,428; Nov. 15.
- Lead product and producing the same. J. O. Handy. 1,651,886; Dec. 6.
- Lead, Production of a tetra-alkyl. K. P. Monroe. 1,645,389; Oct. 11.
- Lead, Refining. P. W. Davis. 1,640,488-7; Aug. 30.
- Leaders, gears, or racks, Cutting. M. E. Fernald. 1,632,396; June 14.
- Leaf separator. J. Gough. 1,631,198; June 7.
- Leaf springs for lubricating same, Attachment to. L. Swetland. 1,648,792; Nov. 8.
- Leaf springs, Snubber-acting auxiliary leaf for. T. Kernan. 1,615,710; Jan. 25.
- Leaf support. V. C. Luppert. 1,651,825; Dec. 6.
- Leaf turner. L. Boyd. 1,630,290; May 31.
- Leakage-controlling construction. T. Wachs. 1,613,256; Jan. 4.
- Leak detector. D. W. Ohaver. 1,646,928; Oct. 25.
- Leak-stopping composition. G. I. Ray. 1,648,865; Nov. 8.
- Leaks, Composition for stopping. W. L. Campbell. 1,630,828; May 31.
- Leaks, Apparatus for stopping. J. D. Campano. 1,641,066; Aug. 30.
- Leaning wheel. R. J. Winsor. 1,633,151; June 21.
- Leather. H. R. Samstag. Des. 71,988-9; Feb. 8.
- Leather and making the same, Mineral-tanned. F. W. Weber. 1,616,400; Feb. 1.
- Leather and the like, Method and machine for coating. J. T. Smith. 1,625,434; Apr. 19.
- Leather, Artificial. R. K. Abbott. 1,642,394; Sept. 13.
- Leather, Coloring. P. A. Blatz. 1,625,842; Apr. 20.
- Leather dressing and tanning material. F. C. Atkinson. 1,622,127; Mar. 22.
- Leather-edge-finishing machine. F. W. Merrick. 1,621,519; Mar. 22.
- Leather, Making substitute for. H. Horowitz. 1,654,082; Dec. 27.
- Leather manufacture. J. K. Tullis. 1,640,914; Aug. 30.
- Leather-measuring machine. R. J. McFall. 1,619,143; Mar. 1.
- Leather. Preparation and dyeing of. M. C. Lamb. 1,628,160; May 10.
- Leather-stripper cutter, Adjustable. F. Ackermann and H. Gould. 1,622,265; Mar. 29.
- Leather, Stuffing of chrome-tanned heavy. R. H. Pickard, D. J. Lloyd, and A. E. Counce. 1,638,877; Aug. 16.
- Leather, Treating. T. Blackadder. 1,645,642; Oct. 18.
- Leather treating process and apparatus for same. G. S. Neely. 1,623,943; Apr. 5.
- Leather, Treatment of. M. C. Lamb. 1,640,706; Aug. 30.
- Leather-working machine. W. F. Blaney. 1,621,577; Mar. 22.
- Leather-working machine. W. E. Broughton. 1,624,921; Apr. 19.
- Leather-working machines, Work support for. O. H. Brown. 1,624,309; Apr. 12.
- Ledger, Loose-leaf. C. Stockmans. 1,624,020; Apr. 12.
- Ledger rack. O. L. Hermann. 1,649,471; Nov. 15.
- Leer. G. E. Howard. 1,618,659; Feb. 22.
- Leer-charging apparatus. F. H. Johnson and S. R. Lathrop. 1,624,250; Apr. 12.
- Leer-charging apparatus, Conveyor for. F. H. Johnson and S. R. Lathrop. 1,623,247; Apr. 5.
- Leer construction. H. K. Hitchcock. 1,638,769; Aug. 9.
- Leer, Continuous. E. E. Slick. 1,637,714; Aug. 2.
- Leer, Conveyor. K. E. Feiler. 1,635,861; July 12.
- Leer-heating means. E. T. Fengren. 1,653,042; Dec. 20.
- Leer-pan structure. P. Q. Williams. 1,641,515; Sept. 6.
- Leers, Carrying-in device for. E. R. Odum. 1,620,778; Mar. 15.
- Leers, Control apparatus for. J. C. Parkinson. 1,631,151; June 7.
- Leg and ankle support. A. A. Brooks. 1,638,285; Aug. 9.
- Leg construction. C. H. Busch and W. A. Vollmer. 1,638,561; Aug. 9.
- Leg, foldable table, Adjustable. S. M. Coggins. 1,614,187; Jan. 11.
- Leg guard for athletes. W. Barrett. 1,624,129; Apr. 12.
- Leg holder. C. Rogers. 1,635,638; July 12.
- Leg structure. E. S. Johnson. 1,638,912; July 26.
- Legging. J. R. Bingham and W. R. Nagle. 1,613,784; Jan. 11.
- Legging. H. F. Chester. 1,633,924; June 28.
- Legging. F. S. Dilger. 1,643,620; Sept. 27.
- Legging. A. Eggerth. 1,651,589; Dec. 6.
- Legging. E. A. Gray. 1,613,885; Jan. 11.
- Legging. C. E. Hockmeyer. 1,641,487; Sept. 6.
- Legging. C. R. Holcomb. 1,619,472; Mar. 1.
- Legging. T. Kelly. 1,638,266; Aug. 9.
- Legging. F. P. Norden and W. G. Loan. 1,639,783; Aug. 23.
- Legume, Apparatus and method for curing. H. F. Galbraith. 1,647,863; Nov. 1.
- Length record and automatic machine for making same. F. B. Voegell. 1,630,039; May 24.
- Lengths of variable articles, Indicating the. O. Vogl. 1,613,858; Jan. 11.
- Lens. J. T. Beechlyn. 1,615,674; Jan. 25.
- Lens. C. W. Frederick. 1,627,892; May 10.
- Lens. C. A. B. Halvorsen, jr. 1,641,674; Sept. 6.
- Lens. E. K. Schadt. 1,635,225; July 12.
- Lens. F. B. Watson and E. Culver. 1,632,208; June 14.
- Lens. A. B. Wells. 1,647,721; Nov. 1.
- Lens, Automobile direction-indicating. A. J. Matter. Des. 71,943; Feb. 1.
- Lens, Automobile lamp. C. A. Michel. 1,615,548; Jan. 25.
- Lens block. L. W. Bugbee, jr. 1,643,978; Oct. 4.
- Lens, Cemented objective, Spherically, chromatically, and astigmatismally corrected three. F. Urban. 1,641,402; Sept. 6.
- Lens clip. C. W. Dake. 1,616,306; Feb. 1.
- Lens cutter. A. E. Maynard. 1,614,078; Jan. 11.
- Lens cutter. A. E. Maynard. 1,621,331; Mar. 15.
- Lens-cutting machine. W. Schilder. 1,638,063; Aug. 9.
- Lens, Detachable antiglare. A. N. Quick. 1,620,589; Mar. 8.
- Lens, disk analyzer, Plural. C. F. Jenkins. 1,644,383; Oct. 4.
- Lens-ejecting machine. A. E. Maynard. 1,651,532; Dec. 6.

- Lens for eyeglasses, Auxiliary. J. A. Coats. 1,614,827; Jan. 18.
- Lens for identification, Marking fused bifocal. G. A. Clement. 1,627,148; May 3.
- Lens for vehicle headlights. W. A. Williams. 1,618,035; Feb. 15.
- Lens-frame measuring and expanding device. J. R. Van Tassel. 1,615,601; Jan. 25.
- Lens frame, Ophthalmic test-. C. M. Stevenson. 1,631,559; June 7.
- Lens frame, Separable vault-light. E. J. Alfieres. 1,626,063; Apr. 26.
- Lens frames for spectacles. E. E. Emons. Des. 73,074-6; July 19.
- Lens-grinding machine. L. W. Bugbee. 1,651,182; Nov. 29.
- Lens-grinding machine. E. P. Devine. 1,624,658; Apr. 12.
- Lens holder, Binocular-magnifying-. G. L. Tully. 1,635,062; July 5.
- Lens measure. A. E. Maynard. 1,637,024; July 26.
- Lens mounting for oculists and opticians, Trial-. G. S. Crampton. 1,626,869; May 3.
- Lens, Multifocal. E. D. Tillyer. 1,641,790; Sept. 6.
- Lens, Ophthalmic. L. L. Gagnon. 1,619,841; Mar. 1.
- Lens, Ophthalmic. E. D. Tillyer and H. R. Moulton. 1,644,798; Oct. 11.
- Lens, Shading. M. La Rocco. 1,640,661; Aug. 30.
- Lens supporting and retaining means. R. R. Freund. 1,622,437; Mar. 29.
- Lens testing instrument. L. H. Fisher. 1,622,776; Mar. 29.
- Lens, Vehicle light. O. Stenzel. 1,636,928; July 26.
- Lenses and making the same, Tool for treating ophthalmic. L. W. Bugbee and L. W. Bugbee, Jr. 1,651,181; Nov. 29.
- Lenses, Apparatus and process for producing ophthalmic. E. D. Tillyer. 1,630,724; May 31.
- Lenses, Machine for grinding. L. W. Bugbee. 1,630,253; May 31.
- Lenses, Making multifocal. F. Fraser. 1,637,021; July 26.
- Lenses, Method of and apparatus for producing bifocal. M. R. McDaniel. 1,633,117; June 21.
- Lenses, Producing monocular fused bifocal. M. A. Laabs. Re16,830; Dec. 27.
- Lenses, Producing monocular fused bifocal. M. A. Laabs. 1,630,706; May 31.
- Lenses, Tray for ophthalmic test. E. Linder. 1,647,922; Nov. 1.
- Let-off device. T. J. Garisio. 1,620,641; Mar. 15.
- Letter box and house number sign, Combination. C. F. Beck. Des. 73,476; Sept. 20.
- Letter box and milk-bottle holder, Combined. D. Bolzonetti. 1,632,020; June 14.
- Letter-box construction. C. C. Colby. 1,629,679; May 24.
- Letter-distributing system, Automatic. A. Torchia. 1,654,354; Dec. 27.
- Letter-franking machine. R. Mohn. 1,645,388; Oct. 11.
- Letter opener. F. E. Mason. 1,650,084; Nov. 22.
- Letter scale. C. Mahloy. 1,641,596; Sept. 6.
- Lettering device. P. Heinze. 1,632,968; June 21.
- Lettering press, Case-. W. A. Gunning and M. J. Shields. 1,614,064; Jan. 11.
- Letters or other mail to the prepayment machines, Mechanism for feeding the. W. Friedrichs. 1,637,253; July 26.
- Leucite and other sodium and potassium silicates with lime for the purpose of extracting potassium or sodium and aluminum values, Treatment of. F. Jourdan. 1,620,212; Mar. 8.
- Level. L. J. Barger. 1,618,262; Feb. 22.
- Level. L. B. Coryell. 1,635,034; July 5.
- Level. O. D. Hapgood. 1,624,339; Apr. 12.
- Level. W. W. Tlammis. 1,612,843; Jan. 4.
- Level and gauge, Combination track. C. S. Lusk. 1,633,535; June 21.
- Level and plumb, Combined. E. J. Elsas. 1,630,174; May 24.
- Level and slope indicator, Blade-grader. J. Rail. 1,625,683; Apr. 19.
- Level, Combination. E. W. Smith. 1,624,684; Apr. 12.
- Level, Illuminated. F. Erdmann. 1,654,248; Dec. 27.
- Level indicating and controlling means for liquid dispensers. J. J. Catron. 1,613,935; Jan. 11.
- Level indicator. E. P. Lewis and W. V. Thompson. 1,622,023; Dec. 27.
- Level, Reflecting. E. C. Hasemann. 1,653,398; Dec. 20.
- Level regulator, Gathering-pool. K. E. Peller. 1,646,705; Oct. 25.
- Level, Spirit. J. Day. 1,624,161; Apr. 12.
- Leveling and moving device, Hydraulic. G. E. Turner. 1,615,055; Jan. 18.
- Leveling device. J. C. Hansen, Jr. 1,627,175; May 3.
- Leveling device. S. Seiden and C. G. McBride. 1,632,383; June 14.
- Lever-actuating mechanism. J. M. Waddell. 1,644,763; Oct. 11.
- Lever lock. A. Meer. 1,628,731; May 17.
- Lever lock, Gear-shift-. E. R. Evans. 1,615,539; Jan. 25.
- Lever lock, Gear-shift-. E. Witte. 1,646,077; Oct. 18.
- Lever switches, Operating handle for. F. B. Hamblin. 1,653,043; Dec. 20.
- Lever-top can. R. O. Geary. 1,629,441; May 17.
- Lever, Uncoupling. C. M. Goldinger. 1,628,929; May 3.
- Lever, Uncoupling. C. W. Nicholas. 1,626,956; May 3.
- Levulose, Production of. W. C. Arsem. 1,616,166; Feb. 1.
- Library-stack construction, Mop mold for. H. W. Lombard. 1,628,043; Apr. 26.
- License-card holder. Automobile. R. E. Williams. 1,632,812; June 21.
- License holder. H. E. Butler. 1,620,798; Mar. 15.
- License indicator. H. O. Wiemann. Re16,583; Apr. 8.
- License plate. W. M. Johnson. Des. 72,154; Mar. 8.
- License-plate and identification-card holder, Combined. 1,633,414; June 21.
- License-plate fastener. O. E. Bogan. 1,640,106; Aug. 23.
- License-plate holder. I. J. Davis. 1,630,658; May 31.
- License-plate holder. H. Dube and R. X. Dupuis. 1,653,497; Dec. 20.
- License-plate holder. E. L. Etheridge. 1,643,580; Sept. 27.
- License-plate holder. F. J. Fearson. 1,644,423; Oct. 4.
- License-plate holder. M. E. Frasier. 1,652,664; Dec. 13.
- License-plate holder. F. Hallar and B. C. Long. 1,652,126; Dec. 6.
- License-plate holder. W. B. Langan. 1,650,454; Nov. 22.
- License plate, Illuminated. F. Haupt. 1,614,955; Jan. 18.
- License plate, Illuminated. E. Peters. 1,615,771; Jan. 25.
- License-plate unit. A. H. Humphrey. 1,621,411; Mar. 15.
- License plates, Frame for automobile. K. W. Collamore. 1,621,682; Mar. 22.
- License plates, Securing device for automobile. J. J. Brock. 1,616,437; Feb. 8.
- Lid and lifting device, Combination. M. Chovane. 1,624,926; Apr. 19.
- Lid, Leakless cream-can. M. E. Ricker. 1,618,730; Feb. 22.
- Lid, Safety. F. Obiol. 1,636,531; July 19.
- Lid support. A. Blair. 1,614,644; Jan. 18.
- Lid support. E. Haines. 1,619,573; Mar. 1.
- Lifeboat holding and launching mechanism. G. W. P. Overman. 1,635,860; July 12.
- Lifeboat securing and releasing mechanism. G. W. P. Overman. 1,631,053; May 31.
- Lifeboats, Drain device for. H. B. Hills. 1,623,727; Apr. 5.
- Life in living organisms in sealed containers and device therefor, Supporting. R. H. Wallace. 1,621,818; Mar. 22.
- Life preserver. J. McSherry. 1,618,347; Feb. 22.
- Life preserver. W. Wilson. 1,620,421; Mar. 8.
- Life-saving apparatus. M. C. Steese. 1,630,501; May 31.
- Life-saving apparatus, Mast or support for. F. Mayer. 1,615,128; Jan. 18.
- Life-saving device. C. J. Carey. 1,614,915; Jan. 18.
- Life-saving device. E. Karikas. 1,630,948; May 31.
- Life-saving device. J. Mandry. 1,613,279; June 7.
- Life-saving device for children. E. Karikas. 1,637,574; Aug. 2.
- Life-saving devices, Inflating apparatus for. R. H. Campbell. 1,621,458; Mar. 15.
- Lift jack, Double. J. W. Bate. 1,629,140; May 17.
- Lift jack, Single.
- Battery-terminal lifter. Sash lifter.
- Cream-can lifter. Type-frame lifter.
- Face lifter. Utensil lifter.
- Hot-dish lifter. Valve lifter.
- Jar lifter. Valve-spring lifter.
- Load lifter. Vine lifter.
- Fan lifter. Wheel lifter.
- Lifter. S. H. Williamson. 1,615,732; Jan. 25.
- Lifting and remover, Fan. W. Giles. 1,651,384; Dec. 6.
- Lifting and dumping body apparatus. E. R. Barrett. 1,650,815; Nov. 29.
- Lifting and hoisting device, Lineman's. S. P. Grant. 1,625,118; Apr. 19.
- Lifting car dumper. A. F. Case. 1,642,357; Sept. 13.
- Lifting device. J. J. Duckworth. 1,630,900; Aug. 9.
- Lifting device. J. W. Griffith. 1,613,929; Feb. 22.
- Lifting device. J. S. Walch. 1,628,084; May 10.
- Lifting device for covers. D. H. Chason. 1,622,307; Mar. 29.
- Lifting fork. W. W. Wallace. 1,651,791; Dec. 6.
- Lifting jack. I. E. Dearsley. 1,621,314; Mar. 15.
- Lifting jack. A. B. and A. H. Fee Hern. 1,652,821; Dec. 13.
- Lifting jack. F. L. Gormley. 1,615,268; Jan. 25.
- Lifting jack. C. G. Harris. 1,653,276; Dec. 20.
- Lifting jack. A. C. Hopkins. 1,652,406; Dec. 13.
- Lifting jack. I. V. K. Hott. 1,653,179; Dec. 20.
- Lifting jack. A. E. Lake. 1,647,049; Oct. 26.
- Lifting jack. A. S. Larson. 1,624,108; Apr. 12.
- Lifting jack. F. McCaughy. 1,653,729; Dec. 27.
- Lifting jack. L. D. Nilson. 1,619,304; Mar. 1.
- Lifting jack. L. D. Nilson. 1,627,526; May 3.
- Lifting jack. L. D. Nilson. 1,652,455; Dec. 13.
- Lifting jack. M. Pierce. 1,650,538-7; Nov. 22.
- Lifting jack. A. Reeves. Re16,806; Dec. 6.
- Lifting jack. W. G. Ritchie. 1,616,550; Feb. 8.
- Lifting jack. S. Santino. 1,651,559; Dec. 6.
- Lifting jack. B. W. Twyman. 1,614,579; Jan. 13.
- Lifting jack, Automobile. H. J. Schmitt and J. Little. 1,622,352; Mar. 29.
- Lifting mechanism. E. M. Cole. 1,627,956; May 10.
- Lifting mechanism. W. J. Conway. 1,649,574; Nov. 15.

- Lifting mechanism, Organized. R. L. Ramsey. 1,625,743; Apr. 19.
- Lifting or hoisting, Grab for. E. P. Jones and J. H. Middleton. 1,652,013; Dec. 6.
- Ligature-dispensing cap. A. D. Siewert. 1,614,260; Jan. 11.
- Light: See—
- Aisle light.
- Arc light.
- Automobile light.
- Automobile side light.
- Battery light.
- Catoptric light.
- Combination light.
- Cowl light.
- Dental light.
- Dome light.
- Electric light.
- Light. F. L. Bamford. 1,652,192; Dec. 13.
- Light. F. P. Drohan. 1,622,187; Mar. 22.
- Light accelerator or switch. A. M. Kelso. 1,636,567; July 19.
- Light and clear lighter, Combined trouble. H. C. Liebing. 1,640,507; Aug. 30.
- Light and control therefor. E. P. Hannig. 1,641,167; Sept. 6.
- Light and music, Associating. M. H. Greenewalt. Re16,825; Dec. 20.
- Light aperture and making the same, Narrow. J. T. Tschopp. 1,618,117; Feb. 15.
- Light aperture, Narrow. C. A. Hoxie. 1,646,249; Oct. 18.
- Light attachment, Kromayer. F. G. Vernon. 1,616,722; Feb. 8.
- Light bezel, Dome. A. L. Knapp. Des. 73,383; Aug. 30.
- Light bracket fixture, Single electric. C. B. Rogers. Des. 72,528; Apr. 26.
- Light bracket fixture, Twin electric. C. B. Rogers. Des. 72,529; Apr. 26.
- Light control. W. H. Williams. 1,628,567; May 10.
- Light-control switch. H. R. Davies. 1,618,816; Feb. 22.
- Light-control system. E. W. Archer. 1,627,474; May 3.
- Light deflector, Automobile. M. H. Kern. 1,628,152; May 10.
- Light fixture, Beam. S. Airo. Des. 72,125; Mar. 8.
- Light fixture, Electric. W. P. Crockett. 1,629,613; May 24.
- Light fixture, Electric. C. W. Logan. Des. 71,983; Feb. 8.
- Light fixture, Electric. J. Markel. 1,653,810; Dec. 27.
- Light fixtures, Arm for electric. C. W. Logan. Des. 73,410; Sept. 6.
- Light fixtures, Wall plate for electric. C. W. Logan. Des. 73,529; Sept. 27.
- Light fixtures, Wall plate for electric. F. Yokel. Des. 73,418; Sept. 6.
- Light globe, Electric. J. C. Smith. Des. 71,933; Jan. 25.
- Light-globe protector. L. Bennett. 1,636,950; July 26.
- Light-holding means, Adjustable. D. D. Gordon and W. Lindsay. 1,646,527; Oct. 18.
- Light, mail box, and house number, Combined outside. H. Lodge. 1,616,269; Feb. 1.
- Light-modulating device. H. Vogt, J. Engl, and J. Massolle. 1,650,166; Nov. 22.
- Light-operated controlling apparatus. G. V. Karlson. 1,641,170; Sept. 6.
- Light plug, Automobile. F. E. Shaffer. 1,641,870; Sept. 6.
- Light plug, Marker. A. E. Volgt. 1,651,489; Dec. 6.
- Light-projecting apparatus. W. A. Pennow and R. S. Haynes. 1,615,552; Jan. 25.
- Light-projecting apparatus. A. F. Pieper. 1,646,557; Oct. 25.
- Light-projecting device. H. R. Zimmerman. 1,633,838; June 28.
- Light projector. C. F. Berthelsen. 1,625,763; Apr. 19.
- Light projector. H. Eckschlagner. 1,654,243; Dec. 27.
- Light projector. F. G. Young, Jr. 1,642,187; Sept. 13.
- Light projector using Fresnel lens. J. T. Beechlyn. 1,650,591; Nov. 29.
- Light-screen-filtering screen. W. J. La Tourrette. 1,635,367; July 12.
- Light rays upon light-sensitive elements, Directing. C. W. Hough. 1,646,292; Oct. 18.
- Light-reactive apparatus. T. W. Case. 1,625,409; Apr. 19.
- Light reflecting means. C. B. Roebken. 1,621,029; Mar. 15.
- Light reflector. A. S. Crandall. 1,621,312; Mar. 15.
- Light-resistant lithopone, Producing. J. E. Booge. 1,617,311; Feb. 8.
- Light shade or similar article. F. W. Stewart. Des. 72,457; Apr. 12.
- Light shade or similar article. S. D. Wilson. Des. 72,922; June 21.
- Light signal. O. S. Field. 1,638,625; Aug. 9.
- Light signal. J. S. Hobson. 1,644,834; Oct. 11.
- Light support. H. J. Bosworth. 1,644,231; Oct. 4.
- Light support. E. J. Jakubak. 1,643,455; Sept. 27.
- Light switch, Stair-controlled electric. H. E. Billerbeck. 1,618,075; Jan. 4.
- Light system, Reserve. G. W. Ziska. 1,648,571; Nov. 8.
- Light treatment of tubes and cavities in the body, Device for. G. Loock. 1,643,719; Sept. 27.
- Light variations into electrical currents, Device for conversion of. A. Poulsen and A. C. G. Peterson. 1,650,092; Nov. 22.
- Lighter. C. E. McManaman. 1,621,373; Mar. 15.
- Lighter, Electric cigar. J. R. O'Neill. 1,617,344; Feb. 15.
- Lighter, Electric cigarette. S. Wagner. 1,653,751; Dec. 27.
- Lighter for cigars and the like. R. O. Hammond. 1,620,548; Mar. 8.
- Lighter, Heater. F. A. Gauger and R. W. Johnson. 1,652,524; Dec. 13.
- Lighter, Portable. W. A. Guhman. 1,621,534; Mar. 22.
- Lighting and ignition apparatus. J. H. Hunt and J. T. Fitzsimmons. 1,641,434; Sept. 6.
- Lighting and ignition magneto. J. H. Hunt. 1,638,307; Aug. 9.
- Lighting and ignition system. J. H. Hunt. 1,641,433; Sept. 6.
- Lighting and ignition switch. E. A. Bohlman. 1,618,802; Feb. 22.
- Lighting and ignition switch, Combined. H. A. Douglas. 1,622,706-7; Mar. 29.
- Lighting apparatus. S. F. Arbuckle. 1,622,938; Mar. 29.
- Lighting apparatus. L. X. Champeau. 1,652,347; Dec. 13.
- Lighting apparatus. F. W. Christy. 1,643,697; Sept. 27.
- Lighting apparatus. R. Kadowaki. 1,616,579; Feb. 8.
- Lighting apparatus. G. Markovitch. 1,648,235; Nov. 8.
- Lighting apparatus. L. Schepmoes. 1,652,416; Dec. 13.
- Lighting apparatus. J. Goldstone and R. C. Entwistle. 1,614,357; Jan. 18.
- Lighting bowl. C. B. MacDougall. Des. 71,843; Jan. 11.
- Lighting bracket. G. L. Miller. Des. 73,618; Oct. 11.
- Lighting circuit. R. G. McCurdy. 1,644,024; Oct. 4.
- Lighting device. I. H. Cohen. 1,632,173; June 14.
- Lighting device. O. J. Leins. 1,642,373; Sept. 13.
- Lighting device, Decorative. J. G. Baldwin. Des. 72,690; May 24.
- Lighting effects, Apparatus and method for producing novel. N. Sulzberger. 1,617,425; Feb. 15.
- Lighting equipment. W. H. Spencer. 1,651,640; Dec. 6.
- Lighting equipment, Street. D. B. Hanna. 1,624,237; Apr. 12.
- Lighting fixture. H. Aglow. Des. 72,055; Feb. 22.
- Lighting fixture. F. A. Bakula. Des. 73,887-8; Nov. 22.
- Lighting fixture. J. M. Bartkowak. 1,614,591; Jan. 18.
- Lighting fixture. M. Block. Des. 73,555; Oct. 4.
- Lighting fixture. L. C. Doane. 1,654,162; Dec. 27.
- Lighting fixture. A. Dvorak. 1,619,061; Mar. 1.
- Lighting fixture. A. Dvorak. 1,629,489; May 24.
- Lighting fixture. S. Edelman. Des. 71,828; Jan. 11.
- Lighting fixture. H. A. Framburg. 1,647,288; Nov. 1.
- Lighting fixture. R. M. Graves and E. R. D'Olive. 1,636,414; July 19.
- Lighting fixture. E. F. Guth. Des. 73,518; Sept. 27.
- Lighting fixture. E. F. Guth. Des. 73,975; Nov. 29.
- Lighting fixture. E. F. Guth. 1,620,963; Mar. 15.
- Lighting fixture. H. E. Kaden. Des. 72,155; Mar. 8.
- Lighting fixture. W. R. Kahns and K. Keller. 1,639,508; Aug. 16.
- Lighting fixture. M. Klein. Des. 72,839; June 14.
- Lighting fixture. M. Klein. Des. 72,843; June 14.
- Lighting fixture. M. Klein. Des. 72,854-5; June 14.
- Lighting fixture. N. Lipsky. Des. 73,002; July 5.
- Lighting fixture. J. S. Moore. Des. 72,909; June 21.
- Lighting fixture. T. J. Nelson. Des. 73,235; Aug. 9.
- Lighting fixture. A. J. D. Ohm. Des. 73,980-2; Nov. 29.
- Lighting fixture. J. K. Riddle. 1,625,626; Apr. 19.
- Lighting fixture. G. P. Robinson and W. T. Blackwell. 1,627,461; May 3.
- Lighting fixture. E. Samelson. 1,615,043; Jan. 18.
- Lighting fixture. E. T. Samuelson. 1,646,495; Oct. 25.
- Lighting fixture. R. W. Schweiker. 1,642,429; Sept. 13.
- Lighting fixture. R. W. Schweiker. 1,649,422; Nov. 15.
- Lighting fixture. E. O. Schweitzer. 1,653,671; Dec. 27.
- Lighting fixture. S. Shapiro. 1,634,561; July 5.
- Lighting fixture. T. Shapiro. Des. 73,239-44; Aug. 9.
- Lighting fixture. H. Shardlow. Des. 73,270; Aug. 16.
- Lighting fixture. H. Shardlow. Des. 73,345; Aug. 23.
- Lighting fixture. H. Shardlow. Des. 73,372; Nov. 15.
- Lighting fixture. W. H. Spencer. 1,622,548; Mar. 22.
- Lighting fixture. O. H. Van Amburg. 1,614,163; Jan. 11.
- Lighting fixture. W. Von Nessen. Des. 73,882; Nov. 15.
- Lighting fixture. F. Wagner. Des. 74,129; Dec. 20.
- Lighting fixture. F. W. Wakefield. L. B. Basil, and C. A. Schroeder. 1,620,306; Mar. 8.
- Lighting fixture. J. Williamson. 1,624,299; Apr. 12.
- Lighting fixture. J. Williamson. 1,647,946-7; Nov. 1.
- Lighting fixture. C. G. Wing. Des. 73,895; Aug. 30.
- Lighting fixture. H. H. Wolter. Des. 72,401-2; Apr. 5.
- Lighting fixture. H. H. Wolter. Des. 73,512; Sept. 20.
- Lighting fixture. J. Zweig. Des. 72,538; Apr. 26.
- Lighting fixture, arm. A. P. Seidel. Des. 72,631; Apr. 12.
- Lighting-fixture backplate. H. Aglow. Des. 72,054; Feb. 22.
- Lighting-fixture backplate. H. Aglow. Des. 72,078; Jan. 11.
- Lighting-fixture backplate. L. A. Crumley. Des. 72,354; Apr. 5.
- Lighting-fixture backplate. G. Rabinowitz. Des. 72,238; Mar. 15.
- Lighting-fixture backplate. A. P. Seidel. Des. 72,727-8; May 24.

- Lighting-fixture backplate or analogous article. J. Horowitz. Des. 73,569; Oct. 4.
- Lighting-fixture backplate or analogous article. I. Levy. Des. 73,572; Oct. 4.
- Lighting-fixture banding, Gothic-effect. H. R. Holdeman. Des. 73,913; Nov. 22.
- Lighting-fixture body. M. Schlepp. Des. 74,027; Dec. 6.
- Lighting-fixture bracket. P. I. Ansofrage. Des. 71,819; Mar. 1.
- Lighting-fixture bracket. R. S. Bardwell. Des. 73,156; Aug. 2.
- Lighting-fixture bracket. H. Bohl. Des. 71,776; Jan. 4.
- Lighting-fixture bracket. H. Bohl. Des. 72,087; Feb. 22.
- Lighting-fixture bracket. H. Bohl. Des. 72,084; Mar. 1.
- Lighting-fixture bracket. P. Cricchio. Des. 71,956; Feb. 8.
- Lighting-fixture bracket. L. A. Crumley. Des. 72,350; Apr. 5.
- Lighting-fixture bracket. L. A. Crumley. Des. 72,352; Apr. 5.
- Lighting-fixture bracket. H. Finch. Des. 72,824; June 14.
- Lighting-fixture bracket. H. Shardlow. Des. 72,456; Apr. 12.
- Lighting-fixture bracket. H. Shardlow. Des. 73,674; Oct. 18.
- Lighting-fixture bracket. H. Shardlow. Des. 74,156; Dec. 27.
- Lighting-fixture bracket or article of similar nature. T. J. Petersen. Des. 72,110; Mar. 1.
- Lighting-fixture bracket or article of similar nature. T. J. Petersen. Des. 73,195; Aug. 2.
- Lighting-fixture bracket or article of similar nature. G. E. Villaret. Des. 72,741; May 24.
- Lighting-fixture canopy. J. Knierlem. Des. 72,018; Feb. 15.
- Lighting-fixture canopy. M. Schlepp. Des. 73,390; Aug. 30.
- Lighting-fixture canopy or analogous article. J. F. Hurd. Des. 73,037; July 12.
- Lighting-fixture, Ceiling. A. Krause. Des. 74,058; Dec. 13.
- Lighting-fixture, Christmas decorative. H. M. R. Dam. Des. 72,937-39; June 28.
- Lighting-fixture, Electric. T. F. Bennett. 1,643,940; Oct. 4.
- Lighting-fixture, Electric. G. A. Boomer. 1,633,309; June 21.
- Lighting-fixture, Electric. A. Cooper. Des. 72,510; Apr. 26.
- Lighting-fixture, Electric. H. Friedman. Des. 71,867-9; Jan. 18.
- Lighting-fixture, Electric. M. Levitan. Des. 71,806; Jan. 4.
- Lighting-fixture, Electric. E. C. White. 1,622,934; Mar. 29.
- Lighting-fixture for ceilings, Electric. M. Levitan. Des. 71,805; Jan. 4.
- Lighting-fixture husk or similar article. A. P. Seidell. Des. 72,450; Apr. 12.
- Lighting-fixture loop or analogous article. J. F. Hurd. Des. 73,034; July 12.
- Lighting-fixture or article of similar nature. G. E. Villaret. Des. 73,723; Oct. 25.
- Lighting-fixture or similar article, Decorative metal panel for an electric. G. E. McFadden. Des. 73,857; Nov. 15.
- Lighting-fixture or similar article, Fixture body for. G. E. Villaret. Des. 72,046; May 10.
- Lighting-fixture or similar article, Wall bracket back for an electric. G. E. McFadden. Des. 73,858; Nov. 15.
- Lighting-fixture or similar article, Wall bracket for an electric. G. E. McFadden. Des. 73,856; Nov. 15.
- Lighting-fixture or the like, Arm for. M. Peinlich. Des. 72,912; June 21.
- Lighting-fixture or the like, Arm for a. M. Peinlich. Des. 72,501; June 7.
- Lighting-fixture or the like, Backplate for a. M. Peinlich. Des. 72,911; June 21.
- Lighting-fixture ornament, Gothic-effect. H. R. Holdeman. Des. 73,484; Sept. 13.
- Lighting-fixture ornament, Italian-effect. H. R. Holdeman. Des. 73,435; Sept. 13.
- Lighting-fixture ornament, Scroll-effect. H. R. Holdeman. Des. 73,522; Sept. 27.
- Lighting-fixture, Panel for a. G. E. Villaret. Des. 73,112; July 19.
- Lighting-fixture panel, Italian-effect. H. R. Holdeman. Des. 71,832; Jan. 11.
- Lighting-fixture panel, Spanish-effect. H. R. Holdeman. Des. 71,833; Jan. 11.
- Lighting-fixture part. P. Cricchio. Des. 72,308; Mar. 29.
- Lighting-fixture part. J. Knierlem. Des. 71,981; Feb. 8.
- Lighting-fixture part or analogous article. J. Horowitz. Des. 73,568; Oct. 4.
- Lighting-fixture part or analogous article. J. Novin. Des. 74,070; Dec. 13.
- Lighting-fixture plate. L. A. Crumley. Des. 72,762; May 31.
- Lighting-fixture plate. J. Knierlem. Des. 73,040-2; July 12.
- Lighting-fixture plate. A. P. Seidell. Des. 72,454; Apr. 12.
- Lighting-fixture plate. F. H. Trimble. Des. 72,042; Feb. 15.
- Lighting-fixture plate, Italian effect. H. R. Holdeman. Des. 73,436; Sept. 13.
- Lighting-fixture ring. G. E. Villaret. Des. 71,888; Jan. 18.
- Lighting-fixture ring and support, Combined. H. H. Wolter. Des. 73,632; Oct. 11.
- Lighting-fixture ring, Italian-effect. H. R. Holdeman. Des. 73,523; Sept. 27.
- Lighting-fixture rosette. M. Schlepp. Des. 73,843; Aug. 23.
- Lighting-fixture shield, Italian-effect. H. R. Holdeman. Des. 73,520-1; Sept. 27.
- Lighting-fixture, Show-case. R. B. Benjamin. 1,639,127; Aug. 16.
- Lighting-fixture, Side-wall. R. W. Schweiker. Des. 72,684; May 17.
- Lighting-fixture, Spreader for a. J. A. Boehringer. Des. 72,765; May 31.
- Lighting-fixture strap. M. Brown. Des. 72,471; Apr. 19.
- Lighting-fixture strap. L. A. Crumley. Des. 72,351; Apr. 5.
- Lighting-fixture strap. L. A. Crumley. Des. 72,353; Apr. 5.
- Lighting-fixture strap. M. Jonick. Des. 72,318; Mar. 29.
- Lighting-fixture strap. M. Jonick. Des. 72,710; May 24.
- Lighting-fixture strap or analogous article. M. Peinlich. Des. 73,508; Sept. 20.
- Lighting-fixture support. E. Larson. Des. 73,262; Aug. 16.
- Lighting-fixture tassel or analogous article. J. F. Hurd. Des. 73,035; July 12.
- Lighting-fixture, Wall. A. Krause. Des. 74,062-3; Dec. 13.
- Lighting-fixture, Wall. E. J. Mayberg. Des. 71,883; Jan. 18.
- Lighting-fixture, Wall-bracket. M. Baum. Des. 73,819-20; Nov. 15.
- Lighting-fixture wall bracket. T. Dahl. Des. 74,100; Dec. 20.
- Lighting-fixture wall bracket. M. Jonick. Des. 72,711; May 24.
- Lighting-fixture wall bracket back. R. S. Aspinwall. Des. 71,820; Jan. 11.
- Lighting-fixture, Wall bracket for a. S. Airo. Des. 71,897; Jan. 25.
- Lighting-fixture, H. D'Oller, jr. 1,613,025; Jan. 4.
- Lighting-fixture, Adapter for. G. E. Villaret. Des. 73,580; Oct. 4.
- Lighting-fixture, Anchoring means for. W. A. Harvey. 1,613,169; Jan. 4.
- Lighting-fixture, Arm for. L. A. Crumley. Des. 72,761; May 31.
- Lighting-fixture, Arm for. M. Klein. Des. 72,833; June 14.
- Lighting-fixture, Arm for. M. Klein. Des. 72,844; June 14.
- Lighting-fixture, Arm for. D. E. Lindsay. Des. 73,934; Nov. 22.
- Lighting-fixture, Attaching bracket for. R. W. Schweiker. 1,632,510; June 14.
- Lighting-fixture, Backplate for. J. F. Hurd. Des. 72,836; July 12.
- Lighting-fixture, Backplate for. A. P. Seidell. Des. 72,453; Apr. 12.
- Lighting-fixture, Backplate for. H. H. Wolter. Des. 72,461; Apr. 12.
- Lighting-fixture, Backplate for. H. H. Wolter. Des. 73,732; Oct. 25.
- Lighting-fixture, Banding for. W. W. Kantack. Des. 73,084-5; July 19.
- Lighting-fixture, Bobèche for. G. E. Villaret. Des. 73,454; Sept. 13.
- Lighting-fixture, Bowl-supporting means for. E. F. Guth. 1,630,004; May 24.
- Lighting-fixture, Bracket back for. E. F. Guth. Des. 73,831; Nov. 15.
- Lighting-fixture, Bracket back for. L. J. Horowitz. Des. 72,014; Feb. 15.
- Lighting-fixture, Bracket back for. M. Klein. Des. 72,836; June 14.
- Lighting-fixture, Bracket back for. M. Klein. Des. 72,838; June 14.
- Lighting-fixture, Bracket back for. M. Klein. Des. 72,841-2; June 14.
- Lighting-fixture, Bracket back for. M. Klein. Des. 72,847; June 14.
- Lighting-fixture, Bracket back for. M. Klein. Des. 72,849; June 14.
- Lighting-fixture, Bracket back for. D. E. Lindsay. Des. 73,932-3; Nov. 22.
- Lighting-fixture, Bracket back for. D. E. Lindsay. Des. 73,935-6; Nov. 22.
- Lighting-fixture, Bracket back for. G. E. Villaret. Des. 72,919; June 21.
- Lighting-fixture, Bracket back for. G. E. Villaret. Des. 73,015; July 5.
- Lighting-fixture, Bracket back for. G. E. Villaret. Des. 73,151; July 26.
- Lighting-fixture, Bracket back for. L. R. Wellman. Des. 73,545; Sept. 27.
- Lighting-fixture, Bridge arm for. H. Abrams. Des. 73,633; Oct. 18.
- Lighting-fixture, Canopy for. W. W. Kantack. Des. 71,977; Feb. 8.

- Lighting fixtures, Canopy for. M. Klein. Des. 72,834; June 14.
- Lighting fixtures, Canopy for. G. E. Villaret. Des. 73,453; Sept. 13.
- Lighting fixtures, Canopy for electric. J. A. Boehringer. Des. 72,788; June 7.
- Lighting fixtures, Ceiling plate for. J. A. Boehringer. Des. 72,813; June 14.
- Lighting fixtures, Column for. H. Abrams. Des. 73,018-21; July 12.
- Lighting fixtures, Final for. J. A. Boehringer. Des. 72,978-7; July 5.
- Lighting fixtures, Globe for. J. L. Jaffe. Des. 73,916; Nov. 22.
- Lighting fixtures, Globe for. W. Klehr. Des. 71,802; Jan. 4.
- Lighting fixtures, Globe for. R. V. Owen. Des. 73,538; Sept. 27.
- Lighting fixtures, Globe for. R. V. Owen. Des. 73,862-4; Nov. 15.
- Lighting fixtures, Loop for. J. A. Boehringer. Des. 72,814-15; June 14.
- Lighting fixtures, Loop for. J. Kuleriem. Des. 71,982; Feb. 8.
- Lighting fixtures or similar articles, Adapter for. G. E. Villaret. Des. 72,645; May 10.
- Lighting fixtures or similar articles, Arm for. G. E. Villaret. Des. 72,535; Apr. 26.
- Lighting fixtures or similar articles, Arm for. C. G. Wing. Des. 72,810; June 7.
- Lighting fixtures or similar articles, Backplate for bracket. G. E. Villaret. Des. 72,534; Apr. 26.
- Lighting fixtures or similar articles, Body frame for. J. A. Boehringer. Des. 72,979; July 5.
- Lighting fixtures or similar articles, Canopy ring for. G. E. Villaret. Des. 72,647; May 10.
- Lighting fixtures or similar articles, Escutcheon plate for. G. E. Villaret. Des. 72,536; Apr. 26.
- Lighting fixtures or similar articles, Loop for. I. E. Levinson. Des. 73,926-9; Nov. 22.
- Lighting fixtures or similar articles, Shield for. J. A. Boehringer. Des. 73,158-60; Aug. 2.
- Lighting fixtures or similar articles, Strap for. J. A. Boehringer. Des. 72,980; July 5.
- Lighting fixtures or similar articles, Strap for. J. A. Boehringer. Des. 73,480; Sept. 20.
- Lighting fixtures or the like, Ornamental attachment for. A. Bloch. Des. 1,623,030; Mar. 29.
- Lighting fixtures, Pedestal for. O. B. Bach. Des. 73,992; Dec. 6.
- Lighting fixtures, Pendant for. J. A. Boehringer. Des. 72,758; May 31.
- Lighting fixtures, Plate for. N. I. Berger. Des. 73,823; Nov. 15.
- Lighting fixtures, Plate for. F. S. Crowell. Des. 72,002; Feb. 15.
- Lighting fixtures, Plate for. W. W. Kantack. Des. 71,979; Feb. 8.
- Lighting fixtures, Plate for. M. Klein. Des. 72,845; June 14.
- Lighting fixtures, Plate for. L. R. Wellman. Des. 73,726; Oct. 25.
- Lighting fixtures, Scroll arm for electric. M. Levitan. Des. 71,804; Jan. 4.
- Lighting fixtures, Spindle for. W. Block. Des. 72,079; Mar. 1.
- Lighting fixtures, Spindle for. W. W. Kantack. Des. 71,980; Feb. 8.
- Lighting fixtures, Spindle for. L. Vivirito. Des. 71,890; Jan. 18.
- Lighting fixtures, Spindle for. L. Vivirito. Des. 71,892; Jan. 18.
- Lighting fixtures, Strap for. M. Baum. Des. 73,822; Nov. 15.
- Lighting fixtures, Suspending device for. P. M. Hotchkiss. Des. 1,630,745; May 31.
- Lighting fixtures, Wall bracket for. H. H. Wolter. Des. 72,460; Apr. 12.
- Lighting fixtures, Wall bracket for. H. H. Wolter. Des. 72,462-4; Apr. 12.
- Lighting fixtures, Wall plate for. W. W. Kantack. Des. 71,978; Feb. 8.
- Lighting means. G. H. Hamilton. Des. 1,613,793; Jan. 11.
- Lighting outfit, Decorative. V. M. Moutsinger. Des. 1,637,048; July 26.
- Lighting post. W. Underwood. Des. 73,348; Aug. 23.
- Lighting post. W. Underwood. Des. 73,952; Nov. 22.
- Lighting post, Street. W. Underwood. Des. 71,856; Jan. 1.
- Lighting posts, Capital for. W. Underwood. Des. 73,719; Oct. 25.
- Lighting, Process and apparatus for. N. Sulzberger. Des. 1,636,970; July 26.
- Lighting standard. H. Barschat. Des. 72,558; May 10.
- Lighting standard. W. Underwood. Des. 71,855; Jan. 11.
- Lighting standard capital. H. Barschat. Des. 72,584-7; May 10.
- Lighting switch, Time-controlled. B. A. Taronino. Des. 1,638,604; Aug. 9.
- Lighting system and apparatus therefor, Highway. R. de la Lama. Des. 1,635,611; July 12.
- Lighting system and switch mechanism therefor, Automobile. P. H. Burkhardt and W. L. Bayne. Des. 1,620,187; Mar. 8.
- Lighting system, Exit. R. T. Williams. Des. 1,650,676; Nov. 29.
- Lighting system, Miniature-stage. G. L. Hall. Des. 1,621,248; Mar. 15.
- Lighting system, Street-. W. Van Alen. Des. 1,646,045; Oct. 18.
- Lighting system switch. W. W. Woodroof. Des. 1,636,347; July 19.
- Lighting the landing place from aerial craft, Apparatus for. M. Künzer. Des. 1,621,421; Mar. 15.
- Lighting unit. L. C. Doane. Des. 1,612,856; Jan. 4.
- Lighting unit. C. A. B. Halvorson, jr. Des. 1,631,632; June 7.
- Lighting unit. C. A. B. Halvorson, jr. Des. 1,640,448; July 30.
- Lighting unit, Flood-. C. A. B. Halvorson, jr. Des. 1,614,122; Jan. 11.
- Lighting unit, Highway. R. B. Benjamin. Des. 1,622,272; Mar. 29.
- Lighting wall fixture, Electric. M. Levitan. Des. 72,375; Apr. 5.
- Lighting wall fixture or similar article, Electric. G. E. McFadden. Des. 73,859; Nov. 15.
- Lights, System of guide. J. H. Hammond, jr. Des. 1,621,878; Mar. 22.
- Lighting arrester. A. L. Atherton. Des. 1,651,360; Dec. 6.
- Lighting arrester. L. W. Evans. Des. 1,651,876; Dec. 6.
- Lighting arrester. L. R. Golladay and I. R. Smith. Des. 1,642,240; Sept. 13.
- Lighting arrester. F. J. Skoner. Des. 1,652,913; Dec. 13.
- Lighting-arrester connection. A. L. Atherton. Des. 1,636,544; July 19.
- Lighting-arrester system. H. Heese. Des. 1,633,098; June 21.
- Lighting arresters. Casing for. L. R. Golladay. Des. 1,652,990; Dec. 13.
- Lighting arresters, Indicating device for. L. R. Golladay. Des. 1,642,239; Sept. 13.
- Lighting protection, System of. E. C. van Diest and F. Gilling. Des. 1,617,691; Feb. 15.
- Lighting rod. A. G. Hoovens. Des. 1,616,801; Feb. 8.
- Lighting-rod connector. B. C. Burkett. Des. 1,626,180; Apr. 26.
- Lighting-rod support. A. G. Hoovens. Des. 1,649,647; Nov. 15.
- Limb and making same, Artificial. E. R. Williams. Des. 1,646,463; Oct. 25.
- Limb, Artificial. G. H. Shrodes. Des. 1,617,925-6; Feb. 15.
- Limb, Artificial. H. M. Witmyer. Des. 1,649,773; Nov. 15.
- Limbs, Apparatus for measuring. A. Thiel and W. Schmidt. Des. 1,622,890; Mar. 29.
- Limbs, Joint for elbows and knees of artificial. C. G. Hoare. Des. 1,644,833; Oct. 11.
- Lime and making the same, Insect. A. Biddle. Des. 1,624,089; Apr. 12.
- Lime hydrate, Producing improved. W. K. Hunter. Des. 1,634,424; July 5.
- Lime, Hydration of. H. Dittlinger. Des. 1,640,602; Aug. 30.
- Limekiln and method of burning lime. A. E. Truesdell. Des. 1,627,215; May 3.
- Lime, nitrogen, Treatment of. J. M. A. Stillesen. Des. 1,633,200; June 21.
- Lime, Producing hydrated. W. E. Carson. Des. 1,613,341; Jan. 4.
- Lime-sludge product and making the same. C. J. Herry. Des. 1,635,212; July 12.
- Lime spreader. F. B. Niekans. Des. 1,643,748; Sept. 27.
- Lime spreader. G. F. Pfeiffer. Des. 1,614,152; Jan. 11.
- Limit gauge, Adjustable. A. J. C. Brookes. Des. 1,627,146; May 8.
- Limit pin gauge, Adjustable. E. H. Aldeborgh. Des. 1,636,543; July 19.
- Limit switch. C. H. Beckwith. Des. 1,646,080; Oct. 18.
- Limit switch. W. D. Smith. Des. 1,641,647; Sept. 6.
- Limiting device, Voltage-. G. T. Loran. Des. 1,654,085; Dec. 27.
- Linear measuring device. M. King, jr. Des. 1,616,499; Feb. 8.
- Line, Artificial. W. Deutschmann. Des. 1,647,985; Nov. 8.
- Line attachment. F. B. Carland. Des. 1,637,174; July 26.
- Line-casting machine. W. Buswell. Des. 1,651,993; Dec. 6.
- Line-casting machine. I. T. Remas. Des. 1,632,350; June 14.
- Line-casting machines, Assembler-slide adjustment for. T. S. Homans. Des. 1,648,847; Nov. 8.
- Line-chalking device. W. S. Myers. Des. 1,632,711; June 14.
- Line clamp. V. De Meo. Des. 1,628,235; May 10.
- Line connection. J. P. A. Trapp. Des. 1,622,070; Mar. 22.
- Line control. A. W. Posey. Des. 1,649,184; Nov. 15.
- Line cutter. B. A. Wheaton. Des. 1,616,424; Feb. 1.
- Line drive and clutch control. H. Eiss. Des. 1,643,240; Sept. 20.
- Line guide, Automatic. F. E. Comstock. Des. 1,614,104; Jan. 19.
- Line holder. W. F. Polson. Des. 1,634,436; July 5.
- Line reel and pin. W. G. Elder. Des. 1,630,475; May 31.
- Line-spacing mechanism. H. A. Footthorp. Des. 1,638,191; Aug. 9.
- Line-splicing device. P. H. Lettré. Des. 1,622,324; Mar. 29.
- Line spooler. A. J. Graham and L. O. Tekell. Des. 1,624,232; Apr. 12.
- Line tightener. M. A. Alfano and S. Bohenek. Des. 1,646,336; Oct. 18.
- Line trip or slug guide. H. H. Coghill. Des. 1,616,888; Feb. 8.
- Line, Trip. B. Talbot. Des. 1,644,361; Oct. 4.
- Liner. A. E. Scheetz. Des. 1,630,138; May 24.
- Liner. D. Thatcher. Des. 1,614,326; Jan. 11.
- Liner for metal caps. T. L. Taliaferro. Des. 1,618,490; Feb. 22.
- Liner puller. R. W. Donowho and H. M. Ballweber. Des. 1,640,489; Aug. 30.

- Liner puller. R. F. Maxwell. 1,650,023; Nov. 22.
 Liner safety. Automatic. B. A. Mills. 1,642,590; Sept. 13.
 Liner, Track. C. A. Disbrow. 1,642,334; Sept. 13.
 Liners for metal caps for containers, Forming. T. L. Tallaferro. 1,618,491; Feb. 22.
 Lining. Guard. W. Saranchuk. 1,618,356; Feb. 22.
 Lining. S. B. Waxman. 1,647,761; Nov. 1.
 Lining and forming same, Friction. T. L. Gatke. 1,626,403; Apr. 26.
 Lining brakes and clutches, Machine for. J. B. Hird. 1,633,018; June 21.
 Lining Coat. D. H. Hoders. 1,640,501; Aug. 30.
 Lining material to covers, Apparatus for applying. B. Dewey and T. T. Miller. 1,623,529; Apr. 5.
 Lining-trimming machine. C. C. Webster. 1,629,560; May 24.
 Lining water courses and lining therefor. H. H. Fisher and W. B. Rittenhouse. 1,630,839; May 31.
 Lingerie - fastening device. M. E. Mickleborough. 1,635,333; July 12.
 Lingerie-strap holder. E. M. and M. Pollock. 1,620,228; Mar. 8.
 Lingerie and Dress cap, Combination. A. Goulden. 1,651,595; Dec. 6.
 Lingerie clasp. R. E. Denman. 1,619,242; Mar. 1.
 Lingerie clasp. E. M. Fletcher. 1,628,962; May 17.
 Lingual bar. J. F. Hoover. 1,615,191; Jan. 18.
 Lingual bar. E. H. Pfeil. 1,654,469; Dec. 27.
 Link bracelet, Expansive. W. C. Boots. 1,631,946; June 7.
 Link coupler. G. W. Graser. 1,630,486; May 31.
 Link, Detachable. A. H. Beck and E. S. Mix. 1,642,322; Sept. 13.
 Link, Detachable. T. C. Black. 1,646,135; Oct. 18.
 Link, Drawhead and coupling. R. Nash. 1,650,533; Nov. 22.
 Link-drive mechanism. C. N. F. Knapè. 1,640,548; Aug. 30.
 Link, Elastic. G. Constantinesco. 1,642,602; Sept. 13.
 Link-forming device. W. F. Wenlinger. 1,629,751; May 24.
 Link, Fusible. W. Grimshaw. 1,613,453; Jan. 4.
 Link, Fusible. A. C. Rowley. 1,622,054; Mar. 22.
 Link, Interlocking. S. J. Bens. 1,634,643; July 5.
 Link, Locking open. G. B. Ludy. 1,647,140; Nov. 1.
 Link mesh, Machine for making. R. H. Berkley. 1,613,376; Jan. 4.
 Link or strut, Fusible. C. F. Peckham. 1,613,479; Jan. 4.
 Link, Repair. S. F. Swoope. 1,631,346; June 7.
 Link, Safety connecting. O. C. Staples. 1,616,766; Feb. 8.
 Link, Tire-chain. C. S. Barrell. 1,644,627; Oct. 4.
 Linking device. A. Mirra. 1,642,969; Sept. 20.
 Links, Making intermeshing. C. A. Whiting. 1,646,842; Dec. 25.
 Links or similar articles, Machine for making. J. H. Appleton and F. H. Kriz. 1,641,951; Sept. 13.
 Linoleum disintegrator, Sheet-. J. Tamberlin. 1,619,276; Mar. 1.
 Linoleum floor covering and manufacture. C. F. Humphreys and J. C. McCarthy. 1,630,085; May 24.
 Linoleum, Manufacture of. A. A. Godfrey. 1,653,270; Dec. 20.
 Linoleum or similar hard-surfaced covering. F. Cartwright. Des. 71,824-5; Jan. 11.
 Linoleum or similar hard-surfaced floor covering. E. H. Chadwick. Des. 71,902-5; Jan. 25.
 Linoleum or similar hard-surfaced floor covering. O. W. Fausser. Des. 73,902-6; Nov. 22.
 Linoleum or similar hard-surfaced floor covering. O. W. Fausser. Des. 73,973; Nov. 29.
 Linoleum or similar hard-surfaced floor covering. C. F. Humphreys. Des. 71,795-6; Jan. 4.
 Linoxlike substances, Manufacture of. W. O. Herrmann and H. Desch. 1,625,882; Apr. 26.
 Lint condenser. F. W. Provost and G. B. Haywood. 1,628,065; May 10.
 Lip stick. E. B. Morgan and W. H. Day. 1,631,283; June 7.
 Lip-stick container. G. H. Wayne. 1,640,386; Aug. 30.
 Lip-stick holder. C. L. Marcus. Des. 72,864; June 14.
 Lip-stick holder. A. H. Noble. 1,632,764; June 14.
 Lip-stick holder. E. H. Noble. 1,632,765; June 14.
 Lip-stick holder. A. H. Noble. 1,646,357-8; Oct. 18.
 Liquid-agitating mechanism. O. W. Greene. 1,613,391; Jan. 4.
 Liquid and gas mixer. A. W. Morse. 1,629,288; May 17.
 Liquid, Apparatus for indicating the level of. O. T. Nelson. 1,613,245; Jan. 4.
 Liquid by another, Process of and apparatus for treating one. S. J. Dickey. 1,625,195; Apr. 19.
 Liquid coating composition. V. M. Wade, A. C. Zimmerman, and S. D. Heron. 1,627,069; May 8.
 Liquid conditioning and supply system. E. M. Scoville. 1,628,201; May 10.
 Liquid containers, Draw-off appliance for. W. M. Moore. 1,618,720; Feb. 22.
 Liquid containers, Gasket seal for. E. E. Bralnard. 1,622,625; Mar. 29.
 Liquid-control system. L. W. Beebe. 1,619,234; Mar. 1.
 Liquid-cooling device. C. E. Olmstead. 1,637,008; July 26.
 Liquid-delivery control. J. J. Hawzhurst. 1,647,043; Oct. 25.
 Liquid-delivery system. J. J. Hawzhurst. 1,618,006; Feb. 15.
 Liquid-delivery system. H. Kershaw. 1,648,457; Nov. 8.
 Liquid, Device for reducing the energy of flow of a flow. Ing. H. Bartel and P. Kurth. 1,642,479; Sept. 13.
 Liquid dispenser. A. E. Holmes. 1,618,339; Feb. 22.
 Liquid dispenser. F. B. Lomax. 1,628,853; May 17.
 Liquid dispenser and applicator. R. Stewart. 1,646,324; Oct. 18.
 Liquid-dispensing apparatus. L. E. Baker. 1,622,561; Mar. 29.
 Liquid-dispensing apparatus. J. J. Bambach and M. W. Collins. 1,631,454; June 7.
 Liquid-dispensing apparatus. H. R. Corley. 1,641,577; Sept. 6.
 Liquid-dispensing apparatus. E. Crouse. 1,650,192; Nov. 22.
 Liquid-dispensing apparatus. C. P. Crowell. 1,633,519; June 21.
 Liquid-dispensing apparatus. C. C. Curtis. 1,616,077; Feb. 1.
 Liquid-dispensing apparatus. J. R. Foster and F. Woodruff. 1,633,955; June 28.
 Liquid-dispensing apparatus. M. J. Furlong. 1,647,565; Nov. 1.
 Liquid-dispensing apparatus. M. J. Furlong. 1,651,690; Dec. 6.
 Liquid-dispensing apparatus. W. T. Hatmaker and E. E. Bickmeyer. 1,627,398; May 10.
 Liquid-dispensing apparatus. W. T. Hatmaker and E. E. Bickmeyer. 1,637,146; July 26.
 Liquid-dispensing apparatus. A. H. Heuermann. 1,628,404; May 10.
 Liquid-dispensing apparatus. J. A. La Rue. 1,654,377; Dec. 27.
 Liquid-dispensing apparatus. C. R. McDonald and A. E. Bevan. 1,634,374; July 5.
 Liquid-dispensing apparatus. C. R. McDonald and A. E. Bevan. 1,651,612; Dec. 6.
 Liquid-dispensing apparatus. G. W. MacKenzie. 1,613,711; Jan. 11.
 Liquid-dispensing apparatus. G. W. MacKenzie. 1,617,531; Feb. 15.
 Liquid-dispensing apparatus. G. W. MacKenzie. 1,635,720; July 12.
 Liquid-dispensing apparatus. J. L. Patterson. 1,650,151; Nov. 22.
 Liquid-dispensing apparatus. L. H. Pietzsch. 1,627,115; May 3.
 Liquid-dispensing apparatus. C. A. Scharffe. 1,622,810; Mar. 29.
 Liquid-dispensing apparatus. O. Sekinger. 1,645,545; Oct. 18.
 Liquid-dispensing apparatus. F. Woodruff and G. W. MacKenzie. 1,618,621; Feb. 22.
 Liquid-dispensing apparatus or the like. J. K. Darby. 1,616,785; Feb. 8.
 Liquid-dispensing device. G. A. Bjorkholtz. 1,629,905; May 24.
 Liquid-dispensing device. E. Crouse. 1,635,260; July 12.
 Liquid-dispensing device. J. E. Freeberg. 1,636,630; July 19.
 Liquid-dispensing device. A. D. Hutton. 1,634,579; July 5.
 Liquid-dispensing device. E. H. Mickelson and E. K. Skokholm. 1,632,614; June 10.
 Liquid-dispensing device. C. Niederhauser. 1,622,163; Mar. 22.
 Liquid-dispensing machine. H. M. Henderson. 1,653,460; Dec. 20.
 Liquid-dispensing machine. E. J. Lind. 1,654,004; Dec. 27.
 Liquid-dispensing machine, Coin-actuated. A. Middleton. 1,630,203; May 24.
 Liquid-dispensing tank. L. S. Henwood. 1,632,289; June 14.
 Liquid-displacing apparatus, Section operated. H. J. Enslin. 1,626,455; Apr. 26.
 Liquid-distributing apparatus. F. Gouvion. 1,642,302; Sept. 13.
 Liquid-distributing system, Plural. D. S. Morrow. 1,635,381; July 12.
 Liquid-feed tank, Pulsator-operated. L. H. Wheeler. 1,617,854; Feb. 15.
 Liquid-feeding apparatus. J. E. Bolling. 1,651,945; Dec. 6.
 Liquid-feeding apparatus. E. A. Rockwell. 1,649,190; Nov. 15.
 Liquid-feeding apparatus for preparing a moist cementitious mixture or mass. O. E. Bornhauser and J. E. Herman. 1,621,310; Mar. 15.
 Liquid-feeding device. G. W. Leiman. 1,630,751; May 31.
 Liquid-feeding device. V. A. Searles. 1,646,069; Oct. 18.
 Liquid-flow governor. N. H. Jacovatos. 1,629,821; May 24.
 Liquid-flow time switch. W. R. Walker. 1,638,180; Aug. 9.
 Liquid foods, Feeder for. C. P. Bettenga. 1,640,139; Aug. 23.
 Liquid for fluid systems, Noncorrosive. M. R. Sherblino. 1,616,670; Feb. 8.
 Liquid forcing apparatus. C. L. Burdick and J. D. Whiteman. 1,624,827; Apr. 12.

- Liquid from cinematographic films, Removal of superficial. L. T. Troland and J. M. Andrews. 1,616,642; Feb. 8.
- Liquid fuel. L. N. Bowman. 1,625,236-7; Apr. 19.
- Liquid fuel. H. Plauson and P. Schröder. 1,647,471; Apr. 1.
- Liquid fuel, Apparatus and burning. E. H. Peabody. 1,628,424; May 10.
- Liquid-fuel burner. W. H. Boehm and H. S. Corey. 1,652,193; Dec. 13.
- Liquid-fuel burner. J. M. Dial. 1,650,065; Nov. 22.
- Liquid-fuel burner. J. L. Donohoe. 1,644,062; Sept. 20.
- Liquid-fuel burner. E. S. Drew. 1,636,464; July 19.
- Liquid-fuel burner. R. L. Poster. 1,637,900; Aug. 2.
- Liquid-fuel burner. R. M. Gaston. 1,614,359; Jan. 11.
- Liquid-fuel burner. W. C. Homan. 1,646,794; Nov. 22.
- Liquid-fuel burner. O. J. Kirchen. 1,640,240; Aug. 23.
- Liquid-fuel burner. H. C. Little. 1,633,549; June 21.
- Liquid-fuel burner. J. W. Logan. 1,633,560; June 21.
- Liquid-fuel burner. V. Mulholland. 1,648,703; Oct. 25.
- Liquid-fuel burner. C. W. Mummery. 1,653,018; Dec. 20.
- Liquid-fuel burner. J. J. H. Pohl. 1,635,634; July 12.
- Liquid-fuel burner. E. J. Y. Rutherford. 1,650,391; Nov. 22.
- Liquid-fuel burner. E. I. Staples. 1,641,017; Aug. 30.
- Liquid-fuel burner. O. White. 1,614,418; Jan. 11.
- Liquid-fuel burner. O. White. 1,620,932; Mar. 15.
- Liquid-fuel burner. L. T. Wilcox. 1,614,267; Jan. 11.
- Liquid-fuel burner. H. H. Williams. 1,650,561; Nov. 22.
- Liquid-fuel burner, Electrically-ignited. J. Good. 1,650,343; Nov. 22.
- Liquid-fuel burner, Inclosed. J. Good. 1,650,342; Nov. 22.
- Liquid-fuel burners, Safety control mechanism for. W. Williams. 1,637,670; Aug. 2.
- Liquid-fuel-burning apparatus. G. E. Goodridge. 1,629,032; May 17.
- Liquid-fuel-burning apparatus. H. H. Williams. 1,650,560; Nov. 22.
- Liquid-fuel combustion apparatus. J. Good. 1,626,813; May 3.
- Liquid-fuel feeding and carbureting apparatus. C. P. Brockway and E. R. Huntley. 1,622,413; Mar. 25.
- Liquid-fuel furnace. H. Junkers. 1,636,993; July 26.
- Liquid-fuel-heating apparatus. C. H. Chalmers. 1,636,169; July 19.
- Liquid-fuel saving and safety device. J. Scheminger, jr. 1,619,157; Mar. 1.
- Liquid-fuel-supply control, System of. G. P. Haynes. 1,629,465; May 17.
- Liquid fuels, Manufacture of. M. Müller-Cunradi and W. Wilke. 1,646,014; Oct. 18.
- Liquid gauge. A. L. Carter. 1,629,992; May 24.
- Liquid gauge. F. Cosgro. 1,644,415; Oct. 4.
- Liquid gauge. J. B. Hower and J. V. Zeller. 1,648,731; Dec. 8.
- Liquid gauge. E. K. Norton and F. W. Skinner. 1,614,849; Jan. 18.
- Liquid gauge. E. A. Rein. 1,646,317; Oct. 18.
- Liquid gauge. J. D. Sartakoff. 1,652,377; Dec. 13.
- Liquid gauge. J. R. Summers. 1,614,215; Jan. 11.
- Liquid-head-maintaining device. H. R. Corwin. 1,635,175; July 12.
- Liquid heater. F. W. Birch. 1,633,758; June 28.
- Liquid heating and dispensing mechanism. C. M. Frye and J. F. Copp. 1,646,614; Oct. 25.
- Liquid indicator. F. W. Skinner. 1,626,881; May 3.
- Liquid level, Control device operated by change of. A. R. Eist. 1,614,867; Jan. 18.
- Liquid-level gauge. A. L. Carter. 1,652,761; Dec. 13.
- Liquid-level gauge. C. M. Cole and W. S. Adams. 1,645,800; Oct. 18.
- Liquid-level gauge. G. J. Dunbaugh, jr. 1,621,584; Mar. 22.
- Liquid-level gauge. G. F. Falk. 1,630,611; May 31.
- Liquid-level gauge. J. Fentress. 1,622,503; Mar. 29.
- Liquid-level gauge. W. N. Frank. 1,630,000; May 24.
- Liquid-level gauge. J. W. Hull. 1,642,656; Sept. 13.
- Liquid-level gauge. O. L. Ingram. 1,641,387; Sept. 6.
- Liquid-level gauge. B. P. Joyce. 1,640,606; Aug. 30.
- Liquid-level gauge. P. J. Lanson. 1,617,315; Feb. 8.
- Liquid-level gauge. L. Mapel. 1,633,673; June 28.
- Liquid-level gauge. A. Novick. 1,624,359; Apr. 12.
- Liquid-level gauge. D. H. Reeves. 1,643,469; Sept. 27.
- Liquid-level gauge. E. Ryder. 1,653,666; Dec. 27.
- Liquid-level gauge. A. K. Schaap, jr. 1,616,589; Apr. 12.
- Liquid-level gauge. A. K. Schaap, jr. 1,623,855; Apr. 5.
- Liquid-level gauge, Self-locking. R. L. Morris. 1,627,056; May 3.
- Liquid-level indicator. R. E. Badin. 1,631,909; June 7.
- Liquid-level indicator. E. Caretta. 1,653,759; Dec. 27.
- Liquid-level indicator. C. Carson. 1,641,116; Aug. 30.
- Liquid-level indicator. W. P. Clear. 1,614,776; Jan. 18.
- Liquid-level indicator. T. M. Eynon. 1,624,659; Apr. 12.
- Liquid-level indicator. T. M. Eynon. 1,646,957; Oct. 25.
- Liquid-level indicator. H. D. Geyer. 1,641,380; Sept. 6.
- Liquid-level indicator. F. A. Havlicek. 1,617,110; Feb. 8.
- Liquid-level indicator. A. A. Kramer. 1,623,122; Apr. 5.
- Liquid-level indicator. E. Lake. 1,633,113; June 21.
- Liquid-level indicator. P. S. Mable. 1,617,819; Feb. 15.
- Liquid-level indicator. P. S. Mable. 1,620,823; Mar. 15.
- Liquid-level indicator. L. A. Mapel. 1,635,374; July 12.
- Liquid-lever indicator. W. A. McRae. 1,626,686; May 3.
- Liquid-level indicator. W. H. Muzzy. 1,612,829; Jan. 4.
- Liquid-level indicator. W. M. Phelps. 1,629,732; May 24.
- Liquid-level indicator. E. V. Rippingille. 1,630,029; May 24.
- Liquid-level indicator. F. E. Ude and G. D. Webster. 1,613,548; Jan. 4.
- Liquid-level indicator. C. Uebelmesser. 1,613,418; Jan. 4.
- Liquid-level indicator. F. E. Wellman. 1,619,553; Mar. 1.
- Liquid-level regulating and controlling apparatus. H. D. Pownall. 1,623,811; Apr. 5.
- Liquid levels, Indicator for low-. F. G. Folberth and W. M. Folberth. 1,642,848; Sept. 20.
- Liquid-measuring and dispensing apparatus. L. E. Baker. 1,637,251; July 26.
- Liquid-measuring apparatus. J. J. Hawxburst. 1,622,715; Mar. 29.
- Liquid-measuring apparatus. T. J. Sturtevant. 1,617,873; Feb. 15.
- Liquid-measuring tank. G. W. MacKenzie. 1,631,541; June 7.
- Liquid medicaments under pressure action, Applying. L. K. Mobley. 1,614,532; Jan. 18.
- Liquid meter. R. S. Bassett. 1,620,151; Mar. 8.
- Liquid meter. R. N. Brodie and A. J. Granberg. 1,644,868; Oct. 11.
- Liquid meter. W. G. Kent. 1,633,532; June 21.
- Liquid meter. A. Monard. 1,625,489; Apr. 19.
- Liquid mixtures and device suitable therefor, Separation of. J. L. Tufts. 1,623,508; Apr. 5.
- Liquid purifier. R. D. Fagan. 1,642,433; Sept. 13.
- Liquid-quantity indicator, Electric. A. and N. Dittlinger and E. V. Dittlinger, jr. 1,616,529; Feb. 8.
- Liquid-refreshment holder. H. Wanerman. Dec. 7, 582; May 3.
- Liquid-separating device. J. Coleman. 1,624,092; Apr. 12.
- Liquid-storage tank. J. H. Wiggins. 1,636,539-40; July 19.
- Liquid under pressure, Clutch actuated by. A. Hwilder. 1,642,957; Sept. 20.
- Liquids and gases, Apparatus for separating. K. W. Bartlett. 1,620,750; Mar. 15.
- Liquids, Apparatus for aerating. W. Hucks. 1,650,516; Nov. 22.
- Liquids, Apparatus for agitating. H. Feldmeyer. 1,611,193; Jan. 11.
- Liquids, Apparatus for atomizing. A. Nyrop. 1,636,317; July 19.
- Liquids, Apparatus for crystallizing. G. T. Walker. 1,615,151; Jan. 18.
- Liquids, Apparatus for filtering and purifying. C. H. Koenig. 1,629,469; Aug. 23.
- Liquids, Apparatus for measuring and distributing. M. Bouffart. 1,630,289; May 31.
- Liquids, Apparatus for mixing and delivering. R. H. L. Pennell and W. Wylie. 1,623,132; Apr. 5.
- Liquids, Automatic mixing and discharging system for. H. E. Hoffman. 1,623,476; Apr. 5.
- Liquids, Concentrating. W. B. Senseman. 1,651,557; Dec. 6.
- Liquids, Concentrator for. W. Vogelbusch. 1,637,431; Aug. 2.
- Liquids, Container, especially canister, for automobile driving. P. G. F. Schubert. 1,654,144; Dec. 27.
- Liquids containing oil or fatty substances and the like, Treatment of. J. Avery. 1,638,977; Aug. 16.
- Liquids, Controlling the distribution of. F. A. Tittmeyer and C. S. Renwick. 1,643,969; Oct. 4.
- Liquids, Conversion of hydrocarbon. A. J. Paris, jr. 1,614,930; Jan. 18.
- Liquids, Device for distributing. E. L. Larison. 1,638,042; Aug. 9.
- Liquids, Device for retailing and measuring. R. Sutter. 1,612,890; Jan. 4.
- Liquids, Device for separating and straining. J. Šedivá. 1,632,511; June 14.
- Liquids, Device for spraying. G. F. Courtols. 1,651,808; Dec. 6.
- Liquids, Device for the atomization and injection of. C. J. Ake. 1,622,266; Mar. 29.
- Liquids, Distilling or evaporation of. J. L. Major and B. Taylor. 1,614,483; Jan. 18.
- Liquids, Feed-regulating apparatus for. W. S. Bowen. 1,651,992; Dec. 6.
- Liquids from containers at predetermined conditions of temperature, Automatic means for running off. G. G. Royce. 1,650,907; May 31.
- Liquids from meter containers, Decanting. S. W. Lush. 1,617,066; Feb. 8.
- Liquids from solids, Process and apparatus for separating. H. C. Behr. 1,650,685; Nov. 29.
- Liquids, Heating. F. W. Birch. 1,622,569; Mar. 29.
- Liquids in bottles or containers, Apparatus for heating, cooling or otherwise treating. A. G. Enoch. 1,649,393; Nov. 15.
- Liquids, Manufacturing of condensed. J. M. McClatchie. 1,650,373; Nov. 22.
- Liquids, Method and apparatus for. W. F. Downs. 1,616,079; Feb. 1.
- Liquids, Method of and apparatus for spraying. A. E. Lohr. 1,613,796; Jan. 11.
- Liquids, Method of and apparatus for spraying. N. Hubbard. 1,650,128; Nov. 22.
- Liquids noncorrosive, System for rendering. J. F. Muselman and P. West. 1,614,148; Jan. 11.
- Liquids, Obtaining solidified granules or pearls for. W. Wachtel. 1,635,669; Aug. 9.

- Liquids of different specific gravity, Apparatus for separating. T. Fisher. 1,618,151; Feb. 15.
- Liquids of different specific gravity, Apparatus for separating. T. Fisher. 1,641,843; Sept. 6.
- Liquids, Tank for dispensing. A. A. Kramer. 1,633,642; June 28.
- Liquids, Treating. W. Evans. 1,620,332-3; Mar. 8.
- Liquids, Treating. C. Lourens. 1,634,154; June 28.
- Liquids, Washing and mixing. K. Pfisterer. 1,613,531; Jan. 4.
- Liquids with decolorizing, purifying and filtering agents and for separating undissolved substances from liquids, Apparatus for treating. J. N. A. Sauer. 1,619,042; Mar. 1.
- Liquids with purifying and decolorizing agents, Process of and apparatus for treating. J. N. A. Sauer. 1,627,343; May 3.
- Liquor and dealing with the same, Composition of matter derived from black. L. C. Conner. 1,614,025; Jan. 11.
- Liquor for treating plant material and producing the same. F. K. Fish, Jr. 1,633,737; June 28.
- List-removing apparatus. H. B. Lundquist. 1,641,978; Sept. 13.
- Lister and planter. W. H. Silver. 1,633,388; June 21.
- Literary savings device. R. C. Regna. 1,625,053; Apr. 19.
- Lithium carbonate, Preparation of. H. Weidmann. 1,623,513; Apr. 5.
- Lithium containing bearing metals. G. Welter. 1,652,077; Dec. 6.
- Lithium salt of 2-phenylquinoline-4-carboxylic acid and making same. M. L. Crossley and M. L. Dolt. 1,638,832; Aug. 16.
- Lithographic printing surfaces, Washing. B. J. J. Goulding. 1,627,774; May 10.
- Lithographic printing surfaces, Washing. B. J. J. Goulding. 1,640,235; Aug. 23.
- Lithopone and increasing the resistance thereof to sunlight. H. G. Schanche. 1,619,376; Mar. 1.
- Lithopone, Drying and calcining. W. G. Graves. 1,630,613; May 31.
- Lithopone, Method and apparatus for quenching. A. S. Roberts. 1,630,267; May 31.
- Litho process, Offset. M. C. Beebe and A. Murray. 1,618,505; Feb. 22.
- Livestock, Treating. C. O. Nelson. 1,621,131; Mar. 15.
- Load-brake device. C. C. Farmer and T. H. Thomas. 1,644,567; Oct. 4.
- Load brake device. T. H. Thomas. 1,649,044; Nov. 15.
- Load brake, Variable. C. C. Farmer. 1,615,366; Jan. 25.
- Load brake, Variable. C. C. Farmer. 1,615,369; Jan. 25.
- Load brake, Variable. U. A. Whitaker. 1,650,309; Nov. 22.
- Load equalization, Automatic. W. L. Merrill. 1,631,752; June 7.
- Load-handling apparatus. J. E. Heffernan. 1,613,458; Jan. 4.
- Load-indicating mechanism. W. J. Cobb. 1,620,442; Mar. 8.
- Load indicator. F. L. Scott. 1,641,296; Sept. 6.
- Load lifter. F. J. Winterer. 1,628,212; May 10.
- Load-lifting device. B. F. Fitch. 1,650,118; Nov. 22.
- Load-lifting devices, Attaching means for. A. E. Small. 1,638,019; Aug. 9.
- Load moving and raising and lowering means. D. M. Stevenson. 1,646,119; Oct. 18.
- Load supporting and carrying device. J. Judelson. 1,632,904; June 21.
- Loader. H. H. Barber. 1,630,598; May 31.
- Loader, Extension side. E. H. Mortag. 1,617,820; Feb. 15.
- Loader, Mechanical. G. F. Binns. 1,654,402; Dec. 27.
- Loading and unloading materials, Apparatus for. C. R. Fisher. 1,620,531; Mar. 8.
- Loading apparatus. W. K. Liggett. 1,639,346; Aug. 16.
- Loading apparatus, Skip. D. F. Lepley. 1,614,373; Jan. 11.
- Loading apparatus, Spring-cushion-. S. Suekoff. 1,646,885; Oct. 25.
- Loading boom. G. Knox. 1,617,490; Feb. 15.
- Loading coal, Method and machine for. N. D. Levin. 1,645,653; Oct. 18.
- Loading device. W. J. Rohn. 1,619,015; Mar. 1.
- Loading device. D. Briggie. 1,621,151; Mar. 15.
- Loading device. I. F. Dains. 1,639,649; Aug. 23.
- Loading device. E. F. L. Fritz. 1,619,610; Mar. 1.
- Loading device. W. Jordan. 1,649,829; Nov. 22.
- Loading device. R. D. Robertson. 1,620,039; Mar. 8.
- Loading jack. M. A. West. 1,644,298; Oct. 11.
- Loading machine. M. P. Fishy. 1,613,923; Jan. 11.
- Loading machine. W. D. Cooper. 1,627,485; May 3.
- Loading machine. J. B. Gorrell. 1,647,910; Nov. 1.
- Loading machine. W. A. Hula. 1,642,679; Sept. 20.
- Loading machine. L. Johnson. 1,634,148; June 28.
- Loading machine. J. F. Joy. 1,619,260; Mar. 1.
- Loading machine. J. F. Joy. 1,628,985; May 17.
- Loading machine. J. M. London. 1,615,610; Jan. 25.
- Loading machine. N. A. Newdick. 1,627,247; May 3.
- Loading mechanism, Overhead. J. B. Webb. 1,639,758; Aug. 28.
- Loading system. W. Fondiller. 1,654,074; Dec. 27.
- Loading system. R. P. Greenleaf. 1,646,197; Oct. 18.
- Loft crossing and cutting apparatus. E. T. Parsons. 1,641,781; Sept. 6.
- Lobelia, Obtaining the active principle of. H. Wieland. Re16,772; Oct. 18.
- Lock: See—
- Air lock.
- Auto lock.
- Automobile lock.
- Bag lock.
- Beam-bearing lock.
- Bedpost lock.
- Bedstead corner lock.
- Binder lock.
- Brake lock.
- Bung-plug lock.
- Burglarproof lock.
- Can-top lock.
- Carburetor lock.
- Car-door lock.
- Car lock.
- Check-controlled lock.
- Chute lock.
- Closure-cap lock.
- Closure lock.
- Clothesline lock.
- Clutch lock.
- Coin-controlled lock.
- Coin lock.
- Combination lock.
- Compound lock.
- Cord lock.
- Cylinder lock.
- Door lock.
- Drawbar reverse lock.
- Electric safety lock.
- Engine-ignition lock.
- Gasoline-tank cap lock.
- Gate lock.
- Gear lock.
- Gear-shift lock.
- Gear-shift-rod lock.
- Hotel lock.
- Jimmyproof automatic lock.
- Key lock.
- Keyless lock.
- Knob or handle lock.
- Lock. A. E. Anakin. 1,637,097; July 26.
- Lock. F. Angello. 1,646,674; Oct. 25.
- Lock. C. J. Bates, Jr. 1,614,272; Jan. 11.
- Lock. A. L. Beard. 1,642,480; Sept. 13.
- Lock. E. M. Benham. 1,630,238; Mar. 24.
- Lock. E. M. Benham. 1,646,987; Oct. 25.
- Lock. O. Billingsley. 1,645,579; Oct. 18.
- Lock. J. B. Bleo. 1,642,325-6; Sept. 13.
- Lock. C. T. Chadwick and J. W. Boone. 1,622,490; Mar. 29.
- Lock. W. Cuptul. 1,649,512; Nov. 15.
- Lock. C. Dietrich. 1,634,825; July 5.
- Lock. H. A. Douglas. 1,616,255; Feb. 1.
- Lock. H. English. 1,648,726; Nov. 8.
- Lock. C. N. Fairchild and F. J. Hull. 1,622,500; Mar. 29.
- Lock. W. C. Ferris. 1,620,757; Mar. 15.
- Lock. H. Freedman and H. Borch. 1,633,173; June 21.
- Lock. A. J. Frith. 1,622,999; Mar. 29.
- Lock. A. G. Hatch. 1,640,935; Aug. 30.
- Lock. F. J. Helmut. 1,647,354; Nov. 1.
- Lock. G. S. Hill and A. C. Saxton. 1,632,073; June 14.
- Lock. N. Lappas. 1,621,422; Mar. 15.
- Lock. S. Larson. 1,641,338; Sept. 6.
- Lock. A. Levine. Des. 72,023; Feb. 15.
- Lock. A. L. Levy. 1,653,187; Dec. 20.
- Lock. J. G. Malouf. 1,644,022; Oct. 4.
- Lock. A. Maszczyk. 1,645,917; Oct. 18.
- Lock. J. J. Mezie and F. V. Pepper. 1,636,381; July 19.
- Lock. C. F. Melnik. 1,620,775; Mar. 15.
- Lock. A. W. Morris. 1,635,724; July 12.
- Lock. M. A. O'Branovich. 1,619,831; Mar. 8.
- Lock. J. Olinger. 1,640,724; Nov. 15.
- Lock. E. G. Pryor. 1,634,755; July 5.
- Lock. B. D. Raines and O. Billingsley. 1,646,216; Oct. 18.
- Lock. C. Rosenhahn. 1,643,752; Sept. 27.
- Lock. A. Russo. 1,639,535; Aug. 16.
- Lock. J. H. Schlafly. 1,629,641; May 24.
- Lock. W. R. Schlage. 1,653,511; Dec. 20.
- Lock. J. H. Shaw. 1,645,298; Oct. 11.
- Lock. M. Sheluman. 1,628,750; May 17.
- Lock. L. B. Shinn. 1,644,092; Oct. 4.
- Lock. M. Suzuki. 1,621,036; Mar. 15.
- Lock. W. E. Wread. 1,629,764; May 24.
- Lock. C. Zygumunt. 1,648,251; Nov. 8.
- Lock-actuated switch. J. R. McLellan. 1,625,371; Apr. 19.
- Lock and drawbolt, Trunk. A. J. Komenak. 1,652,676; Dec. 13.
- Lock and latch. O. A. Eastlack. 1,625,595; Apr. 19.
- Lock and latch, Combined. G. Cawthron. 1,628,354; May 10.
- Lock and latch, manufacture. A. L. Hansen. 1,624,051; Apr. 12.
- Lock and margin release, Line. J. H. Barr. 1,650,180; Nov. 22.
- Lock and permutation wheel for the same, Keyless. M. Wildrick. Re16,822; Dec. 20.
- Lock-and-machining means. S. Hammer. 1,629,270; May 17.
- Lock bolt. M. Peikey. 1,619,757; Mar. 1.

- Lock cap, Spring-. G. Ramsey. 1,646,765; Oct. 25.
 Lock clamp for cords. A. H. Sorell. 1,653,235; Dec. 20.
 Lock construction. W. C. Devereaux. 1,652,660; Dec. 13.
 Lock control means. E. S. Phelps. 1,616,728; Jan. 25.
 Lock-controlled switch. H. Schwarze and F. M. Holden. 1,635,226; July 12.
 Lock for air-brake release rods. B. H. Ferguson. 1,614,833; Jan. 18.
 Lock for automobiles. Steering-wheel. F. W. Stewart. 1,631,436; June 7.
 Lock for box-car doors. Crank. A. E. Ashleman and T. E. Haney. 1,621,966; Mar. 22.
 Lock for doors. Emergency. M. Weiss. 1,618,738; Feb. 22.
 Lock for electric switches of motor vehicles. Coin-controlled. L. L. Custer. 1,651,377; Dec. 6.
 Lock for electrical connectors. R. F. Landrum. 1,651,283; Nov. 29.
 Lock for loom weft detectors. W. H. King. 1,653,183; Dec. 20.
 Lock for motor vehicles. Differential. F. J. Katz. 1,622,449; Mar. 29.
 Lock for pocket seals. M. M. Corey. 1,646,612; Oct. 25.
 Lock for reversible outboard motors. Antitilting. J. A. Mould. 1,621,747; Mar. 22.
 Lock for savings banks. Permutation. W. E. Tait. 1,649,372; Nov. 15.
 Lock for vault doors. Combined electrical and mechanical safety. W. C. Dillon. 1,635,075; July 5.
 Lock for window regulators. Clutch. H. A. Myers. 1,653,654; Dec. 27.
 Lock guard. W. Rippien. 1,618,846; Feb. 22.
 Lock holder. L. F. Burke. 1,629,859; May 24.
 Lock joint for containers and producing same. M. C. Romer. 1,617,274; Feb. 8.
 Lock knob. Combination-. C. E. and A. E. Drees. 1,651,018; Nov. 29.
 Lock mechanism. F. W. Andrew and M. Tibbetts. 1,628,065; Apr. 26.
 Lock mechanism. M. C. Fullenlove. 1,633,087; June 21.
 Lock mechanism. G. W. Heene. 1,615,171; Jan. 18.
 Lock mechanism. M. Tibbetts. 1,626,106; Apr. 26.
 Lock mechanism, Combination-. P. S. Millice. 1,644,650; Oct. 4.
 Lock mechanism, Combination. E. E. Watson. 1,617,038; Feb. 8.
 Lock mechanism, Transmission-. W. T. Hunt. 1,645,192; Oct. 11.
 Lock nut. A. Bell. 1,646,805; Oct. 25.
 Lock nut. F. Hoffman. 1,629,503; May 24.
 Lock nut. J. Madden. 1,627,745; May 10.
 Lock nut. E. Morse. 1,629,726; May 24.
 Lock nut and making the same. W. E. Sharp. 1,627,207; May 8.
 Lock nut and nut tightener. Combined. H. Brownlee. 1,625,982; Apr. 26.
 Lock-nut-fastening installation. F. S. Carr. 1,646,368; Oct. 13.
 Lock-operating key. Combination. S. de Castro e Izaga. 1,653,992; Dec. 27.
 Lock or locking device. W. Hemingway, jr. 1,647,567; Nov. 1.
 Lock pin. J. P. Ratigan. 1,643,586; Sept. 27.
 Lock-roofing-forming machine. J. and H. Fullenwider. E. W. Robinson, and H. Norris. 1,642,650; Sept. 13.
 Lock spike. R. Fronti. 1,646,630; Oct. 25.
 Lock spindle. F. Netschert. 1,634,845; July 5.
 Lock valve for gasoline motor-supply tanks. J. R. Bingham. 1,621,486; Mar. 22.
 Lock washer. R. T. Hosking. 1,631,415; June 7.
 Lock washer. Cylindrical. R. T. Hosking. 1,648,347; Nov. 8.
 Locker. Service door. G. W. Brooks. 1,650,598; Nov. 29.
 Locket. J. B. Kissinger. Des. 73,362; Aug. 23.
 Locking apparatus. Reversible concealed. M. C. Bright. 1,653,034; Dec. 20.
 Locking clamp. Automatic. E. G. Unger. 1,653,793; Dec. 27.
 Locking device. R. O. Allen. 1,648,886; Nov. 15.
 Locking device. M. Bishop. 1,617,985; Feb. 15.
 Locking device. W. H. Carman and V. K. Davidson. 1,653,339; Dec. 20.
 Locking device. S. R. Fraim. 1,633,172; June 21.
 Locking device. S. R. Fraim. 1,652,823; Dec. 13.
 Locking device. S. M. Gagnon. 1,638,300; Aug. 9.
 Locking device. A. E. Kintner. 1,621,934; Mar. 22.
 Locking device. J. F. Raleigh. 1,628,740; May 17.
 Locking device. D. W. Shiek. 1,652,644; Dec. 13.
 Locking device. J. Zito. 1,620,051; Mar. 8.
 Locking-device control. E. L. Grauel. 1,630,263; May 31.
 Locking device. Drawer-. J. Ritter, jr., and M. J. Wisby. 1,649,188; Nov. 15.
 Locking device, End-gate. J. S. Bower. 1,642,059; Sept. 13.
 Locking device for lifting forks. C. E. Fuller. 1,649,343; Nov. 15.
 Locking device for semitrailers. F. M. Reid. 1,641,354; Sept. 6.
 Locking device, Repeater-. E. J. Butler. 1,613,018; Jan. 4.
 Locking device, Safety. P. Hoffman and J. B. Strong. 1,639,697; Aug. 23.
 Locking device, Safety-deposit-. H. Marshall. 1,618,460; Feb. 22.
 Locking means for locking cutting tools into tool holders. Adjustable. A. L. Gelter. 1,642,852; Sept. 20.
 Locking mechanism. A. Campbell and A. B. Zimmerman. 1,635,398; July 12.
 Locking mechanism. G. L. Cragg. 1,618,752; Feb. 22.
 Locking mechanism. E. S. Hutton. 1,626,197; Apr. 26.
 Locking mechanism. W. P. King. 1,645,059; Oct. 11.
 Locking mechanism. J. A. Muzzio. 1,639,144; Aug. 16.
 Locking mechanism. J. A. Muzzio. 1,649,913; Nov. 22.
 Locking mechanism. J. H. Nelson. 1,622,732; Mar. 29.
 Locking mechanism. J. W. White. 1,637,248; July 26.
 Locking mechanism, Door-. F. G. Chapin. 1,619,596; Mar. 1.
 Locking mechanism, Door-. A. N. Rhodes. 1,623,853; Apr. 5.
 Locking nut, Self-. H. G. L. Kolthoff. 1,623,686; Apr. 5.
 Locking printing strips in place. C. Chisholm. 1,651,185; Nov. 29.
 Locks. Automatic control system for. J. A. Hicks. 1,647,227; Nov. 1.
 Locks. Automatic releasing mechanism for. A. J. Macy. 1,627,189; May 3.
 Locks. Cover for. S. Segal. 1,642,047; Sept. 13.
 Locks. Cover and operating means for dials of permutation. W. R. Hill. 1,652,897; Dec. 13.
 Locks. Light for transmission. W. L. McEvoy and A. Hubbard. 1,651,927; Dec. 6.
 Locks. Locksmith's instrument to open all standard makes of cylinder. G. J. Baron. 1,639,919; Aug. 23.
 Locks. Releasing means for nut. W. T. Burkhalter. 1,652,605; Dec. 13.
 Locks to doors, etc. Device for use in applying. G. Hobbitzer. 1,634,667; July 5.
 Locomotive. S. W. Farnham. Re16,700; Aug. 9.
 Locomotive. W. S. Gray. 1,619,572; Mar. 1.
 Locomotive. H. L. Ingersoll. 1,615,454; Jan. 25.
 Locomotive. O. Margetson and P. G. Robinson. 1,637,952; Aug. 2.
 Locomotive. W. J. McCarroll. 1,622,917; Mar. 29.
 Locomotive. N. T. McKee. 1,636,781; July 26.
 Locomotive. J. L. Mohun. 1,618,293; Feb. 22.
 Locomotive. H. M. Pfleger. 1,639,664; Aug. 23.
 Locomotive. P. G. Robinson. 1,648,059; Nov. 8.
 Locomotive. G. B. Warren. 1,631,661; June 7.
 Locomotive. W. C. Whitcomb and W. F. Eckert. 1,649,429; Nov. 1.
 Locomotive. H. Wirth. 1,634,526; July 5.
 Locomotive. W. E. Woodard. 1,628,095; May 10.
 Locomotive and other boiler or steam generator. A. S. Davidson. 1,618,064; Feb. 15.
 Locomotive and similar vehicle. Turbine-driven. F. Jungström. 1,632,707; June 14.
 Locomotive ash pan. W. E. Woodard. 1,635,239; July 12.
 Locomotive, Auxiliary. H. C. Miller. 1,647,460; Nov. 1.
 Locomotive-axle journals. Device for lubricating. W. J. Cox. 1,620,520; Mar. 8.
 Locomotive and steam passage. W. M. Sheehan. 1,629,316; May 17.
 Locomotive boiler. A. W. Bruce. 1,624,655; Apr. 12.
 Locomotive boiler. O. H. Hartmann. 1,612,866; Jan. 4.
 Locomotive boiler. O. H. Hartmann. 1,648,396; Nov. 8.
 Locomotive boiler. M. Mahoney. 1,629,720; May 24.
 Locomotive boiler. H. McCabe. 1,633,993; June 28.
 Locomotive boiler. K. Rushton. 1,614,394; Jan. 11.
 Locomotive-boiler construction. H. S. Jarnagin. 1,622,012; Mar. 29.
 Locomotive-boiler support. A. W. Bruce. 1,650,423; Nov. 22.
 Locomotive boilers. Washout plug for. P. F. Gallagher. 1,645,046; Oct. 11.
 Locomotive booster apparatus. F. W. Martin. 1,643,308; Sept. 27.
 Locomotive booster apparatus. M. H. Roberts. 1,647,146; Nov. 1.
 Locomotive booster motors. Driving apparatus for. F. R. Peters. 1,628,185; May 10.
 Locomotive brake equipment. U. A. Whitaker. 1,650,310; Nov. 22.
 Locomotive cabs. Ventilator for. J. W. Stack. 1,647,671; Nov. 1.
 Locomotive-cellar-box puller. E. Nobles. 1,629,632; May 24.
 Locomotive. Compressed-air. E. O. Baum. 1,628,217; May 10.
 Locomotive-control apparatus. Run-down and reset. M. E. Miller. 1,635,584; July 12.
 Locomotive cranes. Stabilizer for. G. B. Yerkes. 1,651,656; Dec. 6.
 Locomotive cranes. Steering mechanism for. E. J. Kane. 1,649,596; Nov. 15.
 Locomotive-crosshead guide. L. L. Neebe. 1,635,054; July 5.
 Locomotive cylinder structure. L. W. Hance. 1,647,912; Nov. 1.
 Locomotive driving box. F. Cannon. 1,617,042; Feb. 8.
 Locomotive driving box. W. H. Utterbaugh. 1,620,584; Mar. 8.
 Locomotive-driving-box wedge-adjusting device. F. R. Peters. 1,645,659; Oct. 13.
 Locomotive driving mechanism. J. L. Borski. 1,635,813; July 12.

- Locomotive driving mechanism. L. L. Neebe. 1,646,210; Oct. 18.
- Locomotive-driving-wheel truing and flange-reducing device. T. J. Talevich. 1,617,036; Feb. 8.
- Locomotive, Electric. N. D. Levin. 1,613,710; Jan. 11.
- Locomotive feed-pump gauge. W. W. Wellman. 1,631,714; Jan. 7.
- Locomotive-fire-box arch. P. Bubells. 1,653,084; Dec. 20.
- Locomotive fire door. P. J. Weirich. 1,640,886; Aug. 30.
- Locomotive frame. A. W. Bruce. 1,645,687; Oct. 18.
- Locomotive frame. J. E. Muhlfeld. 1,630,901; May 31.
- Locomotive front-end support. H. Vissering. 1,627,756; May 10.
- Locomotive, Gasoline. W. A. Beimling. 1,614,452; Jan. 18.
- Locomotive, Geared. A. Claypoole. 1,622,765; Mar. 29.
- Locomotive grates, Shaker bar for. V. T. Bjork. 1,629,674; May 24.
- Locomotive having combined internal-combustion and electric propulsion system. E. Zbinden. 1,632,209; June 14.
- Locomotive having condenser. I. Broberg. 1,613,080; Jan. 4.
- Locomotive, Heavy-duty. D. R. McGinnis. 1,628,262; May 10.
- Locomotive, Internal-combustion. S. M. Bäckström. 1,627,226; May 3.
- Locomotive, Internal-combustion-engine. A. E. L. Chorlton. 1,619,704; Mar. 1.
- Locomotive lubricator sight. W. F. Mitchell. 1,640,512; Aug. 30.
- Locomotive main-drive-axle journal. J. A. Magnusson. 1,647,237; Nov. 1.
- Locomotive main rod. J. Kindervater. 1,634,784; July 5.
- Locomotive, Mallet. E. M. Shannon. 1,621,339; Mar. 15.
- Locomotive or car. A. F. Batchelder. 1,624,709; Apr. 12.
- Locomotive or car body. B. A. Garrett. 1,631,677; June 7.
- Locomotive or hauling apparatus for railways and tramways. A. E. Davis. 1,618,918; Feb. 22.
- Locomotive provided with mechanical power transmission, Turbine-driven. F. Ljungström and I. Broberg. 1,642,987; Sept. 20.
- Locomotive, Pulverized-fuel-burning. G. W. Clendon. 1,650,931; Nov. 29.
- Locomotive-rear-end support. W. E. Woodard. 1,620,423; Mar. 8.
- Locomotive rear frame. A. W. Bruce. 1,641,151; Scot. 6.
- Locomotive rod cups, Filler neck for. G. A. Pettit. 1,648,862; Nov. 8.
- Locomotive smoke-box and saddle construction. W. L. Bean. 1,625,784; Apr. 26.
- Locomotive-smoke-box arrangement. C. R. Hardy. 1,615,625; Jan. 25.
- Locomotive-smoke-box structure. W. L. Bean. 1,647,335; Nov. 1.
- Locomotive, Steam. J. E. Muhlfeld and A. G. Sandman. 1,627,402; May 8.
- Locomotive, Steam. E. C. Poultny, A. H. Gilling, and H. A. Akroyd. 1,618,751; Feb. 22.
- Locomotive, Steam. R. H. Whitelegg. 1,620,586; Mar. 8.
- Locomotive, Steam. R. H. Whitelegg. 1,628,016; May 10.
- Locomotive steam pipes. W. L. Reid. 1,621,600; Mar. 22.
- Locomotive, Steam-turbine. G. Belluzzo. 1,638,079; Aug. 9.
- Locomotive stoker. C. H. Jeffers. 1,613,110; Jan. 4.
- Locomotive stoker. N. M. Lower. 1,652,028; Dec. 6.
- Locomotive stoker. E. A. Turner. 1,647,169; Nov. 1.
- Locomotive structure. H. M. Pfäfer. 1,639,863; Aug. 23.
- Locomotive tender. W. F. Kiesel, Jr. 1,651,280; Nov. 29.
- Locomotive tender. W. M. Sheehan. 1,615,918; Feb. 1.
- Locomotive-tender tank. E. E. Hicken. 1,645,426; Oct. 11.
- Locomotive tender with oil separator. G. E. Ryder. 1,636,787; July 26.
- Locomotive tenders, Surplus-water-discharge system for. G. A. Johnson. 1,644,037; Aug. 23.
- Locomotive, Tractor. A. F. Fellers. 1,630,930; May 31.
- Locomotive, Triple-expansion Mallet. S. M. Vauclain. 1,629,369-70; May 17.
- Locomotive-type boiler. J. B. Brown and J. P. Kane. 1,644,463; Oct. 4.
- Locomotive underframe. W. M. Sheehan. 1,614,695; Jan. 18.
- Locomotive using crude fuel oil. V. Brazzola. 1,653,798; Dec. 27.
- Locomotive-valve chambers, Temporary end closure for. O. Kuhner. 1,615,908; Feb. 1.
- Locomotive-whistle amplifier. D. Lindsay. 1,650,526; Nov. 22.
- Locomotives and the like, Exhaust-steam injector for. E. Blauhorn. 1,640,688; Aug. 30.
- Locomotives, Attachment for. C. Stern and R. W. Braden. 1,628,478; May 10.
- Locomotives, Axle and driving wheel for. W. J. Daly. 1,642,409-10; Sept. 13.
- Locomotives, Classification signal for. A. M. Poe. 1,648,240; Nov. 8.
- Locomotives, Condenser for. I. Broberg. E. O. Eriksson, and B. Sjölin. 1,650,269; Nov. 22.
- Locomotives, Condenser for. E. O. Eriksson. 1,624,782; Apr. 12.
- Locomotives, Condenser plant for. C. Rogivue. 1,632,624; June 14.
- Locomotives, Condenser plant for. F. Ljungström, E. O. Eriksson, and I. Broberg. 1,646,650; Oct. 25.
- Locomotives, Danger-signal attachment for. O. Roesler. 1,637,835; Aug. 2.
- Locomotives, Draft control for. A. Johnson. 1,623,054; Apr. 5.
- Locomotives, Drive mechanism for electric. F. L. Alben. 1,645,272; Oct. 11.
- Locomotives, Electrical system for. S. W. Farnham. 1,616,721; Aug. 30.
- Locomotives, etc., Driving wheel for. H. Glaenger. 1,634,663; Aug. 9.
- Locomotives, etc., Driving wheel for. S. M. Vauclain. 1,637,287; July 26.
- Locomotives, Exhaust and separator system for. G. H. Zouck. 1,632,107; June 14.
- Locomotives, Feed-water purifier for. L. S. Emery and J. J. Maginn. 1,652,103; Dec. 6.
- Locomotives, Feed water purifier for. W. J. Everett. 1,652,106; Dec. 6.
- Locomotives, Frame for electric. H. V. Wille, R. M. Campbell, and W. J. Etherington. 1,622,074; Mar. 22.
- Locomotives, Joint for articulated. H. K. Harwick. 1,625,656; Apr. 19.
- Locomotives, Motor-driving connection for electric. A. Lipetz. 1,653,364; Dec. 20.
- Locomotives, Recooling device for condensing. R. Ellingerhöffer. 1,617,057; Feb. 8.
- Locomotives, Reversing gear for. J. B. Holland. 1,625,364; Apr. 19.
- Locomotives, Reversing gearing for internal-combustion engines. A. E. L. Chorlton. 1,619,702; Mar. 1.
- Locomotives, Safety device for. H. S. Johnson. 1,631,868; June 7.
- Locomotives, Safety stop for. E. Kauffeld. 1,650,277; Nov. 22.
- Locomotives, Sand valve for. S. F. MacDougald. 1,622,657; Mar. 29.
- Locomotives, Smoke box for. C. D. Barrett. 1,653,537; Dec. 20.
- Locomotives, Steam-pipe support for articulated. J. C. Maris and H. K. Harwick. 1,621,330; Mar. 15.
- Locomotives, Steam superheater for. I. A. Selders. 1,629,005; May 17.
- Locomotives, Superheater header for. W. B. Whitsitt and W. R. Hedeman. 1,651,653; Dec. 6.
- Locomotives, Water-purifying system for. F. Wagner. 1,616,786; Nov. 22.
- Log-barking apparatus. J. Moravec. 1,619,151; Mar. 1.
- Log bunk. W. G. White. 1,645,082; Oct. 11.
- Log-loading hook. W. Salisbury. 1,621,030; Mar. 15.
- Log-securing device. J. T. Sannar and C. R. Lawler. 1,619,958; Mar. 8.
- Log-unloading machine. M. F. Crawford. 1,618,917; Feb. 22.
- Log-unloading machine. M. F. Crawford. 1,636,591; July 19.
- Logging block. W. H. Dickinson. 1,635,781; July 12.
- Logging engine. H. L. Turney. 1,614,329; Jan. 11.
- Logging hook. S. Ashdown. 1,643,362; Sept. 27.
- Logging hook. E. Erickson. 1,636,090; July 19.
- Logging system. L. L. Tyler. 1,642,568; Sept. 13.
- Lollipop. G. Nelson. Dec. 74,119; Dec. 20.
- Long loaded lines, Method and apparatus for compensating distortion on. H. Nyquist. 1,648,145; Nov. 8.
- Loom. W. H. Baker. 1,634,818; July 6.
- Loom. S. and R. H. Barwell. 1,640,813; Aug. 30.
- Loom. C. H. Draper. 1,654,039; Dec. 27.
- Loom. A. John. 1,636,515; July 19.
- Loom. J. Lucas. 1,623,258; Apr. 5.
- Loom. R. Marx. 1,618,843; Feb. 22.
- Loom. J. Northrop. 1,618,104; Feb. 15.
- Loom. J. Northrop. 1,654,269; Dec. 27.
- Loom. A. Rigby. 1,625,158; Apr. 19.
- Loom. J. S. Todd. 1,629,849; May 24.
- Loom. J. Vendrell. 1,626,669; Apr. 26.
- Loom. W. S. Wells. 1,636,343; July 19.
- Loom attachment. A. Gagnon. 1,620,801; Mar. 8.
- Loom, Automatic welt-replenishing. D. M. Hollins. 1,628,407; May 10.
- Loom, Axminster. G. Crossland. 1,651,809; Dec. 6.
- Loom-beam lock. O. M. Dawson. 1,628,709; May 17.
- Loom bobbin cleaner, Filling-replenishing. H. A. Davis. 1,652,613; Dec. 13.
- Loom, Hüllion fringe. F. G. Hulme. 1,643,211; Sept. 20.
- Loom counter. J. M. Davis. 1,629,023; May 17.
- Loom dobbers, Finger for. W. H. Needham. 1,647,709; Nov. 1.
- Loom dobbers, Finger separating and leveling device for. K. J. Unwin. 1,653,193; Dec. 20.
- Loom dobbers, Multiple-weave motion for. W. H. Wakefield. 1,621,045; Mar. 15.
- Loom dooby. H. Barsley. 1,619,394; Mar. 1.
- Loom dooby. J. F. Blackman. 1,641,111; Aug. 30.
- Loom dooby. C. E. Buckley. 1,643,443; Sept. 27.
- Loom dooby. A. A. Gordon. 1,653,207; Dec. 20.
- Loom for carpets, Power. P. and F. Renard. 1,622,123; Mar. 22.
- Loom for weaving. J. Gabler. 1,620,723; Mar. 15.
- Loom for weaving. J. E. Jabouley. 1,626,411; Apr. 26.
- Loom for weaving. E. Kilner. 1,639,776; Aug. 23.

- Loom for weaving chenille, Axminster, and like carpets, blankets, and other fabrics. E. Hollingworth. 1,631,531; June 7.
- Loom for weaving openwork fabrics. F. K. Brown. 1,651,338; Nov. 29.
- Loom for weaving pile or plush fabrics. D. and T. H. Crabtree. 1,651,676; Dec. 6.
- Loom for weaving wire fabric. W. Keller. 1,647,113; Oct. 25.
- Loom for weaving with pile wires. J. Keppeler. 1,642,112; Sept. 13.
- Loom frog. H. A. Davis. 1,620,954; Mar. 15.
- Loom harness. I. Andrews. 1,645,571-2; Oct. 18.
- Loom harness. J. Kaufmann. 1,637,380; Aug. 2.
- Loom harness support. I. Andrews. 1,637,796; Aug. 2.
- Loom, Knotting and weaving. G. Friedrich and E. Reich; 1,651,812; Dec. 6.
- Loom let-off, Let-back mechanism for. K. J. Unwin. 1,616,477; Feb. 8.
- Loom let-off, Uniformly-tensioned. R. G. Turner. 1,652,589; Dec. 13.
- Loom let-offs, Reversing motion for. W. H. Wakefield. 1,620,175; Mar. 8.
- Loom let-offs, Uniformly-tensioned reversing motion for. W. H. Wakefield. 1,651,566; Dec. 6.
- Loom lock. R. B. Early. 1,633,727; June 28.
- Loom magazines, Slide cradle for. A. J. Chevrete. 1,654,113; Dec. 27.
- Loom magazines, Yielding bobbin support for multicolor. B. W. Brouwer. 1,652,604; Dec. 13.
- Loom movement. F. Roland. 1,634,915; July 5.
- Loom needle motion, Check for Axminster. W. W. Robertson. 1,651,549; Dec. 6.
- Loom pattern mechanism, Chain for. A. A. Gordon. 1,651,594; Dec. 6.
- Loom pattern mechanism, Drive for. W. M. Wattie. 1,651,110; Nov. 29.
- Loom pattern mechanisms, Clutch for. P. Hering. 1,651,200; Nov. 29.
- Loom picker. D. J. Higgins. 1,624,870; Apr. 12.
- Loom picker check. N. W. Brannon. 1,629,446; May 17.
- Loom, Power weaving. F. Eilhauser. 1,642,335; Sept. 13.
- Loom shuttle. H. A. Davis. 1,651,191; Nov. 29.
- Loom shuttle. G. H. Willard. 1,630,817; May 31.
- Loom shuttles, Tension device for. J. Lucas. 1,638,496; Aug. 2.
- Loom spindles, Mounting for. K. J. Unwin. 1,654,226; Dec. 27.
- Loom temple. F. K. Sparling. 1,632,351; June 14.
- Loom temple roll. W. I. Stimpson. 1,621,177; Mar. 15.
- Loom thread control with bobbin cleaning, Filling-replenishing. G. H. Willard. 1,652,596; Dec. 13.
- Loom transfer arms, Weft detector on. J. E. Hume. 1,653,210; Dec. 20.
- Loom transferer, Weft detector in. A. Cederlund and R. G. Turner. 1,647,724; Nov. 1.
- Loom transferers, Combined latch and weft detector for. K. J. Unwin. 1,621,044; Mar. 15.
- Loom transferers, Laterally-movable detector in. K. J. Unwin. 1,639,869; Aug. 23.
- Loom tube frames, Hanger for Axminster. A. P. Paine. 1,653,190; Dec. 20.
- Loom, Weaving. H. F. Gillot. 1,613,320; Jan. 4.
- Loom, Weft-replenishing. C. H. Draper. 1,613,650; Jan. 11.
- Loom, Weft-replenishing. C. H. Draper. 1,621,242; Mar. 15.
- Loom, Wire. E. S. Mummert. 1,643,347; Sept. 27.
- Loom with edge trimmer. E. C. Bunnell and L. H. Messenger, Jr. 1,636,551; July 19.
- Looms, Atmospheric condition for. C. A. Moore. 1,654,342; Dec. 27.
- Looms, Automatic brake for weaving. A. Gaulard. 1,648,264; Nov. 8.
- Looms, Automatic knock-off and hook stop for. J. Harrison. 1,615,082; Jan. 18.
- Looms, Automatic stop for double-pile-fabric. C. A. Bondallus. 1,635,396; July 12.
- Looms, Automatically-threading shuttle for. H. A. Davis. 1,631,089-90; May 31.
- Looms, Automatically-threading shuttle for. J. W. Gilles. 1,651,089; Nov. 29.
- Looms, Automatically-threading shuttle for. J. F. Shaw. 1,649,618; Nov. 15.
- Looms, Automatically-threading shuttle for. W. I. Stimpson. 1,649,624; Nov. 15.
- Looms, Auxiliary brake for. B. F. McGuinness. 1,633,644; June 28.
- Looms, Balanced let-off for. K. J. Unwin. 1,627,813; May 10.
- Looms, Balanced let-off for. W. H. Wakefield. 1,628,815; May 17.
- Looms, Battery feed for. A. E. Rhoades. 1,614,209; Jan. 11.
- Looms, Bobbin battery for automatic weft-replenishing. D. M. Hollins. 1,625,942; Apr. 26.
- Looms, Bobbin-cleaner attachment for replenishing. W. I. Stimpson. 1,654,472; Dec. 27.
- Looms, Bobbin-feeding mechanism for. J. Lucas. 1,631,828; June 7.
- Looms, Bobbin for. J. Lucas. 1,642,503; Sept. 13.
- Looms, Bobbin guide for filling-replenishing. H. A. Davis. 1,636,901; July 26.
- Looms, Bobbin support for filling-replenishing. E. C. Burnham. 1,644,644; Oct. 4.
- Looms, Box-operating mechanism for. W. Crutchlow. 1,626,723; May 8.
- Looms, Brake mechanism for. A. S. Johnson. 1,646,539; Oct. 25.
- Looms, Chain control for Axminster. W. H. Wakefield. 1,633,654; June 28.
- Looms, Check attachment for. H. G. McLemore. 1,638,452; June 21.
- Looms, Check for. W. F. Clayton. 1,649,446; Nov. 15.
- Looms, Cloth-guiding means for. E. S. Moore and A. L. Garner. 1,649,612; Nov. 15.
- Looms, Cloth-roll mounting for. W. H. Baker. 1,635,024; July 5.
- Looms, Clutch mechanism for. J. Northrop. 1,636,703; July 26.
- Looms, Crank-shaft gear for. W. H. Bahan. 1,613,920; Jan. 11.
- Looms, Cutting attachment for. R. Marx. 1,642,423; Sept. 13.
- Looms, Device to check needle motion of Axminster. K. J. Unwin and W. H. Wakefield. 1,643,431; Sept. 27.
- Looms, Device to prevent rotation of bobbins in. H. N. Arthur. 1,652,598; Dec. 13.
- Looms, Dobby finger for. W. H. Wakefield. 1,620,176; Mar. 8.
- Looms, Dobby for. P. J. Banzet. 1,627,950; May 10.
- Looms, Dobby for. J. Northrop. 1,645,203; Oct. 11.
- Looms, Drag roll and clearing plate for. H. A. Davis. 1,631,088; May 31.
- Looms, Driving end for. H. D. Hathaway. 1,644,374; Oct. 4.
- Looms, Electric stop motion for. J. Donnelly. 1,621,358; May 15.
- Looms, Electrical feeler for. R. O. and J. M. Canedy. 1,649,948; Nov. 22.
- Looms, Electrical stop mechanism for. F. F. Schmiege. 1,620,836; Mar. 15.
- Looms, Feeler mechanism for. E. A. Cuniff. 1,636,899; July 26.
- Looms, Feeler mechanism for. E. A. Cuniff. 1,649,776; Nov. 15.
- Looms, Feeler mechanism for. E. A. Cuniff. 1,654,478; Dec. 27.
- Looms, Filling attachment for. G. H. McRae. 1,639,659; Aug. 23.
- Looms, Filling clamping and parting mechanism for shifting shuttle-box. E. A. Cuniff. 1,628,307-8; May 10.
- Looms, Filling-control mechanism for filling-replenishing. E. C. Burnham and H. A. Davis. 1,626,505; Apr. 26.
- Looms, Filling-feeler mechanism for. J. Northrop. 1,635,858; July 12.
- Looms, Filling stop motion for. S. Came. 1,651,584; Dec. 6.
- Looms, Filling stop motion for. D. E. Skrdgell. 1,643,931; Sept. 27.
- Looms, Filling stop motion for. W. H. Wakefield. 1,638,654; Jan. 25.
- Looms, Flexible connection for. W. B. Harris. 1,614,066; Jan. 11.
- Looms for weaving, Take-up motion for. J. H. Hindle and T. Hindle. 1,630,428; May 31.
- Looms, Friction roll for. T. S. Ross. 1,649,080; Nov. 15.
- Looms, Harness for. P. L. Spencer. 1,624,515; Apr. 12.
- Looms, Harness mechanism for. C. H. Draper. 1,613,651; Jan. 11.
- Looms, Harness motion for. R. J. Bartholomew. 1,648,011; Nov. 8.
- Looms, Harness motion for. W. Simmchen. 1,619,990; Mar. 8.
- Looms, Harness stop motion for. G. Rheault. 1,636,927; July 26.
- Looms, Head motion for. L. H. Beytes. 1,615,736; Jan. 25.
- Looms, Intermittent feeler mechanism for. A. Ouellette. 1,623,491; Apr. 5.
- Looms, Intermittent temple-thread cutter for automatic filling-replenishing. E. A. Cuniff. 1,615,441; Jan. 25.
- Looms, Intermittently-temple take-up mechanism for. H. H. Burdett. 1,628,489; May 10.
- Looms, Jacquard indicator for box. E. R. Holmes. 1,651,125; Nov. 29.
- Looms, Jacquard mechanism for. E. J. Dacey. 1,631,523; June 7.
- Looms, Knife grinder for. G. P. Findlay and W. W. Johnston. 1,619,410; Mar. 1.
- Looms, Lay-actuating mechanism for. H. A. Davis. 1,642,769; Sept. 20.
- Looms, Lay assembly for. H. A. Davis. 1,616,890; Feb. 8.
- Looms, Lay rock-shaft bearing for. A. E. Dean and L. Grundy. 1,617,286; Feb. 8.
- Looms, Lay structure for power. C. Senn. 1,636,717; July 26.
- Looms, Let back mechanism for. A. J. La Chapelle. 1,647,234; Nov. 1.
- Looms, Let-off and tension mechanism for. G. F. Hutchins. 1,654,126; Dec. 27.
- Looms, Let-off means for. J. S. Todd. 1,632,205; Jan. 11.
- Looms, Let-off mechanism for. H. A. Davis. 1,626,573; Apr. 26.
- Looms, Let-off mechanism for. R. M. Hughes. 1,628,540; May 10.

- Looms, Let-off mechanism for. W. J. Lutton. 1,638,497; Aug. 9.
- Looms, Let-off mechanism for. W. F. Mintel. 1,651,334; Nov. 29.
- Looms, Let-off mechanism for. O. V. Payne. 1,643,417; Sept. 27.
- Looms, Lock for harness jacks of Knowles. W. H. Wakefield. 1,652,592; Dec. 13.
- Looms, Magazine for box. J. Taranto. 1,622,066; Mar. 22.
- Looms, Multiple-needle detector for. K. J. Unwin. 1,633,650; June 28.
- Looms, Multiple-needle weft detector for. E. R. Holmes. 1,651,124; Nov. 29.
- Looms, Needle feeler for. L. F. Hoffman and W. H. Wakefield. 1,639,850; Aug. 23.
- Looms, Of more than one shuttle, Filling-replenishing mechanism for. E. A. Blackston. 1,623,861; Apr. 5.
- Looms, Of more than one shuttle, Weft-replenishing mechanism for. E. A. Blackston. 1,627,310; May 3.
- Looms, Pattern-chain guide for. C. R. Howard. 1,653,209; Dec. 20.
- Looms, Picker for. E. E. Rawson. 1,652,730; Dec. 13.
- Looms, Picker for weaving. P. Pennartz. 1,642,262; Sept. 13.
- Looms, Picking shoe for. G. F. Hutchins. 1,651,603; Dec. 6.
- Looms, Pile-cutting mechanism for. J. Toon. 1,614,504; Jan. 18.
- Looms, Pile wire for. I. Pfeiffer. 1,645,255; Oct. 11.
- Looms, Pneumatic weft detector for. E. R. Holmes. 1,651,123; Nov. 29.
- Looms, Protector mechanism for. C. Dunaway. 1,648,261; Nov. 8.
- Looms, Shuttle-protector mechanism for. E. L. Lane. 1,643,412; Sept. 27.
- Looms, Shedding and shuttle-actuating mechanism for. J. E. Grosvenor and W. T. Picking. 1,617,388; Feb. 15.
- Looms, Shuttle actuating mechanism for. J. E. Grosvenor and W. T. Picking. 1,648,897; Nov. 15.
- Looms, Shuttle-box motion of. A. Barbier. 1,617,143; Feb. 8.
- Looms, Shuttle-box tension-controlling mechanism for. C. H. Draper. 1,639,595; Aug. 16.
- Looms, Shuttle-changing apparatus for automatic. K. Toyoda. 1,633,962; June 28.
- Looms, Shuttle-changing device for. F. Aninger. 1,630,913; May 31.
- Looms, Shuttle check for. H. A. Davis. 1,615,189; Jan. 18.
- Looms, Shuttle-checking device for. W. H. Baker and J. Dewhurst. 1,619,847; Mar. 8.
- Looms, Shuttle-checking mechanism for. A. E. Dean. 1,630,105; Mar. 8.
- Looms, Shuttle guard for. J. Macchiarella. 1,636,377; July 19.
- Looms, Shuttle mechanism for. J. Lucas. 1,624,108; Apr. 12.
- Looms, Shuttle placer for weft-replenishing. E. H. Ryon. 1,635,648; June 28.
- Looms, Starting and stopping mechanism for. W. Seville. 1,631,067; May 31.
- Looms, Stationary yarn guide for weaving. F. Phily. 1,617,347; Feb. 15.
- Looms, Stop mechanism for. H. A. Davis. 1,620,194; Mar. 8.
- Looms, Stop motion for. A. R. Jones. 1,644,647; Oct. 4.
- Looms, Take-up motion for. E. E. Talbot. 1,633,142; June 21.
- Looms, Tension device for. J. Lucas. 1,625,039; Apr. 19.
- Looms, Tension device for the harness of. J. Giardino. 1,625,105; Apr. 5.
- Looms, Thread cutter and stop motion for weft-replenishing. D. Dackmine and H. Monier. 1,637,217; July 26.
- Looms, Thread cutter for. V. H. Jennings. 1,647,702; Nov. 1.
- Looms, Thread cutter for. V. H. Jennings and H. H. Watson. 1,643,457; Sept. 27.
- Looms, Thread cutter for. K. J. Unwin. 1,654,104; Dec. 27.
- Looms, Thread cutter for weft-replenishing. E. R. Holmes. 1,647,731; Nov. 1.
- Looms, Thread-cutting mechanism for. E. H. Ryon. 1,643,422; Sept. 27.
- Looms, Thread-cutting temple for. W. C. Hudson. 1,612,923-4; Jan. 4.
- Looms, Thread extractor for. J. Northrop. 1,654,345; Dec. 27.
- Looms, Thread-feeding device for tufted-fabric. F. Boyer. 1,628,387; May 10.
- Looms, Tool for Knowles. T. H. Donnelly. 1,639,842; Aug. 23.
- Looms, Transfer mechanism for weft-replenishing. H. L. Blanchard. 1,651,113; Nov. 29.
- Looms, Tube frame for. G. Crossland. 1,651,947; Dec. 6.
- Looms, Tube frame for Axminster. K. J. Unwin and W. H. Wakefield. 1,639,868; Aug. 23.
- Looms, Warp beam for. A. A. Gordon. 1,644,721; Oct. 11.
- Looms, Warp beam for. A. A. Gordon. 1,650,216; Dec. 27.
- Looms, Warp beam for. O. V. Payne. 1,647,716; Nov. 1.
- Looms, Warp-let-off mechanism for. J. Bernini. 1,622,757; Mar. 29.
- Looms, Warp stop mechanism for. H. H. Burton. 1,626,506; Apr. 26.
- Looms, Warp-tension equalizer for. T. C. Demers. 1,641,024; Aug. 30.
- Looms, Warp-tensioning device for. F. Volech. 1,618,246; Feb. 22.
- Looms, Weft-detecting mechanism for drop-box. A. A. Gordon. 1,633,632; June 28.
- Looms, Weft-detecting mechanism for drop-box. A. A. Gordon. 1,647,729; Nov. 1.
- Looms, Weft detector for. A. J. Chevrette. 1,628,824; May 17.
- Looms, Weft detector for. G. Frechett and H. W. Owen. 1,653,205; Dec. 20.
- Looms, Weft detector for. E. R. Holmes. 1,633,636; June 28.
- Looms, Weft detector for. A. P. Paine. 1,651,098; Nov. 29.
- Looms, Weft detector for box. W. H. Wakefield. 1,643,432; Sept. 27.
- Looms, Weft detector in shuttle for. E. R. Holmes. 1,651,602; Dec. 6.
- Looms, Weft-detector-withdrawing means for. H. L. Blanchard and W. H. Wakefield. 1,652,602; Dec. 13.
- Looms, Weft-end clearer for weft-replenishing. P. Keegan. 1,644,648; Oct. 4.
- Looms, Weft-feeding device for weaving. A. Mullor and L. Carriol. 1,632,912; June 21.
- Looms, Weft-parter device for. S. S. Jackson. 1,637,114; July 26.
- Looms, Weft-replenishing mechanism for multishuttle. A. A. Gordon. 1,654,121; Dec. 27.
- Looms, Weight-controlled detector for. K. J. Unwin. 1,633,651; June 28.
- Looms, Yieldable gateway for weft-replenishing. O. V. Payne. 1,633,646; June 28.
- Loop-aerial frame. A. E. Hansen. Des. 74,147; Dec. 27.
- Loop-winding machine. S. H. Browning. 1,631,083; May 31.
- Loose-leaf holder. R. M. Van Valkenburgh. 1,632,459; July 14.
- Loose-shot holder. J. Elfel. 1,652,521; Dec. 13.
- Lost-motion coupling. R. M. Galloway. 1,627,964; May 10.
- Lotion. F. A. Richmond. 1,631,384; June 7.
- Loud speaker. O. C. Boege and H. A. A. Belz. 1,641,569; Sept. 6.
- Loud speaker. C. C. Davis. 1,638,245; Aug. 9.
- Loud speaker. C. L. Farrand and E. Ross. 1,630,734; May 31.
- Loud speaker. C. L. Farrand and E. Ross. 1,651,758; Dec. 6.
- Loud speaker. C. L. Farrand, E. Ross, and E. F. Godley. Des. 72,417; Apr. 12.
- Loud speaker. J. W. Gosling. Des. 73,030; July 12.
- Loud speaker. M. C. Hopkins. Des. 72,261-2; Mar. 22.
- Loud speaker. M. C. Hopkins. Des. 72,428; Apr. 12.
- Loud speaker. M. C. Hopkins. 1,630,011; May 24.
- Loud speaker. N. A. Kurman. Des. 72,799; June 7.
- Loud speaker. J. W. Macdonald. Des. 72,559; May 8.
- Loud speaker. C. W. Peterson. 1,643,029; Sept. 20.
- Loud speaker. E. A. Shankweiler. 1,641,605; Sept. 6.
- Loud speaker. J. Sieplan. 1,643,791; Sept. 27.
- Loud speaker. L. A. Smith. 1,653,128; Dec. 20.
- Loud speaker. L. Steinberger. Des. 73,715; Oct. 28.
- Loud speaker. O. Q. Widmann. Des. 72,199-200; Mar. 8.
- Loud speaker and other sound-receiving, sound-reproducing, or sound-transmitting apparatus. A. H. Midgley. 1,616,644; Jan. 25.
- Loud speaker, Base for. A. R. T. Davis. Des. 72,145; Mar. 8.
- Loud-speaker cabinet. F. J. Reichmann. Des. 71,849; Jan. 11.
- Loud speaker, Capacitatively actuated. J. Depew. 1,631,583; June 7.
- Loud-speaker casing. A. Jones. Des. 71,915; Jan. 25.
- Loud-speaker casing. H. Munsch. Des. 73,938; Nov. 22.
- Loud speaker, Casing for. A. J. I. Robin. Des. 73,759; Jan. 11.
- Loud speaker, Cone-type. W. H. Gerns. Des. 72,368; Apr. 5.
- Loud speaker, Cone-type. M. C. Hopkins. 1,630,008; May 24.
- Loud-speaker connector for ear phones. W. F. Schacht. 1,615,141; Jan. 18.
- Loud-speaker diaphragm, Cone. W. H. Martin. 1,626,743; May 3.
- Loud-speaker horn. H. B. Troxell. Des. 73,951; Nov. 22.
- Loud speaker, Tone-developing. C. F. Steinhilber. 1,616,474; Feb. 8.
- Loud speaker unit. L. H. Fronk. 1,644,451; Oct. 25.
- Loud-speaker unit. C. R. Hanna. 1,630,380; May 31.
- Loud-speaker unit. G. F. C. Houghton. 1,633,179; June 21.
- Loud-speaker unit. E. F. Hollinger. 1,653,045; Dec. 20.
- Loud-speaker unit. G. R. Penn. 1,625,148; Apr. 19.
- Loud-speaking sound reproducer. G. R. Lum. Des. 72,103; Mar. 1.
- Loupe, Watchmaker's. W. J. Wrighton. 1,641,834; Sept. 6.
- Louver ventilator. R. C. and G. L. Yager. 1,640,588; Aug. 30.
- Louvers cup. E. Magnusson. Des. 72,863; June 14.
- Low-fuel alarm. D. B. Williams. 1,642,318; Sept. 13.
- Low-metal alarm. V. A. Boker. 1,650,005; Nov. 22.

- Low-water alarm. R. L. Badger. 1,615,061; Jan. 18.
 Low-water alarm. N. M. Barker. 1,636,118; July 19.
 Low-water alarm. F. M. Roby. 1,629,929; May 24.
 Low-water alarm. H. B. Thurston. 1,617,928; Feb. 15.
 Low-water alarm. H. B. Thurston. 1,619,222; Mar. 1.
 Low-water alarm. H. B. Thurston. 1,629,936-8; May 24.
 Lubricant. S. Fowler and E. Edser. 1,624,939; Apr. 19.
 Lubricant. C. Hoar. 1,618,708; Feb. 22.
 Lubricant. H. L. Johnson. 1,619,074; Mar. 1.
 Lubricant. E. A. Nill and F. C. Acker. 1,617,077; Feb. 8.
 Lubricant. H. H. Willock, S. J. Caplan, and J. E. Babb. 1,625,969; Apr. 26.
 Lubricant and making the same. A. E. Becker. 1,628,646; May 17.
 Lubricant compressor. E. W. Davis. 1,645,898; Oct. 18.
 Lubricant compressor. D. F. Feeler. 1,649,159; Nov. 15.
 Lubricant compressor. O. U. Zerk. 1,645,890; Oct. 18.
 Lubricant cup. P. J. and C. H. Jorgensen. 1,620,557; Mar. 8.
 Lubricant-dispensing apparatus. O. Zerk. 1,645,888; Oct. 18.
 Lubricant-dispensing device. E. W. Davis and F. D. Reynolds. 1,646,477; Oct. 25.
 Lubricant-dispensing device. E. J. Holst. 1,630,846; May 31.
 Lubricant-exPELLing cup. P. H. Fuller. 1,645,902; Oct. 18.
 Lubricant-filling device. C. L. Magee. 1,650,021; Nov. 22.
 Lubricant from axle boxes, Device for the recovery of. G. Eveno. 1,653,950; Dec. 27.
 Lubricant-receiving nipple. O. Zerk. 1,619,454; Mar. 1.
 Lubricant-receiving nipple and cap therefor. A. G. Anderson. 1,644,220; Oct. 4.
 Lubricant receptacle. D. F. Feeler. 1,645,901; Oct. 18.
 Lubricant retainer. R. P. Black. 1,616,105; Feb. 1.
 Lubricant retainer or dust cover. S. J. Bens. 1,634,642; July 5.
 Lubricant supply installations, Element of. J. Bijur. 1,632,774; June 14.
 Lubricant-transporting receptacle. M. D. Corley. 1,637,635; Aug. 2.
 Lubricants, Making. H. A. Montgomery. 1,617,455; Feb. 15.
 Lubricating and internal-pressure spring, Self-. C. Thide. 1,620,301; Mar. 8.
 Lubricating apparatus. F. S. Barks. 1,633,304; June 21.
 Lubricating apparatus. F. S. Carr. 1,644,173; Oct. 4.
 Lubricating apparatus. F. E. Evans. 1,634,458; July 5.
 Lubricating apparatus. C. Lea. 1,637,908; Aug. 2.
 Lubricating apparatus. C. W. Manzel. 1,637,869; Aug. 2.
 Lubricating apparatus. G. L. N. Meyer. 1,653,017; Nov. 22.
 Lubricating apparatus. H. J. Murphy. 1,647,538; Nov. 1.
 Lubricating apparatus. W. B. E. Nohse. 1,626,478; Apr. 26.
 Lubricating apparatus. C. Rosine. 1,616,199; Feb. 1.
 Lubricating apparatus. S. K. Wellman and A. A. Gould. 1,637,841; Aug. 2.
 Lubricating apparatus. O. U. Zerk. 1,632,985-7; June 21.
 Lubricating apparatus, Dust cap for. G. Johnson. 1,644,253; Oct. 4.
 Lubricating apparatus, Connector for. R. P. Jacques. 1,637,325; July 26.
 Lubricating apparatus, Connector for. A. E. Kellogg. 1,638,488; Aug. 9.
 Lubricating apparatus, Dust cap for. M. R. Chipman. 1,626,268; Apr. 26.
 Lubricating, Apparatus for. H. N. Ransom. 1,651,545; Dec. 6.
 Lubricating apparatus, Force-feed. H. Albertine. 1,633,356-57; June 21.
 Lubricating attachment. C. W. Manzel. 1,648,140; Nov. 8.
 Lubricating bearing surfaces. H. Blount. 1,632,874; June 21.
 Lubricating composition and making the same. S. R. Adler. 1,636,976; July 26.
 Lubricating cup. J. G. Mueller and C. A. and H. M. Granzow. 1,621,129; Mar. 15.
 Lubricating cup, Automatic. G. F. Herbst. 1,640,407; Aug. 30.
 Lubricating device. F. C. Blanchard. 1,623,775; Apr. 5.
 Lubricating device. C. E. Bonner. 1,648,440; Nov. 8.
 Lubricating device. F. B. Fink. 1,616,425; Feb. 1.
 Lubricating device. J. R. Flannery. 1,614,194; Jan. 11.
 Lubricating device. E. Gass. 1,630,700; May 31.
 Lubricating device. A. V. Gullborg. 1,648,223; Nov. 8.
 Lubricating device. W. F. Hundemer. 1,619,126; Mar. 1.
 Lubricating device. W. A. Hunt. 1,649,848; Nov. 15.
 Lubricating device. A. E. Jones. 1,614,556; Jan. 18.
 Lubricating device. H. B. May. 1,647,924; Nov. 1.
 Lubricating device. H. Sanford. 1,635,553; July 12.
 Lubricating device. C. Sutter and G. A. Pettit. 1,640,012; Aug. 23.
 Lubricating device. A. Thornbrugh. 1,621,644; Mar. 22.
 Lubricating device. O. Zerk. 1,652,264; Dec. 13.
 Lubricating device, Automatic. L. M. Clark. 1,625,074; Apr. 19.
 Lubricating device, Force-feed-. I. Cowles. 1,652,765; Dec. 13.
 Lubricating device, Leaf-spring-. P. Upham. 1,635,696; July 12.
 Lubricating devices, Coupling member for. A. Levenson. 1,635,871; July 12.
 Lubricating installation. J. Bijur. 1,632,771; June 14.
 Lubricating installations, Terminal construction for central. E. J. Bloom. 1,632,724; June 14.
 Lubricating insulation. J. Bijur. 1,632,775; June 14.
 Lubricating means. E. W. Davis. 1,649,155; Nov. 15.
 Lubricating mechanism. J. L. Force. 1,646,018; Oct. 18.
 Lubricating nipple. O. U. Zerk. 1,619,455; Mar. 1.
 Lubricating nipple and cap therefor. M. F. Carr. 1,644,174; Oct. 4.
 Lubricating nipple and cap therefor. M. F. Carr. 1,644,236; Oct. 4.
 Lubricating sheave, Self-. G. E. Turner. 1,634,276; Dec. 27.
 Lubricating spring bolts. O. Zerk. 1,648,099; Nov. 8.
 Lubricating spring, Self-. J. B. Leighton. 1,626,740; May 3.
 Lubricating system. E. H. Belden. 1,634,820; July 5.
 Lubricating system. A. Couchman, L. F. Drinkhahn, and W. L. Phillips. 1,622,027; Mar. 22.
 Lubricating system. S. Dawson. 1,641,125; Aug. 30.
 Lubricating system. E. H. Fairbanks. 1,626,456; Apr. 26.
 Lubricating system. C. C. Goodrich. 1,623,240; Apr. 5.
 Lubricating system. T. L. Green, W. P. Morton, and C. H. Williams. 1,648,173; Nov. 8.
 Lubricating system. P. Gresser. 1,648,896; Nov. 15.
 Lubricating system. C. E. Hooser. 1,652,121; Dec. 6.
 Lubricating system. E. P. R. Liddell. 1,613,467; Jan. 4.
 Lubricating system. A. F. Masury and C. Froesch. 1,636,524; July 19.
 Lubricating system. G. L. Moore. 1,616,655; June 14.
 Lubricating system. E. F. Pierce. 1,644,202; Oct. 4.
 Lubricating system. H. F. Schmidt. 1,627,750; May 10.
 Lubricating system. G. W. Shaw. 1,652,642; Dec. 13.
 Lubricating system. W. B. Sibley. 1,644,156; Oct. 4.
 Lubricating system. D. H. Sweet. 1,632,807; June 21.
 Lubricating system. M. H. Ward. 1,650,917; Nov. 29.
 Lubricating system. C. H. Williams. 1,643,174; Nov. 8.
 Lubricating system and apparatus. H. J. Murphy. 1,649,177; Nov. 15.
 Lubricating system and apparatus, Pressure. H. J. Murphy. 1,651,218; Nov. 29.
 Lubricating system, etc., Force-feed-. I. Cowles. 1,652,764; Dec. 13.
 Lubricating system, Self-feeding rotating. C. W. Dworack. 1,622,136; Mar. 22.
 Lubricating system, Driving device for forced-. C. H. Clausen. 1,651,916; Dec. 6.
 Lubrication apparatus, Forced-. C. H. Clausen. 1,642,873; Sept. 20.
 Lubrication indicator. E. V. Myers. 1,644,848; Oct. 11.
 Lubrication, Supply installation for central chassis. J. Bijur. 1,632,776; June 14.
 Lubrication, Supply installation for central chassis. J. Bijur. 1,632,776; June 14.
 Lubrication system, Automatic. E. R. Pillars. 1,645,661; Oct. 18.
 Lubricator: See—
 Automatic lubricator. High-pressure lubricator.
 Cone-pulley lubricator. Journal lubricator.
 Conveyor lubricator. Magazine lubricator.
 Elevator-guide lubricator. Pressure lubricator.
 Force-feed lubricator. Spruce lubricator.
 Guide-rail lubricator.
 Lubricator. M. L. Adams. 1,619,779; Mar. 1.
 Lubricator. R. L. Black. 1,635,602-3; July 12.
 Lubricator. C. A. Campbell. 1,633,763; June 28.
 Lubricator. G. G. Childs. 1,648,163; Nov. 8.
 Lubricator. W. G. Coles. 1,617,199; Feb. 8.
 Lubricator. W. G. Coles. 1,635,540; July 12.
 Lubricator. A. Couchman and W. L. Phillips. 1,622,026; Mar. 22.
 Lubricator. E. I. Dodds, Jr. 1,652,098; Dec. 6.
 Lubricator. P. W. Gates. 1,620,253; Mar. 8.
 Lubricator. J. J. Hennessy. 1,630,743; May 31.
 Lubricator. J. J. Hennessy. 1,653,278-9; Dec. 20.
 Lubricator. C. Lea. 1,631,742; June 7.
 Lubricator. C. Lea. 1,633,941; Aug. 16.
 Lubricator. H. M. Ludwick. 1,638,775; Aug. 9.
 Lubricator. J. F. MacIndoe. 1,634,109; June 28.
 Lubricator. F. W. Martin. 1,620,479; Mar. 8.
 Lubricator. S. Munson. 1,620,381; Mar. 8.
 Lubricator. A. H. Oelkers. 1,617,219; Feb. 8.
 Lubricator. F. Schylander. 1,653,280; Dec. 20.
 Lubricator, Valved coupling for. H. H. Houghton. 1,616,650; June 14.
 Lug, Front draft. C. M. Hannaford. 1,613,167-8; Jan. 4.
 Lug-making press. J. J. Senglar. 1,628,616; May 10.
 Lug-strap support. T. A. Tahan. 1,641,873; Sept. 6.
 Lug to vehicle wheels, Device for attaching. A. Elzey. 1,622,189; Mar. 22.
 Luggage. O. J. Wallinsky. 1,643,397; Sept. 27.
 Luggage. O. J. Wallinsky. 1,650,672; Nov. 29.
 Luggage, Article of. O. J. Wallinsky. 1,625,439; Apr. 19.
 Luggage carrier. L. L. Bishop. 1,654,033; Dec. 27.
 Luggage carrier. M. L. Cleland. 1,622,308; Mar. 25.
 Luggage carrier. H. Glasspell. 1,651,950; Dec. 6.
 Luggage carrier. J. Hyde. 1,625,808; Apr. 26.
 Luggage carrier. W. E. Kelly and C. Z. Hubbell. 1,650,451; Nov. 22.
 Luggage carrier. W. R. Malm. 1,624,493; Apr. 12.
 Luggage carrier. J. F. Martin. 1,626,690; July 5.
 Luggage carrier. S. Mastrantonio. 1,618,632; Feb. 8.

- Luggage carrier. J. L. McGaugh. 1,623,484; Apr. 5.
 Luggage carrier. E. McPhail. 1,620,218; Mar. 8.
 Luggage carrier. F. A. Ruff. 1,617,768; Feb. 15.
 Luggage carrier. F. H. Schoelerman. 1,633,497; June 21.
 Luggage carrier. B. H. Smith. 1,626,978; May 3.
 Luggage carrier. O. J. Wallinsky. 1,624,897; Apr. 12.
 Luggage carrier. C. F. Wensinger. 1,652,907; Dec. 13.
 Luggage carrier and bumper, Combined automobile. F. J. Laher. 1,637,752; Aug. 2.
 Luggage carrier, Auto bumper-clamp. J. H. Baker. 1,648,211; Nov. 8.
 Luggage carrier, Automobile. F. J. Laher. 1,637,751; Aug. 2.
 Luggage carrier for automobiles. G. C. Ballou. 1,647,120; Nov. 1.
 Luggage carrier, Motor-vehicle. T. W. Moore. 1,646,163; Oct. 18.
 Luggage guard. J. H. Dyett. 1,612,859; Jan. 4.
 Luggage, Hand. B. Elliott. 1,614,061; Jan. 11.
 Lumber and the like, Machine for milling. R. W. Scott. 1,629,742; May 24.
 Lumber and timber-grade marking device, Portable electric. H. W. Whitford. 1,625,009; Apr. 19.
 Lumber carrier. C. F. Gerlinger. 1,618,330; Feb. 22.
 Lumber carrier. E. A. Oetzen. 1,640,718; Aug. 30.
 Lumber gauge. J. Scherer. 1,624,150; Apr. 12.
 Lumber-marking machine. C. L. Rice and T. B. Wilkins. 1,613,845; Feb. 22.
 Lumber, Method and apparatus for handling. C. W. Daugh. 1,632,952; June 21.
 Lumber-piling jack. M. C. Johnson. 1,645,488; Oct. 11.
 Lumber, Treatment of. W. C. Gardiner. 1,635,665; July 12.
 Luminaire. W. A. Dorey. 1,644,877; Oct. 11.
 Luminaire. W. A. Dorey. 1,644,915; Oct. 11.
 Luminary. W. A. Dorey. 1,612,804; Jan. 4.
 Luminescent product. A. A. Guntz. 1,622,379; Mar. 29.
 Luminous body. G. M. Coram. 1,630,171; May 24.
 Luminous indication of quantities, Instrument for. G. Cooke. 1,629,680; May 24.
 Lunch box and table, Combination. A. S. Tinkess. 1,615,560; Jan. 25.
 Lustrous variegated plastic product and making same. H. A. Cook. 1,638,529; Aug. 9.
 Macaroni, Drying. A. W. Quiggle. 1,643,821; Sept. 27.
 Macaroni machine. G. Merlonetti. 1,638,000; Aug. 2.
 Macaroni, Machine for making. C. Surico. 1,627,297; May 3.
 Machine adapted to catch and destroy bugs and similar noxious vermin on plants and bushes. C. Hellmann. 1,633,099; June 21.
 Machine and making box-toe blanks. W. H. Albee. 1,645,345; Oct. 18.
 Machine and process for separating threads from fabric. L. I. Thompson. 1,628,373; May 10.
 Machine-control apparatus. L. Roebel. 1,632,417; June 14.
 Machine dies. Adjustable handle for. T. F. Tyler. 1,630,988; May 31.
 Machine element. G. H. Acker. 1,639,680; Aug. 23.
 Machine element. E. O. Brower. 1,648,441; Nov. 8.
 Machine element. W. M. Kelly. 1,654,127; Dec. 27.
 Machine for applying plaster. D. McMaster. 1,653,722; Dec. 27.
 Machine for applying stamps, labels and the like. W. E. Molins. 1,652,040; Dec. 6.
 Machine for assembling and stitching signatures. E. R. Knst. 1,644,192; Oct. 4.
 Machine for automatically rolling articles from blanks of plastic material. L. G. Sabbag. 1,652,375; Dec. 13.
 Machine for cleaning, opening, and combing cotton, cotton waste, and like materials. J. Forkin. 1,645,745; Oct. 18.
 Machine for closing and sealing envelopes. R. Mohr. 1,633,750; June 28.
 Machine for collecting bugs. R. Martin. 1,627,796; May 10.
 Machine for compacting and solidifying concrete and other plastics. R. C. Stubbs. 1,650,574; Nov. 22.
 Machine for coring and derinding fruit. J. R. Carroll. 1,631,854; June 7.
 Machine for cutting green corn from the cob. F. M. Foster. 1,651,591; Dec. 6.
 Machine for cutting holes. E. P. Englesbe. 1,653,622; Dec. 27.
 Machine for detecting and sorting articles. S. Boutin. 1,652,890; Dec. 13.
 Machine for detecting flaws. F. Firestone. 1,640,567; Aug. 30.
 Machine for digging tunnels. B. A. Chubbuck. 1,651,672; Dec. 6.
 Machine for dispensing articles. S. Sambor. 1,634,916; July 5.
 Machine for dispensing various solids and liquids. M. C. Tongue. 1,624,587; Apr. 12.
 Machine for drilling drawing dies. S. Loewenherz and M. Stockmayer. 1,629,220; May 17.
 Machine for expanding metal sheets. M. S. Groh and J. H. Halls. 1,636,774; July 26.
 Machine for expanding metal sheets, Rotary. J. A. Halls. 1,631,065; Nov. 29.
 Machine for feeding and driving lacing books and the like. E. B. Stimpson. 1,653,674; Dec. 27.
 Machine for folding packing and the like. W. Crooks. 1,644,416; Oct. 4.
 Machine for forming and papering plastic material. J. B. De Lucia and W. A. Pellegrini. 1,651,378; Dec. 6.
 Machine for forming augur bits. C. F. Lamb. 1,653,808; Dec. 27.
 Machine for forming bodies by pressure. C. Claus. 1,648,721; Nov. 8.
 Machine for forming constrictions in exhaust tubes. J. B. Whitmore and J. E. Ferguson. 1,653,351; Dec. 20.
 Machine for forming hamburger steaks. W. Reilly. 1,651,040; Nov. 29.
 Machine for forming rounding corners upon rectangular material. A. Vidor. 1,646,986; Oct. 25.
 Machine for frying peanuts and the like. A. G. Deschenes. 1,625,797; Apr. 26.
 Machine for gathering turnips. H. Krause. 1,640,041; Aug. 23.
 Machine for gouging heel blanks. D. Parks. 1,652,181; Dec. 13.
 Machine for grading and measuring lumber. E. A. Godley and L. J. Grubman. 1,652,198; Dec. 13.
 Machine for grooving wood heels. W. J. Shaw. 1,653,932; Dec. 27.
 Machine for gum stripping beads. J. A. Shively. 1,651,735; Dec. 6.
 Machine for handling articles. W. F. Hendry. 1,647,356; Nov. 1.
 Machine for handling, cooling, and drying materials. H. J. Smith. 1,648,330; Nov. 8.
 Machine for handling materials. W. R. Glasgow. 1,613,992; Jan. 11.
 Machine for husking almonds and other kernels and the like. R. F. Macfarlane. 1,623,729; Apr. 5.
 Machine for icing cakes. F. Westernman. 1,653,486; Dec. 20.
 Machine for issuing paper and printed matter in booklet, card, ticket, or other form. J. S. Bernstein and L. Hulbert. 1,635,171; July 12.
 Machine for labeling cylindrical articles. H. Gates. 1,651,693; Dec. 6.
 Machine for lamp bases, Automatic soldering. H. D. Madden. 1,651,399; Dec. 6.
 Machine for linking sausages. O. G. Mayer. 1,645,610; Oct. 18.
 Machine for making card matches. J. E. Zomnir. 1,649,642; Nov. 15.
 Machine for making circle divisions. W. Bauersfeld. 1,653,426; Dec. 20.
 Machine for making cup pastry, Automatic. J. Denaro. 1,615,799; Jan. 25.
 Machine for making envelopes. F. J. Parks. 1,651,627; Dec. 6.
 Machine for making hook supports. J. A. Pereira and F. Roberts. 1,633,418; June 21.
 Machine for making ice-cream containers. L. S. Baler. Re16,788; Nov. 22.
 Machine for making knotted stitches. W. F. Lautenschlager. 1,652,946; Dec. 13.
 Machine for making ornamental crushed linings. H. A. Sliter. 1,639,972; Aug. 23.
 Machine for making the heads of slotted wooden or iron screws, Automatic. K. Karl. 1,624,746; Apr. 12.
 Machine for molding plastic confections. G. S. Baker. 1,651,242; Nov. 29.
 Machine for molding soap and other material. M. L. Crouch. 1,650,981; Nov. 29.
 Machine for operating upon ticket strips. F. W. Laucher. 1,650,076; Nov. 22.
 Machine for overcasting the edges of fabrics. C. Thero. 1,625,638; Apr. 18.
 Machine for placing, pressing, and drying end caps on paper rolls. W. Jungstrom. 1,642,340; Sept. 13.
 Machine for pressing inductors into place on the core of dynamo-electric-machine elements and bending them simultaneously. V. G. Apple. Re16,828; Dec. 20.
 Machine for printing various denominations of postage on mail matter, etc., and registering amount thereof. A. H. Fitney and J. W. Orden. 1,639,350; Aug. 16.
 Machine for pulling and raking thistles. G. Halvorson. 1,618,656; Feb. 22.
 Machine for putting second flipper on beads. J. A. Shively. 1,651,734; Dec. 6.
 Machine for removing air bags from tires. H. P. Moore. 1,641,281; June 7.
 Machine for separating and feeding blanks. W. W. Davidson. 1,627,015; May 3.
 Machine for shaping the edges of sheet material. J. O. Olson. 1,649,613; Nov. 15.
 Machine for shaping uppers over lasts. W. T. B. Roberts. 1,641,237; Sept. 6.
 Machine for shelling and polishing grain and the like. M. Hoff. 1,647,521; Nov. 1.
 Machine for simultaneously drying and polishing beans and the like. J. H. McFarland. 1,645,440; Oct. 11.
 Machine for spreading fertilizer. J. S. Clapper. 1,648,720; Nov. 8.
 Machine for stretching, drying, and winding up tubular fabric. S. Cohn. 1,636,683; July 26.
 Machine for taping joints of electric cables. L. Emanuel. 1,653,894; Dec. 27.
 Machine for the manufacture of storage-battery plates. J. N. Davis. 1,651,678; Dec. 6.
 Machine for the treatment of cocoa mass and the like. J. A. V. M. Hillen. 1,647,132; Nov. 1.

- Machine for trimming flash from rubber articles. W. J. Kent, E. Martin, and F. Kochan. 1,654,173; Dec. 27.
- Machine for trimming wall paper. E. C. F. Ernst. 1,652,522; Dec. 13.
- Machine for use in the manufacture of biscuits. G. S. Baker. 1,651,243; Nov. 29.
- Machine for use in the manufacture of biscuits and the like. G. S. Baker. 1,618,906; Feb. 22.
- Machine for washing dishes and other articles. E. L. Couch. 1,640,693; Aug. 30.
- Machine for washing, rinsing, and drying dishes. J. C. G. G. G. G. 1,638,022; Apr. 29.
- Machine for washing table utensils. A. Dimatos and G. D. Michal. 1,640,114; Aug. 23.
- Machine for working uppers over lasts. B. Jorgensen. 1,648,403; Nov. 8.
- Machine for wrapping bodies. A. Monkhouse. 1,645,289; Oct. 11.
- Machine foundation. H. N. Atwood. 1,647,428; Nov. 1.
- Machine frame. H. A. Wood. 1,647,387; Nov. 1.
- Machine part. C. H. Willis. 1,647,874; Nov. 1.
- Machine press. R. Jongedyk. 1,614,557; Jan. 18.
- Machine spring. G. Rogerson. 1,634,212; June 28.
- Machine support, Adjustable. C. W. Steen. 1,628,620; May 10.
- Machine tool. S. A. Cogsdill. 1,630,526; May 31.
- Machine tool. A. L. De Leeuw. 1,628,234; May 10.
- Machine tool. H. C. Pierle. 1,617,606; Feb. 15.
- Machine-tool drive. E. J. Kearney and J. Armitage. 1,636,001; Apr. 26.
- Machine-tool work supporting and driving mechanism. A. G. Belden. 1,631,458; June 7.
- Machine tools, Cross-feed mechanism for. A. K. Watcher. 1,630,042; May 24.
- Machine tools, Feed mechanism for. J. R. Johnson. 1,623,346; Apr. 5.
- Machinery, Agricultural. F. A. Krieger. 1,644,596; Oct. 4.
- Machinery, Coating. J. T. Lancaster. 1,654,130; Dec. 27.
- Machinery foundations. R. B. Grey. 1,633,940; June 28.
- Machinery of high-speed suspension, Arrangement for changing the. F. Kruckenberg and F. Gentzke. 1,637,776; Aug. 2.
- Machinery, Refrigerating. F. B. MacLaren. 1,651,826; Dec. 6.
- Machinery, Rubber working and analogous. W. D. Barnett. 1,649,774; Nov. 15.
- Machining double conical work pieces. K. Gottmanns. 1,625,650; Apr. 19.
- Machines, Controlling means for. M. H. Ballard. 1,620,001; Mar. 8.
- Machines, Cover-supplying mechanism for box-filling. C. F. Wright. 1,649,639; Nov. 15.
- Machines, Detachable feeding table for. W. C. Fellows. 1,640,400; Aug. 30.
- Machines for casting lines of type, Cam stop strip for keyboard assemblies of. G. L. Curle. 1,638,799; Aug. 9.
- Machines for container closures, Applying and securing. C. E. Martin. 1,652,903; Dec. 13.
- Machines for material treatment, Feeding and discharging apparatus for. J. Prokop. 1,623,701; Apr. 5.
- Machines for preparing chocolate for confection coatings. P. A. Hillard. Re16,813; Dec. 6.
- Machines installed on automobiles, Driving arrangement for. M. Tamini. 1,627,126; May 3.
- Machines, Nut-facing attachment for automatic. E. H. Wheeler. 1,637,718; Aug. 2.
- Machines, Starting and stopping device for. M. H. Ballard. 1,652,229; Dec. 13.
- Machines, Timing device for centrifugal. A. J. Dreher. 1,616,031; Feb. 1.
- Machines with printing or feeling mechanisms, Locking device for the drive of. A. Bessler. 1,642,009; Sept. 13.
- Magazine and book support. F. D. Jones. 1,628,247; May 10.
- Magazine clip. W. Halket and W. L. Van Valkenburg. 1,640,497; Aug. 30.
- Magazine, Cut-film. C. Boniforti. 1,613,378; Jan. 4.
- Magazine-lubricating means. C. T. Myers. 1,620,277-8; Mar. 8.
- Magazine lubricator. J. H. Wonsler. 1,625,180; Apr. 19.
- Magnets from bluerheries, Removal of. B. J. Howard. 1,650,893; Nov. 29.
- Magnesia and calcium pentasulphide, Making. V. Drewsen. 1,628,311; May 10.
- Magnetite refractory and making the same. A. Marks. 1,616,055; Feb. 1.
- Magnesium and fixed nitrogen, Production of metallic. C. G. Mink. 1,631,544; June 7.
- Magnesium chromates, Preparation of. G. Kränzein and A. Voss. 1,632,299; June 14.
- Magnesium from dolomite, Production of. W. Kochler. 1,650,894; Nov. 29.
- Magnesium from magnesia compounds, Production of. W. Kochler. 1,650,893; Nov. 29.
- Magnet. P. MacGahan. 1,626,681; May 3.
- Magnet, Slow. N. E. Norstrom. 1,635,005; July 5.
- Magnets, Process and apparatus for recharging. S. V. Losey. 1,636,941; July 26.
- Magnetic bar pole chuck. F. L. Simmons. 1,624,076; Apr. 12.
- Magnetic coll. W. L. Casper and F. E. Field. 1,628,398; May 10.
- Magnetic core. V. E. Legg. 1,647,737; Nov. 1.
- Magnetic frequency changer. J. Slepian. 1,645,303; Oct. 1.
- Magnetic material and producing it. L. Zickrick. 1,632,105; June 14.
- Magnetic material from nonmagnetic material, Apparatus for separating. L. J. Ingolfstuen and W. H. Soule. 1,625,257; Apr. 19.
- Magnetic material, Treating. W. E. Ruder. 1,648,697; Nov. 1.
- Magnetic motor. J. G. Ruckelshaus. 1,622,255; Mar. 22.
- Magnetic separator. E. H. Brune. 1,624,528; Apr. 12.
- Magnetic separator. G. Ullrich. 1,617,971; Feb. 15.
- Magnetic starter. O. Brissolis. 1,653,617; Dec. 27.
- Magnetic unloader. B. S. Aikman. 1,629,815; May 24.
- Magnetically-operated signal. W. S. Smith. 1,645,628; Oct. 18.
- Magnetizable objects, Apparatus for testing. B. Stoughton. 1,638,174; Aug. 9.
- Magneto. H. W. Henry. 1,641,334; Sept. 6.
- Magneto. J. E. Perisset. 1,640,290; Aug. 23.
- Magneto. B. P. Remy. 1,623,270; Apr. 5.
- Magneto. W. F. Smith. 1,636,017; July 19.
- Magneto. C. H. Tower. 1,642,704; Sept. 20.
- Magneto. R. Varley. 1,630,645; May 31.
- Magneto-actuating mechanism. P. Brown. 1,643,636; Sept. 27.
- Magneto-electric automatic interrupter. M. Greiner. 1,643,270; Sept. 20.
- Magneto-electric ignition machine. A. G. L. Neighbour. 1,613,053; Jan. 4.
- Magneto-electric ignition machines, Starting device for. A. G. L. Neighbour. 1,613,052; Jan. 4.
- Magneto-electric machine. A. F. Gerdes. 1,619,926; Mar. 8.
- Magneto, Flywheel. W. W. Hawkins. 1,613,033; Jan. 4.
- Magneto generator. O. Thompson. 1,626,367; Apr. 26.
- Magneto-microphonic relay. C. F. Adolph. 1,647,329; Nov. 1.
- Magneto post and switch, Combined. W. D. Smith. 1,618,608; Feb. 22.
- Magnetos, Actuating means for. A. C. Kleckner. 1,634,584; July 5.
- Magnetos, Breaker mechanism for ignition. W. Hawkins. 1,619,932; Mar. 8.
- Mail-bag receiving and delivering device. G. C. Sarver. 1,617,222; Feb. 8.
- Mail box. J. A. Aims. 1,626,320; Apr. 26.
- Mail box. J. C. Beer. 1,642,533; Sept. 13.
- Mail box. C. N. Choate. 1,642,806; Sept. 20.
- Mail box. A. D. Cowan. Des. 73,739; Nov. 1.
- Mail box. E. V. O. Davis. 1,640,888; Aug. 30.
- Mail box. D. S. Dillenbach. 1,640,268; Aug. 23.
- Mail box. J. and H. C. Helm. 1,628,881; May 17.
- Mail box. O. O. Kolstad. 1,640,153-4; Aug. 23.
- Mail box. E. H. Renfro. 1,629,735; May 24.
- Mail box. S. C. Sherry. 1,636,329; July 19.
- Mail box. R. B. Williamson. Des. 73,628; Oct. 11.
- Mail box. T. B. Wright. 1,618,793; Feb. 22.
- Mail box and bottle holder, Combined. P. Brandoline. 1,622,412; Mar. 29.
- Mail box, Automatic. L. H. Schäfer. 1,641,098; Aug. 30.
- Mail-box-cover-actuated switch. A. Flekslein. 1,630,081; Mar. 24.
- Mail-box Gang. H. Krick. 1,620,474; Mar. 8.
- Mail-box indicator or flag, Rural. I. D. Alderman. 1,620,314; Mar. 8.
- Mail-box mounting. O. M. Aarseth. 1,616,432; Feb. 8.
- Mail-box post. G. J. Obermeyer, jr. 1,646,064; Oct. 18.
- Mail-box signal. J. B. Maserang. 1,650,876; Nov. 29.
- Mail-box signal. J. Nord. 1,627,617; May 10.
- Mail-box station. M. M. Harmony. 1,629,620; May 24.
- Mail-box support. J. Morten, jr. 1,645,768; Oct. 18.
- Mail-box support. J. Warmack. 1,631,904; June 7.
- Mail boxes, Attachment for. J. R. De Mier. 1,628,034; May 10.
- Mail catching and delivering device. W. Page. 1,615,720; Jan. 25.
- Mail chute, Adjustable. N. Cohan. 1,640,981; Aug. 30.
- Mail crane. C. A. Mohnkern. 1,625,272; Apr. 19.
- Mail crane. C. A. Mohnkern. 1,625,274; Apr. 19.
- Mail cranes, Pouch-holding clamp for. C. A. Mohnkern. Des. 2,273; Apr. 19.
- Mail-delivery apparatus. R. Severino. 1,617,170; Feb. 8.
- Mail-delivery system. I. E. L. Kempf. 1,652,245; Dec. 13.
- Mail, Device for use in sorting and delivering. G. F. Ladd. 1,640,083; Aug. 23.
- Mail-handling machine. W. H. Alden, jr. 1,641,406; Sept. 13.
- Mail-marking machines, Automatic inker for. J. A. Mitchell and L. J. Zahn. 1,612,936; Jan. 4.
- Mail-receiving apparatus, Rural. F. J. Clark. 1,639,722; Aug. 23.
- Mail-stamping machines, Adjustable track for. G. E. Sheldrick. 1,638,702; Aug. 9.
- Mailing device. W. D. McGann and J. G. McGreevy. 1,622,824; Mar. 29.
- Mailing-distributing machine. R. J. Mitchell, Z. B. Babbitt, and Z. W. Alderman. 1,618,033; Feb. 22.
- Mailing machine. G. E. Northrop. 1,624,899; Apr. 12.
- Mailing machine. G. E. Northrop. 1,639,052-3; Aug. 16.

- Mailing machines, Moistening device for. L. J. Zahn. 1,629,136; May 17.
- Mailing matter, Descriptive. C. L. Stokes. 1,613,968; Jan. 11.
- Mailing package. H. L. Greve. 1,636,773; July 26.
- Maintaining of gas plants, Dip-pipe construction for the hydraulic. W. Seymour. 1,628,334; May 10.
- Mainspring tester for 12 and 16 size watches. W. R. Zesinger. 1,624,303; Apr. 12.
- Maintenance record. C. Burris. 1,633,724; June 28.
- Make-and-break contactor, Automatic. H. W. Protzeller. 1,630,580; May 31.
- Make-and-break device. D. J. Dolan. 1,622,424; Mar. 29.
- Make-up box, Theatrical. D. F. Stenholm. 1,650,241; Nov. 22.
- Make-up post. W. C. Trout. 1,644,862; Oct. 11.
- Mandrel. F. Auty. 1,639,019; Aug. 16.
- Mandrel, Cone-winding. H. A. Edwards. Re16,553; Feb. 22.
- Mandrel, Dental. R. H. Taylor. 1,646,330; Oct. 18.
- Mandrel, Expandible and contractible. G. W. Dingee. 1,627,729; May 10.
- Mandrel press. J. G. Collins. 1,645,521; Oct. 18.
- Mandrel, Riveting. F. Stapp. 1,634,521; July 5.
- Mandrel, Tube-splicing. R. J. Milligan. 1,616,981; Feb. 8.
- Mandrel, Welding. W. H. Pearce. 1,642,825; Sept. 20.
- Mandrels, Method and apparatus for preventing slippage of coil-wound. F. W. Schule and C. W. Hunt. 1,651,413; Dec. 6.
- Maneuver indicator. F. Ruspolt. 1,629,227; May 17.
- Manganese steel to carbon steel, Welding. F. H. Kirchman. 1,635,217; July 12.
- Mangle. C. A. Brewer. 1,649,337; Nov. 15.
- Mangle. J. W. Menefee. 1,652,315; Dec. 13.
- Manhole. W. S. Frame. 1,639,495; Aug. 16.
- Manhole construction. O. T. Nelson. 1,652,043; Dec. 6.
- Manhole frame and cover. J. Root. 1,618,678; Feb. 22.
- Manhole frame, cover, and hydrant-holding assemblage. C. E. Van Hecke. 1,641,512; Sept. 6.
- Manhole step. C. S. Brown. 1,639,210; Aug. 16.
- Manhole switch. P. W. Koch. 1,639,569; Aug. 16.
- Manhole, valve box, and the like. L. Gschwind. 1,653,626; Dec. 27.
- Manholes, Cover for. W. J. Woodrow. 1,630,557; May 31.
- Manholes, water-meter holes, and the like, Closure for. C. Ehret. 1,644,781; Jan. 18.
- Manicure implement. C. Ellis. 1,615,262; Jan. 25.
- Manicure rest. D. W. Kent and M. C. Gale. 1,621,789; Mar. 22.
- Manicuring appliance. M. Rüttger-Pelll. 1,653,871; Dec. 27.
- Manicuring device. E. B. Crump. 1,643,295; Sept. 27.
- Manifold. W. C. Kerwin. 1,629,796; May 24.
- Manifold. J. W. Swan. 1,636,721; July 26.
- Manifold accessory or supercharger. A. A. Bull. 1,644,870; Oct. 11.
- Manifold and muffler, Exhaust. W. F. Smith. 1,634,000; June 28.
- Manifold construction. H. L. Horning. Re16,781; Nov. 1.
- Manifold, Fuel. R. W. A. Brewer. 1,641,527; Sept. 6.
- Manifold game apparatus. A. Moore. 1,646,973; Oct. 25.
- Manifold, Gaseous-fuel-mixing. J. H. Holloway. 1,652,010; Dec. 6.
- Manifold heat retainer. C. W. Dimond. 1,637,768; Aug. 2.
- Manifold heater. J. B. Forshay. 1,629,657; May 24.
- Manifold heater. O. Wauhob. 1,627,759; May 10.
- Manifold holder. E. A. Winden. 1,641,722; Sept. 6.
- Manifold sheet. O. Loewenbach. 1,619,522; Mar. 1.
- Manifolding device. K. Castan. 1,646,570; Oct. 25.
- Manifolding device. C. H. James. 1,648,482; Nov. 8.
- Manifolding devices, Automatic aligning attachment for. J. R. Young. 1,643,358; Sept. 27.
- Manifolding machine. J. Q. Sherman and A. W. Metzner. 1,644,956; Oct. 11.
- Manifolding-paper spindle. J. Q. Sherman. 1,648,998; Nov. 15.
- Manifolding register. J. Q. Sherman. 1,644,957; Oct. 11.
- Manifolds, Air-inlet device for. E. R. Schatz. 1,622,811; Mar. 29.
- Manipulating mechanism, Mechanical. C. B. Hardy. 1,617,593; Feb. 15.
- Manipulative appliance. H. P. Dahlstrand. 1,641,415; Sept. 6.
- Manometer. W. Lommel. 1,642,615; Sept. 13.
- Mantle. R. M. Nastasia. 1,651,219; Nov. 29.
- Mantel, Ornamental. E. C. Weissinger. 1,630,910; May 31.
- Manual to automatic system. R. Mercer and F. Tench. 1,651,401; Dec. 6.
- Manually-controlled lock. C. N. Fairchild. 1,622,502; Mar. 29.
- Manufacturing, hardening, storing, and dispensing plant for ice cream and other frozen food products. R. W. Gearhart. 1,619,717; Mar. 1.
- Manure conveyor. Barn. B. W. Flintrop. 1,640,825; Aug. 23.
- Manure distributor. P. R. Tucker. 1,642,798; Sept. 20.
- Manure, Machine for spreading artificial. H. Schnath. 1,632,199; June 14.
- Manure spreader. L. B. Neighbour. 1,636,829; July 26.
- Manure spreader. L. B. Neighbour. 1,637,232; July 26.
- Manure spreader. E. C. F. Schaefer. 1,646,378; Oct. 25.
- Manways, Combined cover-holding-down and pressure-relief device for. A. Sage. 1,650,672; May 31.
- Map apparatus, Sectional. G. C. McIntock. 1,629,882; May 24.
- Map case, Road. J. A. Kamberling. 1,615,708; Jan. 25.
- Map construction. C. Bowman. 1,643,831; Sept. 27.
- Map, Highway. I. H. Erb. 1,642,580; Sept. 13.
- Map holder. F. W. Holloway and L. C. Harrison. 1,614,937; Jan. 18.
- Map border. A. O. Running. 1,632,856; June 21.
- Map or display rail. J. C. Steinkraus. 1,628,860; May 17.
- Map rack. T. H. Costello. 1,627,276; May 3.
- Marble, Artificial. H. L. Bates. 1,629,854; May 24.
- Marble, Artificial. P. Gofinopoulos. 1,628,808; Jan. 4.
- Marble. A. Making imitation. K. R. Knopf. 1,637,946; Aug. 2.
- Marble-polishing buffer. C. R. Abbott. 1,619,961; Mar. 8.
- Marble, Producing imitation. J. A. Moross. 1,623,967; Apr. 12.
- Marble, tiles, slabs, and similar material especially for use for decorative purposes in buildings and other places. Imitation. A. Barnes-Thomas. 1,638,109; Aug. 9.
- Marble, Treating. F. Harget. 1,613,393; Jan. 4.
- Marcel hair waver. E. E. Baldwin. 1,627,590; May 10.
- Marcel hair waver. H. Browne. 1,636,212; July 19.
- Marcel waver. C. G. Beasley. 1,622,821; Mar. 29.
- Marcel waver. A. J. Janda. 1,615,702; Jan. 25.
- Marcel-waving device. T. O'Malley. 1,648,740; Nov. 8.
- Marceling device, Hair-. F. M. McMaster. 1,635,683; July 12.
- Marceling iron. C. E. Wagner and B. G. Hofer. 1,625,440; Apr. 19.
- Marine-compass bracket. P. C. Kauffman. Des. 72,829; June 14.
- Marine engine. M. G. Barker. 1,640,974; Aug. 30.
- Marine water-closet. U. G. Lee. 1,625,902; Apr. 26.
- Marked article and process of marking articles. J. D. Markger. 1,642,774; Sept. 20.
- Marker. L. P. Lewis and W. Morgenthaler. 1,635,089; July 5.
- Marker and pin tray, Self skirt. H. A. Wilhite. 1,645,410; Oct. 11.
- Marker and sign, Highway. U. B. Newman. 1,649,249; June 14.
- Marker and spacer, Multiple. O. J. Pectal and E. J. Palmer. 1,624,622; Apr. 12.
- Marker block. C. C. Schrader. 1,629,053; May 17.
- Marker for pavements. F. M. Baisley. 1,623,297; Apr. 5.
- Marker gauge, Combination. W. R. Schlage. 1,644,403; June 14.
- Marker, Sod-line. A. Hedrick. 1,634,421; July 5.
- Marker, Tennis-court. W. H. Hanna. 1,651,271; Nov. 29.
- Marker, Traffic guide. W. Morris and C. Wyrostok. 1,617,720; Feb. 15.
- Marking and measuring device. N. W. Raphael. 1,617,678; Jan. 11.
- Marking articles, Method and apparatus for. J. A. Hall, Jr., and O. M. Tishlarich. 1,631,680; June 7.
- Marking articles, Process and apparatus for. J. Roche. 1,619,487; Mar. 1.
- Marking device. E. F. Becht. 1,642,983; Sept. 20.
- Marking device. R. Wasserman. 1,626,440; Apr. 26.
- Marking device. J. West. 1,623,291; Apr. 6.
- Marking die. A. Lossmann. 1,646,418; Oct. 25.
- Marking exhibitor. E. F. Stanton. 1,626,565; Apr. 26.
- Marking guide, Adjustable. C. H. Moline. 1,633,122; June 21.
- Marking machine. W. J. Beattie. 1,653,334; Dec. 20.
- Marking machine. D. E. Harding. 1,641,082; Aug. 30.
- Marking machine. P. R. Glass. 1,652,274; Dec. 13.
- Marking machine. E. L. and G. H. Lang. 1,615,017; Jan. 18.
- Marking machine. F. A. Putnam. 1,631,060; May 31.
- Marking machine. E. V. Woodworth. 1,639,360; Aug. 16.
- Marking machine, Lining. H. J. F. Richter and J. J. Burckhauser. 1,642,172; Sept. 13.
- Marking machines, Type-wheel-aligning device for. R. Osborne and C. F. Miller. 1,644,144; Oct. 4.
- Marking materials, Method and mechanism for. H. B. Mowry. 1,630,271; May 31.
- Marking-off, Prevention of. C. S. Hollander. 1,650,567; Nov. 22.
- Marking out lawn-tennis courts and other areas for the playing of games and for other similar purposes. J. J. Snyman. 1,617,183; Feb. 8.
- Marking stake. R. W. Smiley. 1,616,147; Feb. 1.
- Markers for rubber articles. Method of and apparatus for making and applying. F. J. MacDonald. 1,619,354; Mar. 1.
- Mask. E. I. McKesson. 1,632,449; June 14.
- Mask, Face. A. K. Morris. 1,627,523; May 3.
- Mask plate. H. S. Jandus and C. E. Rasmussen. Des. 73,843; Nov. 15.
- Mask, Respirator. H. S. Olgard. 1,630,290; May 24.
- Masonry joining tool. N. P. O'Neal. 1,619,030; Mar. 1.
- Massage and shampooing apparatus. H. C. Laufe. 1,623,124; Apr. 5.
- Massage apparatus. J. H. Ahlgren. 1,612,899; Jan. 4.
- Massage apparatus. W. Wacht. 1,630,149; May 21.
- Massage appliance. C. W. Cheney. 1,624,133; Apr. 12.

- Massage appliance, S. Crockett. 1,618,050; Feb. 15.
 Massage device. T. A. Buckley. 1,635,924; July 12.
 Massage device. K. W. Westerton. 1,650,528; Nov. 22.
 Massage device. F. M. Wright. 1,635,917; July 12.
 Massage device, Facial. W. Duncan. 1,635,744; July 12.
 Massage implement and medicine applicator, Hand. O. T. Wayne. 1,629,127; Apr. 26.
 Massage machine. J. L. Wentz. 1,630,911; May 31.
 Massage machine. J. L. Wentz. 1,643,039-40; Sept. 20.
 Massage machine, Electric. B. F. Jancke. 1,630,435; May 31.
 Massage vibrator. L. J. Duprey. 1,630,115; May 24.
 Massaging and cleansing device, Gum. T. A. Buckley. 1,631,791; June 7.
 Massaging and lubricating the human system, Device for. S. E. Pelphey. 1,644,606; Oct. 4.
 Massaging apparatus. M. Rüttger-Pelli. 1,635,497; July 12.
 Massaging apparatus. E. Unnå. 1,639,159; July 19.
 Massaging device. W. B. Burnley. 1,631,792; June 7.
 Massaging machine. A. Mraula. 1,612,981; Jan. 4.
 Massaging machine. O. P. Spilman. 1,616,831; Feb. 8.
 Masses, Separation of the elements of foliated or laminated. O. Legg. 1,614,371; Jan. 11.
 Mast, Collapsible. H. Price. 1,634,595; July 5.
 Mast, Mooring. I. F. Fravel. 1,634,989; July 5.
 Mat: See—
 Bath mat. Interment mat.
 Bathtub mat. Sleeping mat.
 Floor mat.
 Mat. M. Feldman. 1,654,416; Dec. 27.
 Mat. E. Gaudet. 1,641,020; Aug. 30.
 Mat and making the same. W. M. Wattie. 1,635,731; July 12.
 Mat and the like, Bath. F. C. Brewer. 1,613,158; Jan. 4.
 Mat for hot plates, Decorate luncheon. M. Tannenholz. Des. 72,876; June 14.
 Mat for hot plates, Luncheon. M. Tannenholz. Des. 73,271; Aug. 16.
 Mat for revetment work and making same. S. S. Scott. 1,629,315; May 17.
 Mat, Lace. C. W. Birkin and E. T. Sands. Des. 73,059-60; July 19.
 Mat or the like, Lace. S. N. Mallouk. Des. 72,169-75; Mar. 8.
 Mat or the like, Lace. S. N. Mallouk. Des. 72,220; Mar. 15.
 Mat or the like, Lace. S. N. Mullouk. Des. 72,222-3; Mar. 15.
 Mat or the like, Lace. S. N. Mallouk. Des. 72,225; Mar. 15.
 Match book. L. Greenbaum and E. Van Hopstadt. 1,628,661; May 17.
 Match book and method of making. J. M. Alter. 1,640,229; Oct. 18.
 Match box. C. E. Martin. 1,646,300; Oct. 18.
 Match box. J. Ranklin. 1,642,629; Sept. 13.
 Match-box-filling machine. A. F. Ney. 1,621,948; Mar. 22.
 Match-box holder. C. March. 1,637,260; July 26.
 Match-box holder or the like. W. H. White. 1,628,208; May 10.
 Match-box support. W. E. Keene. 1,649,167; Nov. 15.
 Match cards. Machine for making. B. Bogoslawsky. 1,618,175; Feb. 1.
 Match container. H. D. Finch. 1,639,848; Aug. 23.
 Match folder. M. A. Hammond. 1,641,850; Sept. 6.
 Match holder. R. T. Manning. Des. 72,776; May 31.
 Match holder and cigarette container, Combined. W. G. Wolford. Des. 72,745; May 24.
 Match machine. C. F. Wright. 1,641,216; Sept. 6.
 Match machines, Block-feeding mechanism for. E. Snyder. 1,629,977; May 24.
 Match machines, Chute-clearing device for. O. E. Swartz. 1,634,712; July 5.
 Match machines, Composition-applying mechanism for. C. Rossi and J. E. Zomlir. 1,649,737; Nov. 15.
 Match machines, Slide feeder for. L. E. Parker. 1,628,327-8; May 10.
 Match packages, Cover casing for. C. H. Stewart. Des. 72,581; May 3.
 Match packet. W. Friedman. 1,650,703; Nov. 29.
 Match packet and pad, Combination. W. Friedman. 1,636,876; July 26.
 Match packeting machine. A. W. Christianson and J. F. Milligan. 1,639,639; Aug. 16.
 Match receptacle. M. T. Spring. 1,638,222; Aug. 9.
 Match safes and the like, Mechanism for filling. J. C. Donnelly. 1,621,316; Mar. 15.
 Match splints, Mechanism for dipping. M. Paridon. 1,641,193; Sept. 6.
 Match sticks for their transfer to finishing stages, Device for magazine. F. Mange. 1,615,907; Feb. 1.
 Match striking compositions, Manufacture of. H. W. Robinson. 1,640,224; Aug. 23.
 Matches and like articles, Device for delivering. J. Danubio. 1,614,060; Jan. 11.
 Matches, Machine for sorting and stacking book. A. Shmyrov, B. Bogoslawsky, and J. Dill. 1,646,710; Oct. 25.
 Material-conveying apparatus. L. A. Stinson. 1,649,867; Nov. 22.
 Material-dividing machine. J. Hohl and O. J. Maurer. 1,629,917; May 24.
 Material-gathering machine. T. E. Pray. 1,644,204; Oct. 4.
 Material-handling apparatus. E. L. Bradt. 1,613,308; Jan. 4.
 Material-handling apparatus. E. E. Brosius. 1,622,902; Mar. 29.
 Material-handling apparatus. G. H. Gilman. 1,614,787; Jan. 18.
 Material-handling apparatus. C. J. Klein. 1,637,420; Aug. 2.
 Material-handling device. H. H. Kurtz. 1,651,607; Dec. 6.
 Material-handling device. W. S. Russell. 1,625,913; Apr. 26.
 Material-handling device. W. S. Russell. 1,625,960; Apr. 26.
 Material-handling equipment. M. R. Butler. 1,626,389; Apr. 26.
 Material-handling equipment. M. R. Butler. 1,630,605; May 31.
 Material, Mechanism for handling. M. E. First. 1,633,627; June 28.
 Material, Method and apparatus for handling. R. T. Romine. 1,650,540; Nov. 22.
 Material-working mechanism. C. G. Holmberg, Jr., and J. S. Stull. 1,629,705; May 24.
 Material-working mechanism. P. D. Parcells. 1,614,569; Jan. 18.
 Materials consisting wholly or in part of acetyl cellulose, Discharge effects on. L. Smith. 1,651,639; Dec. 6.
 Materials, Handling dry pulverulent. C. Pontoppidan. 1,618,547; Feb. 8.
 Materials, such as coal, Apparatus for concentrating. E. Deister. 1,644,112; Oct. 4.
 Matrices adapted for the production of photographic surfaces comprising refracting elements, Manufacture of cut. M. Deigny. 1,626,134; Apr. 26.
 Matrices, Machine for clearing. H. R. Hochuli. 1,627,093; May 8.
 Matrix-composing and line-casting machine, Transferring the matrices from the first elevator to the second elevator of a. C. Muehleisen. 1,645,615-16; Oct. 18.
 Matrix composing and line-casting machines, Slug-ejecting. C. Muehleisen. 1,649,844; Nov. 22.
 Matrix holder. A. Leinweber. 1,614,479; Jan. 18.
 Matrix-making machine. B. C. Blackmon. 1,625,786; Apr. 26.
 Matrix scorcher. J. W. Fitzsimmons. 1,632,046; June 14.
 Matrix-setting and line-casting machine. D. Petri-Palmedo. 1,623,971; Apr. 12.
 Matrix-setting and line-casting machine. O. Stern. 1,633,422; June 21.
 Matter, Composition of. G. E. Messenger. 1,632,555; June 14.
 Matter of different specific gravities, Method and apparatus for separating. H. Velten. 1,646,506; Oct. 25.
 Matting. W. J. Reilly. 1,615,550; Jan. 22.
 Matress. L. M. Gillette. 1,647,222; Nov. 1.
 Matress. J. I. Morgan. 1,644,600; Oct. 4.
 Matress, Adjustable wire. E. E. Barna. 1,639,422; Aug. 16.
 Matress-adjusting apparatus. F. P. McLaughlin. 1,639,462; Aug. 16.
 Matress and bedpan, Combined. H. Sweeney. 1,631,656; June 7.
 Matress and bed protector. W. R. Blissitt. 1,621,149; Mar. 15.
 Matress and making the same. W. H. Kalsey. Re16,638; May 24.
 Matress and sleeping bag. P. M. Vilas. 1,648,373; Nov. 8.
 Matress-beating machine. D. Micon. 1,622,287; Mar. 29.
 Matress button, Tufted. P. P. Bebray. 1,627,723; May 10.
 Matress case. R. M. Neilson. 1,641,231; Sept. 6.
 Matress-filling machine. H. C. Smith. 1,626,434; Apr. 26.
 Matress-filling mechanism. H. G. Brandwein. 1,618,506; Feb. 22.
 Matress, Nonstretchable. D. L. Reynolds. 1,642,557; Sept. 13.
 Matress retainer. M. C. Barber. 1,630,462; May 31.
 Matress-side-stitching machine. F. W. H. Collett. Re16,555; Feb. 22.
 Matress-suspending means. G. F. Cane and A. C. Wheelock. 1,642,140; Sept. 13.
 Matress-wrapping machine. U. I. Rosenthal and J. J. Crowley. 1,643,091; Sept. 20.
 Matresses, Harness for handling. J. F. Gail. 1,622,712; Mar. 29.
 Maul. F. C. Ehinger. 1,633,007; June 21.
 Mausoleum. J. W. Zengerle. 1,631,239; June 7.
 Mausoleums, Draining system for. T. F. Cullinan. 1,641,123; Aug. 30.
 Mausoleums, Ventilating system for. T. F. Cullinan. 1,641,124; Aug. 30.
 Maximum-demand meter. F. C. Holtz. 1,619,473; Mar. 1.
 Measure. A. M. English. 1,654,494; Dec. 27.
 Measure, Adjustable. R. E. Sandy. 1,625,056; Apr. 19.
 Measure, Home-bakers'. O. E. Beebe. 1,642,985; Sept. 20.
 Measured charges, Method of and apparatus for delivering. H. F. Shepherd. 1,645,547; Oct. 18.
 Measurement of granular materials, Apparatus for the volumetric. J. E. Lea. 1,647,704; Nov. 1.

- Measurement, Resistance. C. E. Perry. 1,616,387; Feb. 1.
 Measuring and computing machine. F. J. Tillman. 1,622,360; Mar. 29.
 Measuring and computing machine, Detachable counter bracket for supporting fabric. F. J. Tillman. 1,640,160; Aug. 23.
 Measuring and computing machines, Pointing device for. J. Turner. 1,615,134; Jan. 19.
 Measuring and controlling instrument. E. H. Bristol. 1,624,887; Apr. 12.
 Measuring and cutting apparatus. C. S. Dumm. 1,647,689; Nov. 1.
 Measuring and dispensing apparatus, Liquid. D. Cohen. 1,645,475; Oct. 11.
 Measuring and dispensing device. C. T. Hollenback. 1,648,481; Nov. 8.
 Measuring and dispensing lubricating oils and other liquids, Apparatus for. D. S. Dunn. 1,617,748; Feb. 15.
 Measuring and dispensing machine. T. B. Lundin and F. McGhee. 1,648,554; Nov. 8.
 Measuring and dispensing means, Liquid. J. J. Catron. 1,613,936; Jan. 11.
 Measuring and indicating the flow of gases, Apparatus for. H. Y. Norwood and K. L. Tate. 1,630,307; May 31.
 Measuring and reeling device. E. D. Spoorri. 1,624,633; Apr. 12.
 Measuring and weighing device. V. Slezak. 1,624,019; Apr. 12.
 Measuring angles, Instrument for. T. J. Tresidder. 1,650,553; Nov. 22.
 Measuring angles, Sighting instrument for. F. C. Armstrong. 1,640,485; Aug. 30.
 Measuring apparatus, Electric. T. Umezawa. 1,652,917; Dec. 13.
 Measuring apparatus for liquids, Volume. F. Woodruff and J. R. Foster. 1,648,669; Nov. 8.
 Measuring apparatus for ships, etc., Distance. G. Walker. 1,638,973; Aug. 16.
 Measuring apparatus, Liquid. A. W. Rybeck. 1,648,151; Nov. 8.
 Measuring bucket or vessel. A. Davis, Jr. 1,620,610; Mar. 8.
 Measuring by auxiliary energy, System of. E. Roučka. 1,638,101; Aug. 9.
 Measuring by impulses of auxiliary energy, System of. E. Roučka. 1,641,200; Sept. 6.
 Measuring canister. B. J. Gunderson. 1,631,028; May 31.
 Measuring, cost-computing, and winding machine, Ribbon. D. Turner. 1,624,173; Apr. 19.
 Measuring device. O. D. Bang. 1,647,556; Nov. 1.
 Measuring device. W. O. Bartlett. 1,636,036; July 19.
 Measuring device. L. K. De Bus. 1,648,936; Nov. 15.
 Measuring device. J. A. St. Clair. 1,651,643; Dec. 6.
 Measuring device. C. L. Cook. 1,652,889; Dec. 13.
 Measuring device. D. J. Cronk. 1,646,275; Oct. 18.
 Measuring device. B. J. Egert. 1,614,605; Jan. 18.
 Measuring device. G. O. Hoffstetter. 1,631,682; June 7.
 Measuring device. G. D. Livingston. 1,623,192; Apr. 5.
 Measuring device. C. C. McGowen. 1,614,139; Jan. 11.
 Measuring device. J. Stork. 1,642,977; Sept. 20.
 Measuring device. F. Weber. 1,646,567; Oct. 25.
 Measuring device, Automatically-recoiling height. E. H. Hand. 1,643,985; Oct. 4.
 Measuring device, Curvature. L. W. Bygbee, jr. 1,637,408; Aug. 2.
 Measuring device for liquids, Automatic. N. B. Irving. 1,622,317; Mar. 29.
 Measuring device for textile machinery incorporating a swift. H. Schweiter. 1,622,124; Mar. 22.
 Measuring device, Grade. G. C. Frantz. 1,633,854; June 28.
 Measuring device, Handy. C. J. Johnson. 1,629,106; May 17.
 Measuring device, Height. E. H. Hand. 1,623,406; Apr. 5.
 Measuring device, Liquid. R. P. Heron. 1,614,589; Oct. 4.
 Measuring device, Shrinkage. C. E. Fuller. 1,631,813; Dec. 6.
 Measuring device, Tension. C. L. Floyd. 1,647,287; Nov. 1.
 Measuring faucet for cream. T. M. Costakos. 1,647,086; Nov. 1.
 Measuring fluids for turbidity, color, and other characteristics, Apparatus for. W. G. Exton. 1,644,330-1; Oct. 4.
 Measuring funnel. J. J. Relling. 1,620,689; Mar. 15.
 Measuring gauge. L. H. Stein. 1,619,834; Mar. 8.
 Measuring gauge, Liquid. J. Cook. 1,619,919; Mar. 8.
 Measuring heat quantities, Apparatus for. V. S. K. Petersen. 1,640,801; Aug. 30.
 Measuring instrument. B. P. Currier. 1,621,352; Mar. 15.
 Measuring instrument. D. Dunning. 1,653,892; Dec. 27.
 Measuring instrument. H. W. Eldridge. 1,654,164; Dec. 27.
 Measuring instrument. C. E. Foster. 1,623,915; Apr. 5.
 Measuring instrument. E. H. Gates. 1,639,936; Aug. 23.
 Measuring instrument. T. E. Gilles. 1,641,266; Sept. 6.
 Measuring instrument. E. Hart and G. B. Gallasch. 1,648,643; Nov. 8.
 Measuring instrument. H. C. McCommon. 1,634,156; June 28.
 Measuring instrument. P. K. McGall. 1,641,447; Sept. 6.
 Measuring instrument. M. Moeller. 1,627,106; May 3.
 Measuring instrument. H. S. Percival. 1,640,425; Aug. 30.
 Measuring instrument. R. T. Pierce. 1,615,648; Jan. 25.
 Measuring instrument. S. Putra. 1,643,087; Sept. 20.
 Measuring instrument, Direction and distance. A. P. Brush. 1,638,914; Aug. 16.
 Measuring instrument, Electric. T. A. Rich. 1,632,623; June 14.
 Measuring instrument, Electrical. R. T. Pierce. 1,637,390; Aug. 2.
 Measuring instrument, Electrical. R. Simpson. 1,642,516; Sept. 13.
 Measuring instrument, Electrical. W. M. Scott and R. E. Tresise. 1,630,908; May 31.
 Measuring instrument, Electrical. W. F. Sutherland. 1,646,634; Oct. 25.
 Measuring instrument of the type employing a control motor, Electrical. B. Usligh. 1,630,989; May 31.
 Measuring instruments, Attachment for. O. Gottschalk. 1,632,102; Mar. 22.
 Measuring instruments, Casing for electrical. W. M. Scott and R. E. Tresise. 1,631,606; June 7.
 Measuring instruments, Compensating means for temperature. R. P. Brown. 1,639,365; Aug. 16.
 Measuring instruments, Indicator for. H. Cummer. 1,615,572; Jan. 28.
 Measuring linear dimensions, Apparatus for. J. Simpson and J. Glen. 1,637,921; Aug. 2.
 Measuring machine. G. E. McLaughlin. 1,638,950; Aug. 16.
 Measuring machine, Dry-goods. J. Y. Downing. 1,631,405; June 7.
 Measuring machine, Fabric. F. E. Fitch. 1,647,127; Nov. 1.
 Measuring machine, Linear. H. E. Bryant. 1,626,265; Apr. 26.
 Measuring machine, Torque. C. F. Cowdrey. 1,643,151; Sept. 20.
 Measuring machines, Automatically-controlled shutter for. J. L. Wheeler and G. C. Hosch. 1,640,387; Aug. 30.
 Measuring maximum current. I. Ikeda. 1,632,136; June 14.
 Measuring microscopically small distances, Device for. H. Gerdien. 1,648,595; Nov. 15.
 Measuring respiration in testing the lungs. H. Brown. 1,633,393; June 21.
 Measuring sheet material, Machine for. J. J. Brophy and G. E. McLaughlin. 1,638,913; Aug. 16.
 Measuring speeds, Apparatus for. A. Seguin. 1,652,378; Dec. 13.
 Measuring system. C. L. Fortescue and R. D. Evans. 1,615,691; Jan. 25.
 Measuring system. E. Roučka. 1,638,100; Aug. 9.
 Measuring system. E. Roučka. 1,638,102; Aug. 9.
 Measuring system. E. Roučka. 1,638,104; Aug. 9.
 Measuring system. E. Roučka. 1,641,195-6; Sept. 6.
 Measuring system, Flow. E. Roučka. 1,645,624; Sept. 6.
 Measuring tape. L. C. and A. J. De Camp. 1,624,779; Apr. 12.
 Measuring tape. A. Langsner. 1,646,826; Oct. 25.
 Measuring the flow of gases, Apparatus for. K. L. Tate. 1,630,318; May 31.
 Measuring the forces arising during turning on lathes and the like, Device for. O. von Bohusiewicz and W. Wilk. 1,637,676; Aug. 2.
 Measuring the rate of flow of liquid. C. M. Allen. 1,616,481; Feb. 8.
 Measuring the viscosity of fluids. C. I. Hall. 1,641,673; Sept. 6.
 Measuring transmitted light, Apparatus and method for. D. E. Branson. 1,653,694; Dec. 27.
 Measuring volt amperes. J. Yuyama. 1,641,654; Sept. 6.
 Meat-block and table cleaner. R. E. De Zonia. 1,650,698; Nov. 29.
 Meat-block cleaner. N. Cowan. 1,622,182; Mar. 22.
 Meat-block cleaner. M. A. Falver. 1,643,882; Sept. 27.
 Meat-block cleaner. J. E. Small. 1,641,103; Aug. 30.
 Meat chopper. M. A. Rollman. 1,628,998; May 17.
 Meat chopper. M. A. Rollman. 1,647,196; Nov. 1.
 Meat clamp. E. G. Streckfuss. 1,647,673; Nov. 1.
 Meat cutter. C. Biro. 1,643,829; Sept. 27.
 Meat-cutting machines, Attachment for. E. W. Knowlton. 1,623,795; Apr. 5.
 Meat hanger. J. A. Daley. 1,614,349; Jan. 11.
 Meat hanger. H. R. Koll. 1,618,833; Feb. 22.
 Meat jack. J. Lantague. 1,631,827; June 7.
 Meat, Machine for slicing. S. Nyhus. 1,636,530; July 11.
 Meat platter or similar article. F. Schmidt. Des. 72,278; Mar. 22.
 Meat slicer. G. R. Wood. 1,626,902; May 3.
 Meat-slicing machines and the like, Grinding apparatus for. V. H. M. Brunsogk and J. A. Nordin. 1,619,056; Mar. 1.
 Meat-slinging machines, Riner attachment for. J. W. Neasham. 1,626,093; Apr. 26.
 Meat tenderer. W. P. Jurey. 1,631,869; June 7.
 Meat tenderer. S. H. McBride. 1,639,854; Aug. 23.
 Meat tenderer. W. W. Myers. 1,635,053; July 5.
 Meat tenderer. J. P. Spang. 1,614,047; Jan. 11.
 Meat tenderer. J. P. Spang. 1,646,071; Oct. 13.
 Meat tenderer. J. P. Spang. 1,649,991-2; Nov. 22.
 Meat-tendering device. J. P. Spang. 1,646,711; Oct. 25.

- Meats, Canning. C. A. Sahlgren. 1,632,454; June 14.
Meats, Curing. J. Aisberg. 1,635,301; July 12.
Mechanical apparatus. S. Hinds. 1,621,202; Mar. 15.
Mechanical box. A. Paulson. 1,653,967; Dec. 27.
Mechanical converter. L. C. Sturbelle. 1,613,543; Jan. 4.
Mechanical element and making same. J. M. Taylor. 1,623,894; Apr. 5.
Mechanical face with movable features. M. J. Munson. 1,617,687; Feb. 15.
Mechanical integrating device and applications of the same, chiefly to a navigation-course recorder. C. F. J. Bertin. 1,621,394; Mar. 15.
Mechanical motion. C. W. Adams. 1,617,832; Feb. 15.
Mechanical movement. E. T. Black. 1,643,693; Sept. 27.
Mechanical movement. F. R. Belluche. 1,640,441; Oct. 25.
Mechanical movement. E. Bryant. 1,630,164; May 24.
Mechanical movement. J. E. Carroll. 1,634,453; July 5.
Mechanical movement. G. P. S. Cross. 1,648,114; Nov. 8.
Mechanical movement. C. C. Hartman and H. A. Weicher. 1,640,655; Aug. 30.
Mechanical movement. H. A. Holmes. 1,623,872; Apr. 5.
Mechanical movement. A. D. Hudson and E. L. Smith. 1,635,182; July 12.
Mechanical movement. R. D. Jacobs. 1,623,732; Apr. 5.
Mechanical movement. J. Krystofak. 1,639,191; Aug. 16.
Mechanical movement. F. J. Lass. 1,641,498; Sept. 6.
Mechanical movement. A. E. Norris. 1,632,088; June 14.
Mechanical movement. L. Powell. 1,622,841; Mar. 29.
Mechanical movement. J. Wegner. 1,624,085; Apr. 12.
Mechanical movement and windshield-cleaning apparatus involving the same. S. Lippert. 1,641,392; Sept. 6.
Mechanical movement of the planetary gear type. A. L. Powell. 1,622,842; Mar. 29.
Mechanical movement. Reciprocating. C. H. Au. 1,645,273; Oct. 11.
Mechanical shovel. A. E. Bannister. 1,650,255; Nov. 22.
Mechanical strength, Testing of. A. Schopper. 1,637,011; July 26.
Mechanically-packed packer. I. C. Bell. Re16,670; July 12.
Mechanism reversible with backlash error. R. M. Gallaway. 1,627,236; May 17.
Medal. G. A. Fitzgibbons. Des. 73,402; Sept. 6.
Medallion. J. D. Karle. 1,620,259; Mar. 8.
Medallion or similar article. B. Chafetz. Des. 71,826; Jan. 11.
Medical apparatus for the treatment of the intestines. A. Klalber. 1,628,849; May 17.
Medical appliance. J. L. Cox. 1,622,903; Mar. 29.
Medical preparation containing aloe and making the same. I. Ostromislensky. 1,644,348; Oct. 4.
Medicament carrier. J. A. Lawton. 1,637,153; July 26.
Medicaments, antiseptic agents, and cauterization means into a stable and readily dissolvable form, Converting. A. Eckermann. 1,650,333; Nov. 22.
Medicaments from receptacles or containers and applying them to the body. Withdrawing small quantities of. M. W. Withcombe. 1,632,686; June 14.
Medication of the oral cavity. Soluble strip for local. A. D. Goldstein. 1,642,653; Sept. 13.
Medicinal agent adapted for glandular therapy. G. P. Eckeritz. 1,640,709; Aug. 30.
Medicinal pencil and inhaler, Combined. W. C. Belmonte. 1,640,687; Aug. 30.
Medicinal powders, Apparatus to render possible the inhalation of. N. R. Di Cristina. 1,643,983; Oct. 4.
Medicinal product. H. C. Fuller. 1,627,963; May 10.
Medicinal purposes. Powder-applying device for. D. T. Horton. 1,628,843; May 17.
Medicine. C. E. Carter. 1,611,244; June 7.
Medicine cartridge and applicator therefor. O. Smiley. 1,633,293; June 21.
Medicine-dropper holder. E. Pearson. 1,618,724; Feb. 22.
Medicine, Veterinary. O. E. Bradley. 1,618,051; Feb. 15.
Medicines, Cover for curative. V. Pellegrino. 1,629,297; May 17.
Mecaphone. J. W. Wilhelm. 1,613,001; Jan. 4.
Melting furnace. W. H. Chenoweth and G. C. Schimpf. 1,632,366; June 14.
Melting furnace. W. P. Runyan. 1,614,085; Jan. 11.
Melting pot. J. O. Luthy. 1,639,380; Aug. 16.
Melting pot, Electric. F. Schuster. 1,623,209; Apr. 5.
Memorandum appliance. W. L. Jenkins. 1,629,459; May 17.
Memorandum books and similar devices, Loose-leaf binder for. W. A. Ringler. 1,644,034; Oct. 4.
Memorandum device. E. B. Angell. 1,637,672; Aug. 2.
Memorial tablet. J. J. Haggenjos. 1,624,048; Apr. 12.
Memorization device. J. E. McDade. 1,641,982; Sept. 13.
Menthol. Manufacture of. K. Schollkopf. 1,625,771; Apr. 19.
Metabol. Manufacturing. K. Schollkopf. 1,629,002; May 17.
Menu holder. W. J. Bird. 1,632,783; June 21.
Mercapto-benzo-thiazole, Manufacturing. W. J. Kelly. 1,631,871; June 7.
Mercurizing machine. F. S. Wilcox. 1,620,419; Mar. 8.
Merchandise. Article of. R. Paulus and P. Thirik. 1,632,673; June 14.
Merchandise carrier. H. Arnold. 1,630,047; May 24.
Merchandise, Storage and display apparatus for. W. P. Rylander. 1,633,907; June 28.
Mercury arc rectifier. E. Beck. 1,624,383; Apr. 12.
Mercury-arc rectifier. C. Krämer. 1,652,889; Dec. 13.
Mercury derivatives of hydroxy-sulpho-benzoic acids, Production of solutions of. E. Sagl. 1,613,569; Jan. 4.
Mercury gauges, Regulator for. A. A. Gibson. 1,620,540; Mar. 8.
Mercury meter. F. P. Church. 1,640,438-9; Aug. 30.
Mercury, Producing. W. Glaeser. 1,637,481; Aug. 2.
Mercury rectifier. J. Alexander. 1,643,146; Sept. 20.
Mercury salt of 2-phenylquinoline-4-carboxylic acid and producing the same. M. L. Crossley and M. L. Dolt. 1,638,833; Aug. 16.
Mercury switch, Rotating cylindrical glass. W. B. Walker. 1,638,133; Aug. 9.
Mercury-tube switch. I. E. McCabe. 1,614,621; Jan. 18.
Mercury-tube switch. I. E. McCabe. 1,642,932; Sept. 20.
Mercury-tube switch. H. E. Warren. 1,631,713; June 7.
Mercury-vapor-arc rectifier. C. Krämer. 1,643,216; Sept. 20.
Mercuri-monoortho-ortho-cresol and its salts, Manufacture of. G. W. Raiziss. 1,630,072; May 24.
Merry-go-round. G. A. Bluthardt. 1,635,108; July 5.
Merry-go-round. L. W. Meicher. 1,627,570; May 10.
Merry-go-round. J. P. Neff. 1,652,993; Dec. 13.
Merry-go-round. J. R. Pullen and W. L. Flene. 1,635,387; July 12.
Mesh machine. F. H. Lynds. 1,627,897; May 3.
Message carrier. J. G. MacLaren. 1,638,047; Aug. 9.
Message carrier. C. L. Paulus and R. Kauch. 1,641,549; Aug. 9.
Messages through submarine and other like cables, Means and apparatus for transmitting. W. Estauigh. 1,631,254; June 7.
Metal alloy of high density and high melting point and making the same, Refractory. C. A. Laise. 1,633,258; June 21.
Metal arc briquettes used therefor, Desulphurizing molten. R. Walter. 1,651,492; Dec. 6.
Metal and glass and making the same, Joint between. G. B. Jonas. 1,627,780; May 10.
Metal and porcelain article and manufacturing the same. F. S. McCullough. 1,615,023; Jan. 18.
Metal and the rare-earth metals, Clean-up and activation by misch. J. W. Marden and H. C. Rentschler. 1,653,366; Dec. 20.
Metal, Annealing. H. W. Sanford. 1,613,726; Jan. 11.
Metal, Apparatus for heating. R. T. Romine. 1,615,812; Jan. 25.
Metal, Apparatus for regenerating bulky waste. R. Phillips. 1,647,371; Nov. 1.
Metal, Apparatus for rolling. J. F. Halpin. 1,634,258; July 5.
Metal, Apparatus for the production of pure. S. L. Madorsky. 1,642,683; Sept. 20.
Metal article and producing the same, Hollow. A. B. Norton. 1,633,187; June 21.
Metal article, Composite. W. Ehlers. 1,648,678; Nov. 8.
Metal articles by arc welding, Apparatus for making composite. G. R. Rich. 1,651,547; Dec. 6.
Metal articles, Making. W. T. Abel. 1,613,595; Jan. 11.
Metal articles, Method and apparatus for heat-treating. T. F. Callaghan. 1,634,319; July 5.
Metal articles, Treating. M. Bentley. 1,647,851; Nov. 1.
Metal articles, Wrought. W. H. Bassett, Jr. 1,630,999; May 31.
Metal bar, Cross-jointed. S. J. Gary. 1,637,220; July 26.
Metal bar, Cross-jointed. S. J. Guarneri. 1,622,235; Mar. 22.
Metal bars, Apparatus for cooling and annealing. J. R. George. 1,642,437; Sept. 13.
Metal bars, Machine for shearing. E. P. Jones. 1,620,354; Mar. 8.
Metal baths and making the same, Composition for treating. M. B. Beckett. 1,622,078; Mar. 22.
Metal beams, Repairing. W. A. Fritz and C. C. Cooke. 1,648,801; Nov. 8.
Metal-bending machine. H. Fuchs. 1,630,064; May 24.
Metal-bending machine. T. Rolley. 1,636,786; July 26.
Metal-bending machine. W. Seymour, Jr., J. O. Groff, and A. Schaaf. 1,631,386; June 7.
Metal binding for reed matting. F. S. Chrisman. 1,632,495; Dec. 13.
Metal bolts, Method of and apparatus for centrifugally casting. W. D. Moore and W. Morgan. 1,620,829-30; Mar. 15.
Metal boxes, Producing the shells of. A. F. Reilly. 1,637,242; July 26.
Metal can, Sanitary. A. Moore. 1,645,016; Oct. 11.
Metal cap, Resealable. C. Hammer. 1,618,657; Feb. 22.
Metal-casting apparatus. A. Forrest and G. M. Smith. 1,632,469; June 14.
Metal castings, Making. H. Klouman. 1,643,777; Sept. 27.
Metal catalysts contaminated by sulphur, Regeneration of. A. F. Frischmuth. 1,640,668; Aug. 30.
Metal chlorides, Desiccation of molten. W. Moschel and P. Siedler. 1,650,531; Nov. 22.
Metal container. F. C. Thornton. 1,615,054; Jan. 18.
Metal containers, Attaching rubber seal rings in. E. C. Hutchinson. 1,630,012; May 24.
Metal, Corrosion-resisting. C. E. Jones and M. A. Atunista. 1,615,707; Jan. 25.
Metal cutter. A. Breton. 1,622,487; Mar. 29.

- Metal cutter. D. Turtle and M. Klitenick. 1,625,341; Apr. 19.
- Metal-cutting machine. W. G. Ritchie. 1,653,662; Dec. 27.
- Metal-cutting machine. A. G. Thompson and L. K. Sprague. 1,623,449; Apr. 6.
- Metal-cutting mechanism. H. V. Ludwick. 1,647,835; Nov. 1.
- Metal cutting or working device. A. J. Lewis. 1,650,841; Nov. 29.
- Metal-cutting stick, Revoluble. C. Frick. 1,617,801; Feb. 15.
- Metal-cutting tool. J. D. Knipple. 1,629,667; May 24.
- Metal dust, Apparatus for the production of. R. B. Finn. 1,622,433; Mar. 29.
- Metal elements, Apparatus for forming. R. S. Smith. 1,628,751; May 17.
- Metal, Expanded. H. M. Gersman. 1,615,578; Jan. 25.
- Metal fabrics, Tool for bending. C. W. Hawthorne. 1,628,976; May 17.
- Metal facing for window openings. C. H. Richards. 1,618,728; Feb. 22.
- Metal filament. T. E. Foulke. 1,628,456; May 10.
- Metal float. C. C. Manchester. 1,616,564; Mar. 1.
- Metal, Forming. J. R. Winter. 1,651,111; Nov. 29.
- Metal furnace. W. Alderice. 1,642,351; Sept. 13.
- Metal in open-hearth and like furnaces, Agitating and stirring molten. J. Edwards. 1,635,037; July 5.
- Metal-iodide-alkali-iodide compounds suitable for use in therapeutics and manufacturing them. H. Truttwin. 1,627,359; May 3.
- Metal joint. J. F. Gail. 1,630,338; May 31.
- Metal-lath-attaching clip. J. H. Schlaefly. 1,624,187; Apr. 12.
- Metal-lath corner strip. W. E. Campbell. 1,619,401; Mar. 1.
- Metal, Machine for bending. J. Karpouich. 1,617,913; Feb. 15.
- Metal, Manufacture of expanded. J. H. Dean. 1,635,662; July 12.
- Metal mercapto sulphonic compounds. Heavy. A. Feldt, W. Schoeller, and E. Borgwardt. 1,633,626; June 28.
- Metal parts, Apparatus for cleaning. L. Rosenberg. 1,624,982; Apr. 19.
- Metal parts, Buffer and cleaning of. S. R. Mason. 1,632,909; June 21.
- Metal phosphates, Making. H. Blumenberg, jr. 1,617,098; Feb. 8.
- Metal pickling. J. H. Gravell. 1,632,833; June 21.
- Metal pipe, Producing galvanized corrugated. W. J. Cook. 1,623,043; Apr. 6.
- Metal-planing machine. C. G. Johannesmeyer. 1,631,132; June 7.
- Metal plates and sheets, Apparatus for annealing. W. L. Jenkins, sr. 1,615,627; Jan. 25.
- Metal plates, Apparatus for flanging and bending. G. Hughes. 1,633,744; June 28.
- Metal plates, Mechanism for producing. W. J. Stoop. 1,622,069; Mar. 22.
- Metal pole. A. W. Malone. 1,617,262; Feb. 8.
- Metal, Process of and apparatus for cleaning. S. R. Mason. 1,625,484; Apr. 19.
- Metal, Producing welding. A. Lucas. 1,637,619; Aug. 2.
- Metal product and making same, Refractory. C. A. Laise. 1,631,493; June 7.
- Metal-punching apparatus. G. P. Thomas. 1,637,013; July 26.
- Metal, Removing deposit, scale, or incrustations from. G. Ritsche. 1,645,664; Oct. 18.
- Metal, Rolling. N. W. Elliott. 1,625,443; Apr. 19.
- Metal screen. D. D. Pinkham. 1,630,450; May 31.
- Metal seam, Sheet. J. A. Lachaine. 1,634,947; July 5.
- Metal sections, Uniting. P. W. Shaw. 1,617,224; Feb. 8.
- Metal shapes, Making thin. G. Seibt. 1,625,914; Apr. 26.
- Metal-sheathed sheets, Machine for cutting. C. B. Norris. 1,619,305; Mar. 1.
- Metal sheeting. R. R. Bloss, H. T. Strout, and H. R. Ansel. 1,634,157; July 5.
- Metal sheets, Machine for expanding preslitted. J. A. Halls. 1,654,460; Dec. 27.
- Metal sheets, Machine for feeding and coating. H. Hermann. 1,638,398; Aug. 6.
- Metal sheets or plates, Rolling mill for the production of. H. L. Davies and S. R. Cound. 1,624,931; Apr. 19.
- Metal sheets, preventing the development of stretcher strains in. G. L. Kelley. 1,649,705; Nov. 15.
- Metal spokes, Welding. A. L. Putnam. 1,639,109; Aug. 13.
- Metal stock, Electrical heating of. E. S. Jefferies. 1,647,296; Nov. 1.
- Metal strips, Machine for preparing. J. M. Fedders and F. H. Stoop. 1,640,147; Aug. 23.
- Metal surfaces, Composition for and coating. R. R. Davidson. 1,629,072; May 17.
- Metal surfaces, Preventing the formation of crystals and the deposition of incrustations on. L. Blas. 1,613,430; Jan. 4.
- Metal, Thermostatic. C. E. Fry. 1,648,809; Sept. 27.
- Metal transom cushion-block container. S. E. Turner. 1,632,523; June 14.
- Metal, Transporting unit for calking. E. Shores. 1,650,394; Nov. 22.
- Metal, Treating ferrous. W. F. Hodges. 1,651,891; Dec. 6.
- Metal tubes, Method of and machine for manufacturing spiral. J. Fentress and A. W. Junkunc. 1,617,583; Feb. 15.
- Metal-turning machine, Multiple-spindle. C. M. Peters. 1,628,061; May 10.
- Metal vessels, Hollow handle for. L. A. Brown. 1,637,853; Aug. 2.
- Metal ware, Apparatus for finishing. A. L. Fabens. 1,651,197; Nov. 29.
- Metal wheel. J. A. Charter. 1,618,813; Feb. 22.
- Metal wheel. L. Putnam. 1,618,887; Feb. 22.
- Metal wheel. J. A. Whitcomb. 1,652,653; Dec. 13.
- Metal-wool article. C. Field. 1,649,894; Nov. 22.
- Metal working. W. C. Corryell. 1,618,615; Feb. 22.
- Metal-working apparatus. J. T. Cook, jr., J. W. Murphy, T. J. Brusnicki, and H. C. Goldsmith. 1,645,372; Oct. 11.
- Metal-working implement. C. Johanson. 1,636,744; July 26.
- Metal-working machine. A. E. Drissner. 1,618,583; Feb. 22.
- Metal-working machine. B. M. W. Hanson. 1,624,868; Aug. 12.
- Metal-working machine. B. M. W. Hanson. 1,627,090; May 3.
- Metal-working machine. B. M. W. Hanson. 1,640,993-4; Aug. 30.
- Metal-working machine. G. L. Kelley and J. Winlock. 1,649,704; Nov. 15.
- Metal-working machine. A. Mauser. 1,651,140; Nov. 29.
- Metal-working machine. S. T. Nelson. 1,650,580; Nov. 22.
- Metal-working machine. A. J. Neuhengen. 1,647,653; Nov. 1.
- Metal-working machine. G. Sifkovitz. 1,622,401; Mar. 29.
- Metal-working machine and method. C. F. Topping. 1,615,492; Jan. 25.
- Metal-working machinery, Feeding mechanism for. A. M. Sosa. 1,637,969; Aug. 2.
- Metal-working machines, Gearing for. F. S. Jones. 1,645,194; Oct. 11.
- Metal-working machines, Work feeding and clamping means. F. M. Davis. 1,637,176; July 26.
- Metals and alloys, Purifying and refining. D. R. Tullis. 1,636,881; July 26.
- Metals and alloys thereof, Production of rare. J. W. Marden. 1,648,954; Nov. 15.
- Metals and their compounds from ores and impure materials, Extraction of. A. Paz. 1,614,149; Jan. 11.
- Metals, Apparatus for heat-treating. F. S. Kochendorfer. 1,624,668; Apr. 12.
- Metals, Apparatus for heat treating. F. S. Kochendorfer and A. E. Schulz. 1,653,215; Dec. 20.
- Metals, Apparatus for reclaiming. T. D. Stay and C. O. Mendenhall. 1,630,361; May 31.
- Metals, Apparatus for refining. M. Unger. 1,628,875; May 10.
- Metals, Apparatus for uniting. J. B. Austlin. 1,651,344; Nov. 29.
- Metals, Bonding dissimilar. H. C. Mougey. 1,651,403; Aug. 6.
- Metals, Centrifugal casting of. L. I. Yeomans. 1,630,045; May 24.
- Metals, Centrifugally molding. J. Holthaus. 1,650,987; Nov. 29.
- Metals from liquids and compositions thereof, Recovering. A. L. Feldt. 1,617,206; Feb. 8.
- Metals from slag, Recovering. F. Rosenzweig. 1,643,610; Sept. 27.
- Metals from solutions, Recovering. G. J. Levy. 1,624,172; Apr. 12.
- Metals in a liquid condition and at a predetermined temperature, Maintaining. W. H. Winslow. 1,651,937; Dec. 6.
- Metals, Lead plating of. W. R. Dickens. 1,614,662; Jan. 18.
- Metals, Mold for casting. C. E. Magill. 1,640,843; Aug. 30.
- Metals of the alkali-earth group, Treatment of formates. O. P. C. Bredt. 1,622,991; Mar. 29.
- Metals, Oxidizing nonferrous. G. E. Rohmer. 1,616,233; Feb. 1.
- Metals, Preparing. F. Koref and Hans Hoffmann. 1,617,161; Feb. 8.
- Metals, Sintering refractory. E. E. Schumacher. 1,615,957; Feb. 1.
- Metals, Treating. M. W. Arrowood. 1,617,510; Feb. 15.
- Metals, Uniting dissimilar. H. C. Mougey. 1,644,741; Oct. 11.
- Metals with gases, Reacting. H. R. Carveth. 1,638,471; Aug. 9.
- Metals with high temperature fusing points such as tungsten and preparing wire therefrom. F. Koref and H. Alterthum. 1,650,631; Nov. 29.
- Metals, Working light. J. E. Hoy. 1,647,095; Oct. 25.
- Metals, Working refractory. F. Koref and K. Moers. 1,635,793; July 12.
- Metallic article. A. Pacz. 1,614,684; Jan. 18.
- Metallic articles, Apparatus for use in uniting. J. P. Copland. 1,651,343; Nov. 29.
- Metallic closure structure. R. R. Miles. 1,636,008; July 19.
- Metallic composition. H. Boving. 1,636,763; July 26.

- Metallic corner. G. A. Gallowitz. 1,636,412; July 19.
Metallic drums, Fastening for the covers of. W. M. Bell. 1,642,481; Sept. 13.
Metallic dust, Apparatus for the production of. R. B. Finn. 1,622,434; Mar. 29.
Metallic elements, Connecting. R. Mattice. 1,634,674; July 5.
Metallic fiber article, Consolidated. C. Field. 1,620,530; Mar. 8.
Metallic layer for upper dentures. W. M. Stanbrough. 1,622,683; Mar. 29.
Metallic mesh fabric. S. G. Mandelian. Des. 72,325; Mar. 29.
Metallic mesh fabric. S. G. Mandalian. Des. 74,115; Dec. 20.
Metallic oscillation and constructing same. H. S. Coyer. 1,652,164; Dec. 13.
Metallic packing, Machine for manufacturing. H. P. Rhodes and R. F. Kreiter. 1,634,556; July 5.
Metallic-powder particles, Rounding of. E. Podzus. 1,647,249; Nov. 1.
Metallic sheets and the like, Leveling apparatus for. G. A. Wise. 1,645,637; Oct. 18.
Metallic solutions, Oxidizing. L. P. Clark. 1,649,152; Nov. 15.
Metallic structure, D. H. Bellamore. 1,623,155; Apr. 5.
Metallic structures, Repairing broken. R. Mattice. Re. 16,599; Apr. 19.
Metaldehyde, Manufacture of stabilized. E. Lüscher. 1,631,875; June 7.
Metallo-organic compounds, Making. C. A. Kraus and C. C. Callis. 1,639,947; Aug. 23.
Metalurgical furnace. F. A. Fahrenwald. 1,623,469; Apr. 5.
Metalurgical furnace. B. Talbot. 1,648,247; Nov. 8.
Metalurgical-furnace-feeding mechanism. A. H. Richards. 1,629,968; May 24.
Metalurgical method. J. W. Marden. 1,646,734; Oct. 25.
Metalurgical process. W. E. Greenawalt. 1,618,187; Feb. 22.
Metalurgical process. W. E. Greenawalt. 1,633,091; June 21.
Metalurgical process. W. E. Greenawalt. 1,634,497; July 5.
Meter: See—
Bite meter. Mercury meter.
Current meter. Mileage meter.
Demand meter. Moisture meter.
Density meter. Optical tension meter.
Egg meter. Oscillation meter.
Electric meter. Parking meter.
Electricity meter. Power-factor meter.
Evaporation meter. Pressure meter.
Exposure meter. Production meter.
Flow meter. Pulsation-compensated meter.
Fluid meter. Pump-discharge meter.
Frequency meter. Radiophone meter.
Gas meter. Tension meter.
Gravity meter. Volt-ampere-hour meter.
Induction meter. Volt-ampere meter.
Liquid meter. Water meter.
Maximum-demand meter.
Meter. E. R. Benedict. 1,649,653; Nov. 15.
Meter. J. W. G. Fries. 1,624,095; Apr. 12.
Meter. W. L. Marden. 1,617,407; Feb. 15.
Meter. J. E. McAllister. 1,648,491; Nov. 8.
Meter. M. Smithy. 1,623,562; Apr. 5.
Meter and indicating means therefor. R. L. Deszendorf. 1,645,321; Oct. 11.
Meter and meter-reading device. R. D. Work and A. High. 1,617,932; Feb. 15.
Meter and motor, Fluid. W. H. Richards. 1,625,428; Apr. 19.
Meter-box lid and lock therefor. C. C. Arnett. 1,616,298; Feb. 1.
Meter case. B. F. Wells. 1,616,098; Feb. 1.
Meter casing. P. MacGahan. 1,624,417; Apr. 12.
Meter connection. W. H. Kaiser. 1,621,986; Mar. 22.
Meter connection, Orifice. H. M. Haldeman. 1,631,264; June 7.
Meter for measuring the vertical gradient of the gravity of the earth, Gravitation. W. Schwydar. 1,652,255; Dec. 13.
Meter lock cock. L. C. Swacker. 1,615,181; Jan. 13.
Meter-reading apparatus. J. C. Lowe. 1,621,939; Mar. 22.
Meter seal. C. E. Holmes. 1,648,686; Nov. 8.
Meter stand, Horsepower. R. B. Wasson. 1,652,225; Dec. 13.
Meter top and index box. E. A. Clark. 1,631,472; June 7.
Meter-window structure. L. Schmidt. 1,614,156; Jan. 11.
Metering panel board. G. W. Berthold. 1,616,174; Feb. 1.
Metering panel board. A. C. McWilliams. 1,643,784; Sept. 27.
Metering system. R. D. Evans. 1,615,688; Jan. 25.
Metering system. B. H. Smith. 1,614,212; Jan. 11.
Metering system. T. U. White and J. E. Gardner. 1,614,222; Jan. 11.
Metering system, Remote. P. A. Borden. 1,633,973; June 28.
Metering system, Summation. B. W. Jones. 1,641,762; Sept. 6.
Meters, Alarm register for. W. L. Marden. 1,617,408; Feb. 15.
Meters and the like, Integrating and registering mechanism for flow. C. F. Bullock. 1,618,807; Feb. 22.
Meters, Attachment for electric-current demand. W. H. Sommer. 1,631,987; June 14.
Meters, Automatic governing device for fluid-displacement. T. J. Loftus. 1,630,020; May 24.
Meters, Automatic governing device for fluid-displacement. T. J. Loftus. 1,647,705; Nov. 1.
Meters, Coin device for prepayment. J. Mettler. 1,626,143; Apr. 26.
Meters, Connector and support for. E. P. Bartholomay. 1,623,273; May 31.
Meters, Differential-pressure gauge for orifice. H. P. Westcott. 1,616,522; Feb. 8.
Meters, Guard for electric. C. J. Gillen. 1,647,566; Nov. 1.
Meters, Movement-converting device for. L. A. Lafin. 1,634,755; July 5.
Meters, Pressure temperature compensator and slip integrator for. C. R. Houghton. 1,621,203; Mar. 15.
Methane, Production of. F. Klatte and J. Schil. 1,643,668; Sept. 27.
Methanol production, Catalyst for synthetic. J. C. Woodruff and G. Bloomfield. 1,625,924-9; Apr. 26.
Methanol and apparatus for electrically cutting. O. H. L. Neiss. 1,619,627; Mar. 1.
Methyl formate, Preparation of. M. Mugdan and J. Wimmer. 1,642,689; Sept. 20.
Metrical optic and acoustic recording and reproduction. C. N. Andrews. 1,631,450; June 7.
Mica-coating machines, Suction device for. R. Sprenger and H. Conrad. 1,631,652; June 7.
Mica condenser, Variable. A. W. Franklin. 1,637,445; Aug. 2.
Mica onto a fibrous web, Apparatus for transferring. J. Borer. 1,633,622; June 28.
Mica-plate composition. J. M. Coffey. 1,645,415; Oct. 11.
Mica plates, Apparatus for the manufacture of. J. Borer. 1,644,631; Oct. 4.
Mica sheets, Apparatus for forming composite. L. McCarthy. 1,622,795; Mar. 29.
Mica sheets, Forming composite. L. McCarthy. 1,622,796; Mar. 29.
Micrometer. E. A. Erickson and Z. E. Neal. 1,617,448; Feb. 15.
Micrometer. J. A. Hoge. 1,653,854; Dec. 27.
Micrometer. M. F. Moore and J. M. Smith. 1,648,497; Nov. 8.
Micrometer. H. Sandoz. 1,638,366; Aug. 9.
Micrometer. F. Voigt. 1,625,175; Apr. 19.
Micrometer, Electric. A. V. Mershon. 1,640,464; Aug. 80.
Micrometer gauge. W. L. Bryant. 1,623,574; Apr. 5.
Micrometer gauge. R. Dalkner. 1,618,178; Feb. 22.
Micrometer gauge. R. G. De La Mater. 1,646,393; Oct. 25.
Micrometer gauge. J. W. Parker. 1,629,406; May 17.
Micrometer, Indicating. P. S. Arnold. 1,615,060; Jan. 18.
Micrometers, Wrench and handle for inside. J. A. Schleicher. 1,615,488; Jan. 25.
Microphone. C. A. Culver. 1,616,414; Feb. 1.
Microphone. H. C. Hayes. 1,624,946; Apr. 19.
Microphone circuit. J. Slepien. 1,635,306; Oct. 11.
Microphone, Constant-current glow-discharge. P. Thomas. 1,654,352; Dec. 27.
Microphone, Control for a. A. L. Bower. 1,652,342; Dec. 13.
Microphone, Diaphragmless. E. Reisz. 1,634,210; June 28.
Microphone, Glow-discharge. P. Thomas. 1,626,648; May 8.
Microphone, Glow-discharge. P. Thomas. 1,638,893; Aug. 16.
Microphone mounting. H. G. Kriemeyer. 1,653,109; Dec. 20.
Microphones, Constant-current device for glow-discharge. J. Slepien. 1,642,091; Sept. 13.
Microphonic relay. H. Sell. 1,624,511; Apr. 12.
Microscope. A. Köhler. 1,649,068; Nov. 15.
Microscope attachment. H. W. George. 1,654,369; Dec. 27.
Microscope. Binocular. C. L. Gary. 1,637,563; Aug. 2.
Microscope, Binocular. H. N. Ott. 1,650,646; Nov. 29.
Microscope, Binocular. J. C. Sabel. 1,622,350; Mar. 29.
Microscopes and the like, Light for. L. J. Buttolph. 1,630,233; May 24.
Microscopes, Focusing attachment for. H. R. Posch. 1,617,722; Feb. 15.
Microscopes, Illuminator for. M. Berek. 1,613,583; Jan. 4.
Microscopes, Vertical illuminator for. H. G. Ott. 1,637,348; Aug. 2.
Microscopes with one objective. Additional device for binocular. H. Siedentopf. 1,632,930; June 21.
Microscopic-slide staining and drying apparatus. F. Hnilo and J. Schultz. 1,620,351; Mar. 8.
Mildewproofing of fibrous material. T. H. Fairbrother and A. Renshaw. 1,618,416; Feb. 22.
Mileage meter. H. J. Knerr. 1,654,421; Dec. 27.
Milk and cream can cover, Aerating. R. D. Sykes. 1,651,979; Dec. 6.
Milk and cream cooling device. E. J. Collin. 1,650,326; Nov. 22.

- Milk and cream separators, Carrier for. O. E. Randall. 1,652,837; Dec. 13.
- Milk and for indicating the boiling of the milk, Device for preventing boiling over of. A. Eckstein. 1,646,017; Oct. 18.
- Milk and making same, Condensed. J. R. Hatmaker. 1,626,818; May 3.
- Milk, Apparatus for condensing. R. M. Garrett. 1,640,271; Aug. 23.
- Milk, Apparatus for straining. J. F. Horne. 1,650,214; Nov. 22.
- Milk bottle and cap, Sanitary. C. J. Chase. 1,620,997; Mar. 15.
- Milk-bottle cap. B. Kuhne. 1,638,489-90; Aug. 9.
- Milk-bottle cover. A. Strand. 1,634,800; July 5.
- Milk box. C. Callison. 1,628,827; Apr. 5.
- Milk can. M. Isaacs. 1,635,419; July 12.
- Milk can. J. O'Brien and E. H. Knudson. 1,639,101; Aug. 16.
- Milk-can cover. A. J. Deslauriers. 1,653,261; Dec. 20.
- Milk-can holder and contents dispenser. E. Allen. 1,639,249; Aug. 16.
- Milk-can rack. D. T. Fellenbaum. 1,627,080; May 3.
- Milk-can-stemming and water-heating system. H. F. Berg. 1,623,156; Apr. 5.
- Milk-can-top lock. T. M. Borglum. 1,618,145; Feb. 15.
- Milk cans, Closure connecting and locking arrangement for. E. Menefee. 1,617,860; Feb. 15.
- Milk, Consulting or curing. H. A. Kohman, R. Irvin, and E. S. Stataer. 1,654,176; Dec. 27.
- Milk cooler. G. V. Millar. 1,632,494; June 14.
- Milk, cream, and other milk products, Removal of undesirable foreign flavors and odors from. M. B. MacDonald. 1,644,842; Oct. 11.
- Milk, Device for sanitary handling of. W. Lavallee. 1,636,474; July 19.
- Milk dispenser, Malted. L. E. Morrison. 1,617,922; Feb. 15.
- Milk from milk powder, Apparatus for preparing liquid. 1,637,415; Aug. 2.
- Milk, Method of and apparatus for preheating. I. H. Kendall. 1,618,885; Feb. 22.
- Milk-pail support. E. F. Schuelke. 1,652,586; Dec. 13.
- Milk powder and product produced thereby, Treating. W. G. Hawley. 1,637,311; July 26.
- Milk, Producing dry. W. B. McLaughlin. 1,616,631; Feb. 8.
- Milk products, Treating. U. G. Todd. 1,618,789; Dec. 22.
- Milk separator, Centrifugal. P. M. Sharples. 1,634,759; July 5.
- Milk stool, Sanitary adjustable. F. Anderson. 1,613,779; Jan. 11.
- Milk strainer. F. J. Ziegler. 1,628,021; May 10.
- Milk-transfer system. R. Horton. 1,623,313; Apr. 5.
- Milking apparatus, Cow. G. A. Brodie. 1,644,413; Oct. 4.
- Milking cup. O. Bruun. 1,641,316; Sept. 6.
- Milking harness, Sanitary. T. B. Leman. 1,613,177; Jan. 4.
- Milking machine. S. H. Knapp. 1,644,435; Oct. 4.
- Milking machine. R. C. Pessell. 1,620,916; Mar. 15.
- Milking-machine teat-cup infections, Ring inserter for. T. N. Drummond. 1,629,207; May 17.
- Milking-machine units, Cleansing. A. M. Mitchell. 1,613,185; Jan. 4.
- Milking machines. Liner stretcher for teat cups of. S. Alt. 1,648,436; Nov. 3.
- Milking machines, Milk applicator for use with. R. Preston. 1,633,953; June 28.
- Milking machines, Pail cover for. H. B. Babson. 1,653,756; Dec. 27.
- Milking machines, Vacuum pump and compressor for. J. F. Devine. 1,643,296; Sept. 27.
- Milk. See—
- Attrition mill. Expanding mill.
 - Ball mill. Flour mill.
 - Ball or tuze mill. Forage mill.
 - Boring mill. Pulling mill.
 - Centrifuging mill. Grinding mill.
 - Cold mill. Pulverizing or grinding mill.
 - Comminuting mill. Reel mill.
 - Compound mill. Roller mill.
 - Corn and meal mill. Rolling mill.
 - Disintegrating mill. Tube-forming mill.
 - Drum mill. Tumbling mill.
- Milk. J. W. Bowman. 1,651,319; Nov. 29.
- Milk. W. W. Gibsou. 1,621,775; Mar. 22.
- Milk and rolling structural shapes, Continuous. W. L. Jones. 1,632,295; June 14.
- Milk rolls, Process and apparatus for finishing. J. W. Cornelius. 1,644,512; Oct. 4.
- Milk stop motion, Pulling. D. Cram. 1,651,514; Dec. 6.
- Milk with a particularly-arranged feed roller, Three-roller sugar-cane. A. M. Jan Meesters. 1,621,007; Mar. 15.
- Milling attachment. O. Hawkins. 1,628,975; May 17.
- Milling cutter. R. P. Dewey. 1,614,288; Jan. 11.
- Milling cutter. C. W. Metzger. 1,650,290; Nov. 22.
- Milling cutter. S. J. Welter. 1,621,224; Mar. 15.
- Milling cutter. C. A. West. 1,615,969; Feb. 1.
- Milling jig. M. G. Berthon. 1,646,988; Oct. 25.
- Milling machine. F. C. Allen. 1,626,590; May 3.
- Milling machine. J. J. Coffey. 1,619,057; Mar. 1.
- Milling machine. B. P. Graves. 1,654,496; Dec. 27.
- Milling machine. H. W. Melling. 1,623,801; Apr. 5.
- Milling machine. S. Webb. 1,646,891; Oct. 25.
- Milling-machine attachment. E. J. Janac. 1,614,245; Jan. 11.
- Milling-machine collet and end mill. J. M. Redinger. 1,618,998; Mar. 1.
- Milling-machine construction. F. A. Parsons. 1,636,755; July 26.
- Milling machine for desaming billets. F. J. Malone. 1,625,127; Apr. 19.
- Milling machines, Overarm for. B. P. Graves. 1,653,846; Dec. 27.
- Milling, polygonal holes, Device for. P. Demmel. 1,631,582; June 7.
- Milling products, Improving. H. C. J. H. Gelissen. 1,620,458; Mar. 8.
- Milling tool. L. Lenhardt. 1,623,927; Apr. 5.
- Mills, Device for use with routing. E. G. Deye and H. F. Haverbusch. 1,627,153; May 3.
- Mills, Intermediate bagasse chute for cane-sugar. J. A. Perez. 1,644,607; Oct. 4.
- Mills, Intermediate bagasse chute for cane-sugar. J. A. Perez. 1,644,608; Oct. 4.
- Mills, Manipulator for rolling. J. A. Hellstrom. 1,618,947; Feb. 22.
- Mills, Plate-lifting mechanism for rolling. T. McCabe. 1,620,032; Mar. 8.
- Mills, Plug-bar mechanism for piercing. J. J. Harkins. 1,647,693; Nov. 1.
- Mills, Supporting and driving construction for gyratory mill. J. J. Burke. 1,616,844; Feb. 8.
- Milo-maize heads, Short-stem. W. B. Johnson. 1,650,521; Nov. 22.
- Mincing machine. G. J. Metters and K. W. Nolan. 1,618,990; Mar. 1.
- Mine cages, Car-chocking means for. S. J. Reap. 1,635,956; July 12.
- Mine door. T. E. Littlejohn. 1,620,669; Mar. 15.
- Mine explosions, Preventing. W. E. Trent. 1,642,912; Sept. 20.
- Mine, Hydrostatic. W. Dieter. 1,617,874; Feb. 15.
- Mine post or jack. F. H. Schwerin. 1,653,126; Dec. 20.
- Mine prop, Reinforced. M. J. Conway. 1,642,603; Sept. 20.
- Mine roof-supporting mechanism and operating same, Coal. E. C. Morgan. 1,646,417; Oct. 25.
- Mine tie. R. H. Worrell. 1,653,330; Dec. 20.
- Mine-track tie. E. G. Holst. 1,631,034; May 31.
- Mining and conveying machine. R. Peale. 1,628,329; Dec. 27.
- Mining and loading machine. E. C. Morgan. 1,637,783; Aug. 2.
- Mining and loading machinery. E. C. Morgan. 1,650,027; Nov. 22.
- Mining and loading machine. E. O'Toole. 1,638,507; Aug. 2.
- Mining apparatus. J. H. Crawford. 1,617,941; Feb. 15.
- Mining apparatus. M. P. Holmes. 1,614,033-5; Jan. 11.
- Mining apparatus. M. P. Holmes. 1,635,623; July 12.
- Mining apparatus. M. P. Holmes. 1,641,430; Sept. 6.
- Mining apparatus. M. P. Holmes. 1,645,003; Oct. 11.
- Mining apparatus. M. P. Holmes. 1,643,870; Nov. 8.
- Mining apparatus. M. P. Holmes. 1,634,213; Dec. 27.
- Mining apparatus. E. C. Morgan. 1,642,885; Sept. 20.
- Mining apparatus. L. E. Simmons. 1,653,826; Dec. 27.
- Mining, Apparatus for. F. B. Miller. 1,643,000; Sept. 20.
- Mining coal. E. C. Pratt. 1,624,505; Apr. 12.
- Mining drill. F. W. Thurston. 1,642,183; Sept. 13.
- Mining machine. B. Benedict. 1,644,227; Oct. 4.
- Mining machine. G. Bodin. 1,632,990; June 21.
- Mining machine. F. Cartledge. 1,635,780; July 12.
- Mining machine. F. Cartledge. 1,648,876; Nov. 8.
- Mining machine. C. E. Davis. 1,626,132; Apr. 26.
- Mining machine. K. Davis. 1,614,287; Jan. 11.
- Mining machine. E. J. Doberstein. 1,644,183; Oct. 4.
- Mining machine. M. P. Holmes. 1,614,032; Jan. 11.
- Mining machine. M. P. Holmes. 1,645,002; Oct. 11.
- Mining machine. M. P. Holmes. 1,647,118; Oct. 25.
- Mining machine. M. P. Holmes. 1,648,878; Nov. 8.
- Mining machine. M. P. Holmes. 1,648,880; Nov. 8.
- Mining machine. H. C. Johansen. 1,645,007; Oct. 11.
- Mining machine. J. M. London. 1,635,488; July 12.
- Mining machine. W. T. McCullough. 1,644,345; Oct. 4.
- Mining machine. R. B. Metzner. 1,643,220; Sept. 20.
- Mining machine. E. C. Morgan. 1,637,531; Aug. 2.
- Mining machine. E. C. Morgan. 1,639,050; Aug. 16.
- Mining machine. R. C. Osgood. 1,644,943; Oct. 11.
- Mining machine. N. Pedulla. 1,638,361; Aug. 9.
- Mining machine. T. E. Pray. 1,616,597; Feb. 8.
- Mining machine. F. W. Vodoz. 1,632,810; June 21.
- Mining machine. R. J. Wood. 1,644,216; Oct. 4.
- Mining machine. C. W. Wyman. 1,650,578; Nov. 22.
- Mining-machine carrier. K. Davis. 1,628,809; May 10.
- Mining-machine chain lubricator. H. L. Seekamp. 1,620,135; Mar. 8.
- Mining machine, Coal. C. V. Shanaberger. 1,654,055; Dec. 27.
- Mining-machine skid. E. J. Doberstein. 1,630,472; May 31.
- Mining machines, Cutting apparatus for. J. Cameron. 1,630,255; May 31.
- Mining mechanism. F. T. Lobby. 1,653,111; Dec. 20.
- Mining of minerals, Supporting roof strata during the. W. P. Taber. 1,630,589; May 31.
- Mining, System of. J. W. Pearce. 1,622,887; Mar. 29.
- Mining, System for. J. W. Pearce. 1,632,800; Dec. 21.

- Mines, Hoisting system for. K. Küppers. 1,642,585; Sept. 13.
- Mineral aggregates consisting of trap rock, lime stones, sandstones, and types of shale rocks, Hardening and toughening broken. J. H. Amies. 1,645,891; Oct. 18.
- Mineral-concentrating plant. A. France. 1,616,701; Feb. 8.
- Mineral feed and preparing the same. V. R. Rupp. 1,637,428; Aug. 2.
- Mineral machine. J. B. Fender. 1,645,378; Oct. 11.
- Mineral-ol derivative and making same. G. Alleman. 1,637,510; Aug. 2.
- Mineral oil, Refining. T. Hellthaler. 1,645,530; Oct. 18.
- Mineral oils or the like from sand or rock, Separating. M. E. Eyleman. 1,615,121; Jan. 18.
- Mineral, particularly slate, Coloring granulated. H. C. Fisher. 1,631,628; June 7.
- Mineral separator. R. S. Baldwin and W. A. Johnston. 1,632,210; June 14.
- Mineral separator. R. S. Baldwin and W. A. Johnston. 1,648,833; Nov. 8.
- Mineral separator. G. R. Delamater. 1,634,898; July 5.
- Minerals, Decomposing insoluble. G. Berge. 1,642,667; Sept. 20.
- Minerals from crude ores, Selective flotation of. O. Visser. 1,636,974; July 26.
- Minerals from ores by the use of sulphones, as flotation reagents, Concentration of. F. Laist and F. F. Frick. 1,629,080; May 17.
- Minerals, Treatment of earthy. W. Feldenheimer. 1,622,069; Mar. 22.
- Minnow box. G. M. Messinger. 1,630,131; May 24.
- Minnow trap, Sectional folding. J. M. Brautigam and M. C. Bright. 1,638,238; Aug. 9.
- Mirror. F. A. Benford. 1,615,735; Jan. 25.
- Mirror. J. L. Drake. 1,653,040; Dec. 20.
- Mirror. W. T. Henry. 1,622,114; Mar. 22.
- Mirror. J. Hurewitz. 1,651,771; Dec. 6.
- Mirror. H. H. Kirk-Schneider. 1,632,236; June 14.
- Mirror. M. A. Nathanson. 1,652,678; Dec. 13.
- Mirror, Adjustable. W. E. Miller. 1,633,120; June 21.
- Mirror, Adjustable. J. J. Obrien. 1,634,883; July 5.
- Mirror adjuster. C. M. Lee. 1,625,260; Apr. 19.
- Mirror and rack, Combined. H. Pick. 1,638,509; Aug. 9.
- Mirror and table mirror, Combined hand. J. J. Walsh. 1,638,672; Aug. 9.
- Mirror, Automobile. E. Ischinger. 1,634,743; July 5.
- Mirror, Automobile. B. Jassen. 1,629,458; May 17.
- Mirror, Automobile. R. A. Streiff. 1,650,161; Nov. 22.
- Mirror bracket. W. La Hodny. 1,623,483; Apr. 6.
- Mirror bracket. W. La Hodny. 1,651,896; Dec. 5.
- Mirror bracket. W. La Hodny and F. X. Kibitz. 1,647,803; Nov. 1.
- Mirror bracket, Adjustable. V. Bourdon. 1,622,486; Mar. 22.
- Mirror bracket, Adjustable. V. Bourdon. 1,630,777; May 31.
- Mirror, Decentered. S. L. Lebby. 1,651,719; Dec. 6.
- Mirror, Flexing. C. F. Jenkins. Re16,767; Oct. 11.
- Mirror for automobiles, Rear-view. E. Porter. 1,643,420; Sept. 27.
- Mirror frame or similar article. A. G. Kintz. Des. 73,748; Nov. 1.
- Mirror frame or similar article, Hand. A. G. Kintz. Des. 73,749; Nov. 1.
- Mirror mounting. W. Eustis. 1,631,193; June 7.
- Mirror mounting. C. M. Lee. 1,627,395; May 3.
- Mirror, Nonglare. G. F. and W. H. Colbert. 1,647,857; Nov. 1.
- Mirror, Novelty. H. Rangel. 1,651,836; Dec. 6.
- Mirror or picture and loud speaker frame, Combined. H. L. Hahn. Des. 73,742; Nov. 1.
- Mirror or similar article. W. S. Bechtold. Des. 72,469; Apr. 19.
- Mirror or similar article, Back of a. W. M. Langsdorf. Des. 72,100; Mar. 1.
- Mirror or similar article, Frame for a hand. A. G. Kintz. Des. 73,747; Nov. 1.
- Mirror or similar article, Hand. P. B. Ball. Des. 72,056; Feb. 22.
- Mirror, Overhead signal. S. S. Law. 1,622,157; Mar. 22.
- Mirror, Rear-view. J. R. Olshel. 1,633,282; June 21.
- Mirror, Shaving. J. J. Donovan. 1,615,936; Feb. 1.
- Mirror, Stand. L. M. Andrews. Des. 72,748; May 21.
- Mirror support. J. F. Whitehead. 1,648,379; Oct. 18.
- Mirror support, Adjustable. A. Wallace. 1,622,554; Mar. 29.
- Mirror support, Rear-view. B. F. Kelly. 1,626,938; May 8.
- Mirror, Two-way oscillating. C. F. Jenkins. Re16,790; Nov. 22.
- Miter box. A. S. Beyland. 1,653,386; Dec. 20.
- Miter box. M. S. Dearborn. 1,640,312; Aug. 23.
- Miter box. C. Grubbs. 1,638,011; Aug. 9.
- Miter box. E. A. Hoover and W. C. Kirchner. 1,633,409; June 21.
- Miter box. D. Pelletier. 1,625,424; Apr. 19.
- Mitering machine. E. Cheshire. 1,612,906; Jan. 4.
- Mitt. Utensil. K. L. Drummond. Des. 72,551; May 3.
- Mitten. G. A. Wetzstein. 1,633,300; June 21.
- Mixer. See—
- Color mixer. Direct mixer.
- Concrete mixer. Drink mixer.
- Concrete, mortar, and plaster mixer. Drug mixer.
- Feed mixer.
- Mixer. See—
- Fuel mixer. Primer and gas mixer.
- Gas mixer. Shortening mixer.
- Grain mixer. Soap and water mixer.
- Paint mixer. Torch mixer.
- Plaster mixer. Vibratory mixer.
- Mixer. B. E. Earle. 1,649,816; Nov. 22.
- Mixer. J. H. Gunnison. 1,623,590; Apr. 5.
- Mixer. C. B. Lambert. 1,645,062; Oct. 11.
- Mixer and proportioner. E. P. Halliburton. 1,646,582; Oct. 25.
- Mixer and server, Hot chocolate and milk. V. Weinberger, M. Jakobovits, and I. Roth. 1,654,356; Dec. 27.
- Mixer, concrete-paving machine, Twin-. F. A. Koehring. 1,628,622; Apr. 5.
- Mixer for soda-dispensing faucets, Automatic. F. I. Gunnell and R. Miller. 1,641,164; Sept. 6.
- Mixers, Automatic device for operating and closing discharge doors on. H. S. Simpson. 1,615,525; Jan. 25.
- Mixing mechanism for. J. H. Mosel. 1,619,626; Mar. 1.
- Mixers, Flexible seal for. F. E. Bager. 1,640,174; Aug. 23.
- Mixers, Water-measuring controller for. E. H. Lichtenberg. 1,649,693; Nov. 15.
- Mixing and disintegrating apparatus. F. M. Wichman, and A. P. Hartlapp. 1,649,939; Nov. 22.
- Mixing and distributing mechanism. O. W. Vallier. 1,615,730; Jan. 25.
- Mixing and straining machine. S. B. Lindley. 1,618,988; Jan. 1.
- Mixing apparatus. F. B. Leopold. 1,613,663; Jan. 11.
- Mixing apparatus. H. Prillwitz. 1,630,406; May 31.
- Mixing apparatus, Liquid-. E. T. Conant and L. S. McLane. 1,625,592; Apr. 19.
- Mixing apparatus, Small batch-. H. Levy. 1,645,912; Jan. 1.
- Mixing chocolate and similar substances, Vessel for. H. W. Hickley. 1,645,990; Oct. 18.
- Mixing device. R. Bowen. 1,646,388; Oct. 25.
- Mixing device. G. Pickle. 1,636,127; July 19.
- Mixing device. A. L. Lathrop. 1,638,585; Aug. 9.
- Mixing device. M. B. Lloyd. 1,626,741; May 3.
- Mixing, grading, and sorting granular and pulverulent material, Method and apparatus for. E. Sprenger. 1,636,081; July 19.
- Mixing machine. N. M. Anderson. 1,621,345; Mar. 15.
- Mixing machine. J. H. L. Boettcher. 1,649,564; Nov. 15.
- Mixing machine. J. Sautier. 1,622,294; Mar. 29.
- Mixing, Method and apparatus for. N. C. Johnson. 1,646,540; Oct. 25.
- Mixtures, Thickening. A. L. Genter. 1,642,673; Sept. 20.
- Mobile machinery. R. I. Alexander. 1,631,184; June 7.
- Mobile machinery, Steering mechanism for. R. I. Alexander and A. H. Epton. 1,631,183; June 7.
- Mobile machinery, Traction equipment for. R. I. Alexander and A. H. Epton. 1,631,182; June 7.
- Modeling machine, Opposite-replica. K. Evertz. 1,651,757; Dec. 6.
- Modeling outfit, Plant and flower. T. C. Graham. 1,630,082; May 24.
- Modulating system. C. L. G. Fortescue. 1,654,285; Dec. 27.
- Modulating system. R. V. L. Hartley. 1,638,993; Aug. 16.
- Modulating system. F. Mohr. 1,624,498; Apr. 12.
- Modulation control, Modifying device for. J. H. Hammond, jr. 1,635,993; July 19.
- Modulation indicator. A. A. Oswald. 1,654,090; Dec. 27.
- Modulation system. R. L. Davis. 1,654,281; Dec. 27.
- Modulation system. L. Kuhn. 1,630,391; May 31.
- Modulation, System of. L. W. Chubb. 1,660,93; Nov. 29.
- Moistener and deflector, Hot-air. C. W. Roeder. 1,646,837; Oct. 25.
- Moistener and sealer device. J. A. Mitchell and L. J. Zahn. 1,621,078; Mar. 15.
- Moisture controlling device. G. S. Witham, jr. 1,646,515; Oct. 25.
- Moisture-extracting apparatus. H. W. Jespersen. 1,615,388; Jan. 25.
- Moisture indicating and recording. G. S. Witham, jr. 1,626,060; Apr. 26.
- Moisture measuring and recording apparatus. G. S. Witham, jr. 1,646,516; Oct. 25.
- Moisture meter. L. W. Thompson. 1,645,077; Oct. 11.
- Moisture percentage in a web and roll construction therefor, Device for determining. A. R. Harvey. 1,623,675; Apr. 5.
- Moistureproof article. R. S. Fleming. 1,616,849; Feb. 8.
- Moisture trap, Renewable. R. P. Exten. 1,649,818; Nov. 22.
- Molasses and product resulting therefrom, Treating. J. H. Leftwich. 1,643,686; Sept. 27.
- Molasses, Desugaring. G. L. Spencer. 1,646,323; Oct. 18.
- Molasses for manufacturing compressed yeast, Cleaning. R. Kusserow. 1,642,929; Sept. 20.
- Mold. See—
- Battery-box mold. Cement-block mold.
- Bead mold. Cheese mold.
- Brick mold. Concrete-block mold.
- Building-block mold. Confection mold.
- Bushing mold. Dental mold.
- Butter mold. Grave-marker mold.
- Candy mold. Hot-top mold.
- Casting mold. Ice-cream-dipper mold.

- Mold: See—
Ice-cream mold. Sand mold.
Ingot mold. Sash-weight mold.
Multicellular mold. Scraper mold.
Package mold. Tire mold.
Pencil mold. Tire-vulcanizing mold.
Plastic-material mold. Vulcanizing mold.
Retread mold. Wall mold.
Retreading mold.
- Mold. V. A. T. Albright. 1,643,651; Sept. 27.
Mold. C. L. Fischer. 1,642,947; Sept. 20.
Mold. C. E. Johnson. 1,637,013; Aug. 2.
Mold. E. Peterson. 1,653,120; Dec. 20.
Mold. H. D. Rindberg. 1,648,194; Nov. 8.
Mold. T. H. Seifert. 1,649,549; Nov. 15.
Mold. W. M. Sheffield. 1,650,771; Nov. 29.
Mold. G. I. Smith. 1,634,047; June 28.
Mold. G. I. Smith. 1,642,564; Sept. 13.
Mold. C. Vaughan. 1,645,725-29; Oct. 18.
Mold. C. Vaughan. 1,645,731-2; Oct. 18.
Mold. J. H. Williams. 1,613,214; Jan. 4.
Mold and ingot. E. Gathmann. 1,643,241; Sept. 20.
Mold and making same. Casting. M. S. Clawson. 1,653,344; Dec. 20.
Mold and making the same. W. M. Sheffield. 1,621,281; Mar. 15.
Mold-charge-guiding device. K. E. Peiler. 1,629,926; May 24.
Mold chill. E. A. Spring. 1,649,199; Nov. 15.
Mold chill. E. A. Spring. 1,650,240; Nov. 22.
Mold construction. F. L. Johnson. 1,624,343; Apr. 12.
Mold cooling means. D. W. Candler. 1,650,260; Nov. 22.
Mold core. S. Flamm. 1,618,647; Feb. 22.
Mold core, Collapsible. C. Hutchins. 1,632,899; June 21.
Mold disk for dough presses. C. Wüthrich. 1,618,256; Feb. 22.
Mold-engraving machine. A. J. Fleiter and T. A. Miller. 1,639,910; May 24.
Mold-facing. W. D. Moore. 1,634,266; July 5.
Mold for casting concrete poles and masts in upright positions. R. Meeg-Larssen and A. Bu. 1,651,776; Dec. 6.
Mold for casting metals. O. Junker. 1,615,086; Jan. 18.
Mold for tie-casting screening buttons. W. A. Parker. 1,635,592; Oct. 26.
Mold for expansion-joint strips. A. C. Fisher. 1,651,878; Dec. 6.
Mold for forming containers. W. H. Oliver and E. S. Culver. 1,637,532; Aug. 2.
Mold for forming hollow panels. C. H. Terry. 1,631,839; June 7.
Mold form. W. E. Keller. 1,630,796; May 31.
Mold-form hanger. J. Downing. 1,615,362; Jan. 25.
Mold holder. Concrete. E. C. Richards. 1,651,041; Nov. 29.
Mold-liner machine. C. E. Syler. 1,646,327; Oct. 18.
Mold or similar article. Jelly. A. Katzingner. Des. 73,786; Nov. 8.
Mold-ramming machine. J. Stone. 1,620,406; Mar. 8.
Mold support. M. Schnaier. 1,628,434; May 10.
Molded article and method of and apparatus for producing it. F. W. Temple. 1,650,307; Nov. 22.
Molded articles. Making. W. N. Briggs. 1,631,668; June 7.
Molded articles, Making. C. F. Peterson. 1,610,758; Mar. 1.
Molded articles, Preparing a material suitable for use in the manufacture of. S. J. Hayde. Re16,750; Sept. 27.
Molded composition and making the same. N. R. Haas. 1,613,875; Feb. 22.
Molded compositions. Making. L. E. Barringer and C. F. Peterson. 1,619,692; Mar. 1.
Molded objects of contrasting colors. Producing. J. Lynch. 1,612,825; Jan. 4.
Molded panel and making same. F. H. Tupper. 1,637,362; Aug. 2.
Molded product and process for its manufacture. H. F. Weiss and R. R. Norris. 1,628,206; May 10.
Molder or sticker device. A. E. L. Von Boecklin and L. M. Larson. 1,636,400; July 19.
Molder's flask. H. D. Bickford. 1,622,623; Mar. 29.
Molder's flasks. Adjustable pin and guide for. G. C. Coleman. 1,647,904; Nov. 1.
Molder's pattern. D. J. Campbell. 1,626,224; Apr. 26.
Molding a fin into a casting. T. F. Hughes. 1,616,626; Feb. 8.
Molding and vulcanizing apparatus. J. L. G. Dykes. 1,644,327; Oct. 4.
Molding and vulcanizing apparatus. J. R. Gammeter. 1,632,830; June 21.
Molding apparatus. J. M. Ahlgren and J. V. Breaud. 1,630,157; May 24.
Molding apparatus. D. J. Campbell. 1,626,225; Apr. 26.
Molding apparatus. H. S. Lee. 1,635,369; July 12.
Molding apparatus. A. Masztles. 1,651,215; Nov. 29.
Molding apparatus. H. D. Nitche. 1,628,057; May 10.
Molding apparatus. G. B. Sherman. 1,625,560; Apr. 5.
Molding apparatus and method. G. H. Davis. 1,641,923; Sept. 6.
Molding apparatus. Building-block. N. Ranshoff. 1,649,731; Nov. 15.
Molding apparatus, Tubular. E. W. Bierman. 1,637,465; Aug. 2.
- Molding articles from plastic substances, Apparatus for. D. M. Dean. 1,618,864; Feb. 22.
Molding composition containing orthocresol-aldehyde resin binder and making same. Cold. C. Ellis. 1,645,693; Oct. 18.
Molding composition, Organic. S. M. Hull. 1,648,179; Nov. 8.
Molding core. J. C. Poetz. 1,631,154; June 7.
Molding cutter. W. W. Hartman. 1,631,526; June 7.
Molding cutter. J. J. Witt. 1,635,732; July 12.
Molding device. J. T. Smith. 1,653,232; Dec. 20.
Molding flask. D. C. Coble. 1,616,177; Feb. 1.
Molding. Holding. J. C. Abel. 1,625,637; Apr. 19.
Molding machine. E. O. Beardsley and W. F. Piper. 1,618,630; Feb. 22.
Molding machine. W. J. Irwin. 1,621,114; Mar. 15.
Molding machine. H. S. Lee. 1,622,875; Mar. 29.
Molding machine. W. Lewis. 1,638,665; Aug. 9.
Molding machine. N. Littell. 1,623,257; Apr. 5.
Molding machine. M. Menzel. 1,634,753; July 5.
Molding machine. J. F. Mullaney. 1,643,392; Sept. 27.
Molding machine. W. H. Nicholls. 1,614,966; Jan. 18.
Molding machine. W. H. Nicholls. 1,636,383; July 19.
Molding machine. J. T. Stoney and K. Purwin. 1,613,856; Jan. 11.
Molding machine, Automatic universal. G. H. Davis. 1,614,601; Jan. 18.
Molding machine, Centrifugal. W. H. Beatty. 1,620,427; Mar. 8.
Molding machine, Concrete. W. Graham. 1,632,286; June 14.
Molding machine, Jarring. M. Lewis. 1,614,527; Jan. 18.
Molding machine, Universal grate-bar. T. Thomsen, sr., and T. Thomsen, jr. 1,652,332; Dec. 13.
Molding machines, Charging apparatus for. R. J. Leary. 1,619,301; Mar. 1.
Molding machine. Mechanism for controlling and operating. F. J. Wood. 1,620,050; Mar. 8.
Molding machines, Poppet valve for air-jolted. H. B. Swan and J. L. Crawford. 1,643,427; Sept. 27.
Molding machinery, Actuating mechanism for. G. Weiss. 1,613,631; Jan. 11.
Molding press. J. J. Chamberlain. 1,613,500; Jan. 4.
Molding press. H. Davis. 1,641,922; Sept. 6.
Molding press, Hydraulic. C. C. Jacobson. 1,638,962; July 26.
Molding presses, Mechanical movement for. W. Huck. 1,648,401; Nov. 8.
Molding-rubbing apparatus. K. A. Weber. 1,617,469; June 7.
Molding, Seat. F. R. Eaglesfield. 1,652,302; Dec. 13.
Molding strip. W. Marshall. 1,627,915; May 10.
Molding strip, Adjustable. G. Larsen. 1,653,713; Dec. 27.
Molding, Upholstery. C. P. Schlegel. 1,649,981; Nov. 22.
Moldings of partially-cured phenolic condensation product. Casting. S. Smith. 1,627,209; May 3.
Molds, Air cooling of permanent. H. S. Lee. 1,643,780; Sept. 27.
Molds, Charging device for tilting. W. D. Moore. 1,620,831; Mar. 15.
Molds, Clamping device for. C. J. E. Maxwell. 1,645,609; Oct. 18.
Molds, Cooling. T. A. Bragg. 1,632,992; June 21.
Molds, Cooling. O. A. Hanford. 1,632,962; June 21.
Molds, Cooling. R. La France. 1,633,028; June 21.
Molds for molding stone pattern plates, Producing sand. K. Werner. 1,634,731; July 5.
Molds, Hopper for. J. J. Hoffmann. 1,635,844; July 12.
Molds, Hot top for. N. F. Egler. 1,650,700; Nov. 29.
Molds, Making foot. P. Mathewson. 1,642,930; Sept. 20.
Molds, Making ingot. G. A. Dornin. 1,620,011; Mar. 8.
Molds, Overjacket for. A. Diehl. 1,635,074; July 5.
Molds, Set-up and core bar for casting ingot. J. E. Perry. 1,643,419; Sept. 27.
Molds with carbon. Apparatus and method of coating. H. S. Lee. 1,635,370; July 12.
Mole trap. C. A. Wyman. 1,626,903; May 3.
Molten glass, Apparatus for feeding. L. D. Soubler. 1,633,044; June 21.
Molten glass, Delivering charges of. R. La France. 1,618,290; Feb. 22.
Molten glass, Feeding. K. E. Peiler. 1,631,107; May 31.
Molten glass, Method and apparatus for feeding. G. E. Howard. 1,617,598; Feb. 15.
Molten glass, Method and apparatus for feeding. G. E. Howard. 1,620,207; Mar. 8.
Molten glass, Method of and apparatus for shaping. K. E. Peiler. 1,617,220; Feb. 8.
Molybdenum trioxide and tungsten trioxide, Production of. R. Schwarzkopf. 1,629,004; May 17.
Money-changer holder. F. F. Neal. 1,619,880; Mar. 8.
Money, Cleaning and pressing paper. G. W. Leightlinder. 1,629,938; May 17.
Money holder. C. Gross. 1,637,936; Aug. 2.
Money tray for bankers and the like. A. Mortimer. 1,619,628; Mar. 1.
Monkey wrench. J. M. Beszczak. 1,643,002; Sept. 20.
Monomonomer phosphate, Making. E. L. Larison, Jr., F. R. Frick, and R. J. Caro. 1,628,792; May 17.
Monogram. E. E. Erskine. 1,635,077; July 5.
Monogram plates, Device for holding. R. E. Miller. 1,645,919; Oct. 18.
Monolithic structure and making same. W. H. Kobbé. 1,647,528; Nov. 1.

- Monolithic structure and making the same. A. M. Kohler. 1,631,822; June 7.
- Monorail system, Electrified. F. C. Harris. 1,623,920; Apr. 5.
- Monument. E. G. Ladewich. Des. 72,623-4; May 10.
- Monument die. L. E. Hill. Des. 71,831; Jan. 11.
- Monument, Grave. P. L. De Young. 1,643,154; Sept. 20.
- Mooring device. E. Petersen. 1,621,809; Mar. 22.
- Mooring masthead. R. M. Getchell. 1,622,140; Mar. 22.
- Mop. J. D. Chadwick. 1,648,637; Sept. 27.
- Mop. J. Glover. 1,617,329; Feb. 15.
- Mop. G. Gould. 1,623,672; Apr. 5.
- Mop. J. Haugen. 1,650,211; Nov. 22.
- Mop. J. S. Higgins, Jr. 1,626,036; Apr. 26.
- Mop. V. Istoric. 1,618,930; Feb. 22.
- Mop. C. K. Kellogg. 1,634,260; July 5.
- Mop. A. C. Kootz. 1,642,115; Sept. 13.
- Mop. A. Maszczyk. 1,619,624; Mar. 1.
- Mop. C. A. and T. A. Purvis. 1,653,415; Dec. 20.
- Mop. P. M. Roche. 1,619,040; Mar. 1.
- Mop. A. Schreiber. 1,618,891; Feb. 22.
- Mop. H. M. Sturgis. 1,633,830; June 28.
- Mop. H. M. Sturgis. 1,637,595; Aug. 2.
- Mop. H. Tscherning. 1,650,056; Nov. 22.
- Mop. H. M. Van Deusen. 1,624,641; Apr. 12.
- Mop. A. G. Wheller. 1,618,252; Feb. 22.
- Mop and duster. J. M. Lester. 1,634,937; July 5.
- Mop and the like. J. and T. Dixon. 1,645,043; Oct. 11.
- Mop and wringer, Combined. B. Gershovitz. 1,632,470; June 14.
- Mop and wringer, Combined. E. Jumonville. 1,620,028; Mar. 8.
- Mop-assembling apparatus. M. Kenner. 1,630,187; May 24.
- Mop construction, Wringer-. W. J. Barber. 1,645,681; Oct. 18.
- Mop, Dish. C. R. Collins. 1,651,674; Dec. 6.
- Mop, Drying. S. L. Smith. 1,621,909; Mar. 22.
- Mop, Dust. N. S. Hillyard. 1,645,809; Nov. 8.
- Mop dust collector, Dry-. L. L. Smith. 1,629,590; May 24.
- Mop, Floor. W. L. Crouch. 1,643,878; Sept. 27.
- Mop, Floor. T. G. Johnson. 1,617,525; Feb. 15.
- Mop for baseboards. D. M. Allen. 1,619,324; Mar. 1.
- Mop, Fountain. L. Doak. 1,628,956; Mar. 17.
- Mop, Fountain, H. L. Engendahl and E. W. MacLean. 1,613,790; Jan. 11.
- Mop handle. J. S. Roux. 1,636,714; July 26.
- Mop-handle fastener. J. W. Doty. 1,627,960; May 10.
- Mop head. P. Brown. 1,653,951; Dec. 27.
- Mop head. T. G. Johnson. 1,617,524; Feb. 15.
- Mop head. H. Saul. 1,618,553; Feb. 22.
- Mop heads, Making. E. Jumonville. 1,625,857; Apr. 26.
- Mop holder. B. C. Clement. 1,613,442; Jan. 4.
- Mop holder. U. J. and A. F. Ewing. 1,630,418; May 31.
- Mop holder. N. Hill. 1,635,978; July 12.
- Mop holder. S. L. Toplitz. 1,644,799; Oct. 11.
- Mop holder. H. Tscherning. 1,651,853; Dec. 6.
- Mop machine. J. C. and C. M. Huguley. 1,635,322; July 12.
- Mop, Self-soaping. H. S. Bennett. 1,643,762; Sept. 27.
- Mop, Wash. A. C. Kootz. 1,628,789; May 17.
- Mop, Wet. W. Hertzberg. 1,633,584; June 28.
- Mop wringer. W. F. Bazewick. 1,626,445; Apr. 26.
- Mop wringer. W. Butler. 1,617,320; Feb. 15.
- Mop wringer. F. Clay. 1,633,518; June 21.
- Mop wringer. J. M. Ewing. 1,633,098; June 3.
- Mop wringer. H. B. Gotthard. 1,627,383; May 3.
- Mop wringer. S. Schulman. 1,652,800; Dec. 13.
- Mopping and scrubbing machine. A. L. Prince. 1,619,313; Mar. 1.
- Morgue table and embalming board. C. J. Christensen. 1,614,651; Jan. 18.
- Morris-chair frame. C. C. Kusterer. Des. 73,231-2; Aug. 9.
- Mortar and the like, Trench. H. Newton. 1,633,710; June 28.
- Mortar-applying device. A. H. Sanders. 1,626,972; May 8.
- Mortar-laying machine. S. Jensen. 1,613,833; Jan. 11.
- Mortar, Prepared fire-proof. R. L. Taylor. 1,645,030; Oct. 11.
- Mortar to hollow bricks, Applying. K. E. W. Jagdmann. 1,640,658; Aug. 30.
- Mortising and boring machine. C. G. Wilderson. 1,619,049; Mar. 1.
- Mortising machine. J. C. Blanca, Jr. 1,637,464; Aug. 2.
- Mortising machine. H. De Wallace. 1,642,723; Sept. 20.
- Mortising machine. A. V. Edwards. 1,634,097; June 28.
- Mortising machine. W. L. Miller. 1,623,925; Apr. 5.
- Mortising machine. J. Miller. 1,635,723; July 12.
- Mortising machine, Door-lock-. S. Hunter. 1,633,370; June 21.
- Mortuary crypts, Headblock for. J. C. Berger. 1,617,144; Feb. 8.
- Mosaic work, Wooden. E. A. Noel. 1,632,497; June 12.
- Mosquito larva, Product for destroying. E. C. C. Roubaud and R. A. Veillon. 1,625,627; Apr. 19.
- Mossed frames for floral wreaths, Machine for preparing. H. P. Hanson. 1,624,238; Apr. 12.
- Moth bag. H. Mock. 1,637,857; Nov. 8.
- Mothproof bag. M. E. Knit. 1,622,323; Mar. 20.
- Mothproofed article. M. G. Minaeff and A. P. Sachs. 1,634,794; July 5.
- Mothproofing. M. G. Minaeff. 1,634,793; July 5.
- Mothproofing. M. G. Minaeff and A. P. Sachs. 1,634,790; July 5.
- Mothproofing composition. M. G. Minaeff. 1,634,791; July 5.
- Mothproofing composition. M. G. Minaeff. 1,634,792; July 5.
- Motion-controlling mechanism. J. W. Watson. 1,635,913; July 12.
- Motion-recording apparatus. A. Kirner. 1,642,114; Sept. 13.
- Motion-retarding mechanism (fire escape). A. J. Coughtry. 1,647,506; Nov. 1.
- Motion-transmission mechanism. L. C. Hartmann. 1,616,369; Feb. 1.
- Motion-transmitting mechanism. J. P. Daly. 1,639,428; Aug. 19.
- Motion-transmitting mechanism. G. Goodline. 1,622,780; Mar. 29.
- Motor. See—
- Air motor. Pneumatic motor.
 - Autostat motor. Pressure motor.
 - Clutch motor. Rotary fluid motor.
 - Commutator motor. Rotary motor.
 - Crude-oil motor. Rowboat motor.
 - Current motor. Sewing-machine motor.
 - Electric motor. Solenoid motor.
 - Electric step-by-step motor. Spring motor.
 - Fluid motor. Squirrel-cage motor.
 - Fluid-operated motor. Synchronous motor.
 - Fluid-pressure motor. Toy motor.
 - Gas motor. Traction motor.
 - Hot-air motor. Two-cycle motor.
 - Hydraulic motor. Two-stroke-cycle motor.
 - Hydrocarbon motor. Ventilating motor.
 - Induction motor. Water motor.
 - Induction synchronous motor. Wave and tide motor.
 - Internal-combustion motor. Wave motor.
 - Internal-combustion rotary motor. Wind and tide motor.
 - Magnetic motor. Wind-driven motor.
 - Nonsynchronous motor. Wind motor.
 - Outboard motor. Windshield-cleaner motor.
- Motor. H. P. Adie and P. Gilpin. 1,624,905; Apr. 19.
- Motor. J. M. Gilmore. 1,613,884; Jan. 11.
- Motor. C. Lecrenier. 1,627,100; May 3.
- Motor. R. L. Lee. 1,621,937; Mar. 22.
- Motor. H. Lubé. 1,649,836; Nov. 22.
- Motor. P. Marchetti. 1,624,269; Apr. 12.
- Motor. C. B. Quick. 1,612,985; Feb. 4.
- Motor. L. J. Wahl. 1,615,604; Jan. 25.
- Motor and transmitter unit, Electric. J. M. Naul. 1,652,319; Dec. 13.
- Motor and transmitter unit, Electric. J. M. Naul. 1,652,492; Dec. 13.
- Motor, Autostarter for induction. H. E. White. 1,642,001; Sept. 13.
- Motor-board suspension. P. P. Henshall. 1,625,659; Apr. 19.
- Motor brace. A. W. McLaughlin. 1,646,062; Oct. 18.
- Motor bracket. W. Ernst. 1,633,009; June 22.
- Motor bracket. E. Moss and W. Ernst. 1,628,855; May 17.
- Motor brake. A. Devandre. Re16,723; Aug. 30.
- Motor brake. C. Jobst. 1,639,038; Aug. 16.
- Motor brake. J. Kirchensteiner. 1,637,117; July 26.
- Motor-carriage hood. C. W. A. Hannebohn. 1,653,704; Dec. 27.
- Motor cars and the like, Storage buildings for. K. Disney. 1,627,959; May 10.
- Motor casing, Vented. R. F. Page. 1,642,083; Sept. 13.
- Motor compressor. E. G. Sanford. 1,650,769; Nov. 29.
- Motor-compressor apparatus. R. P. Pescara. 1,629,923; May 24.
- Motor-compressor unit. R. P. Pescara. 1,629,927; May 24.
- Motor compressor unit, Internal-combustion. P. P. Pescara. 1,615,133; Jan. 15.
- Motor construction. J. T. Janette. 1,651,061; Nov. 29.
- Motor construction, Thermal gasifying. G. J. Burns. 1,626,783; May 3.
- Motor control. B. W. Jones. 1,632,603; June 14.
- Motor control. N. L. Mortensen. 1,652,831; Dec. 13.
- Motor-control mechanism. C. H. McCullough. 1,640,086; Aug. 28.
- Motor-control system. J. Eaton. 1,631,673; June 7.
- Motor-control system. J. A. Hepperlen. 1,651,889; Dec. 6.
- Motor-control system. W. S. H. Hamilton. 1,628,402; May 10.
- Motor-control system. A. L. Harvey and N. K. Andersen. 1,621,011; Mar. 15.
- Motor-control system. E. C. Hellwig. 1,622,122; Mar. 22.
- Motor-control system. B. W. Jones. 1,614,198; Jan. 11.
- Motor-control system. E. E. Kleinschmidt. 1,620,359; Mar. 8.
- Motor-control system. E. I. Staples. 1,619,380; Mar. 1.
- Motor control, System of. N. Minorsky. 1,633,822; June 28.
- Motor-control system, Single-phase induction-. W. Weiler. 1,637,886; Aug. 2.
- Motor controls, Locking device for. J. F. Nevius. 1,639,612; Aug. 16.
- Motor controller. D. H. Chason. 1,627,593; May 10.

- Motor controller. D. H. Chason. 1,643,292; Sept. 27.
 Motor controller. W. Driver. 1,644,820; Oct. 11.
 Motor controller. C. T. Evans. 1,616,684; Feb. 8.
 Motor controller. A. J. Liebenberg. 1,615,019; Jan. 18.
 Motor controller. W. B. Park. 1,625,773; Apr. 19.
 Motor controller. E. W. Seeger. 1,638,884; Aug. 16.
 Motor controller. E. W. Seeger. 1,646,171; Oct. 18.
 Motor controller. G. R. Townsend. 1,633,833; June 28.
 Motor cycle. G. L. Wallis. 1,631,443; June 7.
 Motor-cycle stand. C. W. Jeske. 1,622,383; Mar. 29.
 Motor-cycle support. B. B. Driscoll. 1,643,006; Sept. 20.
 Motor-cycle trailer attachment. W. J. Fox. 1,633,945; Jan. 11.
 Motor-cycle trailer attachment. W. J. Fox. 1,633,086; June 21.
 Motor cycles, Combined handle bar and actuating device for the change-speed gears of. O. Dehne. 1,651,587; Dec. 6.
 Motor-cycles, Foot accelerator for. D. McDougall. 1,642,376; Sept. 13.
 Motor cycles, Valve-operating structure for. A. Rossi. 1,624,365; Apr. 12.
 Motor cylinders for carbon deposit, Treatment of internal-combustion-. J. F. Canning. 1,640,690; Aug. 30.
 Motor-disconnecting means. O. Wittel. 1,645,887; Oct. 18.
 Motor drive, Outboard-. H. J. Hillborn. 1,634,942; July 5.
 Motor-driven apparatus. J. T. Janette. 1,613,034; Jan. 4.
 Motor-driven apparatus, Controller for. R. G. Lockett. 1,638,860; Aug. 16.
 Motor-driven devices, Controller for. R. G. Lockett. 1,638,861; Aug. 16.
 Motor-driven fans or the like, Driving connection for. H. G. Reibel. 1,648,996; Nov. 15.
 Motor-driven machines of the multilunit type, Controller for. T. H. Rodman and P. W. Darlington. 1,616,760; Feb. 8.
 Motor-driven shears. D. F. Morse. 1,642,259; Sept. 13.
 Motor exciting system, Induction. W. Seiz. 1,637,057; July 26.
 Motor fuel. H. P. Bassett. 1,641,520; Sept. 6.
 Motor fuel. C. E. H. North and A. H. Hudson. 1,637,007; July 26.
 Motor fuel, Making. R. Cross. 1,631,401; June 7.
 Motor-fuel-testing composition. V. Serravallo and E. Weis. 1,615,143; Jan. 18.
 Motor heat indicator. H. H. Boyce. Des. 72,981-84; July 5.
 Motor meter. D. H. Pulley. Des. 73,268; Aug. 16.
 Motor-meter protector. J. P. Wilson. 1,627,261; May 3.
 Motor mounting. R. Albrecht. 1,617,784; Feb. 15.
 Motor mounting. E. Q. Bangs. 1,645,680; Oct. 18.
 Motor mounting. W. Ernst. 1,617,837; Feb. 15.
 Motor mounting. E. Moss. 1,647,743; Nov. 1.
 Motor or pump, Rotary air. J. Whiting. 1,648,092; Nov. 8.
 Motor radiators, Heating element for. J. E. Schell. 1,632,857; June 21.
 Motor sets, Double-range variable-speed induction-. E. B. Shand. 1,637,393; Aug. 2.
 Motor shears. A. S. Reichel. 1,613,126; Jan. 4.
 Motor starter, Synchronous. W. C. Goodwin. 1,633,938; June 28.
 Motor-starting system. C. A. Johnson. 1,633,943; June 28.
 Motor-starting system. R. J. Wensley. 1,633,965; June 28.
 Motor stop, Automatic. A. N. Winsley. 1,642,315; Sept. 13.
 Motor support. A. J. Gifford. 1,613,031; Jan. 4.
 Motor support, Booster-. C. T. Westlake. 1,638,843-4; July 26.
 Motor suspension, Yielding. F. M. Holden. 1,635,213; July 12.
 Motor system, Reciprocating. C. S. Weyandt. 1,637,717; Aug. 2.
 Motor vehicle. A. Moorhouse. 1,647,838-9; Nov. 1.
 Motor-vehicle frame. A. T. Sturt and W. F. Pfander. 1,629,234; May 17.
 Motor way or street, One-way. C. T. Eldredge. 1,629,782; May 24.
 Motor with extra cooling of the air or fuel mixture before the admission into the working cylinders. O. W. Hult. 1,636,937; July 26.
 Motors, Adjustable support for electric. O. B. Woodrow. 1,632,261; June 14.
 Motors and apparatus therefor, Starting induction. H. O. Bree. 1,637,292; July 26.
 Motors and the like, Low-speed governor for spring. F. N. Milzer. 1,631,324; June 7.
 Motors, Antifreezing water heater for internal-combustion. C. Manassero. 1,632,658; June 14.
 Motors, Auxiliary air intake for. P. W. Stephens. 1,615,527; Jan. 25.
 Motors, Bimetallic rotor for induction. C. E. Johnson. 1,650,795; Nov. 29.
 Motors, Brush-shifting device for alternating-current. H. Schrage. 1,648,698; Nov. 8.
 Motors, Clutch for spring. V. M. Wilson. 1,645,269; Oct. 11.
 Motors, Control circuits for. R. W. Davenport. 1,630,731; May 31.
 Motors, Control of polyphase electric. P. H. Stevens. 1,645,827; Oct. 18.
 Motors, Control system for electric. C. A. Kelsey. 1,628,409; May 10.
 Motors, Controller for electric. N. L. Mortensen. 1,643,127; Sept. 20.
 Motors, Controller for electric. E. W. Seeger. 1,637,054; July 28.
 Motors, Controlling driving. P. Weiske. 1,615,665; Jan. 25.
 Motors, Controlling reciprocating. C. S. Weyandt. 1,637,401; Aug. 2.
 Motors, Dual ignition for outboard. A. J. Caille. 1,644,709-10; Oct. 11.
 Motors, End frame ring for. J. F. Lincoln. 1,629,876; May 24.
 Motors, Fluid-control means for. F. Pokorny. 1,639,532; Aug. 16.
 Motors, Governing device for internal-combustion. P. L. Scott. 1,620,053; Apr. 26.
 Motors, Governor for fluid. R. F. Onsrud. 1,648,960; Nov. 15.
 Motors, Ignition plug for internal-combustion. C. A. Rudqvist. 1,632,314; June 14.
 Motors in definite speed relation, Maintaining. M. C. Moser. 1,624,580; Apr. 12.
 Motors, Injector, for mineral oil. A. Franchetti. 1,633,820; June 21.
 Motors, Inlet manifold for internal-combustion. R. M. Pierson. 1,645,347; Oct. 11.
 Motors, Liquid-circulation apparatus for internal-combustion. W. Wilson. 1,622,557; Mar. 29.
 Motors, Oil gauge for. A. Kaplowitz. 1,615,762; Jan. 25.
 Motors, Oil indicator for gas. C. Forsberg. 1,638,049; July 19.
 Motors or auxiliary propulsion units, Controlling the operation of booster. R. J. McCarty, Jr. 1,648,023-24; Nov. 8.
 Motors, Overload device for alternating-current. C. H. Rippl. 1,621,173; Mar. 15.
 Motors, Protective system for. W. H. Smith. 1,637,356; Aug. 2.
 Motors, Removable stator for electric. C. L. Daun and P. E. Keller. 1,626,028; Apr. 26.
 Motors, Reverse control for. M. Brown. 1,629,989; May 24.
 Motors, Reversing means for internal-combustion. C. F. Sjöman and C. G. Pettersson. 1,651,296; Nov. 29.
 Motors, Safety cranking device for internal-combustion. D. L. Oulton. 1,626,209; Apr. 26.
 Motors, Short-circuiting device for electric. F. J. Bullivant. 1,643,111; Sept. 20.
 Motors, Short-circuiting device for electric. C. L. Kennedy. 1,652,482; Dec. 13.
 Motors, Silencer for valve-in-head. O. M. Davis. 1,613,846; Jan. 4.
 Motors, Speed-controlling mechanism for. C. B. Hutchison. 1,625,543; Apr. 19.
 Motors, Speed governor for electric. R. Lee. 1,630,394; May 31.
 Motors, Starting apparatus for synchronous. H. V. Putman. 1,638,274; Aug. 9.
 Motors, Starting box for controlling the electric current to machine. H. E. Campbell. 1,629,951; May 24.
 Motors, Starting means for induction. B. Stechbart. 1,641,908; Sept. 6.
 Motors, Starting switch for electric starting. E. Kyhl. 1,624,255; Apr. 12.
 Motors, Starting switch for single phase. R. C. Leake. 1,631,102; May 31.
 Motors, Starting synchronous. C. T. Hibbard. 1,640,322-23; Aug. 23.
 Motors, Starting system for synchronous. C. T. Hibbard. 1,640,321; Aug. 23.
 Motors, Supplying a combustible mixture to internal-combustion. W. A. Edward. 1,628,357; May 10.
 Motors, Switching and starter apparatus of electric. H. O. Bree. 1,632,534; June 14.
 Motors, System of speed control for induction. J. I. Hull. 1,619,673; Mar. 1.
 Motors, Temperature control for internal-combustion. A. H. Allerheiligen, C. Erichsen, and L. F. Crain. 1,646,338; Oct. 18.
 Motors, Temperature-regulating system for aeronautical. H. C. Mummert. 1,623,128; Apr. 5.
 Motors, Valve for internal-combustion. K. R. Manville. 1,614,749; Jan. 18.
 Mounting, Structure. B. F. Lollis. 1,617,856; Feb. 15.
 Mounting construction. E. Koeb and B. J. Goldsmith. 1,633,183; June 21.
 Mounting for articulators, Anatomical. C. L. Coffin. 1,614,828; Jan. 18.
 Mounting, for heating units. W. F. Clark and E. Strasky. 1,618,364; Feb. 22.
 Mounting, Hand-strap. L. M. Clark. 1,650,429; Nov. 22.
 Mounting inductions. H. Gernsbach. 1,618,002; Feb. 15.
 Mounting, Roller-cutter. W. L. Childs. 1,652,348; Dec. 13.
 Mounting, Universal. B. F. Kelly, R. F. Miller, and L. G. Winkler. 1,618,985; Mar. 1.
 Mouse or rat trap. F. Bonchina. 1,616,636; Feb. 22.
 Mousetrap. E. C. Hardesty. 1,621,981; Mar. 22.
 Mousetrap. G. A. Jones. 1,642,151; Sept. 13.
 Mousetrap. F. Kesel and G. Nichols. 1,630,123; May 24.
 Mousetrap. C. F. McDonald. 1,650,458; Nov. 22.
 Mousetrap. W. S. Mountford. 1,630,241; May 24.

- Mouth cleaning and massaging device. E. J. Jones. 1,681,133; June 7.
 Mouthpiece. J. Ferretti. 1,646,580; Oct. 25.
 Mouthpiece adjuster. E. L. Simpson. 1,629,932; May 24.
 Mouth specula, Tongue-spatula attachment for. E. D. Hammond. 1,618,996; Jan. 11.
 Movable devices, Counterbalancing means for. G. Klein. 1,639,094; Aug. 16.
 Movable seat. F. T. Schreiber. 1,636,078; July 19.
 Movement of sheets, Changing the direction of. A. Broadmeyer. 1,640,108; Aug. 28.
 Moving bodies, Angle-indicating device for. J. H. Hammond, Jr. 1,619,205; Mar. 1.
 Moving bodies, Apparatus for predicting the movements of. C. D. Stoneham. 1,649,870; Nov. 22.
 Moving material, Apparatus for slitting continuously. T. B. Munroe. 1,642,081; Sept. 13.
 Moving sign. M. Sachs and S. Fllederbaum. 1,632,315; June 14.
 Moving webs, Delivering. M. Casticum. 1,619,192; Mar. 1.
 Mower. D. Jordan. 1,616,629; Feb. 8.
 Mower. A. McKellar. 1,635,050; July 5.
 Mower, Electric lawn. P. S. Haselton. 1,643,656; Sept. 27.
 Mower cutting apparatus. F. Swickard. 1,644,962; Oct. 11.
 Mower, Cutting blade of lawn. G. O'B. Murphy and D. Venham. 1,644,889; Oct. 11.
 Mower, Lawn. N. C. Darling. 1,617,045; Feb. 8.
 Mower, Lawn. A. J. Greer. 1,652,125; Dec. 6.
 Mower, Lawn. E. O. Hutsell. 1,647,867; Nov. 1.
 Mower, Lawn. A. Lindstedt. 1,615,126; Jan. 18.
 Mower, Lawn. H. B. Newton. 1,623,433; Apr. 5.
 Mower, Lawn. J. B. Peebles and C. M. Stewart. 1,614,388; Jan. 1.
 Mower, Lawn. C. A. Peters. 1,627,252; May 3.
 Mower, Lawn. F. Pollitron. 1,622,923; Mar. 29.
 Mower, Lawn. R. Sera. 1,622,611; Mar. 29.
 Mower-pitman connection. J. H. Schonhoff. 1,640,053; Aug. 23.
 Mower, Railway. W. S. Andrews. 1,629,984; May 24.
 Mower, Traction gang lawn. C. C. Worthington. 1,618,502; Feb. 22.
 Mower, Tractor-propelled lawn. C. C. Worthington. 1,614,333; Jan. 11.
 Mowers and the like, Repair guard for. S. W. Gregersen. 1,619,721; Mar. 1.
 Mowers and tractors, Hitching mechanism for connecting. E. Baseman. 1,646,519; Oct. 25.
 Mowers, Automatic adjusting apparatus for lawn. C. E. Thompson, Jr. 1,652,690; Dec. 13.
 Mowers, Extension guard for. J. T. Kamp. 1,642,246; Sept. 13.
 Mowers, Grass catcher for lawn. E. F. Kaiser. 1,652,363; Dec. 13.
 Mowers, Power attachment for. J. A. Cook. 1,638,680; Aug. 9.
 Mowers, Rake attachment for lawn. E. S. Wright. 1,633,802; June 28.
 Mowers with partly-covering hood, Cutting mechanism for. J. Methner. 1,616,430; Feb. 1.
 Mowing and reaping machine. J. Rudland. 1,630,033; May 24.
 Mowing machine. C. S. Brown. 1,644,653; Oct. 4.
 Mowing-machine clip. A. D. Goodwin. 1,642,808; Sept. 20.
 Mowing-machine tongue support. T. A. George. 1,630,421; May 31.
 Mowing machines, binders, headers, harvesters, or the like, Tractor push drive for. L. P. Draper. 1,628,038; May 10.
 Mowing machines, Cutter guard for. S. E. Lyle. 1,645,606; Oct. 18.
 Mowing machines, Seed-gathering reel attachment for. J. A. Gaylord. 1,650,705; Nov. 29.
 Mowing means, Hay-. P. G. Light. 1,619,620; Mar. 1.
 Miscellaneous composition and making the same. D. Bonomini. 1,614,645; Jan. 18.
 Mud guard. A. Delange. 1,616,115; Feb. 1.
 Mud guard for motor vehicles. E. F. Dauteuil. 1,618,919; Feb. 22.
 Mud run. E. E. Brosius. 1,637,405; Aug. 2.
 Muff furnace. W. G. Bridge and W. A. Pervier. 1,644,107; Oct. 4.
 Muff furnace. E. A. Colby, F. Maehlen, and G. L. Van Allen. 1,631,474; June 7.
 Muff furnace, Electric resistance. W. Rohm. 1,619,829; Aug. 8.
 Muffler. M. R. Brilliant. 1,637,516; Aug. 2.
 Muffler. J. F. Goetz. 1,613,322; Jan. 4.
 Muffler. E. P. Gray. 1,619,115; Mar. 1.
 Muffler. A. E. Hampton and C. S. Marshall. 1,618,876; Feb. 22.
 Muffler. F. M. Leary. 1,618,451; Feb. 22.
 Muffler. W. T. Smith. 1,614,635; Jan. 18.
 Muffler. J. W. Williams. 1,631,391; June 7.
 Muffler and cut-out, Combined. J. C. Beery. 1,615,564; Jan. 25.
 Muffler and cut-out, Combined. R. M. Taylor. 1,615,147; Jan. 18.
 Muffler and heater, Combined. J. W. Keenan. 1,641,086; Aug. 30.
 Muffler and heater, Combined. W. A. Kysor. 1,627,855; May 10.
 Muffler and motor vehicle frame. A. T. Sturt and W. F. Pfander. 1,629,235; May 17.
 Muffler and sanding device. F. H. Waite. 1,646,130; Oct. 18.
 Muffler construction. T. S. Kemble. 1,638,309; Aug. 9.
 Muffler cut-out. F. A. Armstrong. 1,626,908; May 8.
 Muffler cut-out. H. Butler. 1,637,761; Aug. 2.
 Mulling cabinet. V. Cano. 1,649,151; Nov. 15.
 Multicellular mold. D. M. Bernotow. 1,619,914; Mar. 8.
 Multigraph machines, Plate for. E. Preisler. 1,621,271; Mar. 15.
 Multigraph signature plates, Attaching means for. E. Buck. 1,629,376; May 17.
 Multiple shoe. A. C. Menningen. 1,614,531; Jan. 18.
 Multiple plural switch. N. R. Mayoza. 1,639,952; Aug. 23.
 Multiple receiving device. W. Laurentius. 1,617,957; Feb. 15.
 Multiple receiving device. F. Toewe. 1,617,970; Feb. 15.
 Multiple spring. J. W. Fry. 1,643,840; Sept. 27.
 Multiple-station automatic machine. F. E. Best. 1,628,103; May 10.
 Multiple switch. G. W. Grisdale. 1,615,450; Jan. 25.
 Multiple switch. R. Law and E. J. Sweda. 1,643,894; Sept. 27.
 Multiplex-channel repeater system. W. A. Dudley and K. B. Duerr. 1,617,993; Feb. 15.
 Multiplication, Frequency. K. Schmidt. 1,637,283; July 6.
 Multiplication of two factors, Device for the mechanical. O. Eppenstein. 1,638,190; Aug. 9.
 Multiplication system, Frequency. K. Schmidt. 1,632,626; June 14.
 Multi-ply bag. J. N. Tooker and J. F. Harley. 1,633,296; June 21.
 Multiplying machine. J. W. Bryce. 1,622,279; Mar. 29.
 Multiplying original records and the plates used in said process. E. Fabian. 1,616,358; Feb. 1.
 Multiplying records. W. Ritzfeld. 1,645,930; Oct. 18.
 Multireostat. O. W. Grose and H. Fisher. 1,613,994; Jan. 1.
 Multitray connection. G. Crisson and H. C. Silent. 1,623,095; Apr. 5.
 Multiwheels, Drive mechanism for. A. I. Marcum. 1,644,023; Oct. 4.
 Muntin clasp, Card-holding. J. H. Ball. 1,648,103; Jan. 8.
 Mural decoration. C. R. Lamb. 1,640,781; Aug. 30.
 Muscle beater. H. L. Bevier. 1,625,977; Apr. 26.
 Mushroom paste. A. G. Hupfel, Jr., and T. M. Rector. 1,633,379; June 21.
 Music and speech, Reproduction of. H. B. Wier. 1,617,428; Jan. 15.
 Music, Apparatus for teaching. G. A. McAleavey. 1,613,400; Jan. 4.
 Music-box movements, Control for. C. C. Ritz. 1,618,226; Feb. 22.
 Music, Device for teaching time in. L. W. Scutt. 1,623,688; May 17.
 Music holder, Portable. E. L. Eshleman. 1,649,217; Nov. 15.
 Music-leaf turner. C. L. Knapp. 1,625,898; Apr. 26.
 Music-leaf turner. H. Stevens. 1,617,185; Feb. 8.
 Music notebooks, Page turner for. W. Koop. 1,653,634; Dec. 27.
 Music rack. C. W. A. Koelbeck. 1,618,760; Feb. 22.
 Music, Reproduction of. W. L. Morris. 1,623,968; Apr. 12.
 Music rolls and the like, Container for. C. S. Burton. 1,639,166; Aug. 16.
 Music-scale-indicating device. C. M. Jones. 1,643,303; Sept. 27.
 Music-sheet turner. S. Haiml. 1,633,408; June 21.
 Music stand. E. Thingern. 1,623,565; Apr. 5.
 Music-teaching device. A. J. Stinson. 1,619,693; Mar. 1.
 Music turner. F. M. Elvey. 1,646,353; Oct. 18.
 Musical appliance. C. Fanella. 1,628,039; May 10.
 Musical bar. H. E. Winterhoff. 1,632,751; June 14.
 Musical dynamics, Recorder for. J. Hofmann. 1,614,984; Jan. 18.
 Musical instrument. C. Andersh. 1,648,713; Nov. 8.
 Musical instrument. B. A. Askelson. 1,643,044; Sept. 20.
 Musical instrument. W. Bartholomae. 1,618,908; Feb. 22.
 Musical instrument. W. Bartholomae. 1,622,219; Mar. 22.
 Musical instrument. F. C. Bender. 1,623,381; Apr. 5.
 Musical instrument. F. C. Bender. 1,651,799; Dec. 6.
 Musical instrument. M. M. Charlston. 1,650,112; Nov. 22.
 Musical instrument. O. B. Friedel. 1,623,175; Apr. 5.
 Musical instrument. W. M. Griffin. 1,653,169; Dec. 20.
 Musical instrument. W. Hansell. 1,631,862; June 7.
 Musical instrument. W. J. Hebs and J. Hultsreen. 1,646,059; Oct. 18.
 Musical instrument. G. W. Horton. 1,636,133; July 19.
 Musical instrument. R. H. Howe. 1,653,570; Dec. 20.
 Musical instrument. E. Jerome. 1,652,627; Dec. 13.
 Musical instrument. C. H. R. Longbottom. 1,638,495; Aug. 9.
 Musical instrument. K. P. Nesseler. 1,624,061; Apr. 12.
 Musical instrument. S. H. Perron. 1,639,106-7; Aug. 16.
 Musical instrument. R. B. Richmond. 1,632,197; June 14.
 Musical instrument. C. F. Smith. 1,615,961; Feb. 1.

- Musical instrument. C. Springborn. 1,622,009; Mar. 22.
Musical instrument. R. Vana. 1,653,241; Dec. 20.
Musical instrument. Automatic. C. Maerten, jr. 1,633,487; July 21.
Musical instrument, Automatic. G. M. Russell. Re16,729; Aug. 30.
Musical instrument; Combined peg head and neck for stringed. J. R. Stewart. Des. 71,936; Jan. 25.
Musical instrument, Fretted. F. W. Altpeter. 1,618,626; Feb. 22.
Musical instrument, Keyboard. S. Kucharski. 1,643,562; Sept. 27.
Musical instrument of the stringed type. R. A. Hazell. 1,625,538; Apr. 19.
Musical-instrument player devices, Spool mechanism for. C. H. Green. 1,647,112; Oct. 25.
Musical instrument, Pneumatically-operated. W. C. Colignon. 1,627,011; May 3.
Musical instrument, Record-controlled. T. F. Cheek. 1,613,441; Jan. 4.
Musical instrument, Record-controlled. T. F. Cheek. 1,613,501; Jan. 4.
Musical-instrument string. H. Cohn. 1,617,102; Feb. 8.
Musical instrument, Stringed. A. Montfort. Des. 72,433; Apr. 12.
Musical instrument, Stringed. F. Travaglini. 1,634,730; July 5.
Musical instrument, Stringed. J. N. Ward. 1,638,423; Aug. 9.
Musical instrument, Tuning slide for. F. Holton. 1,652,306; Dec. 13.
Musical instrument with electromagnetic operation, Keyboard. A. H. Maitre and V. H. G. Martin. 1,628,507; May 10.
Musical instruments, Actuating mechanism for air-blown. P. Beghetti. 1,616,737; Feb. 8.
Musical instruments and the like, Pneumatic-valve controlling mechanism for. A. P. Gustafson. 1,638,485; Aug. 9.
Musical instruments, Bow for stringed. J. Stadniczek. 1,646,118; Oct. 18.
Musical instruments, Electrical attachment for. A. M. Lifshitz. 1,646,061; Oct. 18.
Musical instruments, Expression mechanism for mechanical. H. E. Tower. 1,646,001; Oct. 18.
Musical instruments, Fastening connector for strings of. A. Burdwise. 1,619,563; Mar. 1.
Musical instruments, Frame for sounding boards of stringed. A. Ellert. 1,653,555; Dec. 20.
Musical instruments, Frame for stringed. A. Ellert. 1,618,521; Feb. 22.
Musical instruments, Guide device for. S. Lasco. 1,639,345; Aug. 16.
Musical instruments, Instruction device for. H. C. Klink. 1,640,125; Aug. 23.
Musical instruments, Keys, Key-valve pad for. P. Arthur. 1,635,775; July 12.
Musical instruments, Motor hanger for mechanical. H. E. Tower. 1,617,279; Feb. 8.
Musical instruments, Playing percussion. A. Angyal. 1,621,449; Mar. 15.
Musical instruments, Pneumatic action for. H. J. La Cole and W. Urquhart. 1,638,345; Aug. 9.
Musical instruments, Pneumatic player mechanism for. T. P. Brown. 1,634,171; June 28.
Musical instruments, String. H. Fischer. 1,623,667; Apr. 5.
Musical instruments, Support for. W. Naujoks and E. E. McLaughlin. 1,646,165; Oct. 18.
Musical instruments, Tailpiece for stringed. H. W. Weymann. 1,615,152; Jan. 18.
Musical instruments, Tension-controlling mechanism for. U. Urquhart. 1,653,935; Dec. 27.
Musical instruments, Transposing device for. J. B. Fiala. 1,638,297; Aug. 9.
Musical instruments, Valve for automatic. H. Walker. 1,652,963; Dec. 13.
Musical string-instrument tuner. R. F. Pecina and E. V. Carlson. 1,626,753; May 8.
Musical transformation chart. J. Wolf-Marjanski. 1,630,246; May 24.
Musket sight, Telescopic. H. K. Rutherford and W. E. Krotze. 1,613,807; Jan. 11.
Mustache, Apparatus for the cut of the. P. L. M. V. Calmels. 1,633,978; June 28.
Mute. A. B. Pinar. 1,644,272; Oct. 4.
N-butyl ethyl barbituric substance. E. H. Volwiler. 1,621,094; Mar. 15.
N-butyl resorcinol. A. R. L. Dohme. 1,649,672; Nov. 15.
N-dihydro-dianthraquinone-azine compounds and making same. J. H. Sachs. 1,640,724; Aug. 30.
N-dihydro-1-2-2'anthraquinoneazine, Making. L. H. Ulich and R. J. Goodrich. 1,634,473; July 5.
Nail. F. Contes. 1,620,193; Mar. 8.
Nail. F. P. Leonard. 1,619,944; Mar. 8.
Nail and like straightening device. H. W. Haegler. 1,639,289; Aug. 16.
Nail buffer. H. MacDougall. 1,643,164; Sept. 20.
Nail buffer, Finger and thumb. M. P. Beach. 1,646,848; Oct. 25.
Nail, Clenching wire. G. A. Curtis. 1,623,465; Apr. 5.
Nail-driving implement. A. E. Taylor. 1,621,761; Mar. 22.
Nail-expansion anchor. C. H. Klein. 1,637,419; Aug. 2.
Nail, Furring. J. M. Thorpe. 1,641,303; Sept. 6.
Nail magazine. T. Yamakishi. 1,633,154; June 21.
Nail-making machine. M. D. Phelan. 1,627,666; May 10.
Nail package. W. B. Palmer. 1,637,128; July 26.
Nail, Plasterer's. G. F. Voight. 1,645,674; Oct. 18.
Nail-punch holder. L. Poirier. 1,644,948; Oct. 11.
Nail, screw nail, and the like. E. Lytton. 1,631,044; May 31.
Nail, screw nail, and the like. E. Lytton. 1,648,855; Nov. 8.
Nail-sorting device. O. H. Hovda. 1,629,385; May 17.
Nail-sorting device. O. H. Hovda. 1,634,192; June 28.
Nail stripper. C. E. Smith. 1,645,938; Oct. 18.
Nail, Stripper. C. E. Bowers. 1,631,397; June 7.
Nailing block, Ground-strip. P. Gustavson. 1,648,387; Nov. 8.
Nailing machine. W. J. Miller. 1,613,473; Jan. 4.
Nailing machine. E. C. Northrup. 1,626,868; May 3.
Nailing machine. E. R. Pope. 1,620,782; Mar. 15.
Nailing machine. E. R. Pope. 1,632,085; June 14.
Nailing machines, Automatic releasing and braking device for. E. Alibert. 1,638,906; Aug. 16.
Nailing machines, Nail box for. E. Alibert. 1,634,226; June 28.
Nailing mechanism. J. B. Hadaway. 1,646,402; Oct. 25.
Nails, brads, or the like from wire, rod or the like machine for manufacturing. F. Humphris. 1,632,703; June 14.
Nails or other articles from sheet or strip metal or material, Machine for manufacturing. F. Humphris. 1,622,144; Mar. 22.
Name plate. S. G. Brooks. 1,616,438; Feb. 8.
Name plate and sign frame. A. E. Dieudonne. 1,638,761; Aug. 9.
Name plates and other articles, Attaching means for. A. H. Eddy. 1,634,937; July 5.
Name plates and the like, Securing. A. H. Eddy. 1,634,936; July 5.
Napkin and the like, Folding same, Folded. P. J. Christman. 1,642,487; Sept. 13.
Napkin dispenser. F. W. Thorp. 1,646,121; Oct. 18.
Napkin dispenser, Paper-. A. G. Krueger and F. W. Thorpe. 1,650,945; Nov. 29.
Napkin-dispensing device. E. J. Hansen. 1,647,000; July 5.
Napkin, Folded paper. A. Groff. 1,639,031; Aug. 16.
Napkin holder. J. M. Fernandez. 1,641,841; Sept. 6.
Napkin, Paper. F. A. Conrad. Des. 73,123; July 26.
Nautical instrument. J. L. H. Hand. 1,614,240; Jan. 11.
Nautical instrument. G. Kofsky. 1,640,328; Aug. 23.
Nautical sports, Apparatus for. A. Dayde. 1,650,497; Nov. 22.
Navigation and plant for carrying it out, System of. W. A. Loth. 1,615,712; Jan. 25.
Neck bag. H. G. Carter. 1,616,961; Feb. 8.
Neckband, Automatically-adjustable. E. W. Hamilton. 1,635,758; July 12.
Neckband shaper. R. Sacromone. 1,636,246; July 19.
Neckbands, Stiffening reinforcement for shirt. J. A. Currea. 1,645,946; Oct. 18.
Necklace or similar article. J. R. Miller. Des. 72,180; Mar. 8.
Necktie. W. Coplan. 1,616,113; Feb. 1.
Necktie. W. N. Romanoff. 1,621,753; Mar. 22.
Necktie. F. Strasswimmer. 1,616,238; Feb. 1.
Necktie. H. F. Waters. 1,618,134; Feb. 15.
Necktie. H. F. Waters. 1,628,700; May 17.
Necktie. O. Weinstein. 1,622,749; Mar. 29.
Necktie, Adjustable. S. Fane and H. Dworkin. 1,634,414; July 5.
Necktie adjuster. W. T. Crouch. 1,614,882; Jan. 18.
Necktie and lining. S. Rutenberg. 1,621,336; Mar. 15.
Necktie and lining therefor. H. Leon. 1,634,032; June 28.
Necktie clasp. E. J. Weisbaum. 1,644,863; Oct. 11.
Necktie fastener. S. Goldstein. 1,619,667; Mar. 1.
Necktie fastener. R. Hollunder. 1,628,604; May 10.
Necktie frame. G. Tritten. 1,617,777; Feb. 15.
Necktie hanger. J. Mendiolagioti. 1,654,341; Dec. 27.
Necktie holder. J. Crnoev. 1,616,608; Feb. 8.
Necktie holder. A. Jaffe. 1,620,553; Mar. 8.
Necktie holder. A. E. Johnson. 1,636,398; July 19.
Necktie holder. A. Kaufmann. 1,626,937; May 8.
Necktie holder. M. A. Kent. 1,650,755; Nov. 29.
Necktie holder. J. C. Miller. Des. 73,798; Nov. 8.
Necktie retainer. H. F. Hostetter. 1,647,407; Nov. 1.
Necktie supporter. J. H. Johnson. 1,638,809; Aug. 9.
Neckties and the like, Stretching for. C. Snowden and F. Brown. 1,625,059; Apr. 19.
Neckties, Knot supporter for four-in-hand. F. I. Thayer. 1,623,448; Apr. 5.
Neckwear. J. M. Feinson. 1,652,822; Dec. 13.
Neckwear. B. Dzik. 1,633,726; June 28.
Needle. R. A. Howe. 1,620,550; Mar. 8.
Needle detectors, Stop for weights of multiple. A. A. Gordon. 1,633,631; June 28.
Needle detectors, Stop for weights of multiple. E. R. Holmes. 1,633,637; June 28.
Needle dispenser. T. O'Malley. 1,613,622; Jan. 11.
Needle guard. M. Shanessy. 1,617,223; Feb. 8.
Needle, Hypodermic. G. N. Hein. 1,644,657; Oct. 4.
Needle, Knitting-machine. J. Hull. 1,634,423; July 5.
Needle, Latch. E. C. Kennedy. 1,629,275; May 17.
Needle mechanism. W. Hueller. 1,645,532; Oct. 18.
Needle mechanism. J. P. Weis. 1,643,595; Sept. 27.
Needle rest. J. Wolff. 1,634,702; July 5.

- Needle, Sewing. H. I. Lippard. 1,619,142; Mar. 1.
Needle-straitening machine. W. Tivendale. 1,625,691; Apr. 19.
Needle, Surgical. R. E. Fisher. 1,648,451; Nov. 8.
Needle vendor in the form of a miniature phonograph. E. O'Neill and E. L. Kern. 1,628,011; Apr. 26.
Negative-making device. A. G. Ogden. 1,630,539; May 31.
Neon tube. R. R. Machlett. 1,628,266; May 10.
Nest. O. W. Strawn. 1,638,374; Aug. 9.
Nest. H. A. Trullinger and W. H. Reynolds. 1,641,610; Sept. 6.
Nest. Hen's. J. K. Darby and D. Lucas. 1,654,415; Dec. 27.
Nest, Hen's. J. Stuber. 1,613,207; Jan. 4.
Nest, Multiple hens'. J. W. Myers. 1,637,346; Aug. 2.
Nest, Poultry. M. J. Hoffman. 1,618,171; Jan. 4.
Nest, Trap. F. Keyse. 1,616,661; Feb. 8.
Net, Automobile safety. E. Larsen. 1,649,961; Nov. 22.
Netting hander. D. J. Cronk. 1,624,394; Apr. 12.
Neutral brake. H. H. Waters. 1,619,449; Mar. 1.
Neutralizing system. R. M. Wise. 1,617,733; Feb. 15.
News and tabloid sections from a continuous web. Forman. E. L. Martin. 1,625,832; Apr. 26.
Newspaper-core-stripping machine. F. Murray. 1,640,090; Aug. 23.
Newspaper-dispensing machine. M. J. Kindrat and H. Zatzekowny. 1,622,262; Mar. 22.
Newspaper-inserting apparatus. G. W. Nelson. 1,616,061; Feb. 1.
Newspaper vender. J. D. O'Flynn. 1,640,666; Aug. 30.
Niche seat and lavatory, Combined. M. J. Tracy. Des. 72,195; Mar. 8.
Nickel-containing matte, Converting. O. Lellep. 1,628,797; Apr. 5.
Nickel, Manufacture of malleable. N. V. Hyblnette. 1,628,149; May 10.
Nickel, Producing finely divided. M. Raney. 1,628,190; May 10.
Nicotine collector for tobacco smoking. E. S. Huffman. 1,642,975; Jan. 19.
Nipper. W. A. Berry. 1,630,518; May 31.
Nipple. A. Russo. 1,621,134; Mar. 15.
Nipple and mounting, Condenser-tube. W. S. Monroe. 1,640,576; Aug. 30.
Nipple and the like, Lubricant-feeding. O. Zerk. 1,645,889; Oct. 13.
Nipple, Flow. V. York. 1,617,614; Feb. 15.
Nipple for nursing bottles. G. H. Donaldson. 1,620,329; Mar. 8.
Nipple, Nursing. A. E. Rogers. 1,632,854; June 21.
Nipple, Nursing. J. A. Smith. 1,653,787; Dec. 27.
Nipple, Nursing-bottle. A. M. Brown. 1,654,170; June 28.
Nipples, Cleaner for nursing bottle. R. M. Brophy. 1,622,178; Mar. 22.
Nipples, Lock clip for. F. S. Moore. 1,645,963; Oct. 18.
Nipples, Machine for gumming the edges of. F. A. Raiche, T. B. Dowling, and T. J. Brides. 1,646,359; Oct. 18.
Nitration process and nitrating mixture therefor. G. B. Taylor and A. S. Richardson. 1,640,737; Aug. 30.
Nitriles of the benzanthrone series, Preparing. M. P. Schmidt and W. Neugebauer. 1,628,280; May 10.
Nitrobenzene, Manufacture of. J. W. Livingston and L. P. Kyrides. 1,638,045; Aug. 9.
Nitrocellulose and other cellulose esters, Reducing the viscosity of. S. D. Shipley. 1,633,292; June 21.
Nitrocellulose, Collodizing agent for. T. L. Davis. 1,664,114; Dec. 27.
Nitrocellulose from smokeless powder, Obtaining. J. K. Speicher. 1,653,519; Dec. 20.
Nitrocellulose lacquer and making same. I. W. Humphrey. 1,653,008; Dec. 20.
Nitrocellulose material, Recovery of values from. C. Ellis and H. M. Weber. 1,637,990; Aug. 2.
Nitrocellulose, Reducing the viscosity and increasing the solubility of. S. D. Shipley. 1,652,587; Dec. 13.
Nitrocellulose solutions and product thereof, Reducing viscosity of. E. C. Pitman. 1,636,319; July 19.
Nitrocellulosic materials, Changing the viscosity characteristics of. P. C. Seel. 1,648,859; Nov. 8.
Nitro compounds, Reduction of. R. A. Nelson and A. Prasil. 1,644,483-4; Oct. 4.
Nitrogen-containing products, Manufacture of. M. Kahn. 1,642,209; Sept. 13.
Nitrogen, Synthesizing oxides of. C. J. Goodwin. 1,652,781; Dec. 13.
Nitrogenous fertilizer material, Making. G. H. Buchanan and P. W. Griffith. 1,614,521; Jan. 18.
Noise-making alarm. F. Davis. 1,635,985; July 19.
Nonmetallic facings to working-clutch members, Attaching. F. C. Stanley. 1,640,048; Mar. 8.
Nonmetallic material, Detecting metal particles in. R. W. Augustine. 1,640,524; Aug. 30.
Nonskidding device. R. A. Marshall. 1,618,938; Feb. 22.
Nonsynchronous motor. V. A. Fynn. 1,617,802; Feb. 15.
Nonsynchronous motor. V. A. Fynn. 1,637,891; June 28.
Normalizing furnace. W. Stoop. 1,634,858; July 5.
Nose tile. P. C. C. Friderichsen. Des. 73,124-5; July 26.
Notebook cover and stand, Combination. W. A. Ausmus. 1,614,977; Jan. 18.
Notebook holder. C. L. Dahlberg. 1,623,235; Apr. 5.
Note holder as new article of manufacture. C. Lile. 1,621,892; Mar. 22.
Note rack and pencil holder, Telephone. T. V. Breyer. 1,631,717; June 7.
Novelty. D. B. Brooks. 1,623,906; Apr. 5.
Novelty box. B. Friedman. Des. 72,943; June 28.
Novelty device. W. Haendel. 1,639,034; Aug. 16.
Novelty device, Air-propelled. L. M. Mayo. 1,628,796; May 17.
Novelty, Masquerade. E. Cureton. 1,618,517; Feb. 22.
Novelty, Theater. J. A. Partington. 1,616,198; Feb. 1.
Nozzle. L. R. Nelson. 1,622,733; Mar. 29.
Nozzle. R. Tereau. 1,631,167; June 7.
Nozzle, Adjustable lip-spray. W. B. Parker. 1,627,250; May 3.
Nozzle and assembly, Exhaust. J. A. Secor. 1,625,102; Apr. 19.
Nozzle and cap therefor. C. A. Anthony. 1,622,274; Mar. 29.
Nozzle and gauge, Combined air. M. S. Platt. 1,622,341; Mar. 29.
Nozzle and tip, Spray. J. D. Murray. 1,636,314; July 19.
Nozzle, Automatic hose. A. T. Carnes. 1,645,127; Oct. 11.
Nozzle, Blower. J. E. Bjorkholm and G. Blyberg. 1,653,950; Dec. 27.
Nozzle, Cement-gun. T. Hamm. Rel. 539; Feb. 1.
Nozzle diaphragm, Turbine. A. J. Devaud. 1,641,665; Sept. 6.
Nozzle, Douche. A. J. D. Cortes. 1,632,541; June 14.
Nozzle, Douche. J. Rose. 1,636,969; July 28.
Nozzle for atomizers. J. Stirling. 1,637,278; May 31.
Nozzle for locomotives, Exhaust. E. M. Shannon. 1,615,238; Jan. 25.
Nozzle for paper-making machines. M. Dezurik. 1,617,673; Feb. 15.
Nozzle, Fuel-injecting. C. F. Sjöman and C. G. Pettersson. 1,642,269; Sept. 13.
Nozzle handle. F. M. Hilgerink. 1,653,907; Dec. 27.
Nozzle holder. D. Lasher and A. S. Plank. 1,631,874; June 7.
Nozzle, Hydraulic. F. Schmidt. 1,641,695; Sept. 6.
Nozzle, Intake. H. E. Rader. 1,632,193; June 14.
Nozzle, Jet and spray. F. Glover. 1,633,012; June 21.
Nozzle, Mixing. A. T. Cassiere. 1,648,216; Nov. 8.
Nozzle, Mixing. O. Jacobsen. 1,637,697; Aug. 2.
Nozzle, Self-cleaning. F. B. Comins and J. Armstrong. 1,622,090; Mar. 22.
Nozzle, Self-closing valve. E. Payson. 1,649,726; Nov. 15.
Nozzle, Self-flushing atomizing. T. Chester and W. MacMichael. 1,628,823; May 17.
Nozzle, Self-propelled hose. S. C. Sladden. 1,628,070; May 10.
Nozzle, Spray. B. H. Coffey and G. S. Dauphinee. 1,639,685; Aug. 23.
Nozzle, Spray. C. Ihne. 1,620,209; Mar. 8.
Nozzle, Spray. E. Schlaepfer. 1,631,894; June 7.
Nozzle, Spray. O. W. Sheler and E. G. Butts. 1,630,974; May 31.
Nozzle, Spraying. D. Elder. 1,639,220; Aug. 16.
Nozzle, Spraying. T. W. Murphy and W. Czarnecki. 1,654,381; Dec. 27.
Nozzle stand. J. W. Grant. 1,650,829; Nov. 29.
Nozzle, Vacuum-cleaner. M. Blatt. Des. 73,479; Sept. 20.
Nozzles, Screen for. G. E. March. 1,617,858; Feb. 15.
Nozzles, Spray attachment for hose. R. Miller. 1,644,072; Oct. 4.
Number holder. W. W. Freed. 1,622,436; Mar. 29.
Number plates and the like, Detachable fastener for. N. R. Thibert. 1,649,875; Nov. 22.
Numbering machine. M. H. Kern. 1,648,276; Nov. 8.
Numbering machine. J. H. Reinhardt. 1,635,503; July 12.
Nursery chair, Foldable, portable. H. A. Keim. 1,639,298; Aug. 16.
Nursing bottle and envelope therefor. A. Gerstner. 1,647,944; Feb. 15.
Nursing-bottle holder. V. J. Murray, jr. 1,624,355; Apr. 12.
Nut. W. N. Booth. 1,632,991; June 21.
Nut. A. E. Bronson. 1,652,235; Dec. 13.
Nut, Adjustable. J. A. Burns. 1,645,276; Oct. 11.
Nut and allied fastening means, Lock. F. J. Russell. 1,640,374; Aug. 30.
Nut and bolt cutter. P. J. Peters. 1,613,359; Jan. 4.
Nut and screw fastening. F. S. Carr. 1,646,367; Oct. 18.
Nut and screw feed. S. M. Ramsore. 1,624,676; Apr. 12.
Nut apparatus, Locked. C. A. Godshalk. 1,637,995; Aug. 2.
Nut-applying device. A. Goetting. 1,620,960; Mar. 15.
Nut blanks, Making. J. F. Golding. 1,636,955-6; July 26.
Nut-bowl fitting. R. K. Bailey. 1,639,627; Aug. 16.
Nut-castlating machine. C. H. Shrope. 1,646,222; Oct. 18.
Nut-castlating machine. W. Umbdenstock. 1,646,840; Oct. 25.
Nutcracker. W. T. Anderson. 1,650,681; Nov. 29.
Nutcracker. I. H. Greene. 1,649,468; Nov. 15.
Nutcracker. W. T. Williams. 1,647,029; Oct. 25.
Nutcracker. L. R. Zifferer. 1,626,905; May 3.
Nut-cracking machine. L. Myers. 1,653,019; Dec. 20.
Nut encasement. E. R. Johns. 1,633,639; June 28.
Nut fastening. F. S. Carr. 1,646,368; Oct. 18.
Nut guard. C. Lay. 1,625,901; Apr. 26.
Nut lock. E. C. Baynes. 1,617,517; Feb. 15.

- Nut lock. W. J. Beckfeld. 1,643,484; Sept. 27.
 Nut lock. G. Burke and M. Acosta. 1,653,982; Dec. 27.
 Nut lock. S. H. Campbell. 1,626,596; May 3.
 Nut lock. J. A. Campo. 1,639,211; Aug. 16.
 Nut lock. R. I. Clapp. 1,628,355; May 10.
 Nut lock. E. Z. Cole. 1,649,866; Nov. 15.
 Nut lock. E. Z. Cole. 1,651,387-8; Nov. 29.
 Nut lock. I. L. Edwards. 1,634,744; July 5.
 Nut lock. J. P. Gilmour. 1,651,268; Nov. 29.
 Nut lock. H. Gunkel. 1,622,581; Mar. 29.
 Nut lock. B. E. Hawley. 1,639,637; Aug. 16.
 Nut lock. H. T. Hutton. 1,639,407; Aug. 16.
 Nut lock. G. D. Jonsson. 1,639,803; Aug. 23.
 Nut lock. G. Lafave. 1,639,511; Aug. 5.
 Nut lock. M. Little. 1,641,821; Sept. 6.
 Nut lock. M. Outhier. 1,627,404; May 3.
 Nut lock. D. Rich. 1,634,629; July 5.
 Nut lock. B. Sale. 1,624,762; Apr. 12.
 Nut lock. R. W. Smith. 1,623,365; Apr. 5.
 Nut lock. M. Steinkritzer. 1,616,338; Feb. 1.
 Nut lock. W. M. Turner and J. W. Brown. 1,613,493; Jan. 4.
 Nut lock. E. W. Utzler. 1,644,554; Oct. 4.
 Nut lock. M. W. Webster. 1,649,047; Nov. 15.
 Nut lock. M. C. White. 1,645,840; Oct. 18.
 Nut lock and the like. J. L. Mauch. 1,630,958; May 31.
 Nut lock or fastener washer. J. W. Ivory. 1,631,819; June 7.
 Nut-locking device. L. M. Dieterich. 1,635,313; July 12.
 Nut-locking device. K. Mackenzie. 1,637,620; Aug. 2.
 Nut-locking washer. G. E. Valberg. 1,612,955; Jan. 4.
 Nut machine. R. L. Wilcox. 1,635,238; July 12.
 Nut, Self-locking. D. W. Berlin. 1,639,681; Aug. 23.
 Nut, Self-locking. A. G. E. Hultgren and J. H. E. Thorén. 1,635,082; July 5.
 Nut-tapping machine. C. E. Ross. 1,632,855; June 21.
 Nut-tapping machine. H. Sprick. 1,624,902; Apr. 12.
 Nut-tapping machine. B. L. Verbois. 1,613,369; Jan. 4.
 Nut-tightening apparatus. R. Hofstetter. 1,648,944; Nov. 15.
 Nut, Valve-stem rim. W. H. Fleming. 1,652,169; Dec. 13.
 Nut wrench, Bearing-adjusting. E. T. Affleck and R. G. Bennett. 1,653,531; Dec. 20.
 Nuts and bolts. Treating threaded surfaces of. R. M. Evans. 1,645,740; Oct. 18.
 Nuts and screw heads, Lock for. A. Klafke. 1,643,384; Sept. 27.
 Nuts, cereals, and legumes, Process of and apparatus for separating, cleaning and grading all kinds of. E. M. Sutton and W. L. and E. C. Steele. 1,632,520; June 14.
 Nuts, Forming check. L. L. Whitney. 1,647,597; Nov. 1.
 Nuts, Making castle. J. P. Golding. 1,642,854; Sept. 20.
 Oar, Bow-facing. E. Bechle. 1,634,282; July 5.
 Oar, Bow-facing. W. H. Kimberlin. 1,624,743; Apr. 12.
 Oarlock. E. G. Erickson. 1,626,191; Apr. 26.
 Oarlock. J. L. Moore. 1,621,946; Mar. 22.
 Oarlock. R. S. Travis. 1,627,128; May 3.
 Oars, Tugboat moved by means of two-limbed. A. Ehrlich. 1,643,839; Sept. 27.
 Oat huller. F. Lage. 1,636,309; July 19.
 Oat sprouter. B. J. Baskerville. 1,643,537; Sept. 27.
 Objective. C. W. Frederick and F. E. Altman. 1,620,337; Mar. 8.
 Objects, Attaching. I. L. Rosenberg. 1,636,075; July 19.
 Objects, Method of and apparatus for marking. H. W. Hacker. 1,620,343; Mar. 8.
 Observation instrument. P. Rosenstein. 1,640,096; Aug. 23.
 Obstetric appliance. M. E. Ragz. 1,625,682; Apr. 19.
 Obstetrical device. E. Odell. 1,614,679; Jan. 18.
 Obstetrical instrument. E. Odell. 1,626,149; Apr. 26.
 Ocean compressed air power. C. N. Hare. 1,623,341; Apr. 5.
 Odometer holder. C. A. Hawley. Des. 7,1912; Jan. 25.
 Office indicator. O. G. Gerner. 1,616,687; Feb. 8.
 Ohmmeter, Indicating. C. E. Vawter. 1,633,912; June 28.
 Oil and fuel saver. I. A. Weaver. 1,640,865; Aug. 30.
 Oil and gas burner. L. G. Daniels. Re16,601; Apr. 19.
 Oil and gas burner. H. D. Ewing. 1,617,327; Feb. 15.
 Oil and gas burner, Combination. E. Scaver and F. A. Mazzur. 1,643,788; Sept. 27.
 Oil and gas separator. D. G. Lorraine. 1,620,771; Mar. 15.
 Oil and making same, Drying and polymerizing. J. J. Kessler. 1,616,321; Feb. 15.
 Oil and making same, Fluorescent. L. Lillienfeld. 1,625,415; Apr. 19.
 Oil and making the same, Medium for treating. H. Schlossstein. 1,638,643-4; Aug. 9.
 Oil and other similar hydrocarbons, Cracking or treating. H. T. Darlington and R. M. Steffen. 1,614,660; Jan. 18.
 Oil and residuals, Handling crude. A. E. Miller. 1,646,760; Oct. 25.
 Oil and water separator. J. R. Meston and D. E. Erickson. 1,648,555; Nov. 8.
 Oil, Apparatus for burning. S. E. Meyers. 1,645,443; Oct. 11.
 Oil, Apparatus for cracking. G. Egloff and H. P. Benner. 1,617,619; Feb. 15.
 Oil, Apparatus for cracking. G. Egloff and H. P. Benner. 1,619,922; Mar. 8.
 Oil, Apparatus for cracking. G. Egloff and H. P. Benner. 1,649,105; Nov. 15.
 Oil, Apparatus for distilling. J. W. Coast. 1,639,327; Aug. 16.
 Oil, Apparatus for purifying crude. D. P. Fleeger and F. P. Osborn. 1,616,119; Feb. 1.
 Oil, Apparatus for purifying lubricating. R. L. Skinner. 1,650,774-5; Nov. 29.
 Oil, Apparatus for purifying used mineral lubricating. R. E. Langston. 1,640,415; Aug. 30.
 Oil, Apparatus for the distillation of. F. T. Manley. 1,640,202; Aug. 23.
 Oil, Apparatus for treating. G. C. Kelley. Re16,778; Oct. 25.
 Oil, Apparatus for treating emulsified. G. Egloff and H. P. Benner. 1,649,103; Nov. 15.
 Oil, Apparatus for treating petroleum. H. J. Halle. 1,619,329; Mar. 8.
 Oil atomizer. J. J. Babka. 1,620,625; Mar. 15.
 Oil brake. L. O. Beard and S. J. Bendtsen. 1,617,366; Feb. 15.
 Oil burner. T. B. Allardice. 1,643,436; Sept. 27.
 Oil burner. A. R. Baker. 1,613,781; Jan. 11.
 Oil burner. A. R. Baker. 1,646,637; Oct. 25.
 Oil burner. S. W. Bates. 1,634,819; July 5.
 Oil burner. A. Behrsin. 1,653,447; Dec. 20.
 Oil burner. W. D. Bell. 1,618,565; Feb. 22.
 Oil burner. F. F. Bennett. 1,634,443; July 5.
 Oil burner. A. Boddeker. 1,627,267; May 3.
 Oil burner. D. M. Boyd and W. C. Capen. 1,620,754; Mar. 15.
 Oil burner. A. Butcher. 1,647,956; Nov. 1.
 Oil burner. M. Carter. 1,626,785; May 3.
 Oil burner. D. Caswell. 1,639,426; Aug. 16.
 Oil burner. L. S. Chadwick. 1,613,020; Jan. 4.
 Oil burner. A. R. Clizbe. 1,621,063; Mar. 15.
 Oil burner. C. M. Colvin. 1,644,873; Oct. 11.
 Oil burner. H. Crowell. 1,621,311; Mar. 15.
 Oil burner. G. B. Dahl. 1,618,820; Jan. 11.
 Oil burner. S. T. Davidson. 1,618,174; Feb. 22.
 Oil burner. C. P. Day. 1,618,067; Feb. 15.
 Oil burner. W. Degen. 1,639,167; Aug. 16.
 Oil burner. G. J. Delfeld and E. W. Swain. 1,635,464; July 12.
 Oil burner. J. Egan. 1,641,581; Sept. 6.
 Oil burner. A. C. Emerson. 1,624,165; Apr. 12.
 Oil burner. E. A. and E. A. Field, jr. 1,643,115; Sept. 20.
 Oil burner. W. E. Gibbs. 1,625,943; Apr. 19.
 Oil burner. J. J. Gleason. 1,618,185; Feb. 22.
 Oil burner. A. B. Goodspeed. 1,646,816; Oct. 25.
 Oil burner. A. B. Goodspeed. 1,647,091-2; Oct. 25.
 Oil burner. A. B. Goodspeed. 1,632,402; Jan. 14.
 Oil burner. J. T. Grotenhuis. 1,635,836; July 12.
 Oil burner. F. Harding. 1,621,557; Mar. 22.
 Oil burner. F. Harding. 1,626,116; Apr. 26.
 Oil burner. C. I. Hoag. 1,613,660; Jan. 11.
 Oil burner. R. A. Hutchison, jr. 1,647,732; Nov. 1.
 Oil burner. B. K. Inglis. 1,631,374; June 7.
 Oil burner. T. H. Kelly. 1,639,377; Aug. 16.
 Oil burner. J. A. Kenworthy. 1,625,320; Apr. 19.
 Oil burner. P. M. Klein. 1,647,409; Nov. 1.
 Oil burner. H. A. Lacerda. 1,619,738; Mar. 1.
 Oil burner. C. M. Leopie. 1,621,731; Mar. 22.
 Oil burner. C. B. Longville. 1,625,217; Apr. 19.
 Oil burner. F. Lyons. 1,623,930; Apr. 5.
 Oil burner. E. Maar. 1,640,418; Aug. 30.
 Oil burner. D. R. Martin. 1,651,139; Nov. 29.
 Oil burner. F. McCloskey. 1,622,797; Mar. 29.
 Oil burner. G. S. Meikle and H. D. MacKaye. 1,624,350; Apr. 12.
 Oil burner. J. C. Millar. 1,622,963; Mar. 29.
 Oil burner. A. Misch. 1,616,916; Feb. 8.
 Oil burner. A. Misch. 1,639,744; Aug. 23.
 Oil burner. H. B. Newhall and H. R. Underwood. 1,647,810; Nov. 1.
 Oil burner. G. Noreen and C. V. Newquist. 1,646,456; Oct. 25.
 Oil burner. E. T. Payne and G. E. Page. 1,653,468; Dec. 20.
 Oil burner. J. S. Pecker. 1,651,628; Dec. 6.
 Oil burner. W. B. Philippe. 1,646,834; Oct. 25.
 Oil burner. L. C. Porterford. 1,612,883; Jan. 4.
 Oil burner. P. Rix. 1,625,334; Apr. 19.
 Oil burner. T. W. Roach. 1,641,556; Sept. 6.
 Oil burner. P. H. Ryder and C. W. Moore. 1,624,806; Apr. 12.
 Oil burner. P. H. Ryder and C. W. Moore. 1,645,546; Oct. 18.
 Oil burner. C. A. Schellens and A. T. Trowbridge. 1,649,745; Nov. 15.
 Oil burner. L. L. Scott. 1,640,730-1; Aug. 30.
 Oil burner. L. L. Scott. 1,644,496; Oct. 4.
 Oil burner. M. Sharp. 1,625,400; Apr. 19.
 Oil burner. A. Sheather. 1,631,771; June 7.
 Oil burner. C. J. and C. H. Siernan. 1,625,961; Apr. 26.
 Oil burner. C. W. Slevert. 1,644,958; Oct. 11.
 Oil burner. E. A. Skypal. 1,632,046; June 14.
 Oil burner. E. E. Spelter. 1,635,445; July 12.
 Oil burner. C. M. Stroud. 1,618,392; Feb. 22.
 Oil burner. C. M. Stroud. 1,652,803; Dec. 13.
 Oil burner. O. A. Toffren. 1,637,064; July 26.
 Oil burner. H. R. Walker. 1,645,559; Oct. 18.

- Oil burner, C. F. Warrick. 1,648,923; Nov. 15.
 Oil burner, S. E. Weaver. 1,625,067; Apr. 19.
 Oil burner, J. M. Weydel. 1,631,662; June 7.
 Oil burner, W. Wood. Des. 16,623; May 10.
 Oil burner, Automatic. F. J. Evans and H. C. Hansen. 1,637,898; Aug. 2.
 Oil burner, Automatic. T. M. Lambeth. 1,637,576; Aug. 2.
 Oil burner, Automatic mechanically-operated. M. A. Williams. 1,621,447; Mar. 15.
 Oil-burner boiler. L. L. Scott. 1,619,889; Mar. 8.
 Oil burner, Cabinet. B. F. Crisenberry. 1,648,981; Nov. 15.
 Oil-burner construction. H. A. Mojé and I. E. McCabe. 1,642,937; Sept. 20.
 Oil-burner-control mechanism. E. L. Wells. 1,629,191; May 17.
 Oil burner, Crude-. G. L. Barnes. 1,645,787; Oct. 18.
 Oil burner, Domestic. L. L. Scott. 1,640,728; Aug. 30.
 Oil burner, Fuel-. A. J. Woodcock. 1,619,918; Mar. 8.
 Oil burner, Fuel-. A. J. Woodcock. 1,619,998; Mar. 8.
 Oil burner, Hydrocarbon-. L. C. Strait. 1,639,064; Aug. 16.
 Oil-burner installation. I. E. Smith. 1,636,791; July 26.
 Oil-burner installation, Domestic. W. W. Williams. 1,617,470; Feb. 15.
 Oil burner, Low-pressure. H. F. Tate. 1,643,907; Oct. 4.
 Oil burner, Rotary. M. D. Sheehy. 1,613,539; Jan. 4.
 Oil-burner system. H. Swartz and P. C. Mulligan. 1,613,969; Jan. 11.
 Oil-burner system and apparatus. F. Marion. 1,617,647; Feb. 15.
 Oil burners, Air control for. F. S. Egloff. 1,626,228; Apr. 26.
 Oil burners, Air preheater for. A. T. Johanson. 1,640,081; Aug. 23.
 Oil burners, Automatic control for. F. A. Lundquist. 1,630,022; May 24.
 Oil burners, Automatic controlling mechanism for. W. L. Dreyfus. 1,614,918; Jan. 18.
 Oil burners, Fuel-feeding means for. H. L. Watson and H. Heidrich. 1,612,997; Jan. 4.
 Oil burners, Gas control for. H. S. Blake. 1,629,251; May 17.
 Oil burners, Oil-feed control for. A. P. Holden, P. Morgan, and S. R. Williams. 1,630,265; May 31.
 Oil burners, Thermostatic control for. L. S. Chadwick, C. A. Resek, and E. Dahlstrom. 1,629,569; May 24.
 Oil-burning air heater, Sheet-metal. W. B. Croan. 1,619,567; Mar. 1.
 Oil-burning apparatus. E. D. Lewis. 1,620,111; Mar. 8.
 Oil-burning apparatus, Oil-feed-control valve for. C. A. Reif and A. F. Reif. 1,613,293; July 12.
 Oil-burning device. H. H. Mercer. 1,631,688; June 7.
 Oil-burning engine. B. C. Smith. 1,647,153; Nov. 1.
 Oil-burning furnace. C. I. Hoag. 1,622,828; Mar. 29.
 Oil-burning furnace. F. G. Neal. 1,637,269; July 26.
 Oil-burning heater. A. Ruttman and F. E. White. 1,615,852; Feb. 1.
 Oil-burning mechanism. F. Hardinge. 1,619,470; Mar. 1.
 Oil-burning pressure torch. H. H. Kress. 1,617,399; Feb. 15.
 Oil-burning system. L. L. Scott. 1,629,542; May 24.
 Oil-burning system. L. L. Scott. 1,640,729; Aug. 30.
 Oil-burning system. W. E. R. 1,648,069; Nov. 8.
 Oil can. E. Blatherwick. 1,623,904; Apr. 5.
 Oil can. P. H. Fontaine. 1,621,362; Mar. 15.
 Oil can. J. M. Hotherhall. 1,653,284; Dec. 20.
 Oil can. G. Lidseen. 1,641,088; Aug. 30.
 Oil can. J. H. Rhentgen. 1,641,051; Aug. 30.
 Oil can. H. C. Segelken. 1,618,732; Feb. 22.
 Oil-can holder. C. W. Beck. 1,619,099; Mar. 1.
 Oil can, Lubricating. G. Merz. 1,640,511; Aug. 30.
 Oil can, lubricator, and the like. A. Johnson, O. Persson, and P. Johnson. 1,635,215; July 12.
 Oil can, Pump feed. G. A. Somerville. 1,621,891; Mar. 22.
 Oil cans, Water collecting and separating attachment for. D. R. Feely. 1,613,507; Jan. 4.
 Oil circuit breaker. J. D. Hillard. 1,618,087; Feb. 15.
 Oil-circulating system. F. Hunzate. 1,629,840; May 17.
 Oil cleaner and rectifier. C. Soracio. 1,641,239; Sept. 6.
 Oil composition. A. A. Somerville. 1,617,326; Feb. 15.
 Oil container and pump. P. J. Riley. 1,653,661; Dec. 27.
 Oil containing soaps, Reclaiming waste lubricating mineral. H. A. Frasch. 1,651,688; Dec. 6.
 Oil, Converting. W. M. Cross. 1,644,991; Oct. 11.
 Oil, Cracking. G. Egloff. 1,638,093; Aug. 9.
 Oil, Cracking. C. Owens. 1,613,124; Jan. 4.
 Oil, Cracking. F. E. Wellman. 1,615,779; Jan. 25.
 Oil, Cracking. F. E. Wellman. 1,616,521; Feb. 8.
 Oil, Cracking petroleum. G. Egloff. 1,619,921; Mar. 8.
 Oil-cracking process and apparatus. W. C. Kirkpatrick. 1,646,543; Dec. 25.
 Oil cup. F. M. Furber. 1,640,495; Aug. 30.
 Oil cup. W. Greason. 1,646,196; Oct. 18.
 Oil cup. H. A. Hoke. 1,641,269; Sept. 6.
 Oil cup. H. L. Hunt. 1,387,742; July 26.
 Oil cup. L. B. and M. Q. Koplitzner. 1,646,409; Oct. 25.
 Oil cup. C. E. Lindeberg. 1,644,186; Oct. 4.
 Oil cup. H. W. Reynolds and R. H. Jenkins. 1,613,482; Jan. 4.
 Oil cup. P. Smith. 1,641,606; Sept. 6.
 Oil cup. J. S. Snow. sr. 1,631,072; May 31.
 Oil cup. P. Upham. 1,644,210; Oct. 4.
 Oil cup, Automatic. B. G. Gilbrough. 1,638,484; Aug. 9.
 Oil cup for ceiling fans. E. W. Denman. 1,643,807; Sept. 27.
 Oil, Dehydrating. B. Hildebrand. 1,650,514; Nov. 22.
 Oil derrick. J. D. Williams. 1,650,857; Nov. 29.
 Oil, Device for measuring the lubricating value of. J. B. Annis. 1,622,481; Mar. 29.
 Oil-dispenser separator. S. W. Briggs. 1,638,319; Aug. 9.
 Oil dispenser. C. E. Melville and A. C. Peterson. 1,637,228; July 26.
 Oil-dispensing tank. W. Hasty. 1,650,210; Nov. 22.
 Oil-display apparatus. C. Spaeth. 1,640,225; Aug. 23.
 Oil distillation and cracking. S. L. Tingley. 1,627,938; Mar. 10.
 Oil-distillation apparatus. F. M. Poole. 1,615,479; Jan. 25.
 Oil-distillation process. E. C. D'Yarmett. 1,646,449; Oct. 25.
 Oil-distilling apparatus and method. E. C. D'Yarmett. 1,646,448; Oct. 25.
 Oil drill, Collapsing. B. B. and E. R. Dudley. 1,625,247; Apr. 19.
 Oil engine. O. A. Banner. 1,625,113; Apr. 19.
 Oil engine. O. A. Banner. 1,634,132; June 28.
 Oil engine. O. A. Banner. 1,642,137; Sept. 13.
 Oil engine. O. A. Banner. 1,644,556; Oct. 4.
 Oil engine. C. M. Blanchard. 1,617,567; Feb. 15.
 Oil-feed construction. C. H. Wills. 1,630,554; May 31.
 Oil-feed construction. F. R. Wood. 1,619,229; Mar. 1.
 Oil filter. J. W. De Pries. 1,628,955; May 17.
 Oil, For or strainer. C. E. and W. Fox. 1,652,620; Dec. 13.
 Oil for pigments, Oxidized pine. J. K. Speicher. 1,626,362; Apr. 26.
 Oil friction brake. F. R. and D. E. Yearly. 1,632,425; June 14.
 Oil from condensation waters, Process and apparatus for the removal of. J. B. Gall and N. Adam. 1,617,208; Feb. 8.
 Oil from evaporating systems, Removing. T. Shipley. 1,637,920; Aug. 2.
 Oil from mineral-oil emulsions, Recovering. H. N. Dons. 1,616,438; Dec. 25.
 Oil from oil-bearing materials, Removing. W. Hoskins. 1,638,530; Aug. 9.
 Oil from wells, Apparatus for raising. B. Schweiger. 1,644,748; Oct. 11.
 Oil, Fuel. E. L. Dietz. 1,620,635; Mar. 15.
 Oil, Gas, Contral. E. Cameron. 1,632,432; June 14.
 Oil gas, Manufacturing. R. D. Pike. 1,644,146; Oct. 4.
 Oil gauge. S. F. Briggs and E. N. Jacob. 1,623,333; Apr. 5.
 Oil gauge. J. H. Warrick. 1,649,375; Nov. 15.
 Oil gauge and drain device for crank cases, Combined. O. G. Coutts and C. H. Jorgensen. 1,624,138; Apr. 12.
 Oil hardening with nickel and copper formates. C. Ellis. 1,645,377; Oct. 11.
 Oil heater. O. J. Kirchen. 1,640,241; Aug. 23.
 Oil heater. L. T. Wilcox. 1,650,919; Nov. 29.
 Oil heater and operating same. J. Primrose. 1,626,874; May 3.
 Oil-heater control, Tube. F. M. Poole. 1,615,482; Jan. 25.
 Oil heater, Crank-case. C. M. Corlew and G. A. Blohm. 1,645,230; Dec. 25.
 Oil heater, Lubricating. R. W. Bergstrom. 1,640,176; Aug. 23.
 Oil holder. J. L. Schneider. 1,620,294; Mar. 8.
 Oil indicator. J. C. Nangano. 1,619,531; Mar. 1.
 Oil-insulator transformer. W. Sarfort and F. Häberle. 1,618,412; Jan. 4.
 Oil-level regulator. R. E. Borbeck and G. C. Truman. 1,632,215; June 14.
 Oil liberator. W. O. Wetmore. 1,623,371; Apr. 5.
 Oil lift, Multiple-jet. J. L. Gawley. 1,616,220; Feb. 1.
 Oil, Lubricating. J. F. Anderson. 1,619,964; Mar. 8.
 Oil, Method of and apparatus for cracking. F. M. Hess. 1,638,335; Aug. 9.
 Oil, Method of and apparatus for recovering. L. Ranney. 1,634,235-6; June 28.
 Oil or gas well. E. V. Crowell. Re16,607; May 3.
 Oil, Process of and apparatus for integrating means. H. Zander. 1,637,671; Aug. 2.
 Oil-pressure feeding device. C. H. Eyer. 1,641,221; Sept. 6.
 Oil, Process and apparatus for cracking petroleum. R. T. Pollock. 1,623,270; May 10.
 Oil, Process of and apparatus for cracking. G. Egloff. 1,638,115; Aug. 9.
 Oil, Process of and apparatus for distilling. G. W. Wallace, H. K. Ihrig. 1,650,169; Nov. 22.
 Oil product and making same, Pine-. I. W. Humphrey. 1,653,009; Dec. 20.
 Oil product and making the same, Fish-. D. Molofsky. 1,638,700; Aug. 9.
 Oil products, Producing residual. E. E. Bartels. 1,613,737; Jan. 11.
 Oil-purifying apparatus. H. J. Wheeler and G. C. Engstrand. 1,652,968; Dec. 13.
 Oil purifier. I. L. Eastman. 1,632,001; June 14.
 Oil purifying and reclaiming system, Lubricating. F. C. Boyd. 1,622,278; Mar. 29.
 Oil-purifying apparatus. F. H. Hodge. 1,646,481; Oct. 25.

- Oil-purifying device. T. J. Little, jr. 1,646,298; Oct. 18.
 Oil-purifying system. G. B. Hooton. 1,623,728; Apr. 5.
 Oil recovering and obturating ring. G. Eveno. 1,652,153; Dec. 6.
 Oil rectifier. W. G. Wall. 1,628,085; May 10.
 Oil, Refining. H. O. Parker. 1,622,879; Mar. 29.
 Oil-refining apparatus. H. A. W. Howcott. 1,641,852; Sept. 6.
 Oil regulator. A. T. Garden. 1,644,918; Oct. 11.
 Oil regulator. A. N. Turnquist. 1,621,444; Mar. 15.
 Oil reservoirs, Drainage fitting for. L. S. Bessonett. 1,613,739; Jan. 11.
 Oil Rustproofing. R. E. Wilkins. 1,630,101; May 24.
 Oil saver. J. F. Friel. 1,623,403; Apr. 5.
 Oil saver and antisplasher. L. F. Davis. 1,632,889; June 21.
 Oil-saving device. El. Akers, C. C. Mims, F. L. Moutray and L. P. Miller. 1,626,494; Apr. 26.
 Oil-separating apparatus. W. M. Little and J. L. Sherman. 1,623,631; Apr. 5.
 Oil separator. B. D. Comyn. 1,645,093; Oct. 11.
 Oil separator. D. D. Cushman. 1,647,344; Nov. 1.
 Oil separator. W. M. Little and J. L. Sherman. 1,635,218; July 12.
 Oil separator. T. K. Massicks. 1,627,569; May 10.
 Oil separator. Water-cooled. R. L. Alexander and H. W. Wishart. 1,621,707; Mar. 22.
 Oil-shale apparatus. H. E. Marsh and C. J. Dunten. 1,619,525; Mar. 1.
 Oil shale, Apparatus for the destructive distillation of. L. R. Abernathy. 1,618,038; Feb. 15.
 Oil shale, Distilling. C. T. Loughrey. 1,631,637; June 7.
 Oil shale, Retort for treating. E. B. Roth. 1,638,217; Aug. 9.
 Oil shale, Treating. G. Egloff. 1,627,162-3; May 3.
 Oil, Soluble. H. Dimmig. 1,621,483; Mar. 15.
 Oil-spraying device. T. W. Stone. 1,646,839; Oct. 25.
 Oil still. J. E. Bell. 1,613,306; Jan. 4.
 Oil still. J. E. Bell. 1,623,773; Apr. 5.
 Oil still. J. Primrose. 1,654,347; Dec. 27.
 Oil still, Side-furnace. R. A. Porterfield. 1,647,064; Nov. 1.
 Oil stocks, Treating lubricating. J. W. Weir and W. J. Ryan, jr. 1,650,782; Nov. 29.
 Oil tank box. G. S. Gruber. 1,642,654; Sept. 13.
 Oil-storage tank. I. R. Afonin. 1,639,625; Aug. 16.
 Oil-storage tank. J. T. Kavanagh. 1,618,984; Mar. 1.
 Oil storing and delivering systems, Pressure control for hydraulic. W. J. Peter. 1,622,881-2; Mar. 29.
 Oil switch and controlling mechanism. C. Aalborg. 1,632,508; Dec. 13.
 Oil tank. C. A. Glass. 1,631,959; June 14.
 Oil tank. R. M. Manning. 1,647,874; Nov. 1.
 Oil tank. W. M. Nichols. 1,631,051; May 31.
 Oil tank. H. M. Sheer. 1,650,098; Nov. 22.
 Oil-tank cleaner. M. C. Coleman and E. D. Shoemaker. 1,636,539; July 12.
 Oil tank, Nonevaporating. F. A. Iddings. 1,628,246; May 10.
 Oil tanks, Vapor line for. J. M. Evans. 1,613,269; Jan. 4.
 Oil-testing apparatus for motor vehicles. F. B. Mason. 1,630,087; May 24.
 Oil, Treating hydrocarbon. H. M. Lasher. 1,622,453; Mar. 29.
 Oil, Treating impure crude. J. F. Wright. 1,627,072; May 3.
 Oil treatments, Revivifying spent adsorbents for. P. W. Prutzman. 1,633,871; June 28.
 Oil-well apparatus. G. E. Watson and H. E. Grau. 1,652,650; Dec. 13.
 Oil-well casing head. C. C. Hosmer. 1,623,010; Mar. 29.
 Oil-well casings, Apparatus for and method of cementing. E. V. Crowell. Re16,516; Jan. 4.
 Oil-well cleaners, Burner for. W. A. J. Kreager. 1,632,940; May 3.
 Oil-well derrick and shortening same. W. A. Trout. 1,644,499; Oct. 4.
 Oil-well equipment, Headache-post control for electric. J. H. Le Grand. 1,652,311; Dec. 13.
 Oil-well heater, Portable self-contained. R. S. and P. F. Shannon. 1,639,008; Aug. 16.
 Oil-well jack. H. W. Rhineland. 1,622,467; Mar. 29.
 Oil-well jack. F. H. Schwerin. 1,618,232; Feb. 22.
 Oil-well-plunger attachment and sucker-rod connection. C. C. Hosmer and S. E. Furman. 1,645,428; Oct. 11.
 Oil-well regulation method and means. J. F. Ryan. 1,624,085; June 28.
 Oil-well rigs, Jack-post structure for. W. Clarkson, jr. 1,645,041; Oct. 11.
 Oil-well stimulator. D. U. Powell. 1,648,242; Nov. 8.
 Oil-well tester and sampler for determining point of fluid entry. W. C. Erwin and C. H. Sweet. 1,652,472; Dec. 13.
 Oil-well tool operator. C. T. Dougherty. 1,617,303; Feb. 8.
 Oil-well-tubing drainer. J. C. Taylor. 1,620,173; Mar. 8.
 Oil-well utility gin pole. C. E. Turner and G. R. Milton. 1,632,935; June 21.
 Oil wells, Agitating for. W. G. Bisbee and B. P. Hoffman. 1,616,023; Feb. 1.
 Oil wells, Apparatus for pumping. A. O. Zinn and J. A. Bried. 1,643,616; Sept. 27.
 Oil wells, Casing head for. J. E. Snodgrass. 1,625,378; Apr. 19.
 Oil wells, Casing head for. W. B. Wigle. 1,627,945; May 10.
 Oil wells, Controlling apparatus for. G. A. Montgomery and D. L. Driscoll. 1,651,537; Dec. 6.
 Oil wells, Flexible casing for. W. A. Trout. 1,644,553; Oct. 4.
 Oil wells, Liner for. J. Tweeddale. 1,620,412; Mar. 8.
 Oil wells, Oil and water separator for. M. C. Hammond. 1,649,524; Nov. 15.
 Oil wells, Plug for. W. C. Cushing. 1,639,079; Aug. 16.
 Oil wells, Plug for. B. E. Parrish. 1,631,152; June 7.
 Oil wells, Safety cap for. F. M. Mechling. 1,632,661; June 19.
 Oil wells, Treating. B. W. Seymour, sr. 1,623,890; Apr. 5.
 Oil wells, Tubing elevator for. W. G. Bisbee and B. P. Hoffman. 1,643,283; Sept. 20.
 Oil wells, Working barrel for. A. H. Carnes and R. M. Marr. 1,642,061; Sept. 13.
 Oil, well aluminum chloride, Treating. F. W. Hall. 1,647,445; Nov. 1.
 Oiler, Air-line. C. C. Hansen. 1,643,069; Sept. 20.
 Oiler, Automatic. D. J. Egan. 1,621,771; Mar. 22.
 Oiler, Automatic. C. B. Mathouser and F. A. Leul. 1,617,979; Jan. 4.
 Oiler, Gear pump. J. P. Heil. 1,641,486; Sept. 6.
 Oiler, Hand. A. R. Benton. 1,625,699; Apr. 19.
 Oiler, Hand. J. J. Frawley. 1,613,821; Jan. 11.
 Oiler, Hog. E. R. Clements. 1,636,624; July 19.
 Oiler, Upper-cylinder. C. C. Bogardus. 1,634,134; June 28.
 Oiling apparatus for band-wheel mechanism. F. J. Schwimmer and C. S. Wright. 1,612,989; Jan. 4.
 Oiling device. R. Bernhard. 1,651,864; Dec. 6.
 Oiling device. T. Miller. 1,632,741; June 14.
 Oils and apparatus therefor, Converting. J. C. Clancy. 1,620,075; Mar. 8.
 Oils and fats and products made therefrom, Emulsification of. R. Douglas and H. G. Loesch. 1,625,641; Apr. 19.
 Oils and fats for the neutralization and removal of their fatty acid content, Treatment of. J. W. Spensley. 1,648,367; Nov. 8.
 Oils and manufacturing cyanides, Cracking hydrocarbon. J. C. Clancy. 1,651,114; Nov. 29.
 Oils and organic solvents, Removing suspended matters from. H. Hey. 1,633,941-2; June 28.
 Oils, Apparatus for coking hydrocarbon. R. E. Wilson and H. V. Atwell. 1,654,201; Dec. 27.
 Oils, Apparatus for condensing. C. B. Buerger. 1,622,941; Mar. 29.
 Oils, Apparatus for cracking and distilling hydrocarbon. S. L. Tingley. 1,627,937; May 10.
 Oils, Apparatus for heating. F. E. Wellman. 1,639,622; Aug. 16.
 Oils, Apparatus for removing water, gasoline, and the like from lubricating. P. M. Freer. 1,648,172; Nov. 8.
 Oils, Apparatus for sampling. E. W. Gard. 1,649,399; Nov. 15.
 Oils, Apparatus for the distillation of hydrocarbon. M. G. Paulus and O. C. Brewster. 1,615,400; Jan. 25.
 Oils, Apparatus for the treatment of impure petroleum. J. D. Brady. 1,628,574; May 10.
 Oils, Apparatus for treating. G. Egloff and W. R. Howard. 1,627,164; May 3.
 Oils, Apparatus for treating crude. H. A. Hopkins. 1,621,782; Mar. 22.
 Oils, Arrangement for refining heavy mineral. L. Edeleanu, K. Pfeiffer, K. Gress, and P. Jodeck. 1,651,328; Nov. 29.
 Oils, Cracking hydrocarbon. R. E. Wilson and H. V. Atwell. 1,654,200; Dec. 27.
 Oils, Continuous distillation of. F. A. Howard and N. E. Loomis. 1,613,754; Jan. 11.
 Oils, Continuous distillation of hydrocarbon. J. R. Carringer. 1,644,324; Oct. 4.
 Oils, Continuous process of treating. O. J. Salisbury. 1,628,747; May 17.
 Oils, Converting or cracking hydrocarbon. W. E. Trent. 1,619,896; Mar. 8.
 Oils, Converting petroleum. C. P. Dubbs. 1,652,166; Dec. 13.
 Oils, Cracking. C. P. Dubbs. 1,638,113; Aug. 9.
 Oils, Cracking hydrocarbon. W. F. Faragher and W. A. Ruse. 1,629,908; May 24.
 Oils, Cracking of hydrocarbon. C. L. Parmelee. 1,613,718; Jan. 11.
 Oils, Cracking or converting. O. P. Amend. 1,613,735; Jan. 11.
 Oils, Decolorizing, clarifying, and purifying petroleum. H. L. Kauffman and I. A. Clark. 1,636,938; July 28.
 Oils, Dehydrating. S. Born, H. E. Bonnette, and J. C. Walker. 1,629,325; Aug. 16.
 Oils, Display device for. H. G. Davis. 1,646,579; Oct. 25.
 Oils, Distillation of hydrocarbon. F. A. Howard. 1,649,532; Nov. 15.
 Oils, Distilling. F. A. Howard and N. E. Loomis. 1,640,938; Aug. 30.
 Oils, Distilling. R. E. Humphreys. 1,647,629; Nov. 1.
 Oils, gums, resins, and the like, Disposal of gases and vapors resulting from the boiling of. D. E. Goggin. 1,612,915; Jan. 4.
 Oils, Manufacture of refined. E. B. Cobb. 1,616,352-3; Feb. 1.

- Oils, Method and apparatus for cracking. W. Brink. 1,652,344; Dec. 13.
- Oils, Method of and apparatus for lifting. G. A. Kramer. 1,647,367; Nov. 1.
- Oils, Preparing an adsorbent for. W. D. Rial and E. W. Gard. 1,639,514; July 5.
- Oils, Preparing an absorbent for. W. D. Rial and E. W. Gard. 1,639,274; Aug. 16.
- Oils, Preservation of. F. W. Nitardy. 1,624,358; Apr. 12.
- Oils, Preventing acidity in. C. J. Rodman. 1,633,956; June 28.
- Oils, Process and apparatus for converting. C. P. Dubbs. 1,628,236; May 10.
- Oils, Process and apparatus for cracking hydrocarbon. W. F. Faragher and W. A. Gruse. 1,640,444; Aug. 30.
- Oils, Process and apparatus for fractionating hydrocarbon. J. C. Black. 1,652,886; Dec. 13.
- Oils, Process and apparatus for treating. L. C. Huff. 1,619,977; Mar. 8.
- Oils, Process of and apparatus for refining. C. W. Stratford. 1,613,298; Jan. 4.
- Oils, Producing lubricating. G. A. Kramer. 1,619,348; Mar. 1.
- Oils, Purification of. F. W. Weber. 1,636,946; July 26.
- Oils, Purifying hydrocarbon. J. C. Morrell and S. Comay. 1,627,055; May 3.
- Oils, Pyrogenetic conversion of hydrocarbon. F. A. Howard, E. M. Clark, and J. R. Carringer. 1,615,384; Jan. 25.
- Oils, Refining. C. Leaver. 1,635,718; July 12.
- Oils, Refining. H. O. Parker. 1,627,338; May 3.
- Oils, Refining. F. J. Resines. 1,619,486; Mar. 1.
- Oils, Refining hydrocarbon. P. McMichael. 1,641,546; Sept. 8.
- Oils, Refining lubricating. O. C. Brewster. 1,649,095; Nov. 15.
- Oils, Refining mineral. T. Hellthaler. 1,643,272; Sept. 20.
- Oils, Refining of hydrocarbon. E. B. Phillips and J. G. Stafford. 1,639,531; Aug. 16.
- Oils, Sweetening hydrocarbon. M. G. Paulus. 1,628,423; May 10.
- Oils, Treating. E. C. Weisgerber. 1,616,209; Feb. 1.
- Oils, Treating emulsified. G. Egloff and H. P. Benner. 1,649,102; Nov. 15.
- Oils, Treating hydrocarbon. W. L. Coultas, jr. 1,628,532; May 10.
- Oils, Treating hydrocarbon. C. P. Dubbs. 1,628,127; May 10.
- Oils, Treating hydrocarbon. C. P. Dubbs. 1,652,167; Dec. 13.
- Oils, Treating hydrocarbon. G. Egloff and R. T. Pollock. 1,649,104; Nov. 15.
- Oils, Treating hydrocarbon. R. C. Holmes. 1,623,729; Apr. 6.
- Oils, Treating hydrocarbon. R. C. Holmes, F. T. Manley, and O. Behmer. 1,646,380; Oct. 18.
- Oils, Treating hydrocarbon. L. E. Jackson. 1,619,869; Mar. 8.
- Oils, Treatment of. W. O. Snelling. 1,624,848; Apr. 12.
- Oils, Under pressure, Decolorizing. P. W. Prutzman. 1,653,735; Dec. 27.
- Ointment. A. G. Hupfel, jr. 1,615,277; Jan. 25.
- Omega-aminoalkyl-aminonaphthalenes. W. Duisberg, W. Hentrich, L. Zeh, and J. Huismann. 1,633,929; June 28.
- 1-aminonaphthalene-8-carboxylic acid, Manufacturing. R. Herz and F. Schulte. 1,646,290; Oct. 18.
- 1-methoxymethyl-3,7-dimethylxanthine. K. Schranz and G. Lutter. 1,616,282; Feb. 1.
- Onion juice, Preparation of concentrated. C. Marx. 1,619,826; Mar. 8.
- O-O-diacyl derivatives of diphenolisaltine and manufacture of same. E. Preiswerk. 1,624,675; Apr. 12.
- Open-end wrench. B. B. Gillett. 1,626,309; May 3.
- Open-hearth furnace. E. Bosshardt. 1,627,425; May 3.
- Open-hearth furnace. G. L. Danforth, jr. 1,647,213; Nov. 1.
- Open-hearth furnace. L. L. Knox. 1,621,258; Mar. 15.
- Open-hearth furnace. F. B. McKune. Re16,837; Dec. 27.
- Opener and cleaner. Horizontal. J. K. Whittier, F. D. Langevin, and B. S. Curley. 1,633,649; Aug. 3.
- Operating device. L. E. Le Bre. 1,632,794; June 21.
- Operating device and disconnecting switch. C. Aalborg and F. C. Wilharm. 1,640,558; Aug. 30.
- Operating head for obstruction removers. J. Stremel. 1,616,535; Feb. 8.
- Operating means. A. H. Stebbins. 1,627,673-8; May 10.
- Operating means. A. H. Stebbins. 1,633,198; June 21.
- Operating mechanism. J. R. Cautley. 1,619,810; Mar. 8.
- Operating mechanism. W. A. Frantz. 1,653,266; Dec. 20.
- Operating on boots and shoes, Machine for. G. Goddu. 1,614,836; Jan. 18.
- Operating table. L. Conrad. 1,650,327; Nov. 22.
- Operating table. G. C. Taplin. 1,635,588; July 12.
- Operating-table attachment. G. C. Taplin. 1,618,609; Feb. 22.
- Operating table, Veterinary. B. F. Pierce. 1,651,290; Nov. 29.
- Operation indicator, Relay. J. M. Zimmerman. 1,647,928; Nov. 1.
- Ophthalmic blanks, Making. F. Fraser. 1,630,262; May 31.
- Ophthalmic lens. H. W. Hill. 1,613,276; Jan. 4.
- Ophthalmic mounting. N. M. Baker and F. Fraser. 1,635,881; July 12.
- Ophthalmic mounting. G. H. Du Paul. 1,625,885; Apr. 26.
- Ophthalmic mounting. W. E. McDonell. 1,643,218; Sept. 20.
- Ophthalmic mounting. W. E. McDonell and T. Leytham. 1,643,219; Sept. 20.
- Ophthalmic mounting. L. Poeton and F. A. Morey. 1,622,663; Mar. 25.
- Ophthalmic mounting. H. A. Sangren. 1,630,276; May 31.
- Ophthalmic mounting. H. A. Sangren. 1,641,785; Sept. 6.
- Ophthalmic mounting. H. A. Sangren. 1,654,054; Dec. 27.
- Ophthalmic mounting. E. L. Schumacher. 1,613,202; Jan. 4.
- Ophthalmic mounting. J. Shyer. 1,642,090; Sept. 13.
- Ophthalmic mounting. F. A. Stevens. 1,625,833; Apr. 26.
- Ophthalmic mounting. F. A. Stevens. 1,636,334; July 19.
- Ophthalmic mounting. F. A. Stevens. 1,636,337; July 19.
- Ophthalmic mounting. F. A. Stevens. 1,649,788-9; Nov. 15.
- Ophthalmic mounting. F. A. Stevens. 1,649,794-6; Nov. 15.
- Ophthalmic mounting. F. A. Stevens and J. W. Welsh. 1,636,338; July 19.
- Ophthalmic mounting. L. J. Teller. 1,622,615; Mar. 29.
- Ophthalmic mounting. J. W. Welsh. 1,636,339; July 19.
- Ophthalmic mounting. J. W. Welsh. 1,649,739; Nov. 15.
- Ophthalmic mounting. J. W. Welsh. 1,650,576; Nov. 22.
- Ophthalmic mounting and method. D. P. Bernheim. 1,636,336; July 19.
- Ophthalmic mounting and method. F. A. Stevens and J. W. Welsh. 1,643,909; Sept. 27.
- Ophthalmic mounting and method. J. W. Welsh. 1,636,337; Nov. 15.
- Ophthalmic mounting and method. J. W. Welsh. 1,652,421; Dec. 13.
- Ophthalmic mountings, Composition rim for. E. L. Schumacher. 1,637,029; July 26.
- Ophthalmic mountings, Making. E. J. R. Beatley. 1,649,393; July 12.
- Ophthalmic mountings, Making. O. H. Flodin. 1,628,586; May 10.
- Ophthalmic mountings, Making. A. L. McKinstrey. 1,636,335; July 19.
- Ophthalmic mountings, Making. F. A. Stevens. 1,649,790; Nov. 15.
- Ophthalmic mountings, Tool for widening and narrowing bridges of. E. E. Bell. 1,638,073; Aug. 9.
- Ophthalmological apparatus. H. Clement and G. S. Dey. 1,625,075; Apr. 19.
- Optical aid to the visual perception of depth or rotundity. A. Ames, jr. 1,636,450; July 19.
- Optical apparatus. W. P. Reeves. 1,647,016-17; Oct. 25.
- Optical apparatus and using the same. E. H. Lysie. 1,616,054; Feb. 1.
- Optical apparatus, as photographic camera, for reproducing the objects with their natural colors. G. Russo. 1,629,974; May 24.
- Optical attachment. H. N. Cox. 1,645,374; Oct. 11.
- Optical combination. Adjustably mounting an. G. J. Badgley. 1,649,646; Nov. 15.
- Optical device for horizontal panoramic and zenithal view. R. Parodi. 1,616,279; Feb. 1.
- Optical diagnostic instrument. H. Clement. 1,626,601; May 3.
- Optical elements, Method and apparatus for testing and finishing. T. Smith and J. H. Dowell. 1,653,233; Dec. 20.
- Optical elements, Testing and finishing. T. Smith and J. H. Dowell. 1,653,234; Dec. 20.
- Optical illusion, Device for producing an. E. Haberfeld. 1,627,603; May 10.
- Optical instrument. C. E. Glessner. 1,649,303; Nov. 15.
- Optical instrument. J. B. Henderson. 1,651,025; Nov. 29.
- Optical instrument. W. L. Patterson. 1,631,329; June 7.
- Optical instrument, Coin-controlled. H. M. Johnson. 1,632,377; June 14.
- Optical projecting machines, Foldable supporting stand for. H. Newman. 1,637,705; Aug. 2.
- Optical projection. J. T. Beechlyn. 1,651,574; Dec. 8.
- Optical projection system. J. R. C. August. 1,645,867; Oct. 11.
- Optical projections, Method and apparatus for effecting. E. H. Corlett. 1,626,787; May 3.
- Optical reflector. E. Lyndon. 1,653,053; Dec. 20.
- Optical system. H. E. Ives. 1,641,631; Nov. 1.
- Optical system for projection apparatus. R. M. Hill. 1,630,616; May 31.
- Optical system for viewing tubes. M. M. Kirtane. 1,653,675; Dec. 20.
- Optical test chart. G. S. Dey. 1,625,076; Apr. 19.
- Optical torsion meter. T. Ackl. 1,613,262; Jan. 4.
- Orange machine. H. M. Shields. 1,652,379; Dec. 13.
- Orchard heater. J. C. Beckley. 1,627,983; Aug. 2.
- Orchard heater. W. S. Button. 1,648,041; Nov. 8.
- Orchard heater. G. A. R. Lewington and G. A. Smith. 1,641,540; Sept. 6.
- Orchard heater. J. Smith. 1,644,498; Oct. 4.
- Orchard heater. B. V. Witt and C. O. Neilson. 1,645,677; Oct. 18.

- Orchard heater. J. P. N. Wood. 1,616,562; Feb. 8.
 Orchards and apparatus therefor, Heating. W. C. Scheu. 1,630,452; May 31.
 Orchards, System of frost prevention for. J. Shaw. 1,619,378; Mar. 1.
 Orchards, Temperature-regulating device for. E. S. Cobb. 1,639,257; Aug. 15.
 Orchestral apparatus. V. Berton. 1,613,978; Jan. 11.
 Ordnance breech mechanism. A. T. Dawson and G. T. Buckham. 1,622,861; Mar. 29.
 Ordnance, Instrument for correcting the line of fire of. W. F. Grotendorst. 1,615,511; Jan. 25.
 Ordnance and other materials, Machine for breaking. R. Hush. 1,626,635; Apr. 26.
 Ore-bin gates, Mechanism for operating. W. S. Orr. 1,624,777; Apr. 12.
 Ore bodies, Apparatus for breaking down. W. B. Clifford. 1,630,470; May 31.
 Ore concentrator. K. M. and J. M. Mathe. 1,638,864; Aug. 15.
 Ore crusher. T. Freiberg. 1,632,124; June 14.
 Ore-feeding apparatus. W. H. Parsons. 1,641,863; Sept. 6.
 Ore flotation process. J. Herman, A. W. Allen, and H. B. Newitt. 1,628,046; May 10.
 Ore furnace. F. M. Simonds. 1,637,163; July 26.
 Ore-grinding machine. G. W. Northland. 1,620,276; Mar. 8.
 Ore pulp and the like, Apparatus for determining the specific gravity of. H. E. E. Haultain. 1,621,535; Mar. 22.
 Ore-sampling machine. O. H. Gray and C. E. Murdock. 1,642,837; Sept. 13.
 Ore-sampling machine. S. Mason. 1,646,032; Oct. 18.
 Ore separator. D. H. Herbert. 1,648,478; Nov. 8.
 Ore separators, Aerator for flotation. H. Wall. 1,642,051; Sept. 13.
 Ore-treating system. A. L. Blomfield. 1,621,474; Mar. 15.
 Ores and metallurgical products, Treatment of. F. Johannsen. 1,618,204; Feb. 22.
 Ores and minerals by flotation, Concentrating. W. A. Douglass. 1,629,099; Dec. 6.
 Ores and minerals by flotation, Concentrating. C. C. Smith. 1,652,060; Dec. 6.
 Ores, Concentration of. C. H. Keller. 1,628,151; May 10.
 Ores, Concentration of. R. E. Sayre. 1,640,218; Aug. 23.
 Ores, Concentration of. J. L. Stevens. 1,614,089; Jan. 11.
 Ores, Concentration of metalliferous. T. R. Simpson. 1,632,419; June 14.
 Ores, Fine dust, the residue of roasting pyrites, small coke, and the like, Conglomerating fine. O. Kippe. 1,614,369; Jan. 11.
 Ores for flotation, Preparing. H. H. Hendrickson. 1,620,761; Mar. 15.
 Ores for the extraction values, Treatment of. F. A. Metzsch. 1,648,760-1; Nov. 8.
 Ores, Gravity separator for garnet. F. B. Burns. 1,635,111; July 5.
 Ores of lead and zinc, Treating sulphide. N. C. Christensen. 1,620,873; Mar. 15.
 Ores or other suitable materials, Apparatus for reducing. F. E. Whitham. 1,638,381; Aug. 9.
 Ores or pulverous ores, Sintering fine. H. G. Torulf. 1,618,116; Feb. 15.
 Ores, Process and apparatus for metallizing. H. N. Tracy. 1,628,012; May 10.
 Ores, Roasting metallic. H. S. Mackay. 1,647,050; Oct. 25.
 Ores, Treating. F. M. Simonds. 1,637,838; Aug. 2.
 Ores, Treating aluminous. R. Moldenke. 1,637,451; Aug. 2.
 Ores, Treating mercury-bearing. R. W. Hyde. 1,650,360; Nov. 22.
 Ores, Treatment of. J. T. Terry. 1,627,582; May 10.
 Ores with chloride solutions, Treatment of. N. C. Christensen. 1,621,969; Mar. 22.
 Organ. P. Walcker. 1,622,931; Mar. 29.
 Organ. C. F. Winder. 1,637,323; July 26.
 Organ action. J. T. Austin. 1,640,306; Aug. 23.
 Organ, Pipe. J. H. Hammond, Jr. 1,621,879; Mar. 22.
 Organ relay. M. H. Sampson. 1,639,901; Aug. 23.
 Organ stop action. J. T. Austin. 1,640,307; Aug. 23.
 Organic compounds, Making halogen derivatives of aromatic. J. H. Crowell. 1,646,235; Oct. 18.
 Organic compounds, Production of. K. F. Schmidt and F. Zutavern. 1,637,661; Aug. 2.
 Organic nitrate compounds, Catalytic reduction of. M. Kahn and R. Mayer. 1,639,186; Aug. 16.
 Organic origin, Preparing products of. H. L. P. Tival. 1,630,985; May 31.
 Organic selenium compound and making the same. P. I. Murrill. 1,622,534; Mar. 29.
 Organs and the like, Contact block for electric. C. N. Deverall. 1,623,098; Apr. 5.
 Organs and the like, Keyboard for. J. W. Starkie. 1,623,211; Apr. 5.
 Organs and the like, Valve action for. F. W. Sullivan. 1,623,367; Apr. 5.
 Organ, Cipherless device for pipe. G. H. Kloehs. 1,632,657; June 14.
 Organs, Combination stop mechanism for. C. N. Deverall. 1,621,973; Mar. 22.
 Organs, Electrical controlling means for. P. Walcker. 1,650,555; Nov. 22.
 Ornament. L. V. Aronson. 1,634,251; July 5.
 Ornament. M. Reisert. 1,629,531; May 24.
 Ornament, Animated wind-operated. S. Grillo and J. Guerra. 1,635,937; July 12.
 Ornament, Folding. S. S. Adams. 1,621,703; Mar. 22.
 Ornament for garments, Buttery. E. Danielson. Des. 72,940; June 28.
 Ornament for personal wear. J. J. Keville. 1,635,485; July 12.
 Ornament for vehicles, Mechanical radiator. C. C. Funk and A. Boehm. 1,652,775; Dec. 13.
 Ornament, Fading. G. W. Peterson and B. T. Walls. 1,638,743; Aug. 9.
 Ornament, Pocket. B. B. Lewis and L. M. Levy. 1,620,904; Mar. 15.
 Ornamental article of manufacture and producing the same. F. H. Auld. 1,643,045; Sept. 20.
 Ornamental band, Elastic. E. Spidel. 1,647,060; Oct. 25.
 Ornamental body. E. J. Fink. 1,622,775; Mar. 29.
 Ornamental device, Illuminated. R. W. Bock. 1,623,086; Apr. 5.
 Ornamental device, Illuminated. M. Herskovitz. 1,625,539; Apr. 19.
 Ornamental fabric structure. R. Loeb. 1,627,543; May 3.
 Ornamental fountain. G. A. Kern. 1,651,714; Dec. 6.
 Ornamental light. L. W. Mammen. 1,626,141; July 19.
 Ornamental or effect materials, Manufacture of. W. A. Dickie and J. H. Rooney. 1,641,962; Sept. 13.
 Ornamentations. C. Andrews. 1,638,311; Aug. 9.
 Ornamented fabric. F. E. Fuhrer. 1,633,630; June 28.
 Ornamenting linings, Machine for. G. A. Wendt. 1,618,562; Feb. 22.
 Ornamenting machine. C. F. Smith and J. B. Sabourin. 1,626,014; Apr. 26.
 Ornaments, Safety back device for ear. P. Reiter. 1,649,187; Nov. 15.
 Orthodontic appliance. E. H. Angle. 1,622,856; Mar. 29.
 Orthodontic band lock. J. A. Lunde. 1,618,114; Jan. 4.
 Orthopedic appliance. E. Fischer. 1,646,194; Oct. 18.
 Orthopedic appliance. H. J. Morris. 1,635,798; July 12.
 Orthopedic device. L. Behnhauer. 1,617,790; Feb. 15.
 Oscillating device. J. L. Milton. 1,625,132; Apr. 19.
 Oscillating generating and supply system. A. M. Curtis. 1,632,389; June 14.
 Oscillation generator. J. T. L. Brown. 1,632,054; June 14.
 Oscillation generator. E. H. Colpitts. 1,624,537; Apr. 12.
 Oscillation generator. S. Loewe. 1,649,122; Nov. 15.
 Oscillation generator. J. C. Schelleng. 1,629,001; May 14.
 Oscillation generator with automatic frequency control. J. W. Horton. 1,616,622; Feb. 8.
 Oscillation meter. W. Reglein and A. Glanbitz. 1,614,573; Jan. 18.
 Oscillations into audible oscillations, Transforming inductance. E. E. Davis. 1,644,992; Oct. 11.
 Oscillations in vacuum-tube signaling devices, Method and apparatus for minimizing self-excited. J. Weinberger. 1,618,319; Feb. 22.
 Oscillations, Method of and apparatus for producing. T. Appleby. 1,651,012; Nov. 29.
 Oscillator. L. R. Koenig. 1,650,280; Nov. 22.
 Oscillator, Therapeutic. C. E. Cook and G. S. Walker. 1,631,917; June 7.
 Oscillator, Three-phase. A. H. Taylor. 1,654,196; Dec. 27.
 Oscillator, Vacuum-tube. W. Schaffer. 1,639,671; Aug. 23.
 Oscillographs, Sweep circuit for cathode-ray. W. A. Knoop. 1,618,954; Jan. 11.
 Osteopathic operating table. J. W. Macklin. 1,628,091; Apr. 26.
 Otopscope. H. L. De Zeng. 1,636,463; July 19.
 Outboard motor. G. W. Grass. 1,639,339; Aug. 16.
 Outlet. E. T. Palste. 1,638,056; July 5.
 Outlet box. H. R. Cook. 1,642,142; Sept. 13.
 Outlet box. O. A. Fredericksen. 1,623,587; Apr. 5.
 Outlet box. C. Renshaw. 1,638,510; Aug. 9.
 Outlet box and fixture support. W. J. Cormay. 1,647,505; Nov. 1.
 Outboard connection. A. C. Fischer. 1,629,267; May 17.
 Oven. C. W. Aird. 1,635,392; July 12.
 Oven. F. F. Collins. 1,651,871; Dec. 6.
 Oven. R. Eickworth. 1,636,989; July 26.
 Oven. E. F. Tilley, Jr. 1,615,183; Jan. 18.
 Oven. L. T. Wilcox. 1,649,005; Nov. 15.
 Oven and drying. I. M. Petersime. 1,646,490; Oct. 25.
 Oven, Bake. P. Abtheim. 1,636,795; July 26.
 Oven, Bake. S. G. Bonaparte. 1,641,313; Sept. 6.
 Oven, Baker's. C. Brown. 1,640,333; Aug. 23.
 Oven, Baker's. W. Dredge. 1,635,824; July 12.
 Oven, Baking. A. H. Ballard. 1,625,761; Apr. 19.
 Oven, Baking. F. Kührt. 1,637,618; Aug. 2.
 Oven, Baking. F. Kührt. 1,653,774; Dec. 27.
 Oven, Baking. C. H. Riches and C. W. Aird. 1,637,427; Aug. 2.
 Oven, Baking. A. E. Trolle. 1,633,236; June 21.
 Oven, Barbecue. M. S. Larche. 1,641,818; Sept. 6.
 Oven, Broiler. G. M. Wilkinson. 1,614,167; Jan. 11.
 Oven, Cake. T. G. Kus. 1,635,679; July 12.
 Oven, Coke. W. H. Wright. 1,643,532; Sept. 27.
 Oven, Coking retort. J. van Ackeren. 1,633,911; June 28.
 Oven, Combination. J. Becker. 1,623,460; Apr. 5.

- Oven control, Drying and enameling. A. Maehler. 1,636,140; July 19.
- Oven control, Thermostatic. E. L. Fonseca. 1,625,080; Apr. 19.
- Oven, Cooking. J. E. Chambers. 1,625,846; Apr. 26.
- Oven-door spring control. G. A. Stackhouse. 1,616,471; Feb. 8.
- Oven-door structure. S. Harter. 1,623,408; Apr. 5.
- Oven, Drying. J. Koller. 1,618,380; Feb. 22.
- Oven, Drying and enameling. A. Maehler and H. Thate. 1,638,812; Aug. 9.
- Oven, Electric. T. G. Brown. 1,637,435; Aug. 2.
- Oven, Elongated electrically-heated. H. E. Somes. 1,616,067; Feb. 1.
- Oven, Externally-insulated. E. B. Crawford. 1,649,575; Nov. 15.
- Oven for baking, roasting, drying, and like purposes, Heating. W. Dredge. 1,636,504; July 19.
- Oven for barbecued meats. J. L. Macomber. 1,616,663; Feb. 8.
- Oven, Gas cooking and heating. A. A., E. H., P. R., and E. M. Scott. 1,652,737; Dec. 13.
- Oven, Gas-range. G. A. Hoffman. 1,643,339; Sept. 27.
- Oven grid. C. H. Napier. 1,621,895; Mar. 22.
- Oven, Rectangular sole-fired coke. A. S. Knowles and C. V. McIntire. 1,635,280; July 12.
- Oven, Roasting. C. Dorozynski. 1,639,168; Aug. 16.
- Oven, slide. F. C. Partridge. 1,647,013; Oct. 22.
- Oven structures, Ventilating hood for. E. B. Crawford. 1,649,576; Nov. 15.
- Oven systems, Multiple control governor for gas or coke. J. T. Wilkin. 1,648,522; Nov. 8.
- Oven, Thermoelectric. S. Sacerdote. 1,637,659; Aug. 2.
- Oven ventilator. L. Dana. 1,649,449; Nov. 15.
- Oven, Vertical-chamber. C. Otto. 1,619,535; Mar. 1.
- Oven, Wire-heating. F. W. Manker. 1,615,593; Jan. 25.
- Ovens and the like, Thermostatic control for electric. E. L. Fonseca. 1,627,732; May 10.
- Ovens, Gas control for. E. O. Engels. 1,624,935; Apr. 19.
- Ovens, Humidifier for. S. Mayer and H. Nahrstedt. 1,632,492; June 14.
- Ovens or kilns, Vault for baking. J. Laurent. 1,616,322; Feb. 1.
- Ovens, Safety fuel supply for drying and enameling. A. Maehler. 1,614,798; Jan. 18.
- Ovens, Sliding grate for. E. M. and D. E. Prenville. 1,627,405; May 3.
- Ovens, Thermostatic control for. F. A. Gauger. 1,619,505; Mar. 1.
- Oven, H. Sanitary. H. Wohlzemann. 1,652,750; Dec. 13.
- Overalls. H. J. Bradley. 1,654,452; Dec. 27.
- Overalls. I. L. Edwards. 1,653,554; Dec. 20.
- Overcoat, Child's. S. Greenberg. 1,643,159; Sept. 20.
- Overdriven extractor. E. J. Carroll. 1,634,707; July 5.
- Oxidation-preventing apparatus. C. G. Tiefel. 1,619,383; Mar. 1.
- Overload and strain releasing mechanism. A. Pestel. 1,628,184; May 10.
- Overseams, Production of. G. Huber. 1,612,820; Jan. 4.
- Overshoe. J. de Noronha. 1,641,535; Sept. 6.
- Overshoe. C. Ferretie. Des. 73,974; Nov. 29.
- Overshoe. P. H. Margulla. 1,654,086; Dec. 27.
- Overshoe. F. H. Martin. Des. 73,139; July 26.
- Overshoe. E. H. Martin. 1,631,749; June 7.
- Overshoe. W. E. Piper. 1,637,027; July 26.
- Overshoe and making same. G. L. Lawrence, jr. 1,642,905; Sept. 13.
- Overshoe and manufacturing the same. C. H. Baker. 1,644,364; Oct. 4.
- Overshoe pattern. W. E. Piper. 1,643,995; Oct. 4.
- Overshoe, Sport. W. B. Wreford. 1,644,217; Oct. 4.
- Oxidation products of acetaphthene, Manufacture of. F. Lewis. 1,649,333; Nov. 22.
- Oxide, Production of titanium. P. A. Mackay. 1,613,234; Jan. 4.
- Oxides, Acylamino-hydroxybenzene arsine. L. Benda. 1,622,271; Mar. 29.
- Oxides of carbon, Electrochemical production of solid. B. K. Brown. 1,639,980; Aug. 23.
- Oxides of nitrogen in sulphuric-acid manufacture, Recovery of. A. M. Fairlie. Re16,709; Aug. 23.
- Oxides, Producing metallic. G. B. Filmer. 1,620,880; Mar. 15.
- Oxidation of oil in transformers, Device for preventing. J. Kubler. 1,635,332; July 12.
- Oxidation-resisting material. R. F. Flinterman. 1,641,752; Sept. 6.
- Oxy-acids, Manufacture of esters of. A. Häussler. 1,614,195; Jan. 11.
- Oxychloride cement, Making and making same. W. J. McCaughey. 1,634,505; July 5.
- Oxychloride cement and making same. H. M. Olson. 1,619,534; Mar. 1.
- Oxy-fuel gas tip and making. E. H. Smith. 1,646,602; Oct. 25.
- Oxygen and ammonia, Producing. C. Mott. 1,613,405; Jan. 4.
- Oxygen respiratory apparatus. C. von Hoff. 1,635,101; July 5.
- Oxygenator and smoke eliminator. O. A. Toffteen. 1,647,353; Feb. 15.
- Package. N. E. Covel. 1,628,121; May 10.
- Package. A. D. Evans. 1,648,612; Nov. 8.
- Package. C. E. Hemminger. 1,649,692; Nov. 15.
- Package. L. T. Hilborn. 1,652,625; Dec. 13.
- Package. C. E. Miller. 1,631,048; May 31.
- Package. H. F. Niles. 1,631,755; June 7.
- Package, Advertising or sample. H. A. Fruitema. 1,633,444; June 21.
- Package and making the same. W. B. Bronander and J. W. Leary. 1,637,802; Aug. 2.
- Package, Bath-robe. L. C. Safr. 1,641,552; Sept. 6.
- Package-binding machine. J. S. McChesney. 1,650,844; Nov. 29.
- Package-binding machine. C. S. Weeks. 1,650,811; Nov. 29.
- Package-binding implement. S. C. Cary. 1,652,815; Dec. 13.
- Package-binding implement. V. Ragona. 1,639,896; Aug. 23.
- Package, Braid. H. Hebelor. 1,635,841; July 12.
- Package carrier. C. Haarberg. 1,622,946; Mar. 29.
- Package carrier, Tilting. B. D. Hays. 1,639,606; Aug. 16.
- Package, Confection. A. Sweet. 1,630,984; May 31.
- Package-feed mechanism, Automatic. J. A. Butler. 1,638,391; Aug. 9.
- Package-filling machine. J. D. Conti. 1,635,543; July 12.
- Package for transit, Method of and apparatus for bracing and securing merchandise. L. F. Hintz. 1,624,949; Apr. 19.
- Package, holder and opener. C. P. Conrad. 1,614,283; Jan. 11.
- Package-holding device, Resilient. H. C. Naterman. 1,625,275; Apr. 19.
- Package, Making a commodity. W. M. Ingram. 1,616,804; Feb. 8.
- Package mold. A. O. Freer. 71,653,699; Dec. 27.
- Package opener. C. C. Crocker. 1,646,348; Oct. 18.
- Package, Protecting and dispensing. E. J. O'Clair. 1,651,289; Nov. 29.
- Package structure. J. A. Zublin. 1,618,862; Jan. 11.
- Package, tie. M. E. Drabheim and C. E. Deming. 1,646,398; Nov. 1.
- Package tie. J. S. Pulliam. 1,614,690; Jan. 8.
- Package wrapping. M. Schulz. 1,630,542; May 31.
- Package-wrapping device. E. Brady. 1,623,300; Apr. 5.
- Package-wrapping machine. J. P. Aldrich and H. A. Morris. 1,624,203; Apr. 12.
- Package-wrapping machine. J. P. Aldrich and H. A. Morris. 1,648,252; Nov. 8.
- Packaged goods undergoing treatment, Segregating. A. R. Thompson. 1,612,893; Jan. 4.
- Packaging articles, Machine for. I. Lazaga. 1,616,379; Feb. 11.
- Packaging articles of furniture and the like and pack or shell incasement thereof. R. M. Buck. 1,637,137; July 26.
- Packaging band. K. Youngblood. 1,651,172; Nov. 29.
- Packaging machine. S. Cooper. 1,628,120; May 10.
- Packaging machine. H. Mullendore. 1,642,887; Sept. 20.
- Packaging machine. J. C. Pinter. 1,628,803; May 17.
- Packaging machines, Carton-end-closing device for. J. D. Lane. 1,624,257; Apr. 12.
- Packaging material, Method of and apparatus for. A. M. Bates. 1,637,891; Aug. 2.
- Packaging, toric articles. E. H. Angier. 1,640,021; Aug. 23.
- Packages for shipment or delivery, System for preparing. A. C. Youngson. 1,626,492; Apr. 26.
- Packages, Implement for binding shipping. S. C. Cary. 1,652,814; Dec. 13.
- Packages, Inverting. J. Bauer. 1,623,958; Apr. 12.
- Packages, Machine for manufacturing, filling and closing. P. Gangler. 1,627,169; May 3.
- Packages, Seal for. M. B. Behrman. 1,614,592; Jan. 18.
- Packages, Sealing shipping. S. C. Cary. 1,652,813; Dec. 13.
- Packages, Structure for facilitating sorting and delivering of. R. K. Havighorst. 1,616,093; Feb. 8.
- Packer. W. W. Hartman. 1,643,119; Sept. 20.
- Packer. E. C. Shaw. 1,641,698; Sept. 6.
- Packer. H. R. Standler. 1,642,273; Sept. 13.
- Packer for plungers, Expandable. E. E. Miller. 1,622,043; Mar. 22.
- Packer, Fruit. R. P. Clark. 1,633,571; June 28.
- Packer head for pipe-molding machines. G. C. Martin. 1,616,816; Feb. 8.
- Packet, Combination. W. Friedman. 1,641,263; Sept. 6.
- Packet, Continuous interfold. H. P. Brown. 1,641,620; Sept. 6.
- Packet container. E. J. Reading. 1,636,757; July 26.
- Packing. F. T. Agthe. 1,620,989; Mar. 15.
- Packing. J. L. Creevy. 1,631,520; June 7.
- Packing. A. Ekman. 1,625,861; Apr. 26.
- Packing. G. O. Farrington. 1,648,391; Nov. 8.
- Packing. C. R. Hubbard. 1,651,277; Nov. 29.
- Packing. B. P. Joyce. 1,635,482; July 12.
- Packing. B. P. Joyce. 1,651,131; Nov. 29.
- Packing. M. R. Kondolf. 1,626,344; Apr. 26.
- Packing. F. Macy. 1,627,761; May 10.
- Packing. E. E. Payne. 1,654,433; Dec. 20.
- Packing. A. G. Pickett. 1,616,936; Feb. 8.
- Packing and display box, Combination. W. D. Tam. 1,641,709; Sept. 6.
- Packing and forming the same, Laminated. R. H. Thorne. 1,625,506; Apr. 19.
- Packing and making the same. J. R. Gammeter. 1,627,698; May 10.

- Packing and making the same. N. E. Johnson. 1,646,356; Oct. 18.
- Packing and packing-forming machine. M. M. Cody. 1,646,992; Oct. 25.
- Packing and preserving food products and the package obtained thereby. E. Sutter. 1,640,860; Aug. 30.
- Packing, Asbestos crown-type. E. E. Switzer. 1,626,436; Apr. 26.
- Packing biscuit. G. M. Anderson and S. Hilder. 1,618,503; Feb. 22.
- Packing box for siphon pipes. C. H. Atkins. 1,620,862; Mar. 15.
- Packing case. H. N. Knowlton. 1,640,452; Aug. 30.
- Packing case, Collapsible. B. E. Freeman. 1,636,223; July 19.
- Packing construction. W. H. Burstall. 1,618,511; Feb. 22.
- Packing container. R. Bucher. 1,647,604; Nov. 1.
- Packing cups, Apparatus for making. B. Stoltz and D. Lillie. 1,622,085; Mar. 29.
- Packing cutter. G. E. Long. 1,622,655; Mar. 29.
- Packing device. W. A. Breckon. 1,631,004; May 31.
- Packing device. A. L. Segelhorst. 1,631,343; June 7.
- Packing device. W. A. Trout. 1,634,881; July 5.
- Packing, Expandable. E. E. Miller. 1,613,355; Jan. 4.
- Packing, Expandable. E. E. Miller. 1,641,647; Sept. 6.
- Packing, Flexible metallic. H. F. Rhodes. 1,627,620; May 10.
- Packing for inclosed axles or shafts. Oil. E. E. Noble. 1,626,957; May 3.
- Packing form. W. Fean. 1,641,073; Aug. 30.
- Packing, Forming metallic. H. P. Rhodes. 1,620,051; May 17.
- Packing-gland mechanism. A. Hollander. 1,649,472; Nov. 15.
- Packing-gland structure. L. D. Collar. 1,638,619; Aug. 9.
- Packing, Joint. P. S. Sinclair. 1,630,675; May 31.
- Packing joint. J. C. Straub. 1,653,884; Dec. 27.
- Packing machinery. W. E. Molins. 1,652,871; Dec. 13.
- Packing, Manufacture of metallic. M. M. Cody. 1,642,431; Sept. 13.
- Packing, Metallic. J. A. MacMurchy. 1,639,521; Aug. 16.
- Packing of rotary shafts. C. Hutti. 1,623,311; Mar. 29.
- Packing pad. H. J. Block. 1,627,827; May 10.
- Packing, Piston. T. B. McCall. 1,624,613; Apr. 12.
- Packing, Piston. J. F. Panyard. 1,638,453; Aug. 9.
- Packing, Piston-ring spring. A. B. Low. 1,640,155; Aug. 23.
- Packing press. W. G. Price. 1,622,669; Mar. 29.
- Packing, Prismatic articles. J. Bild. 1,635,528; July 12.
- Packing, Pump. J. D. Maxwell. 1,619,211; Mar. 1.
- Packing, receptacle. C. E. Manderbach. 1,627,613; May 10.
- Packing ring. B. P. Joyce. 1,617,725; Aug. 30.
- Packing ring. V. E. Nelson. 1,624,671; Apr. 12.
- Packing ring. O. Stoffel. 1,631,654; June 7.
- Packing ring. J. B. Wenzel. 1,642,524; Sept. 13.
- Packing ring for pistons. A. C. Hoecker. 1,640,151; Aug. 23.
- Packing, Rod. A. C. Judd. 1,617,952; Feb. 15.
- Packing rugs, etc. M. Bassan. 1,618,972; Mar. 1.
- Pad: See—
- Auto condensation pad. Reducing pad.
- Cleaning pad. Rug pad.
- Collar pad. Sanitary pad.
- Food pad. Seat pad.
- Fruit-container pad. Shoulder pad.
- Half-waving pad. Sliding pad.
- Heating pad. Stamp pad.
- Hip and spine pad. Stirrup pad.
- Ironing pad. Sudatory receptor pad.
- Knee pad. Swimming pad.
- Packing pad. Tampion pad.
- Pneumatic pad. Truss pad.
- Powder pad. Writing pad.
- Pad for dental use. A. B. Johnson. 1,635,275; July 12.
- Pad for hair waving. E. O. Schnell. 1,631,342; June 7.
- Pad for infants. B. Padolsky. 1,637,088; July 26.
- Pad holder. J. B. Kemp. 1,616,618; May 10.
- Pad rest. T. D. Oakley. 1,622,290; Mar. 29.
- Padding material. J. R. Miller. 1,650,030; Nov. 22.
- Padlock. H. Biemer. 1,621,347; Mar. 15.
- Padlock. J. P. Errecalde. 1,617,204; Feb. 8.
- Padlock. S. R. Fraim. 1,635,711; July 12.
- Padlock. F. Horak. 1,616,449; Feb. 8.
- Padlock, Combination. A. Chisholm. 1,653,254; Dec. 20.
- Padlock, base device. P. Frantz. 1,622,059; Apr. 5.
- Padlock, Sealed. A. C. Jackson. 1,629,888; May 17.
- Padlocks, door locks and the like, Keyless combination lock mechanism for. P. Arnati. 1,621,148; Mar. 15.
- Page holder. A. H. Senn. 1,615,889; Feb. 1.
- Pail. J. M. Eliffe. Des. 73,649; Oct. 18.
- Pail. Aluminum dinner. J. C. Fritzsche. 1,637,144; July 26.
- Pail cover, Fruit-picking. A. Burch and R. C. Yost. 1,636,679; July 26.
- Pail cover, Sanitary milk. C. M. Stemen. 1,636,190; July 19.
- Pail, Fruit. J. L. Betts. 1,620,059; Mar. 8.
- Pail holder. W. W. Haerdt. 1,628,722; May 17.
- Pail holder, Milk. W. J. Whitte. 1,646,437; Oct. 25.
- Pail holder, Milking. E. J. Schnabl. 1,653,972; Dec. 27.
- Pail, Milking. D. W. Bennett. 1,635,921; July 12.
- Pails and the like, Carrier for. G. Polhausen. 1,620,919; Mar. 15.
- Pails, Header for. H. Schrader. 1,636,839; July 26.
- Pails, Sanitary cover and strainer for milk. C. Nelson. 1,624,276; Apr. 12.
- Pails, Strainer and cover for. E. C. Overhoe and M. I. Greshet. 1,645,818; Oct. 13.
- Paint. J. R. Bristow. 1,635,110; July 5.
- Paint. D. Isenberg. 1,650,071; Nov. 22.
- Paint and plastic substance. S. I. Robinson. 1,635,095; July 5.
- Paint and varnish, Composition for removing. A. G. Munyon. 1,614,929; Jan. 18.
- Paint and varnish remover. C. Ellis. 1,613,560; Jan. 4.
- Paint and varnish remover. O. P. Swift. 1,620,409; Mar. 8.
- Paint and varnish remover base. C. Ellis. 1,647,399; Nov. 1.
- Paint and varnish remover, Ethyl-alcohol. C. Ellis. 1,613,561; Jan. 4.
- Paintbrush. S. Beck. 1,640,182; Oct. 18.
- Paintbrush. P. A. Rossi. 1,653,374; Dec. 20.
- Paintbrush. W. C. Seitz. 1,618,311; Feb. 22.
- Paintbrush, Magazine. R. Rogers. 1,644,866; Oct. 4.
- Paint composition. J. W. Lowman. 1,625,815; Apr. 26.
- Paint, Enamel. Forming an artistic. C. H. Egelhoff. 1,616,760; Oct. 4.
- Paint formula. L. Francis. 1,639,599; Aug. 16.
- Paint-improving composition and size. C. B. Kelly. 1,633,106; June 21.
- Paint mixer. F. Beckord. 1,616,567; Feb. 8.
- Paint packages, Follower for. J. W. Hasburg. 1,619,930; Mar. 8.
- Painter's scaffold. J. L. Thorne. 1,615,182; Jan. 18.
- Painting. E. H. W. Ullrich. 1,654,277; Dec. 27.
- Painting and the production of the same. F. Biau. 1,640,280; Aug. 23.
- Painting apparatus. H. P. Gale. 1,622,224; Mar. 22.
- Painting apparatus. W. W. Rockwood. 1,653,588; Dec. 20.
- Painting machine. H. O. Kuhlhoff. 1,640,776; Aug. 30.
- Painting on velvet or other cut pile fabric. R. Alexander. 1,623,771; Apr. 5.
- Paints, Processes and composition therefor. A. Rogers. 1,647,669; Nov. 1.
- Paints and stains, Producing. G. W. Carver. 1,632,365; June 14.
- Paints, Base for. S. J. Beebe. 1,615,673; Jan. 25.
- Paints for fishing nets, Producing. S. Tomioka. 1,617,426; July 15.
- Paints, Manufacture of. D. Gardner. 1,617,754; Feb. 15.
- Palet. C. B. Cushman. 1,637,411; Aug. 2.
- Palet. R. V. Proctor and H. M. Schaab. 1,619,769; Mar. 1.
- Palm nuts, Apparatus for shelling. R. B. Johnston. 1,645,450; Nov. 8.
- Pan: See—
- Ash pan. Fire pan.
- Baking pan. Humidifier pan.
- Bedpan. Locomotive ash pan.
- Broler pan. Pie pan.
- Cake pan. Pugging wet pan.
- Conveyer pan. Strapping-off pan.
- Covered pan. Vacuum pan.
- Electric frying pan. Weigh pan.
- Pan. F. Leister. 1,618,097; Feb. 15.
- Pan and grate therefor, Sintering. G. L. Shook. 1,634,272; July 5.
- Pancake-type variometers, Control for. V. D. Landon. 1,621,018; Mar. 15.
- Pan cover, Frying. E. M. Salmon. 1,622,351; Mar. 29.
- Pan-filling machine. L. S. Harber. 1,633,014; June 21.
- Pan holder. B. L. Jeffers. 1,632,972; June 21.
- Pan lifter. A. R. McDaniel. 1,637,227; July 26.
- Pan-making machine, Automatic. W. J. Roephe. 1,625,502; Apr. 19.
- Pan-making machine, Automatic. W. J. Roephe. 1,625,502; Apr. 19.
- Pan-preparing mechanism. G. Smith. 1,615,727; Jan. 25.
- Pan-treating apparatus. G. Smith. 1,639,540; Aug. 16.
- Pans, Attachment for frying. C. A. and J. A. Landgren. 1,627,099; May 8.
- Pans for baking, Preparing. G. Smith. 1,610,007; Feb. 1.
- Pans wiper. F. O. Dutton, Jr. 1,647,513; Nov. 1.
- Panel. W. M. Schwartz. 1,652,055; Dec. 6.
- Panel and interchanging means, Removable. A. Ashkenas. 1,651,941; Dec. 6.
- Panel board. R. B. Benjamin. 1,636,277; July 19.
- Panel board and panel-board construction. H. F. Starrrett. 1,625,845; May 24.
- Panel clamp. J. C. De Penning. 1,639,083; Aug. 16.
- Panel-fastening means. J. W. Sterbenz. 1,645,120; Oct. 11.
- Panel-picking. R. Gaudard. 1,648,584; Nov. 8.
- Panel, Laminated. H. Watson. 1,649,555; Nov. 15.
- Panels, Operating and locking device for oscillating. C. T. Weymann. 1,625,923; Apr. 26.
- Panels, Operating apparatus for vertically-sliding. C. T. Weymann. 1,634,861; July 5.
- Panels, signs and the like, Making ornamental. W. H. Spencer. 1,614,263; Jan. 11.
- Pants, Football. D. M. Bullock. 1,641,733; Sept. 6.
- Paper and coating paper, Coated. W. W. McLaurin. 1,619,027; Mar. 1.

- Paper and coating the same. G. E. Grimm. 1,614,611; Jan. 18.
- Paper and container made therefrom. Oil and grease proof. O. Kress. 1,633,787; June 28.
- Paper and making same. H. A. Smith. 1,644,451; Oct. 4.
- Paper and making same. Decorated. D. A. Smith and C. P. Stirling. 1,623,280; Apr. 5.
- Paper and making same. Gummed strip. W. W. McLaurin. 1,619,081; Mar. 1.
- Paper and making the same. Coated. G. E. Grimm. 1,617,945; Feb. 15.
- Paper and other fabrics. Apparatus for operating on. N. M. Goodlett. 1,627,966; May 10.
- Paper and other rolls. Holding and printing mechanism for wrapping. L. R. D. Stahle. R. G. Wilson, W. R. Terry, and D. M. Hull. 1,617,086; Feb. 8.
- Paper and the like fibrous material. Drying. E. v. Asten. 1,615,210; Jan. 25.
- Paper. Apparatus and method for packaging. H. P. Caruth and W. C. Ludwig. 1,638,563; Aug. 9.
- Paper. Apparatus and method for packaging. W. C. Ludwig. 1,618,542; Feb. 22.
- Paper. Apparatus for applying a lubricant to. C. Gustavson. 1,643,117; Sept. 20.
- Paper article method and apparatus. C. A. Flood and J. H. Gibbs. 1,638,298; Aug. 9.
- Paper articles. Crepe. C. A. Flood and J. H. Gibbs. 1,638,299; Aug. 9.
- Paper bag. A. E. Welstock and H. Dahne. 1,624,522; Apr. 12.
- Paper-bagging machine. H. Burgdorf. 1,646,572; Oct. 25.
- Paper bag. Reinforced. J. W. Taggart. 1,643,370; Nov. 8.
- Paper binding-tool. H. B. Barnbrook. 1,643,193; Sept. 20.
- Paperboard. Coated. C. C. Colbert and G. E. Preston. 1,624,091; Apr. 12.
- Paperboard. Treating. D. Einley. 1,641,479; Sept. 6.
- Paper box. C. H. Kappes. 1,631,595; June 7.
- Paper box. F. J. Schleicher. 1,631,225; June 7.
- Paper box. F. J. Schleicher. 1,641,012; Aug. 30.
- Paper box and blank. C. E. Stevens. 1,651,848; Dec. 6.
- Paper box and making the same. S. Rosenthal. 1,633,229; June 21.
- Paper. Box cover. A. Pistorius. Des. 72,633; May 10.
- Paper box. Reinforced. A. D. Sella. 1,643,564; Sept. 27.
- Paper box. Reinforced and leak-tight. E. W. Labombarde. 1,634,073; June 28.
- Paper can. R. A. Bennett and A. M. Boothby. 1,633,884; June 28.
- Paper carton. W. C. Schilling. Des. 73,209; Aug. 2.
- Paper, carton, and like materials. Apparatus for working. H. Bobst. 1,619,848; Mar. 8.
- Paper clip. G. F. Griffiths. 1,654,076; Dec. 27.
- Paper clip. C. W. Sponsel. 1,622,682; Mar. 29.
- Paper clip. G. Steinmetz. 1,615,179; Jan. 18.
- Paper clips. Machine for and making. G. F. Griffiths. 1,654,077; Dec. 27.
- Paper. Coated. W. G. Bent. 1,623,522; Apr. 5.
- Paper-coloring device. K. Wille and W. Tiek. 1,638,757; Aug. 9.
- Paper container. A. Moore. 1,627,047-8; May 3.
- Paper container bodies and the like. Infolding. A. Moore. 1,627,049; May 3.
- Paper containers. Making. J. E. Annen. 1,636,584; July 19.
- Paper-converting machine. C. O. Gammell. 1,641,423; Sept. 6.
- Paper-creping apparatus. K. Wandel. 1,630,320; May 31.
- Paper-cripping machine. C. E. Scott. 1,629,743; May 24.
- Paper. Crinkling and reinforcing. W. W. Rowe. 1,628,515; May 10.
- Paper cup. C. Barbieri. 1,632,869; June 21.
- Paper cup and blank for making the same. C. Barbieri. 1,632,868; June 21.
- Paper cup container. D. F. Curtin. 1,625,193; Apr. 19.
- Paper cup. Folding. C. Barbieri. 1,632,867; June 21.
- Paper cutter. A. R. Bell. 1,651,434; Dec. 6.
- Paper cutter. E. E. Hall. 1,624,235; Apr. 12.
- Paper cutter. W. B. Reynolds and W. E. Jackson. 1,623,495; Apr. 5.
- Paper cutter. W. V. L. Valiquette and C. Seyhold. 1,612,956; Jan. 4.
- Paper-cutting and other machines. Automatic clamping device for. J. F. Schroeter. 1,640,965; Aug. 30.
- Paper-cutting machine. F. Lerner. 1,632,378; June 14.
- Paper-cutting machine. J. E. Mulroney. 1,653,304; Dec. 20.
- Paper-cutting machine and gauge therefor. J. E. Mulroney. 1,653,303; Dec. 20.
- Paper. Decorative. J. Porter. 1,616,138; Feb. 1.
- Paper. Device for making rolls of. H. Liebeck. 1,633,595; June 28.
- Paper dispenser. J. F. Leidecker. 1,653,298; Dec. 20.
- Paper drier. C. W. Shartle and A. E. Bridge. 1,614,694; Jan. 18.
- Paper drinking cup. W. E. Benson. 1,654,318; Dec. 27.
- Paper-drying machines. Driving mechanism for. B. A. Malkin. 1,616,383; Feb. 1.
- Paper. Equalizing device for rewinding web. H. Hilbert. 1,648,479; Nov. 8.
- Paper exhibiting printed matter. Coated. W. L. Carter. 1,616,963; Feb. 8.
- Paper fastener. J. A. Elias. Re16,610; May 3.
- Paper fastener. F. J. Kilne. 1,645,430; Oct. 11.
- Paper fastener. P. Stellmach. 1,641,936; Sept. 6.
- Paper-fastening device. S. Svenson. 1,637,357; Aug. 2.
- Paper feed. Automatic. W. E. Myers and C. E. Young. 1,653,330; Dec. 20.
- Paper-feed mechanism. G. Gwinn. 1,626,409; Apr. 26.
- Paper feeder. A. Olson. 1,626,353; Apr. 26.
- Paper feeder. Automatic. J. T. Dickman and T. L. Wheeler. 1,648,115; Nov. 8.
- Paper feeding. H. Bradshaw. 1,628,224-5; May 10.
- Paper-feeding apparatus. A. Broadmeyer. 1,624,912; Apr. 19.
- Paper-feeding machine. T. C. Dexter. 1,628,125; May 10.
- Paper-feeding machine. H. Hallstream. 1,624,787; Apr. 12.
- Paper-feeding machines. Sheet-separating device for. E. H. Liljebladh. 1,635,626; July 12.
- Paper-feeding mechanism. L. J. Frohn. 1,618,182; Feb. 22.
- Paper-feeding mechanism. L. H. Morse. 1,621,678; Mar. 22.
- Paper-feeding roll. W. B. Bronander. 1,626,386; Apr. 26.
- Paper. Figured tissue. L. Wagner. Des. 72,043-7; Feb. 15.
- Paper file. J. S. Small. 1,623,981; Apr. 12.
- Paper-filing device. F. J. Kilne. 1,652,205; Dec. 13.
- Paper-filing machines. Belt for. F. C. Ladd and E. G. Neal. 1,641,173; Sept. 6.
- Paper folders and containers. Fastening means for. W. R. Shrum. 1,615,200; Jan. 18.
- Paper folding box. W. C. Miller. 1,614,205; Jan. 11.
- Paper folding, cutting, and delivering machine. J. O. Hunt. 1,626,341; Apr. 26.
- Paper-folding device. T. N. Deligianes and A. A. Bourdes. 1,613,505; Jan. 4.
- Paper-folding machine. J. O. Hunt. 1,618,711; Feb. 22.
- Paper-folding machine. G. A. Shaffer and F. H. Wirtz. 1,652,417; Dec. 13.
- Paper-folding machine. J. H. Shipley. 1,638,176; Aug. 9.
- Paper-folding machines. Attachment for. F. E. Jamison. 1,627,333; May 3.
- Paper-folding machines. Discharging mechanism for. T. N. Deligianes and A. A. Bourdes. 1,647,086; Oct. 25.
- Paper for preventing tarnishing of polished metals. F. H. Osborne. 1,628,610; May 10.
- Paper formation and weight indicator. R. A. Steffen. 1,634,344; July 5.
- Paper from straw and product. Making. C. D. Wood. 1,634,603; July 5.
- Paper from walls. Removing wall. L. O. Ullom. 1,646,177; Oct. 18.
- Paper-hanger's table. J. H. A. Christiansen. 1,623,167; Apr. 5.
- Paper-hanging device. W. H. Hale. 1,639,134; Aug. 16.
- Paper-hanging device for wall. E. R. Burke. 1,626,020; Apr. 26.
- Paper having the appearance of handmade paper. Method and apparatus for making. J. H. A. Armstrong. 1,616,211; Feb. 1.
- Paper holder. J. C. Murdock. 1,624,427; Apr. 12.
- Paper holder and display rack. Z. S. Randleman. 1,652,411; Dec. 13.
- Paper holder and feeder. Roll. D. L. Cooper. 1,615,359; Jan. 25.
- Paper machine and making paper. N. J. Nicks. 1,641,987; Sept. 13.
- Paper-machine driers. Exhaust system for. W. E. Rosebush. 1,631,833; June 7.
- Paper. Machine for making. A. Aldrich. 1,617,734; Feb. 15.
- Paper. Machine for making corrugated. S. M. Langston. 1,642,732; Sept. 20.
- Paper. Machine for making decorated. D. A. Smith and C. P. Stirling. 1,623,281; Apr. 5.
- Paper machine. Transparent. E. M. Kratz. 1,650,585; Nov. 22.
- Paper machines and textile-goods-drying machines. Drying cylinder for. E. Lüttschen. 1,640,662; Aug. 30.
- Paper machines and the like. Breast roll for. W. H. Millsbaugh. 1,653,817; Dec. 27.
- Paper machines and the like. Segregated drive for. W. L. Merrill. 1,614,142; Jan. 11.
- Paper machines. Attachment for. J. Schell and O. T. Paterson. 1,634,159; June 28.
- Paper machines. Dandy-roll support for. E. N. Daulton. 1,621,874; Mar. 22.
- Paper machines. Drive of drying cylinders of. P. Priem. 1,635,765; July 12.
- Paper machines. Felt conditioner for. W. P. Feeney. 1,635,247; July 12.
- Paper machines. Operating apparatus for safety guards on roll winders of. E. Bourgond and A. Letti. 1,628,488; May 10.
- Paper machines. Portable air jet for. F. Bedard. 1,644,226; Oct. 4.
- Paper machine. Rope paper carrier for. J. F. Thibedeau, A. Deguire, W. Turner, and A. McDermid. 1,646,044; Oct. 18.
- Paper machines. Slice for. D. B. Davies and C. J. Thomas. 1,623,096; Apr. 5.
- Paper. Making. J. A. Heany. 1,642,405; Sept. 13.

- Paper, Making. L. Kirschbraun. 1,621,888; Mar. 22.
 Paper making. W. A. Whitcomb. 1,624,029; Apr. 12.
 Paper making and the like, Elaborating corstalsks into pulp for use in. O. R. Sweeney. 1,639,152; Aug. 16.
 Paper-making apparatus. H. G. Cram. 1,629,681; May 24.
 Paper-making apparatus. R. E. Heisel. 1,643,057; Sept. 27.
 Paper-making device. S. A. Staeger. 1,633,960; June 28.
 Paper-making machine. E. E. Berry. 1,623,157; Apr. 5.
 Paper-making machine. E. E. Berry. 1,627,882; May 10.
 Paper-making machine. J. Moravec. 1,640,007; Aug. 23.
 Paper-making machine. F. A. Peschl. 1,620,937; Mar. 8.
 Paper-making machine. F. A. Peschl. 1,634,885; July 5.
 Paper-making machine. E. Poirier. 1,633,189; June 21.
 Paper-making machine. T. T. Rogan and W. E. B. Wright. 1,617,767; Feb. 15.
 Paper-making machine. C. W. Valentine. 1,619,168; Mar. 1.
 Paper-making machines and making the same, Wire netting for. C. Kurtz-Hähnel and H. Kurtz. 1,624,049; Apr. 12.
 Paper-making machines, Apron board for. C. W. Valentine. 1,635,773; July 12.
 Paper-making machines, Drive for. B. A. Malkin. 1,616,382; Feb. 1.
 Paper-making machines, Eliminating water from the pulp on the wire of. V. Antoine. 1,638,975; Aug. 16.
 Paper-making machines, Moisture-testing means for. F. A. Peschl. 1,623,430; Apr. 5.
 Paper-making machines, Stock regulator for. W. J. Sheridan. 1,619,682; Mar. 1.
 Paper-making machines, Water deckle for. F. W. Sears and A. Buck. 1,623,278; Apr. 5.
 Paper-making machines, Web carrier for. W. E. Sheehan. 1,651,470; Dec. 6.
 Paper-making machinery. R. E. Heisel. 1,648,229; Nov. 8.
 Paper-making mechanism. N. J. Niks. 1,641,986; Sept. 13.
 Paper making, Mottling device for. H. M. Ross. 1,624,184; Apr. 12.
 Paper making, Preparing stuff for. E. Mahler and H. A. Rothchild. 1,650,022; Nov. 22.
 Paper manufacture. A. D. Little and C. E. Carpenter. 1,624,492; Apr. 12.
 Paper manufacture, Apparatus for. C. W. Unkle. 1,644,620; Oct. 4.
 Paper Manufacture. A. E. Barnard and R. G. Caswell. 1,648,838; Nov. 8.
 Paper, Method and apparatus for making. A. E. Cofrin. 1,623,526; Apr. 5.
 Paper, Method and machine for making. C. V. Proctor. 1,637,240; July 26.
 Paper, Method of and apparatus for controlling the moisture content of. F. E. P. Klages. 1,633,817; June 28.
 Paper, Method of and apparatus for creping. A. E. Cofrin. 1,641,739; Sept. 6.
 Paper-napkin machine. J. O. Hunt. 1,653,908; Dec. 27.
 Paper napkins, towels, and the like, Packages of. P. H. Horwitz. 1,628,981; May 17.
 Paper, novelty article. A. G. Palmer. 1,622,606; Mar. 29.
 Paper, or other materials into sheets, machine for automatically cutting moving webs of. W. E. Molins. 1,631,879; June 7.
 Paper or pulp board and making the same, Composition. J. H. Mitchell. 1,648,237; Nov. 8.
 Paper or similar article, Box-cover. A. Drevensdt. Des. 72,512; Apr. 26.
 Paper or similar article, Lining. J. Lader. Des. 72,519; Apr. 26.
 Paper or similar article, Lining. W. Schmitz. Des. 72,530; Apr. 26.
 Paper or similar material, Apparatus for forming articles from. G. P. Mallory. 1,628,257; May 10.
 Paper or the like, Cover. A. Labram. Des. 72,019-22; Feb. 15.
 Paper or the like, Cover. R. I. Marwede. Des. 71,984; Feb. 8.
 Paper or the like, Cover. T. L. Stone. Des. 72,291; Mar. 22.
 Paper or the like, Cover. T. L. Stone. Des. 73,807; Nov. 8.
 Paper or the like, Process and apparatus for making. C. H. Allen. 1,620,860; Mar. 15.
 Paper ornament, Expandible tissue. M. L. Beistle. 1,616,568; Feb. 8.
 Paper package and forming it. D. C. Hurlbut. 1,630,343; May 31.
 Paper package, Tissue. B. A. Nienhauser. 1,623,806; Apr. 5.
 Paper-perforating device. F. J. Kline. 1,650,019; Nov. 22.
 Paper-placing machine, Celery-bleaching. A. P. Bush. 1,635,778; July 12.
 Paper plates and the like, Method and apparatus for making. H. E. Ruckert and B. M. Fine. 1,645,931; Oct. 18.
 Paper, Process and apparatus for making. L. Kirschbraun. 1,616,903; Feb. 8.
 Paper, Process and apparatus for moistening. W. Colditz and G. Thommel. 1,617,704; Feb. 15.
 Paper, Process and mechanism for making crinkled. N. M. Goddett. 1,626,527; Apr. 26.
 Paper product and making same. J. McIntosh. 1,631,760; June 7.
 Paper pulp and other suspensions and mixtures, Effecting agglomeration in. K. Svesen. 1,622,474; Mar. 29.
 Paper pulp, Apparatus and making. F. K. Fish, jr. 1,633,730; June 28.
 Paper pulp, Apparatus for making. W. S. Lowe. 1,613,839; Jan. 11.
 Paper pulp, Bleaching. O. Kress. 1,645,061; Oct. 11.
 Paper pulp, Bleaching. O. Kress. 1,651,530; Dec. 6.
 Paper pulp machines, Cylinder for. N. H. Bergstrom. 1,619,052; Mar. 1.
 Paper pulp, Making. B. S. Summers. 1,643,826; Sept. 27.
 Paper pulp, Method and apparatus for producing. W. H. Howell, jr. 1,645,754; Oct. 18.
 Paper pulp, Preparing. F. K. Fish, jr. 1,633,736; June 28.
 Paper pulp, Treatment of. C. R. Robinson. 1,644,447; Oct. 4.
 Paper-roll carrier. K. F. Kirkman. 1,618,342; Feb. 22.
 Paper-roll holder. N. S. Hillyard. 1,648,810; Nov. 8.
 Paper roll, Box for. N. Marcus. 1,650,495; May 31.
 Paper, Safety. J. Genosse. 1,626,078; Apr. 26.
 Paper, Safety. J. W. Neff. 1,652,042; Dec. 6.
 Paper, Safety. B. W. Smith. 1,627,254; May 3.
 Paper salt shaker. D. O. Ford. Des. 72,552; May 3.
 Paper, Scenery-forming. C. B. and H. P. Maurer. 1,650,372; Nov. 22.
 Paper-sewing clip. C. Bristow. 1,615,827; Feb. 1.
 Paper sheets, Apparatus for feeding. J. and H. Gliesecke. 1,649,401; Nov. 15.
 Paper sheets, Machine for superimposing. P. J. Christman, jr. 1,632,433; June 14.
 Paper, Shelf. E. Kurloff. Des. 74,148; Dec. 27.
 Paper sewing. J. A. De Cew. 1,621,399; Mar. 15.
 Paper stock, Method of and apparatus for working. A. J. Haug. 1,623,676; Apr. 5.
 Paper stock, Utilizing old. J. E. Plumstead. 1,625,279; Apr. 19.
 Paper strips with thinned edges, Method and apparatus making. J. G. Jones. 1,634,997; July 5.
 Paper structures, Making. H. B. Smith. 1,650,050; Nov. 22.
 Paper-supporting device. W. H. Holmes. 1,652,939; Dec. 13.
 Paper-tape machines, Cutter attachment for. J. Olsen. 1,647,314; Nov. 1.
 Paper, Tinted burnished metal-coated. G. E. Grimm. 1,617,946; Feb. 15.
 Paper to boxes and the like, Applying top or bottom cover. H. B. Smith. 1,650,399; Nov. 22.
 Paper, Treating. D. Dunlap. 1,641,478; Sept. 6.
 Paper tube. C. K. Finley. 1,634,492; July 5.
 Paper-making machine. R. J. Jauch. 1,625,470; Apr. 19.
 Paper tubes or the like, Apparatus for feeding folded. E. Engstrom. 1,619,711; Mar. 1.
 Paper-ware manufacture. H. B. Smith. 1,620,239; Mar. 8.
 Paper, Washing. C. B. Peck. 1,631,757; June 7.
 Paper web, Apparatus for feeding and registering a. W. B. Riddle. 1,637,658; Apr. 2.
 Paper weight. W. A. Riddle. 1,629,414; May 17.
 Paper weight. O. W. Sicks. Des. 72,334; Mar. 29.
 Paper-wetting machine. P. Aitchison. 1,653,610; Dec. 27.
 Paper winder. B. Morosco. 1,652,041; Dec. 6.
 Paper-winding mechanism. A. N. Van Nostrand. 1,626,343; Apr. 19.
 Paper with opaque markings, Preparing transparent. K. S. MacLachlan. 1,645,249; Oct. 11.
 Paper, Wrapping. H. Euell. Des. 72,513; Apr. 26.
 Paper, Wrapping. D. and A. E. Espagnol. Des. 72,252; Mar. 22.
 Paper, Wrapping. A. Lewin. Des. 73,395; Aug. 30.
 Papers, Fastening device for. M. A. Miller. 1,637,832; Aug. 22.
 Papers, Treating waxed and printed. P. H. Todd. 1,628,931; May 17.
 Papier-maché product and making the same. R. Beardsley. 1,618,263; Feb. 22.
 Parachute. E. Di Guilio. 1,635,823; July 12.
 Parachute. H. E. Hawes. 1,644,251; Oct. 4.
 Parachute. J. M. Russell. 1,631,766; June 7.
 Parachute. F. Simon. 1,626,563; Apr. 26.
 Parachute. A. R. Thörnblad and G. W. Nordenswan. 1,649,934; Nov. 22.
 Parachute apparatus. H. E. S. Holt. 1,618,009; Feb. 15.
 Parachute fabric. H. T. Nones. 1,650,998; Nov. 29.
 Parachute harness. J. M. Russell. 1,631,768; June 7.
 Parachute pack. J. M. Russell. 1,627,067; May 3.
 Parachute pack. J. M. Russell. 1,631,767; June 7.
 Parachute shroud lines, Method and apparatus for providing. L. L. Irvin. 1,625,725; Apr. 19.
 Paraffin deposits, Apparatus for cleaning oil wells of. H. J. Haber. 1,628,401; May 10.
 Paraffin-resisting surface for paraffin-absorbent boxes and making same. H. F. Weiss. 1,646,803; Oct. 25.
 Parasol. L. A. Capaldo. 1,632,882; June 21.
 Parasol and umbrella handles, Attachment for. A. Berkowitz. 1,637,434; Aug. 2.

- Parcel carrier for shoppers. A. M. Lapham. 1,635,423; July 12.
 Parcels, Closing. P. Gangler. 1,625,720; Apr. 19.
 Parking machine. J. A. Kaley. 1,618,091; Feb. 15.
 Parking machine, Apple. J. W. Pease. 1,615,914; Feb. 1.
 Paring machine, Vegetable. H. Robinson. 1,644,448; Oct. 4.
 Paring machines, Counting mechanism for. G. B. Fox and J. G. Christian. 1,616,081; Feb. 1.
 Parisons, Method and apparatus for blowing glass. E. Howard. 1,635,716; July 12.
 Parking device. C. Spiro. 1,634,803; July 5.
 Parking light. J. A. Pellegrini. 1,629,456; May 17.
 Parking means, Automobile. F. Palmer. 1,639,054; Aug. 16.
 Parking meter. W. A. Homan and C. T. Austin. 1,620,098; Mar. 8.
 Parquetting and flooring. J. McBride. 1,649,842; Oct. 22.
 Parter and clamp, Shuttle-feeler thread. H. A. Davis. 1,654,493; Dec. 27.
 Partition, Adjustable. J. R. Clark. 1,639,795; Aug. 23.
 Partition-assembling machine. V. M. Wade and C. E. Zuppan. 1,643,357; Sept. 27.
 Partition-holding clip. E. A. Peterson. 1,620,737; Mar. 15.
 Partition, Metal. R. F. Carpenter and T. F. Anderson. 1,621,060; Mar. 15.
 Partition, Office. S. Lowy. 1,646,651; Oct. 25.
 Partition or panel structure, Sectional. F. B. Wheat. 1,624,232; Apr. 26.
 Partition, Portable. W. Keichline. 1,647,733; Nov. 1.
 Partition, Sectional. T. F. Anderson. 1,649,836; Nov. 22.
 Partition support, Adjustable. A. Ashkenas. 1,651,940; Dec. 6.
 Partition unit and construction. U. C. Thies. 1,629,367; May 17.
 Partitions, Thimble structure for. E. C. Fox. 1,645,419; Oct. 11.
 Passages between chambers, Formation of. H. C. Zimmerman. 1,620,850; Mar. 15.
 Paste light. B. A. Jeannette. 1,626,281; Apr. 26.
 Paste and preparation thereof, Printing. H. Müller. 1,615,908; Feb. 1.
 Paste-dispensing device. E. Wisroth. 1,613,368; Jan. 4.
 Paste, Mordant. S. Nisato. 1,647,539; Nov. 1.
 Paste to battery grids, Apparatus for applying. R. J. Richardson. 1,635,567; Dec. 20.
 Paste to labels, Device for applying. G. A. Walstead. 1,615,778; Jan. 25.
 Paste tube. S. I. Copen. 1,613,940; Jan. 11.
 Paster cutting and applying machine. F. T. McGlynn. 1,636,611; July 19.
 Pasteurizer. T. L. Cavalli. 1,623,909; Apr. 5.
 Pasteurizer, T. W. Forrest. 1,625,529; Apr. 19.
 Pasteurizers, Flush valve for. R. B. Bagby. 1,624,572; Apr. 12.
 Pasteurizers, Valved outlet for. W. Ratenstein. 1,625,765; Apr. 19.
 Pasteurizing apparatus. R. B. Bagby. 1,624,573; Apr. 12.
 Pasteurizing apparatus. A. J. Davis. 1,638,835; Aug. 16.
 Pasteurizing apparatus. A. J. Davis. 1,647,035; Oct. 25.
 Pasteurizing apparatus. D. C. Kerckhoff and R. Copp. 1,653,629; Dec. 27.
 Pasteurizing apparatus. S. Oyama. 1,640,289; Aug. 23.
 Pasting. E. E. Sabin. 1,634,519; July 5.
 Pastry and the like, Apparatus for making. W. J. Kaser. 1,653,402; Dec. 20.
 Pastry-cream filling device. C. Cieslak. 1,630,924; May 81.
 Pastry cutter. A. W. Blendow and L. H. Blendermann. 1,615,195; Jan. 18.
 Pastry cutter. J. Bolarsky. 1,649,803; Nov. 22.
 Pastry cutter. R. J. R. Christensen. 1,615,569; Jan. 25.
 Pastry dough. J. Fousek. 1,625,022; Apr. 19.
 Patch, Blow-out. G. E. Blaylock. 1,644,104; Oct. 4.
 Patch, Repair. A. H. Cooper. 1,633,939; Dec. 27.
 Patching. C. De Penning. 1,639,082; Aug. 16.
 Pathway, Variable. F. W. Seymour. 1,647,474; Nov. 1.
 Patter. H. G. Volckenien. 1,649,089; Nov. 15.
 Pattern: See—
 Dress pattern.
 Garment pattern.
 Molder's pattern.
 Plate pattern.
 Waist pattern.
 Pattern and making the same. J. J. Reitz. 1,649,252; Nov. 15.
 Pattern-controlled shedding mechanism. T. A. B. Carver. 1,633,475; June 21.
 Pattern-copying machine. T. H. Seely. 1,617,502; Feb. 15.
 Pattern-grading machine. M. V. Preston. 1,627,062; May 3.
 Pattern-grading machines, Template holder for. J. H. H. J. and H. M. Sutherland. 1,633,295; June 21.
 Pattern mechanism for dobbies. J. Reynolds. 1,622,344-5; Mar. 29.
 Pattern stab, Automatic. E. E. Brinser. 1,646,744; Oct. 25.
 Patterns to pattern-carrying members, Forming and applying paper-marking. J. G. Callan. 1,653,143; Dec. 20.
 Pavement. J. F. Driscoll. 1,653,395; Dec. 20.
 Pavement. F. V. Lanham. 1,623,417; Apr. 5.
 Pavement. H. D. Streater. 1,636,113-14; July 19.
 Pavement and process of constructing pavements. B. H. Wait. 1,628,482; May 10.
 Pavement and process of constructing pavements. B. H. Wait. 1,650,554; Nov. 22.
 Pavement. Cement-block. E. De Meyer. 1,643,879; Sept. 27.
 Pavement, Crossing. A. E. Scherm. 1,613,850; Jan. 11.
 Pavement-finishing machine. G. E. Webb. 1,628,088; May 10.
 Pavement-finishing machine, Concrete. O. L. Kipp. 1,629,276; May 17.
 Pavement, Rectifying, Positioning. W. D. Eaton and T. P. Lamb. 1,643,578; Sept. 27.
 Pavement, Sectional-rubber. A. F. Masury and A. H. Leipert. 1,643,024; Sept. 20.
 Pavements, Apparatus for heating street. C. T. Denker. 1,616,611; Feb. 8.
 Pavementing, Apparatus for finishing concrete. F. L. Shiller and R. D. Gregg. 1,626,879; May 3.
 Pavements, Compensating and drainage joint for. G. W. Warmoth. 1,625,176; Apr. 19.
 Pavements, Corrugated base for. W. Bannen. 1,641,655; Sept. 6.
 Paving. W. B. Wescott. 1,645,635; Oct. 18.
 Paving block. E. Clark. 1,626,269; Apr. 26.
 Paving block. A. H. Leipert. 1,640,460; Aug. 30.
 Paving block. T. J. Priestman. 1,638,744; Aug. 9.
 Paving block. A. M. Zottoli. 1,619,844; Mar. 8.
 Paving block and tile. W. T. Bonner and J. W. Thropp. 1,629,433; May 17.
 Paving block, Rubber-compound. R. F. Herrick. 1,637,567; Aug. 2.
 Paving blocks and slabs made of rubber compound, Making. E. Draulette. 1,629,487; May 24.
 Paving composition, Asphaltic. C. N. Forrest. 1,634,241; Aug. 14.
 Paving compositions, Forming. C. Swan. 1,632,456; June 14.
 Paving construction. R. B. Gage. 1,637,480; Aug. 2.
 Paving joints, Elastic and expandable. A. C. Fischer. 1,616,554; Feb. 22.
 Paving material, Apparatus for sizing. M. Madsen. 1,617,919; Feb. 15.
 Paving material, Treating Kentucky and similar rock asphalts in the making of. S. S. Sadtler. 1,650,047; Nov. 22.
 Paving materials, Treating asphaltic. P. J. McInerney. 1,644,264; July 19.
 Paving roller and steering mechanism. P. W. Dietly. 1,638,294; Aug. 9.
 Pawl mechanism. J. Mortensen and L. Tropp. 1,614,847; Jan. 18.
 Peanut and potato digger. B. K. Basho. 1,631,457; Jan. 18.
 Peanut digger. G. D. Grizzard. 1,634,660; July 5.
 Peanuts, Process and apparatus for bleaching. A. C. Norsworthy, Jr. 1,640,849; Aug. 30.
 Pea sheller. J. C. Hardie. 1,615,031; Jan. 18.
 Pea viner, Green-. F. P. Ryder. 1,652,498; Dec. 13.
 Pearl essence, Preparation of. J. Paisseau. 1,615,770; Jan. 25.
 Pearls or the like, Securing rows of. A. Hadley. 1,646,289; Oct. 18.
 Peat, Dewatering. G. A. Schroter. 1,625,058; Apr. 19.
 Peat, Making decorative material from. T. Viersen. 1,625,066; Apr. 19.
 Pectin from fruit, Extracting. H. T. Leo. 1,654,131; Dec. 27.
 Pectin products, Manufacture of. D. R. Nanji and F. J. Paton. 1,634,879; July 5.
 Pedal, actuating. W. J. Hardy. 1,616,367; Feb. 1.
 Pedal, Accelerator and holding means, Low-speed. W. J. Kidd. 1,620,667; Mar. 8.
 Pedal attachment. W. G. Fulkerson. 1,638,927; Aug. 16.
 Pedal, Control. E. A. Wright. 1,632,940; June 21.
 Pedal control of stop actions. J. H. Hammond, jr. 1,641,166; Sept. 6.
 Pedal depressor. C. C. Cowdrey. 1,615,798; Jan. 25.
 Pedal lock. H. Hammond, jr. 1,633,178; June 21.
 Pedestal. D. V. Martin. 1,636,966; July 26.
 Pedestal, Car truck. G. A. Woodman. 1,638,675; Aug. 9.
 Pedestal, Expansion. J. N. Heltzel. 1,626,694; Aug. 9.
 Pedestal or similar article. E. T. Palmenberg. Des. 72,071; Feb. 25.
 Pedestal or the like. E. T. Palmenberg. Des. 72,910; June 21.
 Peeler. J. Q. Leavitt. 1,647,872; Nov. 1.
 Peeling machine. M. Benninger. 1,645,516; Oct

- Pen and pencil clip. W. Halket. 1,640,498; Aug. 30.
 Pen and pencil. Fountain. F. S. Morris. 1,632,710; June 14.
 Pen and pencil grip. A. L. Baer. 1,619,801; Mar. 8.
 Pen and pencil holder. F. L. McCaskill. 1,623,966; Apr. 12.
 Pen and pencil holder for second finger, Short-barreled. S. Vance. 1,652,072; Dec. 6.
 Pen and stand therefor. Fountain. W. I. Ferris. 1,620,529; Mar. 8.
 Pen attachment. S. Collander. 1,629,775; May 24.
 Pen clip and pocket check protector, Combined. R. G. Clyne. 1,644,668; Oct. 11.
 Pen clip or similar article. J. L. Schnell. Des. 73,416; Sept. 6.
 Pen desk stand or similar article. S. Kanner. Des. 72,558; May 3.
 Pen for recording instruments. H. W. Heesch. 1,630,297; May 31.
 Pen, Fountain. M. Alland. 1,617,140; Feb. 8.
 Pen, Fountain. M. Alland. 1,619,323; Mar. 1.
 Pen, Fountain. W. F. Benson. 1,620,626; Mar. 15.
 Pen, Fountain. H. Boyer and M. Kleivins. 1,633,433; June 21.
 Pen, Fountain. C. A. Haist. 1,620,345; Mar. 8.
 Pen, Fountain. W. A. Hartline. 1,615,758; Jan. 25.
 Pen, Fountain. O. B. Hjorth. 1,634,918; Jan. 25.
 Pen, Fountain. L. L. Holmes. 1,615,980; Feb. 1.
 Pen, Fountain. M. Katz. 1,621,168; Mar. 15.
 Pen, Fountain. T. Kovács. 1,633,896; June 28.
 Pen, Fountain. M. M. Mach. 1,625,860; Apr. 26.
 Pen, Fountain. G. H. Osterhout, Jr. 1,647,882; Nov. 1.
 Pen, Fountain. J. C. Poetz. 1,615,312; Jan. 25.
 Pen, Fountain. J. C. Poetz. 1,648,241; Nov. 8.
 Pen, Fountain. W. E. Stewart. 1,651,047; Nov. 29.
 Pen, Knocking. O. C. Schmidt. 1,646,934; Oct. 25.
 Pen, Fountain. I. D. Tefft. 1,624,190; Apr. 12.
 Pen, Fountain. J. C. Wahl. 1,624,194; Apr. 12.
 Penholder. M. Falco. 1,625,115; Apr. 19.
 Penholder. G. T. Swasey. 1,641,511; Sept. 6.
 Pen holder, Base for fountain. E. T. Back. 72,885-6; June 21.
 Pen holder, Fountain. W. G. Lewis. Des. 72,903; June 21.
 Penholder, Fountain. J. B. Mattson. 1,612,932; Jan. 4.
 Penholder or similar article. F. Di Iono. Des. 72,903; May 10.
 Pen, Manifolding. A. Rosenberg. 1,615,551; Feb. 8.
 Pen nib. H. S. Aramian. 1,621,450; Mar. 15.
 Pen or pencil clip. C. C. Chrisman. 1,634,772; July 5.
 Pen rack and paper weight, Combined fountain. W. A. and C. R. Scheerer. 1,641,829; Sept. 6.
 Pen, Reservoir. S. Dellagala. 1,629,483; May 24.
 Pen, Reservoir. T. Kovács. 1,624,554; Apr. 12.
 Pen, Reservoir. T. Kovács. 1,633,111; June 21.
 Pen, Self-filling fountain. A. F. Poole. 1,613,804; Jan. 11.
 Pen stand or similar article. M. Finstone. Des. 71,908; Nov. 25.
 Pen, Writing. J. H. Eversole. 1,649,676; Nov. 15.
 Pens and clip therefor, Cap for fountain. A. Montan. 1,629,835; May 24.
 Pens and pencils, Pocket clasp for. J. A. Ewen. 1,614,607; Jan. 18.
 Pens and the like, Holders for fountain. P. T. Webb. 1,620,930; Mar. 15.
 Pens, Blotter device for. P. Becsi. 1,623,614; Apr. 5.
 Pens, Cap attachment for fountain. G. G. Felt. 1,615,506; Jan. 25.
 Pens, Clip and pencil for fountain. R. G. Antonio. 1,630,413; May 31.
 Pens, Holder for fountain. H. L. Blackman. 1,629,987; May 24.
 Pens or pencils, Device for applying bands on. H. Esterow. 1,614,606; Jan. 18.
 Pens, Panel for animal. R. B. Loudon. 1,636,189; July 19.
 Pens, Pencils, and the like, Clip for. P. S. Hutton. 1,647,093; Oct. 25.
 Pens, Self-filler lever device for fountain. W. A. Rapoport and C. Hardy. 1,637,202; July 26.
 Pencil. F. B. Ackermann, W. C. Steffan, and W. J. Greiner. 1,621,048; Mar. 15.
 Pencil. W. R. Cuthbert and W. H. Lindemon. 1,653,151; Dec. 20.
 Pencil. C. F. Doebler. 1,650,116; Nov. 22.
 Pencil. G. Felger. Des. 73,781; Nov. 8.
 Pencil. F. Furedy. 1,638,026; Aug. 9.
 Pencil. G. W. Gilman. 1,632,371; June 14.
 Pencil. J. V. Hawey. 1,614,986; Jan. 18.
 Pencil. J. Mitchell. 1,621,945; Mar. 22.
 Pencil. C. A. Smith. 1,647,059; Oct. 25.
 Pencil. L. Sollinger. Des. 72,303; Mar. 22.
 Pencil. J. Swanberg. 1,629,766; May 24.
 Pencil. C. E. Wehn. 1,625,513; Apr. 19.
 Pencil, Automatic. L. H. Lippert and R. Bergeson. 1,621,990; Mar. 22.
 Pencil bodies and the like, Making. J. P. Lynn. 1,638,002; Aug. 2.
 Pencil case, Multicolor. L. di Rebaylo. 1,652,047; Dec. 6.
 Pencil clip and eraser holder combined. G. T. Sholey. 1,633,135; June 21.
 Pencil holder. T. W. Miller. 1,647,536; Nov. 1.
 Pencil holder for shirt waists, etc. R. W. Batten. 1,615,322; Jan. 25.
 Pencil, Illuminating. H. Bischoff. 1,649,656; Nov. 15.
 Pencil, Lead. M. F. Glennon. 1,619,927; Mar. 8.
 Pencil, Lead. C. O. Gronberg. 1,619,508; Mar. 1.
 Pencil, Magazine. M. Alland. 1,646,740; Oct. 25.
 Pencil, Magazine. H. P. Fairchild. 1,614,463; Jan. 18.
 Pencil, Magazine. C. C. Hoffman. 1,633,529; June 21.
 Pencil, Magazine. H. Morlock. 1,644,740; Oct. 11.
 Pencil, Magazine. R. D. Stevenson. 1,632,236; Dec. 13.
 Pencil, Mechanical. B. Avakian. 1,625,639; May 17.
 Pencil, Mechanical. B. B. Goldsmith. 1,627,602; May 10.
 Pencil, Mechanical. J. C. Wahl. 1,613,810; Jan. 11.
 Pencil, Mechanical. J. C. Wahl. 1,637,363; Aug. 2.
 Pencil, Mechanical. J. C. Wahl. 1,650,751; Nov. 29.
 Pencil, Mechanically-operated lead. C. H. Patten. 1,636,704; July 26.
 Pencil mold. C. E. Daniels. 1,635,261; July 12.
 Pencil, Propelling. E. Hassinger. 1,636,862; July 26.
 Pencil, Refillable. J. M. Angeletti. 1,614,860; Jan. 18.
 Pencil tip. J. K. Reckford. Des. 73,670; Oct. 18.
 Pencil with external feed, Lead. C. F. Hartman. 1,628,974; May 17.
 Pencil, Writing. A. A. Windecker. 1,613,861; Jan. 11.
 Pencils and application of latter, Device for forming far-reaching sound. J. B. Perrin, A. J. Marcellin, and H. L. M. Benard. 1,653,119; Dec. 20.
 Pencils and the like, Clip for. C. E. Keeran. 1,625,809; Oct. 26.
 Pencils, Clasp for. B. C. Becker. 1,646,742; Oct. 25.
 Pencils, Lead-laying machine for. J. S. Furst. 1,641,078; Aug. 30.
 Pencils, Method and apparatus for making. C. E. Daniels. 1,649,892; Nov. 22.
 Pencils, penholders, and the like articles, Clip for. B. W. Hanle. 1,622,316; Mar. 29.
 Pendant. F. Whitaker. Des. 73,216; Aug. 2.
 Pendulum-controlled sight. R. Kauch. 1,631,635; June 7.
 Pendulum, Gyroscopic. E. A. Sperry. 1,651,845; Oct. 4.
 Pendulum indication indicator. H. J. Smith. 1,619,317; Mar. 1.
 Pendulum scale. W. N. Gilbert. 1,614,726; Jan. 18.
 Perambulator. M. L. Bernon. 1,644,706; Oct. 11.
 Perambulator. F. H. Headley. 1,644,473; Oct. 4.
 Perch, Puller. C. V. Mueller. 1,627,448; May 8.
 Perch, puller. J. E. Dowley. 1,620,084; Mar. 8.
 Percolator. E. F. Forshee. Des. 71,787-8; Jan. 4.
 Percolator. R. W. Hagel. 1,646,022; Oct. 18.
 Percolator. T. G. Tinsley. 1,638,969; Aug. 16.
 Percolator, Coffee. J. A. Crawford. 1,645,896; Oct. 18.
 Percolator, Coffee. E. P. Gros. 1,615,542; Jan. 25.
 Percolator, Coffee. J. Leroyville. 1,613,801; Jan. 11.
 Percolator, Coffee. F. B. Price. 1,652,955; Dec. 13.
 Percolator, Coffee. G. Zebrat. 1,642,865; Sept. 20.
 Percolator, Electric. V. G. Vaughan and C. C. Harpster. 1,647,323; Nov. 1.
 Percolator-top protector. B. Kumagal. 1,648,407; Nov. 8.
 Percussion implement, Balanced rotary. G. E. Wagner. 1,632,937; June 21.
 Percussion implement, Rotary. G. E. Wagner. 1,632,255; June 14.
 Percussive device. A. I. Woodring. 1,634,927; July 5.
 Percussive device, Lubrication of. E. Femberthy. 1,629,730; May 24.
 Perforating. F. B. Keall. 1,645,648; Oct. 18.
 Perforating apparatus. A. Barberi. 1,620,711; Mar. 15.
 Perforating device. L. J. Willard. 1,649,635; Nov. 15.
 Perforating device, Casing. T. L. Darling. 1,644,637; Oct. 4.
 Perforating machine, Electric. H. C. Steffens. 1,651,074; Nov. 29.
 Perforating machine, Paper. S. A. Ragan. 1,644,950; Oct. 11.
 Perforating machines, Combination die for use in. W. F. Lautenschlager. 1,654,752; July 5.
 Perforating machines, Gauge for. W. F. Lautenschlager. 1,631,041; May 31.
 Perforating machines, Gauge for. W. F. Lautenschlager. 1,639,949; Aug. 23.
 Perforating machines of the monotype typesetting-machine system, Combination bar for the intermediate form in justifying-strip. A. Groote. 1,635,748; July 12.
 Perforating wheel. M. L. Kaplan. 1,645,385; Oct. 11.
 Perforator. D. W. Hoferer. 1,615,172; Jan. 18.
 Perforator. E. A. Ritchey. 1,642,970; Sept. 20.
 Perforator. Condensed - milk - can. M. E. Kenney. 1,651,923; Nov. 15.
 Perforator, Cryptographic. W. H. Lyman. 1,646,969; Oct. 25.
 Perforator, Receiving. H. Angel. 1,629,466; May 24.
 Perfume, Synthetic. C. S. Miner. 1,617,412; Feb. 15.
 Periscope. J. Gearon. 1,614,466; Jan. 18.
 Periscope, more particularly for submarines. J. Humbrecht. 1,624,733; Apr. 12.
 Periscope, telescope, and like observational instrument. J. M. Strange. 1,645,880; Oct. 18.
 Periscope, Vehicle. L. Sadler. 1,635,011; July 5.
 Permanent molds, Vent plug for. W. S. Anderson. 1,637,575; May 10.
 Permanent-wave device. C. Kodane and A. Joyce. 1,638,443; Aug. 9.
 Permanent waving, Tube for. W. S. Lewis. 1,637,147; July 26.

- Permutation lock. F. De Curtis. 1,628,712; May 17.
 Permutation lock. S. D. House. 1,643,244; Sept. 20.
 Permutation lock. G. M. Thomas. 1,629,239; May 17.
 Permutation lock. P. A. Weigel. 1,616,725; Feb. 8.
 Permutation switch. A. L. de Leeuw. 1,652,708; Dec. 13.
 Peroxides, Making organic. R. H. McKee. 1,614,037; Jan. 11.
 Perylene, Manufacture of. C. H. Marschalk. 1,639,653; Aug. 23.
 Petcock and priming-cup cleaner. G. T. Morris. 1,633,264; June 21.
 Petrol and other fluids, Measuring by volume. A. W. Macleod. 1,624,750; Apr. 12.
 Petrol, Production of. F. Tinker. 1,632,011; June 14.
 Petroleum and oil-field emulsions, Process of and apparatus for refining. L. E. Winkler and F. C. Koch. 1,650,813; Nov. 29.
 Petroleum and other hydrocarbons, Treating. C. P. Dubbs. 1,627,159; May 3.
 Petroleum and the like into more volatile products, Process of and apparatus for breaking up the components of. W. C. and F. E. Wells. 1,635,519; July 12.
 Petroleum distillation. W. D. Mason. 1,615,991; Feb. 1.
 Petroleum emulsions, Breaking. M. De Groote and W. C. Adams. 1,641,804; Sept. 6.
 Petroleum from oil-bearing sands, Recovery of. H. Atkinson. 1,651,311; Nov. 29.
 Petroleum hydrocarbons into lower-boiling petroleum hydrocarbons, Converting higher-boiling. C. B. Buerger. 1,623,025; Mar. 29.
 Petroleum hydrocarbons, Method and apparatus for treating. W. M. Cross. 1,621,475; Mar. 15.
 Petroleum hydrocarbons, Process and apparatus for converting. R. Cross. 1,624,778; Apr. 12.
 Petroleum hydrocarbons, Treating. W. Cross. 1,643,446; Sept. 27.
 Petroleum, Method of and apparatus for treating. J. W. Lewis, Jr. 1,636,520; June 19.
 Petroleum-oil composition. A. A. Somerville. 1,634,054; June 28.
 Petroleum oils, Continuous distillation of crude. F. M. Rogers and R. E. Wilson. 1,615,407; Jan. 25.
 Petroleum oils, Distillation of. R. W. and R. J. Hanna. 1,653,431; Dec. 20.
 Petroleum oils into lighter oils, Conversion of heavy. V. W. Northrup. 1,642,624; Sept. 13.
 Petroleum, Process of and apparatus for refining. F. A. and J. A. Milliff. 1,620,163; Mar. 8.
 Petroleum products, Refining. S. J. Dickey and R. C. Wheeler. 1,639,988; Aug. 23.
 Petroleum products, Treatment of. J. C. Black, W. D. Rial, and R. T. Howes. Rel.6,779; July 12.
 Petroleum, Refining. W. E. Lummus. 1,628,252; May 10.
 Petroleum residue, Treatment of. J. C. Morrell. 1,618,069; Feb. 22.
 Petroleum, Treating. R. Cross. 1,623,018; Mar. 29.
 Pharmaceutical product. H. Hahl. 1,616,365-6; Feb. 1.
 Pharmaceutical product. F. Kayser and K. Schranz. 1,651,458; Dec. 6.
 Pharmaceutical product containing arsenic and making same. W. Schoeller and M. Gehrke. 1,616,144; Feb. 1.
 Pharmaceutical product containing arsenic and making same. W. Schoeller and M. Gehrke. 1,642,830; Sept. 20.
 Phase-failure protection. B. W. Jones. 1,637,043; July 26.
 Phasemeter. L. O. Grondahl. 1,649,585; Nov. 15.
 Phenol-methylene resins and alcohol from methyllal, Production of. C. B. Carter. 1,645,226; Oct. 11.
 Phenol plastic or like compounds, Molding. H. E. Bohn and R. H. Fauquier. 1,625,449; Apr. 19.
 Phenolic condensation product. A. L. Brown. 1,632,113; June 14.
 Phenomena, Apparatus for recording the duration of very brief. P. A. D. Marti. 1,613,520; Jan. 4.
 Phone pillar. L. Urban. 1,648,832; Nov. 8.
 Phonic diaphragm. H. C. Harrison. 1,632,068; June 14.
 Phonic diaphragm. A. M. Nicolson. 1,624,557; Apr. 12.
 Phonograph. F. D. Arnold. 1,647,359; Nov. 1.
 Phonograph. S. Baldyzer. 1,625,446; Apr. 19.
 Phonograph. N. C. Durand. 1,615,114; Jan. 18.
 Phonograph. F. H. Horning. 1,646,148; Oct. 18.
 Phonograph. J. M. Lucarella. 1,649,965; Nov. 22.
 Phonograph. N. Magnifico. 1,619,623; Mar. 1.
 Phonograph. J. N. Pepin. 1,641,291; Sept. 6.
 Phonograph. F. J. Seabolt. 1,622,005; Mar. 22.
 Phonograph. F. J. Seabolt. 1,622,814; Mar. 29.
 Phonograph. F. J. Seabolt. 1,623,559; Apr. 5.
 Phonograph. O. Smith. 1,635,955; July 12.
 Phonograph. H. C. Stoll and H. L. Schroder. 1,628,285; May 10.
 Phonograph. B. Stump. 1,643,228; Sept. 20.
 Phonograph. I. J. Vetter. 1,623,451; Apr. 5.
 Phonograph. J. Wahlberg. 1,628,289; May 10.
 Phone and making the same. A. Ames, Jr. 1,626,591; May 3.
 Phonograph and musical-instrument cabinet, Combined. F. J. Hoke. Des. 73,912; Nov. 22.
 Phonograph and radio and coordinating unit therefor, Combined. A. H. Haag. 1,615,123; Jan. 18.
 Phone and radio cabinet, Combination. A. H. Haag. 1,635,837; July 12.
 Phonograph and radio receiving apparatus, Combined. J. W. Bishop. 1,636,210; July 19.
 Phonograph attachment. S. D. H. Moss. 1,650,089; Nov. 22.
 Phonograph cabinet. J. Wolff. Des. 71,896; Jan. 18.
 Phonograph. Electric. A. A. Thomas. 1,625,918; Apr. 26.
 Phonograph mechanism. F. H. Doerr and G. E. Roedding. 1,622,423; Mar. 29.
 Phonograph, Multiple record. D. D. Beenken. 1,622,756; Mar. 29.
 Phonograph record. J. W. Bishop. 1,637,544; Aug. 2.
 Phonograph record. W. C. Hadley. Rel.6,583; Apr. 5.
 Phonograph record. N. H. Holland. 1,643,770; Sept. 27.
 Phonograph record. A. A. Johnson. 1,641,142; Aug. 30.
 Phonograph record and making the same, Electric. A. Mutscheller. 1,620,122; Mar. 8.
 Phonograph record and producing the same. R. Quait, Jr. 1,655,862; July 12.
 Phonograph records. Electrical pick-up device for. L. Thompson and J. B. Marshall. 1,637,165; July 26.
 Phonograph records, Production of. C. A. Hoxie. 1,637,903; Aug. 2.
 Phonograph repeater. H. House. 1,632,477; June 14.
 Phonograph repeater, Adjustable. H. Seigman. 1,626,100; Apr. 26.
 Phonograph reproducer. H. S. Nelson. 1,649,483; Nov. 15.
 Phonograph reproducer. H. Segal. Des. 73,448; Sept. 13.
 Phonograph reproducer, Electric. A. A. Thomas. 1,630,640; May 31.
 Phonograph reproducer, Electric. A. A. Thomas. 1,630,643; May 31.
 Phonograph reproducer, Electrical. J. J. Jakosky. Des. 71,837; Jan. 11.
 Phonograph tone arm and resonator. W. T. Carnes. 1,633,624; June 28.
 Phonographs and the like, Driving mechanism for. M. H. Bennett and H. C. Rochette. 1,651,800; Dec. 6.
 Phonographs and the like, Sound reproducer for. D. R. Wells. 1,644,222; Nov. 8.
 Phonographs and the like, Telephone attachment for. H. R. Van Deventer. 1,619,384; Mar. 1.
 Phonographs, Automatic stop for. H. F. Spengler. 1,613,914; Jan. 11.
 Phonographs, Governor for. S. Nishida. 1,630,630; Mar. 22.
 Phonographs, Needle retainer for. J. Wolff. 1,616,732; Feb. 8.
 Phonographs, Synchronizing attachment for. F. H. Strom. 1,642,702; Sept. 20.
 Phonographs, Tone arm for. M. M. Gruber. 1,619,467; May 12.
 Phonographs, Tone regulator for. H. K. Hess. 1,617,158; Feb. 8.
 Phonographic apparatus to identify hold-up men. J. Gagl. 1,619,715; Mar. 1.
 Phonographic machines, Correction device for. W. L. Goldsborough. 1,651,056; Nov. 29.
 Phonographic record. P. Balke and G. Leysieffer. 1,627,227; May 3.
 Phonographic records, Repeating device for. S. M. Bookman. 1,643,369; Sept. 27.
 Phonographic repeating apparatus. A. A. Thomas. 1,622,011; Mar. 22.
 Phonometer. H. P. Dorn. 1,641,136; Aug. 30.
 Phosphate rock, Treating. H. Blumenberg, Jr. 1,638,677; Aug. 9.
 Phosphatides, Preparation of. A. Grün and R. Limbacher. 1,653,959; Dec. 27.
 Phosphorescent and waterproof composition, Luminous. H. von Uffel. 1,632,766; June 14.
 Phosphoric acid, Purifying. E. F. Pevere and G. A. Hendrie. 1,648,146; Nov. 8.
 Phosphorus containing nuclear substance of milk casein in chemically pure form and making the same. S. Posternak. 1,631,887; June 7.
 Phosphorus from pig iron, Elimination of. R. Schenck. 1,650,157; Nov. 22.
 Phosphorus nitride and certain halides from raw material continuously producing. C. G. Miner. 1,634,796; July 5.
 Phosphorus nitride and certain readily-volatile halides, Producing. C. G. Miner. 1,634,795; July 5.
 Phosphorus pentoxide, Production of. G. Pistor. 1,622,206; Mar. 22.
 Photo-electric cell. M. Centeno V. 1,637,293; July 26.
 Photo-electric cell. T. R. Goldsborough and O. H. Eschholz. 1,645,280; Oct. 11.
 Photo-electric device. T. W. Case. 1,628,822; May 17.
 Photo-electrical transmission apparatus. P. L. Clark. 1,648,042; Nov. 8.
 Photo-enlarging process. F. Stockinger. 1,643,526; Sept. 27.
 Photoglazing method and apparatus. J. W. Passman. 1,623,202; Apr. 5.
 Photograph card and producing the same. C. Cooper. 1,618,575; Feb. 22.
 Photograph mount. F. C. Medick. Des. 71,831-2; Jan. 18.
 Photograph. Rival. C. Bouin. 1,651,248; Nov. 29.
 Photograph washer. M. E. Charleston. 1,650,009; Nov. 22.
 Photographer's light-distributing means. E. V. King. 1,632,606; June 14.
 Photographing checks, etc., Apparatus for. J. J. Kaplan. 1,614,619; Jan. 18.

- Photographs and the like, Easel mounting for. J. Young. 1,624,302; Apr. 12.
- Photographs and the like, Embossing appliance for. H. A. E. Kraft. 1,634,466; July 5.
- Photographs and the like, Mount for. G. A. Malmé. 1,628,670; May 24.
- Photographic apparatus for obtaining three-color. G. Cuenin. 1,637,294; July 26.
- Photographs, Device for taking. E. von Schubert. 1,632,770; June 14.
- Photographs (positive prints on paper or the like), Producing colored. E. A. Lage. 1,623,123; Apr. 5.
- Photographs, Producing composite. C. D. Dunning. 1,613,163; Jan. 4.
- Photographic and cinematographic pictures, System of taking. E. Schufftan. 1,636,112; July 19.
- Photographic apparatus. A. M. Josepho. 1,631,593; June 7.
- Photographic apparatus. F. T. Powers. 1,612,832; Jan. 4.
- Photographic apparatus. F. T. Powers. 1,617,079; Feb. 8.
- Photographic apparatus, Flinder for. E. Wandersleb. 1,616,723; Feb. 8.
- Photographic appliance. V. C. Ernst. 1,645,590; Oct. 18.
- Photographic bath tank. J. D. Hayes. 1,651,454; Dec. 6.
- Photographic copies by reversal, Making. A. Miller. 1,632,740; June 14.
- Photographic copying by the reflection method. A. Miller. 1,645,112; Oct. 11.
- Photographic-developing apparatus. A. W. Caps. 1,653,429; Dec. 20.
- Photographic-developing apparatus. C. A. Hoxie. 1,623,788; Apr. 5.
- Photographic emulsion and material and process used in the preparation thereof. S. E. Sheppard and R. F. Pettett. 1,623,499; Apr. 5.
- Photographic enlargements, Process of and apparatus for eliminating granular effects. F. E. Garbutt and R. G. Fear. 1,642,772; Sept. 20.
- Photographic enlarger. E. C. Rogers. 1,633,228; June 21.
- Photographic enlarging apparatus. R. E. Meder. 1,641,345; Sept. 6.
- Photographic enlarging, reducing, reproducing, and printing apparatus. T. C. Carpio. 1,635,741; July 12.
- Photographic exposures, Device for determining. E. Mayer. 1,621,991; Mar. 22.
- Photographic film. W. Lohöfer. 1,631,421; June 7.
- Photographic film and base thereof. S. E. Sheppard and S. S. Sweet. 1,623,500; Apr. 5.
- Photographic film and reel thereof. O. Wittel. 1,623,514; Apr. 5.
- Photographic-film-developing machine. C. de Moos. 1,631,476; June 7.
- Photographic-film package. B. H. Meyering. 1,623,486; Apr. 5.
- Photographic-film spool. B. D. Chamberlin. 1,648,539; Nov. 8.
- Photographic-film-spool-making machine, Automatic. J. G. Jones and H. G. Dewey. 1,616,973; Feb. 8.
- Photographic films, Developing apparatus for. A. M. Josepho. 1,642,927; Sept. 20.
- Photographic films, Identifying means for. B. A. Slocum. 1,649,621; Nov. 15.
- Photographic films, Lessening curling tendencies of. A. F. Sulzer. 1,641,401; Sept. 6.
- Photographic films, Sheet-metal casing for. J. Schulz. 1,628,558; May 10.
- Photographic image and making same. W. V. D. Kelley. 1,628,248; May 10.
- Photographic machine, Automatic. R. E. Olsen. 1,653,408; Dec. 20.
- Photographic machine, Röntgen-ray. M. M. Pomeranz. 1,635,952; July 12.
- Photographic materials such as cut films, Holder for. H. Kroedter. 1,616,906; Feb. 8.
- Photographic mount. J. A. Cameron. 1,638,562; Aug. 9.
- Photographic objective. A. Sonnefeld. 1,616,765; Feb. 8.
- Photographic objectives, Lens attachment for. R. Richter. 1,637,917; Aug. 2.
- Photographic papers for making prints from tracings, Producing. H. Kammerer. 1,635,931; Feb. 22.
- Photographic plates and films, Protecting the gelatin coating of. C. Glaser, née Pietli. 1,640,148; Aug. 23.
- Photographic plates, films, papers, and the like, Developer for. K. Binder. 1,617,434; Feb. 15.
- Photographic plates, Registration of. H. C. Jones. 1,650,132; Nov. 22.
- Photographic printers, Light control for. N. B. Green. 1,651,767; Dec. 6.
- Photographic printing apparatus. J. B. Hadaway. 1,653,273; Dec. 20.
- Photographic-printing apparatus. S. L. Lebby. 1,635,554; July 12.
- Photographic printing in color. L. Dufay. 1,631,524; July 7.
- Photographic-printing machine. B. D. Chamberlin. 1,651,752; Dec. 6.
- Photographic-printing machine. A. G. Ogden. 1,647,246; Nov. 1.
- Photographic-printing machine. G. A. Smith. 1,635,014; July 5.
- Photographic prints, Machine for making. C. Barbieri and P. Carpenter. 1,615,155; Jan. 18.
- Photographic prints, Machine for squeegeeing, mounting, and drying. J. A. MacBride and A. E. Feysner. 1,640,266; Aug. 23.
- Photographic purposes, Collapsible copying apparatus for. A. Heyer. 1,651,954; Dec. 6.
- Photographic shutter. C. Bornama. 1,630,049; May 24.
- Photographic shutter. H. L. Cooke. 1,623,998; Apr. 12.
- Photographic shutter. S. M. Fairchild. 1,626,032; Apr. 26.
- Photographic shutter. W. A. Riddell. 1,629,534; May 24.
- Photographic shutter. W. A. Riddell. 1,645,929; Oct. 18.
- Photographic-shutter casing. W. A. Riddell. 1,616,925; Feb. 8.
- Photographic transparency and coloring same. A. G. Wallingham. 1,633,652; June 28.
- Photographic two-lens objective. F. Weidert. 1,643,865; Sept. 27.
- Photographically recording sound. R. Hart. 1,627,387; May 8.
- Photography. W. V. D. Kelley and D. Tronolone. 1,615,283; Jan. 25.
- Photography, Apparatus for multiplex. H. Piloty. 1,631,058; May 31.
- Photography, Color. H. N. Cox. 1,645,417; Oct. 11.
- Photography, Method and apparatus for producing films for color. J. Audibert. 1,625,586; Apr. 19.
- Photography, Method and apparatus for producing variable image effects in. L. F. Douglass. 1,632,221; June 14.
- Photography, Process and apparatus for producing depths effects in. J. W. Prosser. 1,616,636; Feb. 8.
- Photography, Stereoscopic. J. B. Bullitt. 1,620,992; Mar. 15.
- Photomechanical apparatus for transferring designs from flat to cylindrical surfaces. J. Darby and H. C. Jones. 1,646,392; Oct. 25.
- Photometer, Photographic. A. Herz. 1,614,672; Jan. 18.
- Photomates for ink printing, Superdurable. A. J. Plinkner. 1,640,961; Aug. 30.
- Photoplay orchestral director. S. W. Lawton. 1,648,410; Nov. 8.
- Photoprinting. E. F. Flammer and H. E. Sillman. 1,634,658-9; July 5.
- Photoprinting cabinet. J. Usnik. 1,620,927; Mar. 15.
- Photoprinting press. G. Marconi. 1,640,510; Aug. 30.
- Photoprints, Method and apparatus for handling. G. M. Dye. 1,624,781; Apr. 12.
- Phototelegraph. A. Korn. 1,618,964; Feb. 22.
- Phototelegraphic apparatus. D. von Mihalý. 1,625,967; Apr. 26.
- Physiologically-active substances from female internal secretory organs, Manufacture of. M. Hartmann. 1,651,770; Dec. 6.
- Physiologically-active substances from ovaries, corpus luteum, and placenta, Manufacture of. M. Hartmann. 1,625,360; Apr. 19.
- Piano. A. G. Sulak. 1,643,139; Sept. 20.
- Piano action. C. E. Cameron, Jr. 1,635,817; July 12.
- Piano action. J. T. Rydberg. 1,650,095; Nov. 22.
- Piano action, Continuous-tone. J. F. Veaco. 1,639,241; Aug. 16.
- Piano case, Grand-. C. Farny. Des. 72,893-4; June 21.
- Piano cases, Truss structure for upright-. J. D. Huust. 1,623,188; Apr. 5.
- Piano construction. C. F. Brey. 1,642,356; Sept. 13.
- Piano construction. C. Mehlin. 1,628,172; May 10.
- Piano cover or the like. A. L. Ejlk. Des. 73,652; Oct. 18.
- Piano device, Continuously-sounding. J. B. and S. Grinnoch. 1,619,722; Mar. 1.
- Pianoforte and organ, Combined electric. D. A. Barbieri. 1,642,944; Mar. 22.
- Piano key. G. J. Becker. 1,623,331; Apr. 5.
- Piano key. C. Gulbransen. 1,617,300; Feb. 8.
- Piano keys, Apparatus for leveling. E. S. Rauworth. 1,623,359; Apr. 5.
- Piano mechanism, Player-. S. R. Harcourt. 1,625,253; Apr. 19.
- Piano-mechanism-control device. J. H. Hammond, Jr. 1,635,994; July 19.
- Piano pedal mechanisms under control of a record, Operate. T. F. Check. 1,626,328; Apr. 26.
- Piano, Player. C. Gulbransen. 1,630,177; May 24.
- Piano, Player grand. C. Gulbransen. 1,638,629; Aug. 9.
- Piano-playing guide. G. E. Ruzza. 1,646,574; Oct. 25.
- Piano practice exerciser. E. Keller. 1,638,858; Aug. 16.
- Piano, Reproducing. S. H. Perron. 1,639,105; Aug. 16.
- Piano, Upright. W. Lane. 1,635,755; July 12.
- Pianos, Actuating player. C. H. Hanson. 1,722,827; Mar. 29.
- Pianos and the like, Music roll for automatic. F. G. Dunham. 1,652,003; Dec. 6.
- Pianos, Automatic light indicator for. I. B. Grimaldi. 1,642,810; Sept. 20.
- Pianos, Auxiliary motor-drive mechanism for player. F. Minutillo. 1,629,484; Mar. 8.
- Pianos, Drying pad for. F. C. Billings. 1,650,004; Nov. 22.

- Pianos, Dust-collecting valve mechanism for player. C. F. Stoddard. 1,638,420; Aug. 9.
- Pianos, Equalizer for automatic player. C. F. Stoddard. 1,638,419; Aug. 9.
- Pianos, Mandolin attachment for. W. G. Betz. 1,614,946; Jan. 18.
- Pianos, organs, and the like, Transposing mechanism for. O. Richards. 1,628,052; May 17.
- Pianos, Sound board for. G. H. Jones. 1,634,669; July 5.
- Picker: See—
- Cotton picker. Loom picker.
 - Fruit and nut picker. Stone picker.
- Picker. Fruit picker.
- Picker, cleaner, sorter, and bagger, Potato. C. Jasper-son. 1,641,492; Sept. 6.
- Picking up objects and articles. J. C. Brown. 1,644,366; Oct. 4.
- Pickling fruit, etc. J. W. Beckman. 1,621,188; Mar. 15.
- Pickling liquors, Removing detergent salts from. G. S. Morgan. 1,626,623; May 8.
- Pickling ripe olives. H. de F. Olivarius. 1,625,494; Apr. 19.
- Pick-up device. A. P. Young and J. Hutt. 1,654,203; Dec. 27.
- Pictorial attachment. M. Siegel. 1,613,540; Jan. 4.
- Pictorial illustration. A. E. Hurst. 1,649,959; Nov. 22.
- Picture. C. Baldwin. 1,628,640; May 17.
- Picture. H. Matthews. 1,629,879; May 24.
- Picture. C. M. Stitt. 1,627,468; May 3.
- Picture advertising bus, Passenger and moving. A. Zil-berher. 1,627,473; May 3.
- Picture and sound reproduction, Synchronized motion-. M. Hoffman. 1,648,480; Nov. 8.
- Picture apparatus, Film winding and unwinding device for motion-. E. C. Pénin. 1,627,198; May 3.
- Picture apparatus, Motion-. A. S. Howell. 1,624,730; Dec. 12.
- Picture apparatus, Motion-. W. J. Knoore. 1,628,250; May 10.
- Picture apparatus, Motion-. J. W. Scott, Jr. 1,616,926; Feb. 8.
- Picture apparatus, Motion-. J. Tessier. 1,623,505; Apr. 5.
- Picture apparatus, Talking-motion-. C. F. Batehoits. 1,652,924; Dec. 13.
- Picture device, Motion-. M. H. Loughridge. 1,643,670; Sept. 27.
- Picture-easel mount. W. J. Helmquest. Des. 73,832; Nov. 15.
- Picture equipment, Talking-moving. L. de Forest. 1,633,155; Dec. 20.
- Picture exhibiting, Motion-. L. Del Riole. 1,646,855; Oct. 25.
- Picture-film developing machine, Motion-. V. C. de Ybar-rondo. 1,633,451; Dec. 20.
- Picture-film feed, Motion-. E. H. Amet. 1,631,570; June 7.
- Picture-film strip, Motion-. P. Favour. 1,631,478; June 7.
- Picture films, Apparatus for developing. L. J. Riggie. 1,645,452; Oct. 11.
- Picture films, Apparatus for handling motion-. V. C. de Ybar-rondo. 1,629,097; May 17.
- Picture films, Method and apparatus for printing motion-. F. R. Miller. 1,634,297; July 5.
- Picture films, Pneumatic pulley for motion-. V. C. de Ybar-rondo. 1,629,154; May 17.
- Picture films, Producing composite moving-. A. V. Knechtel. 1,627,976; May 10.
- Picture films, Producing titles and inscriptions for mo-tion-. C. H. Thimme. 1,614,050; Jan. 11.
- Picture films to winding cores, Attaching motion-. A. N. Menz. 1,628,416; May 10.
- Picture frame. J. T. Johnson. 1,632,138; June 14.
- Picture frame. S. Moseson. 1,649,415; Nov. 15.
- Picture frame. G. J. Polo. Des. 73,804; Nov. 8.
- Picture frame. E. H. Roberts. 1,637,589; Aug. 2.
- Picture frame and stand therefor, Combined. M. Leskie-wicz and W. Borkowick. Des. 72,212; Mar. 15.
- Picture frame, Burglarproof. W. Zierenberg. 1,648,978; Nov. 15.
- Picture frame, Changeable. S. Parda. 1,626,150; Apr. 26.
- Picture-frame construction. V. E. Hansen. 1,637,188; July 26.
- Picture hanger. D. C. Baldwin. 1,637,981; Aug. 2.
- Picture hanger. E. S. Hake. 1,615,903; Feb. 1.
- Picture machine, Continuous moving-. J. P. Burnett. 1,624,580; Apr. 12.
- Picture machine, High-speed motion-. C. F. Jenkins. 1,618,090; Feb. 15.
- Picture machine, Motion-. J. R. Bradford. 1,641,727; Sept. 6.
- Picture machine, Motion-. C. W. Frost. 1,613,562; Jan. 4.
- Picture machine, Motion-. G. H. Kern. 1,624,667; Apr. 12.
- Picture machine, Motion-. I. N. Steigman. 1,613,730; Jan. 11.
- Picture machine, Moving. E. J. Roy. 1,621,953; Mar. 22.
- Picture machine, Talking. T. W. Case. 1,638,393; Aug. 9.
- Picture machine, Talking-moving. T. W. Case. 1,638,392; Aug. 9.
- Picture machines, Attachment, Moving. E. R. Winslow. 1,653,328; Dec. 20.
- Picture machines, Fire safety device for motion-. G. Loschirico. 1,622,952; Mar. 29.
- Picture machines, Framing mechanism for motion-. T. F. Uhlemann. 1,619,551; Mar. 1.
- Picture machines, Method and apparatus for fire pro-tection in moving-. J. E. Robin. 1,619,957; Mar. 8.
- Picture machines, Slot cleaner for motion-. L. de Forest. 1,629,152; May 17.
- Picture machines, Synchronizing mechanism for talking and motion-. V. Bouza. 1,629,252; May 17.
- Picture mechanism, Motion-. A. S. Howell. 1,637,378; Aug. 2.
- Picture mounting. W. J. Helmquest. Des. 72,211; Mar. 15.
- Picture mounting. W. J. Helmquest. Des. 72,518; Apr. 26.
- Picture-mounting device. A. W. Engel. 1,652,471; Dec. 13.
- Picture photography and projection, Motion-. A. Hernan-dez-Mejia. 1,624,947; Apr. 19.
- Picture photography, Color motion-. W. L. and S. M. Wright. 1,641,466; Sept. 6.
- Picture processing machines, Film-looping device for mo-tion-. W. D. Marshall. 1,645,916; Oct. 18.
- Picture-projecting apparatus, Motion-. P. S. Gauriat. Re16,769; Oct. 11.
- Picture-projecting apparatus. P. A. Nothstine. 1,651,467; Dec. 6.
- Picture-projecting apparatus. I. Serrurier. 1,643,134; Sept. 20.
- Picture-projecting apparatus, Focusing device for motion-. H. W. Joy. 1,620,768; Mar. 15.
- Picture-projecting device. A. D. V. Harnett. 1,616,747; Feb. 8.
- Picture-projecting machine. P. A. Nothstine. 1,645,204; Oct. 11.
- Picture-projecting machine, Motion-. J. Falt. 1,619,606; Mar. 1.
- Picture projecting machine, Motion-. A. S. Howell. 1,647,732; Apr. 12.
- Picture-projecting machines, Automatic safety shutter and motor control for. C. F. Harrison. 1,637,749; Aug. 2.
- Picture-projecting machines, Film support for motion-. L. M. Scofield and H. J. Thomas. 1,639,469; Aug. 16.
- Picture-projecting machines, Fire-preventing apparatus for motion-. T. L. Peeney and H. Godoy. 1,618,417; Feb. 22.
- Picture-projecting machines, Safety device for motion-. W. Malm. 1,628,258; May 10.
- Picture projecting or peeping appliance, Moving. W. Forak. 1,639,792; Aug. 23.
- Picture projector, Motion-. E. C. Fritts. 1,638,569; Aug. 9.
- Picture projector, Motion-. F. T. O'Grady. 1,623,435; Apr. 5.
- Picture projectors, Color-changing attachment for motion-. J. M. Key and J. A. Hueber. 1,626,841; May 3.
- Picture projectors, Film attachment for motion-. W. J. Citron. 1,626,786; May 3.
- Picture projectors, Optical system for moving-. A. J. Holman. 1,617,596; Feb. 15.
- Picture projectors, Reflecting device for motion-. J. E. Holman. 1,650,479; Nov. 22.
- Picture projectors, Stereopticon for motion-. B. A. Caw-thon. 1,643,541; Sept. 27.
- Picture recorders, Ink supply for. R. H. Ranger. 1,635,977; July 12.
- Picture, Rectifying the scale and perspective of a. E. H. Corlett and M. W. Garnett. 1,654,070; Dec. 27.
- Picture screen, Motion-. E. H. Amet. 1,631,240; June 7.
- Picture screen, Motion-. W. Goldstein. 1,650,341; Nov. 22.
- Picture-transfer mechanism, Talking-. H. E. Chipman. Re16,580; Apr. 5.
- Picture transmission, Method of and apparatus for syn-chronization in. J. Herman. 1,626,731; May 3.
- Picture-transmitting system. H. Nyquist. 1,627,111; May 3.
- Pictures, Apparatus for displaying changeable. A. Archi-penko. 1,626,496; Apr. 26.
- Pictures, Apparatus for producing and projecting cinemat-ographic. A. Heurung. 1,631,866; June 7.
- Pictures, Apparatus for transmitting. T. T. Baker. 1,614,339; Jan. 11.
- Pictures and views, Method and apparatus for the trans-mission of. C. A. Hoxie. 1,648,687; Nov. 8.
- Pictures by electricity, Transmission of. H. D. Arnold. 1,647,765; Nov. 1.
- Pictures by electricity, Transmission of. J. W. Horton. 1,654,374; Dec. 27.
- Pictures by electricity, Transmission of. H. E. Ives. 1,631,963; June 14.
- Pictures by electricity, Transmission of. H. E. Ives. 1,648,127; Nov. 8.
- Pictures by electricity, Transmission of. D. C. Tanner. 1,613,970; Jan. 11.
- Pictures by the transfer process, Production of. R. Von Arn. 1,643,529; Sept. 27.
- Pictures, Exhibiting moving. T. K. Peters and T. C. Bartlam. 1,636,834; July 26.

- Pictures in broad daylight, Device for projecting stationary or moving. A. E. L. and R. J. Triana and J. Ortiz-Escotet. 1,624,816; Apr. 12.
- Pictures, Making composite color. J. A. Ball. 1,641,566; Sept. 6.
- Pictures, Making motion. J. F. Seitz. 1,616,237; Feb. 1.
- Pictures, Method and apparatus for making composite motion. E. Schufftan. 1,627,295; May 3.
- Pictures, Method and apparatus for producing colored motion. L. D. Mannes and L. Godowsky, jr. 1,619,949; Mar. 8.
- Pictures, Photomechanical reproduction of. H. E. Ives. 1,649,309; Nov. 15.
- Pictures, System for transmitting and reproducing. M. C. Hall. 1,627,701; May 10.
- Pictures, Transmitting. E. Belin. 1,635,027; July 5.
- Pictures with the illusion of relief, Apparatus for viewing. A. L. Hyde. 1,616,557; Feb. 8.
- Pi Lambda Phi fraternity pin. R. H. Rosenthal. Des. 73,868-9; Nov. 15.
- Pie conformer. C. C. Davis. 1,613,223; Jan. 4.
- Pie-cutting guide. M. C. Hughes. 1,629,164; May 17.
- Pie-filling compound. V. Potmaker. 1,631,287; June 7.
- Pie-making machine. D. W. Smith. 1,645,627; Oct. 18.
- Pie pan. M. T. Miles and G. B. Miles. 1,647,186; Nov. 1.
- Pie-plate scoop. W. H. De Camp. 1,621,355; Mar. 15.
- Pie-rolling machine. J. W. Deamead. 1,628,828; May 17.
- Pie, Baking. F. M. Wakeman. 1,626,316; Apr. 26.
- Pies, Making. W. J. Kaser. 1,624,490; Apr. 12.
- Piezoadjust. A. M. Nicolson. 1,636,921; July 26.
- Piezo-electric-crystal apparatus. A. Crossley. 1,619,854; Mar. 8.
- Piezo-electric device. A. L. R. Ellis. 1,617,995; Feb. 15.
- Pieze-breaking machine. J. P. Dovel. 1,622,029; Mar. 22.
- Pigment and making same. C. Dickens. 1,615,816; Jan. 25.
- Pigments and paints, Preparation of. J. Blumenfeld. 1,639,423; Aug. 16.
- Pile. E. Bignell. 1,619,053; Mar. 1.
- Pile. E. Bignell. 1,621,232; Mar. 15.
- Pile-elevating mechanism. C. E. Christophel. 1,617,374; Feb. 15.
- Pile fabric. J. Gowans. Des. 74,053; Dec. 13.
- Pile fabric. C. S. Hamilton. Des. 73,658; Oct. 18.
- Pile fabric. J. Leiper. Des. 72,675; May 17.
- Pile fabric. J. Leiper. Des. 73,663; Oct. 18.
- Pile fabric. J. F. Nichola. Des. 72,439-40; Apr. 12.
- Pile fabric, Making a. T. S. McDermott. 1,631,535; Dec. 6.
- Pile fabrics, Making. T. Bachofen. 1,644,319; Oct. 4.
- Pile fabrics, Production of knotted. F. H. Oldroyd. 1,636,613; July 19.
- Pile-head protector. W. W. Wannamaker, jr. 1,637,627; Aug. 2.
- Pile textile fabric. S. Freudenberg. 1,620,340; Mar. 8.
- Pile wire. N. H. Fairweather. 1,621,400; Mar. 15.
- Pile-wire cutter. M. B. Behrman. 1,616,344-8; Feb. 1.
- Pile-wire cutter. W. S. Gluck. 1,616,316; Feb. 1.
- Piling. Hay. E. C. Vance. 1,647,061; Oct. 25.
- Piling machine. G. L. Rice and L. E. Whitcomb. 1,653,311; Dec. 20.
- Piling machine. H. C. Riggs and C. C. Harris. 1,613,196; Jan. 4.
- Piling mechanism, Sheet-. W. F. Conklin, H. S. Hopkins, and J. M. Hoyer. 1,619,804; Mar. 8.
- Piling sheets of paper, Apparatus for. G. E. Maxner. Re 16,779; Nov. 1.
- Piles, Apparatus for removing. E. Bignell. 1,644,560; Oct. 4.
- Piles, Apparatus for treating. A. G. Howerton. 1,631,532; June 7.
- Piles or foundation elements, Construction of concrete. A. E. Neelands and G. Damry. 1,642,213; Sept. 13.
- Pill-forming box. J. L. Hood. 1,618,340; Feb. 22.
- Pillow cover or similar article. J. Derk. Des. 73,740; Nov. 1.
- Pillow cover or similar article. J. Derk. Des. 73,970; Nov. 29.
- Pillow, Sleeping. P. J. O'Leary. 1,617,822; Feb. 15.
- Pillow top. M. J. Aboarab. Des. 74,131; Dec. 27.
- Pillow top. J. Derk. Des. 72,992; July 5.
- Pilot-channel-indicating system. H. A. Affel. 1,642,710; Sept. 20.
- Pilot headlight. J. A. Thomas. 1,650,402; Nov. 22.
- Pilot light. J. A. Thomas. 1,613,064; Jan. 4.
- Pilot light. J. A. Thomas. 1,650,401; Nov. 22.
- Pilot-light control. E. A. Taber and A. G. Spinney. 1,616,706; Feb. 8.
- Pilot light, Oil. J. L. Breese, jr. 1,641,250; Sept. 6.
- Pin. See—
- Bonding pin. Hair pin.
- Bouquet pin. Lock pin.
- Bowling pin. Piston pin.
- Cotter pin. Safety pin.
- Coupling pin. Wrist pin.
- Pin. C. G. King. 1,645,649; Oct. 18.
- Pin. H. K. Sakowski. 1,626,303; Apr. 26.
- Pin. G. A. Waters. 1,632,386; June 14.
- Pin and clasp, Combination. L. O. Nichols. 1,640,205; Aug. 23.
- Pin fastener. E. Horton. 1,632,338; June 14.
- Pin fastener, Double-pointed-. P. E. Fenton. 1,641,075; Aug. 30.
- Pin for brake levers and rods, Safety. J. P. Blass. 1,651,316; Nov. 29.
- Pin gauge, Adjustable. P. D. Ritchey and R. A. Holt. 1,625,741; May 17.
- Pin holder. Safety-. A. Hagel. 1,636,558; July 19.
- Pin-locking means. L. J. Brown. 1,630,523; May 31.
- Pin-locking means. W. W. Swayze. 1,644,618; Oct. 4.
- Pin-setting machine. J. W. Bishop. 1,615,064; Jan. 18.
- Pin spotter. E. Hodenskoog. 1,612,867; Jan. 4.
- Pin stems, Clutch guard for. J. J. Hallahan. 1,617,330; Feb. 15.
- Pin stems, Safety catch for. E. Morehouse. Des. 73,536; Sept. 27.
- Pin trimmer, Automatic. C. Lorenz, E. Kunish, and D. E. Seitz. 1,616,909; Feb. 8.
- Pin with bayonet point, Safety. A. Dudas and A. P. Wasil. 1,623,533; Apr. 5.
- Pins from sweepings, Device for separating. C. Wildhaber. 1,630,366; May 31.
- Pins, Holder for laundry marking. B. P. Stoor. 1,619,893; Mar. 8.
- Pins to leaves, Machine for attaching. H. R. Schlueter and A. H. Hake. 1,659,553; Aug. 16.
- Pins with headplates, Device for making. G. Krain. 1,650,525; Nov. 22.
- Pince-nez and spectacles. P. and S. M. Kirk. 1,622,724; Mar. 9.
- Pineapple crowns for planting, Machine for preparing. F. Sato. 1,651,158; Nov. 29.
- Pine-seed separator. J. Jonsson and C. W. Dybeck. 1,646,885; Oct. 25.
- Pinion puller. J. L. Williamson. 1,631,664; June 7.
- Pintle hook, Automatic. C. G. Clement. 1,635,659; July 12.
- Pinwheel. J. Heberling. 1,639,943; Aug. 23.
- Pipe. See—
- Bubble pipe. Metal pipe.
- Cast pipe. Smoker's pipe.
- Concrete pipe. Smoking pipe.
- Double-wall conductor pipe. Suction pipe.
- Drill pipe. Tobacco pipe.
- Lined pipe. Tobacco-smoking pipe.
- Pipe. A. F. Bittner. 1,628,649; May 17.
- Pipe. E. T. Fitz-Gerald. 1,625,849; Apr. 26.
- Pipe. W. A. Homan. 1,627,605; May 10.
- Pipe. F. J. Lerch. 1,635,487; July 12.
- Pipe. W. J. Mattern. 1,627,797; May 10.
- Pipe. L. Raymond. Des. 73,443; Sept. 13.
- Pipe. Stern. Des. 74,079; Dec. 13.
- Pipe and apparatus therefor, Manufacturing centrifugal-cast cast-iron. A. Losey. 1,652,329; Dec. 13.
- Pipe and cigar holder for the purpose of eliminating the nicotine. H. Blidsoe. 1,633,240; June 21.
- Pipe and making same, Galvanized. O. C. Trout. 1,618,611; Feb. 22.
- Pipe and making the same, Water. B. Talbot. 1,644,360; Oct. 4.
- Pipe and nipple blanks, Method of and apparatus for manufacturing chamfered. J. A. Long. 1,618,541; Feb. 22.
- Pipe and nut wrench with ratchetlike control, Adjustable single-lever. A. J. Thurlay. 1,626,809; Apr. 26.
- Pipe and rod spider. B. F. Hiniker. 1,626,826; May 3.
- Pipe and sewer rods, Breaking head for. A. J. Coleman. 1,641,320; Sept. 6.
- Pipe and sewer rods, Hand grip for. A. J. Coleman. Des. 653,002; Dec. 13.
- Pipe and testing plug therefor. A. E. Stringer. 1,615,316; Jan. 25.
- Pipe and the like for smoking tobacco. L. A. Dravers. 1,652,564; Dec. 13.
- Pipe bench. M. J. Wirth. 1,613,495; Jan. 4.
- Pipe bends, Manufacture of. A. Schmidt. 1,617,277; Feb. 8.
- Pipe bender. R. W. Miller. 1,650,955; Nov. 29.
- Pipe-bowl cleaner. J. Riebe and A. Prämassing. 1,649,487; Nov. 15.
- Pipe-bowl reamer. A. M. Goldstein. 1,651,593; Dec. 6.
- Pipe cap, Breathe-. A. E. Wolter. 1,654,474; Dec. 27.
- Pipe carrier. W. F. Bossert. 1,631,000; May 31.
- Pipe chest, Sectional. H. P. Maus and D. M. Lamson. 1,645,608; Oct. 18.
- Pipe clamp. C. C. Gallery. 1,641,065; Aug. 30.
- Pipe clamp. M. E. Skinner. 1,618,234; Feb. 22.
- Pipe clamp. C. H. Wise. 1,616,019; Feb. 1.
- Pipe clamp and connection. W. Pringle. 1,612,833; Jan. 4.
- Pipe cleaner. J. Peterson. 1,614,571; Jan. 18.
- Pipe cleaner. T. S. Ramsdell. 1,617,457; Feb. 15.
- Pipe cleaner, Drain-. A. Locke. 1,644,436; Oct. 4.
- Pipe cleaner, Mechanical. W. H. Warman. 1,651,651; Dec. 6.
- Pipe cleaner, Tobacco-. J. W. Pitts. 1,639,200; Aug. 16.
- Pipe-cleaning apparatus. J. M. and W. H. Thompson. 1,612,842; Jan. 4.
- Pipe-cleaning means. H. M. Murphy. 1,624,755; Apr. 12.
- Pipe-cleaning machine. B. A. Hochtritt. 1,648,048; Nov. 8.
- Pipe-connecting device, Rotary. C. W. Daugha. 1,650,788; Nov. 29.
- Pipe connection. R. R. White. 1,627,219; May 3.
- Pipe connection, Flexible. J. Frumveller. 1,617,587; Feb. 15.

- Pipe connection, Flexible. E. H. Gold. 1,612,973; Jan. 4.
- Pipe connection, Flexible. E. H. Gold. 1,617,589; Feb. 15.
- Pipe connections, Housing for. A. Foltz. 1,629,693; May 24.
- Pipe connector, Automatic train-. A. A. Leclerc. 1,647,571; Nov. 1.
- Pipe coupling. A. Farnstrom. 1,628,132; May 10.
- Pipe coupling. S. Levitt. 1,637,701; Aug. 2.
- Pipe coupling. H. Stokesberry. 1,646,463; Oct. 25.
- Pipe coupling and making the same, Electrically-welded. R. Stressan and H. Woodhead. 1,637,313; July 26.
- Pipe coupling, Rotary. B. L. Howie. 1,653,708; Dec. 27.
- Pipe coupling, Temporary. D. J. McGeehin. 1,627,044; May 3.
- Pipe coupling, Valved. V. Bardin. 1,631,456; June 7.
- Pipe cutter or threader. J. V. Jardine. 1,641,928; Sept. 6.
- Pipe-cutting device. W. A. Geis. 1,623,833; Apr. 15.
- Pipe-cutting machine. H. Knothe. 1,617,814; Feb. 15.
- Pipe-cutting-off machine. F. M. Davis. 1,653,257; Dec. 20.
- Pipe device for unscrewing and withdrawing. C. R. Edwards. 1,627,842; May 10.
- Pipe-elevating clamp. M. B. Davis. 1,649,451; Nov. 15.
- Pipe-engaging slip, Flexible. T. W. Adair. 1,641,467; Sept. 6.
- Pipe fitting. D. Dileo. 1,647,036; Oct. 25.
- Pipe fitting, Vented waste-. C. F. Pressler. 1,627,928; May 10.
- Pipe fitting, Waste-. A. N. Pasman. 1,618,777; Feb. 22.
- Pipe float coupling, Well-drill-. R. C. Baker. 1,631,509; June 7.
- Pipe for smoking tobacco. C. F. Corbett. 1,630,832; May 31.
- Pipe for wells, Perforated. E. M. Smith. 1,643,394; Sept. 27.
- Pipe, Forming. G. C. Martin. 1,633,219; June 21.
- Pipe-gripping and supporting device. W. F. Traves. 1,642,832; Sept. 20.
- Pipe hanger. J. B. Scheer. 1,646,881; Oct. 25.
- Pipe hanger. J. P. Seyfert. 1,639,635; Aug. 16.
- Pipe hanger. C. C. Tomkinson. 1,642,131; Sept. 13.
- Pipe hanger. C. H. Voellmecke. 1,619,591; Mar. 1.
- Pipe hanger, Adjustable. L. R. Zifferer. 1,612,959; Apr. 4.
- Pipe head core, Centrifugal. W. D. Moore. 1,613,899; Jan. 11.
- Pipe insulation. C. R. Sablin. 1,613,725; Jan. 11.
- Pipe joint. G. C. Bartram. 1,613,434; Jan. 4.
- Pipe joint. E. Fejes. 1,647,217; Nov. 1.
- Pipe joint. E. E. Gold. 1,651,522; Dec. 6.
- Pipe joint. J. R. McWane. 1,648,494; Nov. 8.
- Pipe joint. A. G. Perkins. 1,621,950; Mar. 22.
- Pipe joint. C. Pleasant and E. R. Tibbets. 1,618,472; Feb. 22.
- Pipe joint. F. H. Sherrerd. 1,615,239; Jan. 25.
- Pipe joint. G. Weiss and F. Gentzke. 1,642,981; Sept. 20.
- Pipe joint and connection. H. D. Cook and H. Lundgren. 1,622,768; Mar. 29.
- Pipe-joint filling spout. L. E. Kollock. 1,623,053; Apr. 5.
- Pipe joint, Flexible. E. N. Roth. 1,649,616; Nov. 15.
- Pipe joint, Flexible. E. A. Russell. 1,619,218; Mar. 1.
- Pipe joint, Rotary-. F. C. Vandergrift. 1,638,224; Aug. 9.
- Pipe joint, Rotatable. L. N. Webster. 1,645,838; Oct. 18.
- Pipe joint, Swivel. G. Gronner. 1,625,536; Apr. 19.
- Pipe-joint union. H. Del Mar. 1,615,536; Jan. 25.
- Pipe-jointing apparatus. W. C. Ferguson. 1,615,008; Jan. 18.
- Pipe-laying implement. A. E. Rasmussen. 1,636,243; July 19.
- Pipe-line-cleaning device. J. M. and W. H. Thompson. 1,631,562; June 7.
- Pipe-line system. G. D. Pogue. 1,621,683; Mar. 22.
- Pipe-line system, Oil-. G. D. Pogue. 1,621,221; Mar. 15.
- Pipe lines, Cleaning-out. C. A. Burnett. 1,628,580; May 10.
- Pipe lines, Cradle for hydraulic. E. Schaub. 1,646,423; Oct. 25.
- Pipe lines, Device for cleaning. B. Gerber. 1,624,786; Apr. 12.
- Pipe-making machine. G. C. Martin. 1,629,822; May 24.
- Pipe mechanism, Swing. S. H. Brooks. 1,626,782; May 5.
- Pipe-molding machine. S. M. Udale. 1,618,245; Feb. 22.
- Pipe openings and producing the same, Liner for. L. C. Gnagi. 1,651,269; Nov. 29.
- Pipe or casing and preventing seepage and leakage in wells, Method of and apparatus for setting. G. A. Dyer. 1,641,039; Aug. 30.
- Pipe or culvert, Corrugated. W. H. Hall. 1,623,112; Apr. 5.
- Pipe-perforating machine. B. C. Travis. 1,635,590; July 12.
- Pipe perforator. A. L. Fondren. 1,615,690; Jan. 25.
- Pipe press, Hydraulic sewer-. T. A. Hibbins. 1,651,203; Nov. 29.
- Pipe presses, Rotary knife for hydraulic or steam sewer-. T. A. Hibbins. 1,651,205; Nov. 29.
- Pipe protector. H. J. Ferris. 1,624,485; Apr. 12.
- Pipe rip and cut-off. J. Goff. 1,629,696; May 24.
- Pipe saddle. D. U. Powell. 1,616,390; Feb. 1.
- Pipe scraper. D. J. McGeehin. 1,627,045; May 3.
- Pipe-sealing device. W. J. Pendry. 1,627,995; May 10.
- Pipe sections of different materials, Connection between well-. E. A. Johnson. 1,613,461; Jan. 4.
- Pipe-securing means. O. J. Parks. 1,649,542; Nov. 15.
- Pipe skelp, Method of and apparatus for forming. H. D. Cook. 1,650,607; Nov. 29.
- Pipe sleeve. G. Stone. 1,649,752; Nov. 15.
- Pipe sleeve, Antiriftion. G. E. Pentress. 1,651,088; Nov. 29.
- Pipe slip. W. D. Davidson. 1,630,732; May 31.
- Pipe stem. G. M. Bacon. 1,615,618; Jan. 25.
- Pipe stopper. J. W. MacClatchie. 1,618,978; Feb. 8.
- Pipe straightener. J. B. Gocke and C. E. De Corse. 1,623,405; Apr. 5.
- Pipe support. W. T. McLaughlin. 1,617,259; Feb. 8.
- Pipe support. M. Rachlin. Dec. 73,198; Aug. 2.
- Pipe-supporting clamp. E. C. Wilson. 1,643,688; Sept. 27.
- Pipe-testing machine. J. S. Beall. 1,647,121; Nov. 1.
- Pipe-thread protector. B. Brownstein. 1,642,330; Sept. 13.
- Pipe-thread protector. H. A. Unke. 1,621,647; Mar. 22.
- Pipe threader. H. A. Unke. 1,648,973; Nov. 15.
- Pipe threader and chaser, Internal. H. K. Hyrup. 1,614,197; Jan. 11.
- Pipe-threading die. H. W. Smith. 1,625,830; Apr. 26.
- Pipe-threading die. T. Kelackey. 1,645,535; Oct. 18.
- Pipe-threading machine. B. Borden. 1,616,649; Feb. 8.
- Pipe-threading machine. B. Borden. 1,622,411; Mar. 29.
- Pipe-threading machine. L. S. Hall. 1,638,030; Aug. 9.
- Pipe-threading mechanism. H. D. Pennington. 1,626,251; Apr. 26.
- Pipe threads, Machine for cutting. I. W. Nonneman. 1,616,542; Feb. 8.
- Pipe vise. E. W. Bacon. 1,617,364; Feb. 15.
- Pipe vise. J. E. Kenerson. 1,624,252; Apr. 12.
- Pipe vise. T. E. Stephenson. 1,644,755; Oct. 11.
- Pipe-welding method and apparatus, Electric. I. J. Van Buren. 1,648,921; Nov. 15.
- Pipe-welding plant. J. H. Bennett. 1,640,220; Aug. 23.
- Pipe-wrapping machine. C. S. Evans. 1,622,427; Mar. 29.
- Pipe-wrapping machine. D. Finley. 1,622,432; Mar. 29.
- Pipe wrench. O. H. Adams. 1,623,770; Apr. 5.
- Pipe wrench. W. L. Bessolo. 1,651,575; Dec. 6.
- Pipe wrench. H. G. Butt. 1,644,153; Sept. 6.
- Pipe wrench. J. E. Conway. 1,639,883; Aug. 23.
- Pipe wrench. F. Cox. 1,626,453; Apr. 26.
- Pipe wrench. M. W. Crow. 1,640,265; Aug. 23.
- Pipe wrench. B. Donnellson. 1,641,025; Aug. 20.
- Pipe wrench. C. F. Dow. 1,619,804; Mar. 1.
- Pipe wrench. J. P. Fisher. 1,617,150; Feb. 8.
- Pipe wrench. H. W. Fletcher. 1,641,260; Sept. 6.
- Pipe wrench. W. Gordon. 1,618,820; Feb. 22.
- Pipe wrench. H. Goulas. 1,620,016; Mar. 8.
- Pipe wrench. C. J. Harris. 1,644,522; Oct. 4.
- Pipe wrench. S. M. Kathcart. 1,648,484; Nov. 8.
- Pipe wrench. T. E. Stephenson. 1,620,170; Mar. 8.
- Pipe wrench. G. W. Thompson. 1,626,985; May 3.
- Pipes, and especially devices for applying the concrete, Production of concrete. A. Horten. 1,625,123; Apr. 19.
- Pipes, and facing plates, Sinking. W. T. McCarthy. 1,647,239; Nov. 1.
- Pipes and hollow bodies with bituminous compositions, Coating concrete. R. Illemann. 1,636,367; July 19.
- Pipes and like hollow articles, Molding of. M. Levy. 1,622,325; Mar. 29.
- Pipes and other articles, Cleaning device for tobacco. C. H. Fitz Gerald and G. H. Hutchins. 1,644,574; Oct. 4.
- Pipes and the like, Construction of. O. G. Luyties. 1,643,021; Sept. 20.
- Pipes and the like from metal sheets or plates, Apparatus for the manufacture of. W. R. Hume. 1,645,239; Oct. 11.
- Pipes and the like, Producing and maintaining a sanitary condition in milk. A. W. Peacock. 1,649,466; Nov. 1.
- Pipes, Apparatus for forming concrete. A. Horten. 1,623,539; Apr. 5.
- Pipes, Apparatus for joining or connecting. J. Kurkowski. 1,627,288; May 3.
- Pipes, Closure plug for. P. Jackson. 1,620,728; Mar. 15.
- Pipes, Coating cement. E. Ligonnet. 1,613,540; Feb. 22.
- Pipes, columns and the like, Manufacture, centrifugally, of. C. M. Ure. 1,622,012; Mar. 22.
- Pipes, Composition for opening stopped. H. J. Haber. 1,618,376; Feb. 22.
- Pipes, Coupling for. L. K. Snell. 1,620,924; Mar. 15.
- Pipes, Device for cleaning. L. R. Titcomb and H. S. Ashmun. 1,647,759; Nov. 1.
- Pipes, Device for measuring length of. G. W. Hall. 1,622,908; Mar. 29.
- Pipes, Device for testing. A. Zore. 1,613,150; Jan. 4.
- Pipes, Emergency repair for. G. H. Mullinack. 1,638,269; Aug. 9.
- Pipes, Guard for heater. W. S. Pritchard. 1,650,804; Nov. 29.
- Pipes in connector heads, Terminal sleeve for train. E. A. Robinson. 1,640,807; Aug. 30.
- Pipes, Installing ground. J. M. Humiston. 1,639,731; Aug. 23.

- Pipes, Insulating section for. M. V. Croker. 1,630,657; May 31.
- Pipes, Machine for shaping. J. H. Taylor. 1,634,057; June 28.
- Pipes, Manufacture of tobacco. C. F. Smith. 1,628,617; May 10.
- Pipes, Method of and apparatus for manufacturing concrete. A. Horten. 1,654,462; Dec. 27.
- Pipes or casings, Tool for opening collapsed. D. G. Lorraine. 1,615,306; Jan. 25.
- Pipes, Plate thimble for. J. W. Farley. 1,627,961; May 10.
- Pipes, Plate thimble for. J. W. Farley. 1,651,261; Nov. 29.
- Pipes, rods, etc., Mechanism for threading. J. A. Katzenmeyer. 1,613,395; Jan. 4.
- Pipes, Seasoning and maturing bruyere-wood tobacco. C. J. A. Coulshaw. 1,632,349; Dec. 13.
- Pipes, Support for heat-conveying. H. J. Lobbiller. 1,645,724; Oct. 18.
- Pipes, Tamping device for tobacco. C. Goetz. 1,648,454; Nov. 8.
- Pipes, Tobacco burner for. E. Biber. 1,641,956; Sept. 13.
- Pipes, Trap for conductor. F. A. Traut. 1,641,938; 6.
- Pipes, tubes, and the like, and method of and apparatus for making the same. L. Billé. Re16,523; Jan. 4.
- Pipes, tunnels, bridges, and other bodies or structures, Contractible and expansible supporting means suitable for use in the construction of. H. Bertridge. 1,624,712; Apr. 12.
- Pipes, Valve construction for liquid-dispensing. W. Goddu. 1,652,142; Dec. 6.
- Pipes, Vent cap for soil. J. Comerford. 1,623,659; Apr. 5.
- Pipes, Wrought-metal connection for threaded. J. Clark. 1,638,068; Aug. 25.
- Pipette, M. Gervais and W. Biron. 1,634,183; June 28.
- Pistol, Automatic. E. Philippart. 1,638,783; Aug. 9.
- Pistol, Illuminated. J. L. Selden and L. Amato. 1,615,409; Jan. 25.
- Pistols, Magazine safety device for automatic. G. H. Tansley. 1,638,068; Aug. 25.
- Piston. G. C. Austin. 1,622,328; Apr. 5.
- Piston. G. H. Brawner. 1,618,805; Feb. 22.
- Piston. D. W. Candler. 1,653,253; Dec. 20.
- Piston. A. G. Dunbar. 1,637,987; Aug. 2.
- Piston. G. S. Evans. 1,634,024; June 28.
- Piston. P. M. Freer. 1,622,579; Mar. 29.
- Piston. F. P. Gill, Jr. 1,646,993; Oct. 25.
- Piston. E. J. Hall. 1,625,119-20; Apr. 19.
- Piston. P. D. Hartog. 1,618,658; Feb. 22.
- Piston. T. A. Huttsell. 1,625,943; Apr. 26.
- Piston. J. D. Lannon and R. R. Todd. 1,634,151; June 28.
- Piston. E. C. Long. 1,631,952; June 7.
- Piston. L. M. Manley. 1,614,799; Jan. 18.
- Piston. K. N. Matthews. 1,618,600-1; Feb. 22.
- Piston. H. H. Meyer. 1,627,400; May 3.
- Piston. W. W. Muir. 1,634,037; June 28.
- Piston. J. F. Norton. 1,637,273; July 26.
- Piston. A. A. Fribil. 1,646,871; Oct. 25.
- Piston. G. W. Robinson. 1,645,256; Oct. 11.
- Piston. C. Sorenson. 1,631,073; May 31.
- Piston. L. Vingheroets. 1,649,003; Nov. 15.
- Piston. C. L. Walker. 1,652,385; Dec. 13.
- Piston. G. D. Welty. 1,638,899; Aug. 16.
- Piston. C. S. Worth. 1,628,097; May 10.
- Piston-aligning machine for connecting rod assemblies. W. Aab. 1,643,359; Sept. 27.
- Piston and connecting-rod construction. C. A. Comstock. 1,637,765; Aug. 2.
- Piston and connecting rod mountings, Joint for. V. J. O'Brien. 1,639,102; Aug. 16.
- Piston and piston-pin construction. H. W. Pierce. 1,623,972; Apr. 12.
- Piston assembly. W. Prelwitz. 1,636,614; July 19.
- Piston assembly, Apparatus for. H. M. Brown. 1,654,110; Dec. 27.
- Piston, Compressor. G. F. Knox. 1,616,128; Feb. 1.
- Piston construction. C. A. Carlson. 1,628,652; May 17.
- Piston-cooling device. O. E. Jorgensen. 1,619,613; Mar. 1.
- Piston, Engine. J. H. Burpee and D. E. Lalin. 1,623,717; Apr. 6.
- Piston, Expansion. G. W. Booksh. 1,629,988; May 24.
- Piston having an adjustable head for facilitating the removal of the piston rings. J. P. Willis. 1,636,542; July 19.
- Piston head. D. L. Martyn. 1,652,033; Dec. 6.
- Piston. Internal combustion-engine. O. E. Jorgensen. 1,615,459; Jan. 25.
- Piston packing. C. L. Cook. 1,624,159; Apr. 12.
- Piston packing. C. L. Cook. 1,634,018; June 28.
- Piston packing. J. F. Panyard. 1,626,749-50; May 3.
- Piston packing. J. F. Panyard. 1,644,944; Oct. 11.
- Piston packing. J. F. Panyard. 1,646,978; Oct. 25.
- Piston packing capable of resisting to a high temperature. R. Esmaeil-Feirie. 1,616,310; Feb. 1.
- Piston packing. Machine for reclaiming. J. C. Kelly. 1,646,915; Oct. 25.
- Piston-packing-removing appliance. M. S. Davenport. 1,635,743; July 12.
- Piston packing ring. C. C. Farmer. 1,641,072; Aug. 30.
- Piston pin. C. H. Snyder. 1,637,247; July 26.
- Piston ring. E. N. Broderick. 1,635,530; July 12.
- Piston ring. E. Brown. 1,640,109; Aug. 23.
- Piston ring. J. B. Day. 1,614,602; Jan. 18.
- Piston ring. E. F. Dickleson, Jr. 1,618,520; Feb. 22.
- Piston ring. M. Forster. 1,646,143; Oct. 18.
- Piston ring. E. Grover. 1,635,407; July 12.
- Piston ring. C. F. Johnston and G. G. Rees. 1,649,474; Nov. 15.
- Piston ring. L. Kinsley and J. W. S. Moss. 1,645,146; Oct. 11.
- Piston ring. C. H. Lemery. 1,651,721; Dec. 6.
- Piston ring. M. M. Moratta. 1,627,107; May 3.
- Piston ring. J. A. Olson. 1,636,012; July 19.
- Piston ring. E. H. Packer. 1,624,279; Apr. 12.
- Piston ring. J. F. Panyard. 1,636,833; July 26.
- Piston ring. C. G. Platt. 1,643,628; Sept. 27.
- Piston ring. C. L. Post. 1,613,410; Jan. 4.
- Piston ring. D. M. Solenberger. 1,651,163; Nov. 29.
- Piston ring. D. C. Teetor. 1,623,710; Apr. 5.
- Piston ring. E. H. Walter. 1,636,027; July 19.
- Piston ring. E. G. Young. 1,617,229; Feb. 8.
- Piston-ring applicator. S. M. McKee. 1,635,722; July 12.
- Piston-ring castings, Mechanism for slotting. C. N. Tator. 1,651,980; Dec. 6.
- Piston-ring compressor. J. L. Flori. 1,639,690; Aug. 23.
- Piston-ring compressor. F. L. Moore. 1,615,768; Jan. 25.
- Piston-ring-contracting tool. J. L. Oliver. 1,621,681; Mar. 22.
- Piston-ring contractor. M. Jelbert, jr. 1,625,258; Apr. 19.
- Piston-ring groove. H. Stoll. 1,619,993; Mar. 8.
- Piston-ring grooves, Device for operating on. W. L. Slack. 1,650,160; Nov. 22.
- Piston-ring remover. W. N. Hooks. 1,616,621; Feb. 8.
- Piston ring remover and applicator. E. G. Maki. 1,651,462; Dec. 6.
- Piston-ring tool. J. P. McCarthy. 1,623,799; Apr. 5.
- Piston rings and the like, Apparatus for grooving. G. H. Higgins. 1,649,695; Nov. 15.
- Piston rings, Apparatus for electrically forming spiral. H. S. Graves. 1,619,296; Mar. 1.
- Piston rings, Flexible closing fixture for. C. E. Johnson. 1,644,885; Oct. 11.
- Piston rings for finishing, Assembling. M. F. Cornejo. 1,619,240; Mar. 1.
- Piston rings, Making. R. A. Booker. 1,621,578; Mar. 22.
- Piston rings, Method and apparatus for testing. H. S. Graves. 1,637,482; Aug. 2.
- Piston rings, Method, apparatus, and blank for making. W. L. Loy. 1,618,665; Feb. 22.
- Piston rings, Resilient equalizing support for. J. F. Norton. 1,647,304; Nov. 1.
- Piston, Slush-pump. H. B. Moore. 1,646,927; Oct. 25.
- Piston, Tie-tamper. W. F. Zimmermann. 1,653,080; Dec. 20.
- Piston valve for the control of fluids. R. E. Mitton. 1,638,405; Aug. 9.
- Piston-valve oiler. W. M. Miller. 1,650,291; Nov. 22.
- Piston, Valved. V. J. Waters. 1,620,416; Mar. 8.
- Piston, wrist pin, and connecting-rod aligning jig. H. A. Erickson. 1,630,470; May 31.
- Piston and connecting rods, Connection for. A. C. Webster. 1,632,049; June 14.
- Pistons and piston valves, Packing device for use with. T. Smits. 1,622,888; Mar. 29.
- Pistons and the like, Suspension of. R. G. Standerwick. 1,652,879; Dec. 13.
- Pistons, Balancing. C. W. Van Ranst. 1,629,445; May 17.
- Pistons, Balancing single-acting. W. Mauss. 1,627,658; May 10.
- Pistons, Centering device for. K. F. McJilton. 1,636,918; July 26.
- Pistons, Mold for casting. C. H. Kirby. 1,619,135; Mar. 1.
- Pistons, Self-adjusting packing for. L. C. Harrod. 1,642,407; Apr. 5.
- Pit and grease rack, Drain. C. D. Fagan. 1,654,073; Dec. 27.
- Pit from and bisecting single-stone fruit, Removing the. A. L. Duncan. 1,653,552; Dec. 20.
- Pit tub, wagon, and the like. A. Weddell and W. T. Tolhurst. 1,624,700; Apr. 12.
- Pitch and other unsaponified organic matter of mineral origin, Obtaining stable aqueous emulsions of. F. C. Thornley, F. F. Tapping, and O. Reynard. 1,653,026; Dec. 20.
- Pitch, Coking. R. P. Peary. 1,650,127; Nov. 22.
- Pitcher. G. R. Abrendts. Dec. 73,222; Aug. 9.
- Pitcher. G. S. Brush. Dec. 74,136; Dec. 27.
- Pitcher, Cream. A. C. Scuvillo. Dec. 72,498; Apr. 19.
- Pitcher for sterilized water. M. L. Slocumb. 1,640,733; Aug. 30.
- Pitches, Preparing. F. M. Rogers and O. E. Bransky. 1,613,723; Jan. 11.
- Pitman. A. Wiklund. 1,646,435; Oct. 25.
- Pitman boxing. H. L. Hunt. 1,637,904; Aug. 2.
- Pitman boxing. H. L. and L. A. Hunt. 1,632,480; Jan. 14.
- Pitman connection. J. Sturrock. 1,646,464; Oct. 25.
- Pitman end. B. H. Davis. 1,641,533; Sept. 6.
- Pitman for mowers, binders, and the like, Adjustable. A. Wirth. 1,618,320; Feb. 22.

- Pitman, Self-lubricating. T. M. Finley and A. W. Brown. 1,621,976; Mar. 22.
 Pitman structure. E. R. Bloss. 1,640,948; Oct. 25.
 Pitot-static tube. C. H. Colvin. 1,620,638; Mar. 15.
 Pitot tube. H. W. Broady and G. G. H. Rydberg. 1,644,815; Oct. 11.
 Pitter, Combination peach. A. V. Sullivan. 1,629,131; May 17.
 Pitter, Peach. L. K. Vaughan. 1,646,564; Oct. 25.
 Pivot joint. D. D. Vann. 1,647,821; Nov. 1.
 Pivotal connection. H. C. Harris. 1,624,239; Apr. 12.
 Pivotal mounting for use in instruments of precision. F. C. Holtz. 1,652,202; Dec. 13.
 Pivoted closure-operating means and circuit closer. J. E. Vaughn. 1,639,551; Aug. 16.
 Placard. H. V. Marsh. 1,653,188; Dec. 20.
 Placard device. W. A. Frye and F. Heady. 1,625,309; Apr. 19.
 Placer-deposit washer and method of washing. H. N. Tracy. 1,621,694; Mar. 22.
 Placer machine. A. C. Dennis. 1,640,565; Aug. 30.
 Plait press, Conveyor. J. C. Ledbetter. 1,630,392; May 31.
 Plaiting machine. E. F. Federhart. 1,617,018; Feb. 8.
 Plaine. J. J. Ritter. 1,642,044; Sept. 13.
 Plane. E. A. Schade. 1,643,524; Sept. 27.
 Plane. T. T. Tyedt. 1,623,444; Apr. 5.
 Plane, Bench. J. Szako. 1,645,781; Oct. 18.
 Plane, Carpenter's. E. A. Schade. 1,651,634; Dec. 6.
 Planer. J. Kandra. 1,620,895; Mar. 15.
 Planer cross rails and side heads, Adjusting means for. C. L. Hicards. 1,618,308; Feb. 22.
 Planer, Edge. J. E. Ahlvin. 1,639,420; Aug. 16.
 Planer, Frog and switch. N. Marculus. 1,619,355; Mar. 1.
 Planer, Motor-driven. H. N. and W. R. Buss. 1,651,013; Nov. 28.
 Planer, Portable rotary. J. Fekete. 1,641,793; Jan. 18.
 Planers and similar tools, Tool holder for. F. E. Cardullo. 1,643,873; Sept. 27.
 Planers, Guard for buzz. J. B. Watson. 1,618,120; Feb. 15.
 Planers, Safety locking device for the shifting mechanism of metal. C. E. Linden and G. H. Langen. 1,622,169; Mar. 22.
 Planing machine, Shingle. C. J. Mciby. 1,634,789; July 5.
 Planing machines and the like, Guard for. A. J. Retz. 1,630,671; May 31.
 Planing machines, Sectional chip breaker for. C. G. Wilderson. 1,619,008; Mar. 1.
 Planing machines, Sectional feed roll for. C. G. Wilderson. 1,619,009; Mar. 1.
 Planing or scarfing mechanism. F. M. Hargrave. 1,634,144; June 26.
 Planing tool. C. G. Krook. 1,628,791; May 17.
 Planimeter. W. C. Brown and L. K. Spink. 1,650,490; Nov. 22.
 Planimeter, Radial averaging. A. B. Cunningham. 1,638,984; Aug. 16.
 Plans, Charts, maps, and the like, Device for graphically indicating information on. J. H. A. Morichard. 1,628,677; May 17.
 Plant-controlling system. H. B. Halvorsen. 1,649,898; Nov. 22.
 Plant-dusting attachment. K. Huebner. 1,629,872; May 24.
 Plant for bleaching and like purposes. C. B. Thorne. 1,634,388; July 5.
 Plant material, Treating. F. K. Fish, Jr. 1,633,731; June 28.
 Plant protector. C. M. Armstrong. 1,654,446; Dec. 27.
 Plant protector. E. F. Lewis. 1,615,589; Jan. 25.
 Plant protector. J. D. Walker. 1,616,290; Feb. 1.
 Plant protector. T. Wilson. 1,635,449; July 12.
 Plant protector. C. H. Woodruff. 1,641,244; Sept. 6.
 Plant-setting machine. G. A. Shaw. 1,638,368; Aug. 9.
 Plant stand. J. H. Viewegh. 1,639,318; Aug. 16.
 Plant support. O. A. Müller. 1,639,781; Aug. 23.
 Plant-treating device. E. O. Farwell. 1,614,355; Jan. 11.
 Planter. E. Arnold. 1,637,980; Aug. 27.
 Planter. C. A. Dempewolf. 1,627,017; May 3.
 Planter. B. H. Fuquay. 1,618,329; Feb. 22.
 Planter. J. M. Steward. 1,613,542; Jan. 4.
 Planter and fertilizer-distributing device. G. Marisdale. 1,620,907; May 5.
 Planter attachment. H. T. Maze and L. Bever. 1,643,414; Sept. 27.
 Planter attachment, Checkrow. J. P. Boddiger. 1,637,212; July 26.
 Planter, Checkrow. R. and R. Dhume. 1,635,359; July 12.
 Planter, Checkrow. J. C. Reuse. 1,626,012; Apr. 26.
 Planter, Checkrow corn. J. W. Gross. 1,652,714; Dec. 13.
 Planter, Corn-. C. James. 1,640,238; Aug. 23.
 Planter, Corn-. G. M. Yackley. 1,627,537; May 3.
 Planter, Cotton. G. J. Denn. 1,651,327; Nov. 29.
 Planter, Seed. R. N. Oliver. 1,644,692; Oct. 4.
 Planter, Seed. M. V. Oliver. 1,637,834; Aug. 2.
 Planter with one wheel support, Corn. J. M. Broz. 1,626,594; May 3.
 Planters, Attachment for cotton. J. S. Townsend and W. B. Camp. 1,635,866; July 12.
 Planters, Drill and check control for. H. R. Traphagen. 1,616,933; Feb. 8.
 Planters, Marking mechanism for. E. N. Richardson. 1,635,435; July 12.
 Planters or the like, Stub-shoe attachment for runners of corn. F. D. Haberman. 1,619,670; Mar. 1.
 Planters, Seed cup for. E. M. Cole. 1,634,411; Dec. 27.
 Planting machine. F. Bonchina. 1,627,143; May 3.
 Planting machine, Contour cane. W. Kassebeer. 1,618,958; Feb. 22.
 Plants and fruits, Method to increase the crops of. A. Wendler. 1,636,931; July 26.
 Plants, Enhancing the growth of. C. F. Eckart. 1,636,242; Dec. 27.
 Plants, Developing and transplanting. W. O. Roy. 1,634,727; July 5.
 Plants, Dusting powder adherent to. R. Lieske, A. Thausse, and W. Bonrath. 1,616,323; Feb. 1.
 Plants, Scutching fibrous. J. A. McLeod. 1,627,919; Mar. 10.
 Plants, Starting and transplanting. J. W. Conrad. 1,636,625; July 19.
 Plaque. H. M. Kofsky and H. E. Gimbel. Des. 73,788-97; Nov. 8.
 Plaque and making same, Concrete. I. M. Washington. 1,639,404; Sept. 3.
 Plaster and mortar, Apparatus for making. A. E. Tuttle. 1,613,682; Jan. 11.
 Plaster board. S. C. Clark. 1,642,840; Sept. 20.
 Plaster board. H. E. Hanson. 1,651,951; Dec. 6.
 Plaster board. O. L. Rountt. 1,646,558; Oct. 25.
 Plaster board. A. S. Speer. 1,641,649; Sept. 6.
 Plaster board. J. Strand. 1,640,736; Aug. 30.
 Plaster-board-fastening means. J. S. Raynor. 1,640,468; Aug. 30.
 Plaster-board-fastening means. J. S. Raynor. 1,641,903; Aug. 30.
 Plaster board, Making. O. L. Rountt. 1,646,597; Oct. 25.
 Plaster board, Method and apparatus for constructing. C. R. Birdsey. 1,643,801; Sept. 27.
 Plaster block and partition construction formed thereof. F. M. Venzle. 1,632,323; June 14.
 Plaster blocks, Reinforcement for. T. H. Geraerds. 1,613,387; Jan. 4.
 Plaster, Cellular. H. E. Brookby and G. D. King. 1,620,067; Mar. 8.
 Plaster cleaner. E. Golden. 1,645,479; Oct. 11.
 Plaster composition. A. C. Williamson. 1,620,587; Mar. 10.
 Plaster material, Manufacture of. O. Gerlach. 1,634,459; July 5.
 Plaster, Method of and product for making. G. B. Wood. 1,635,391; July 12.
 Plaster. N. Essick. 1,630,789; May 31.
 Plaster-mixing device. N. Essick. 1,630,790; May 31.
 Plaster-receiving board. H. A. Cumfer. 1,653,037; Dec. 20.
 Plaster reviver. C. W. Young. 1,613,689; Jan. 11.
 Plaster terminal. I. A. Baum. 1,618,695; Feb. 22.
 Plaster wall board. C. R. Birdsey. 1,650,930; Nov. 29.
 Plaster walls, Lathing structure for. J. F. Makowski. 1,616,831; Dec. 27.
 Plasterer's float. R. W. Rowley. 1,627,410; May 3.
 Plastering ceilings, walls, and the like, Apparatus for. E. L. and L. Caley. 1,652,089; Dec. 6.
 Plastering machine. J. Lofholm. 1,633,373; July 12.
 Plastic and making same. L. Lilienfeld. 1,625,416; Apr. 19.
 Plastic articles, Forming. L. W. Hottel. 1,652,940; Dec. 13.
 Plastic articles, Method and apparatus for producing. R. V. Mattison. 1,623,631; Apr. 5.
 Plastic articles, Press for forming. L. W. Hottel. 1,652,991; Dec. 13.
 Plastic-block-forming machine. C. K. Smith. 1,636,253; July 19.
 Plastic blocks, Apparatus for molding. A. Martindale. 1,637,495; Aug. 2.
 Plastic blocks from one conveyer to another, Mechanism for transferring. H. R. Straight. 1,615,965; Feb. 1.
 Plastic building members, Apparatus for making. C. R. Birdsey. 1,615,815; Jan. 25.
 Plastic composition. W. C. Morgan. 1,626,859; May 3.
 Plastic composition. C. S. Reeve. 1,643,520-1; Sept. 27.
 Plastic composition product and producing articles of manufacture. J. Slosser. 1,627,296; May 3.
 Plastic composition, Radioactive adhesive. N. M. Jones. 1,645,599; Oct. 18.
 Plastic composition structural parts and means for uniting the same, Precast. L. C. Krummel. 1,619,737; Mar. 1.
 Plastic compositions and products obtained thereby, Manufacture of. I. Ostromislensky. 1,613,673; Jan. 11.
 Plastic floor and bearing therefor. J. S. Miller, Jr. 1,640,796; Aug. 30.
 Plastic glass, Method of and apparatus for conveying. V. Mulholland. 1,638,593; Aug. 9.
 Plastic material. A. R. Kemp. 1,638,535; Aug. 9.
 Plastic material and making the same, Article made from. R. T. Griffiths. 1,613,993; Jan. 11.
 Plastic material and making the same, Covering of. R. W. Page. 1,622,969; Mar. 29.
 Plastic material, Apparatus for forming and cutting. J. R. Gammeter. 1,628,836; May 17.

- Plastic material, Die-molding apparatus for making articles of. E. De Journo. 1,639,081; Aug. 16.
- Plastic material into separate tablets of uniform size, Apparatus for dividing. F. Grover. 1,620,546; Mar. 8.
- Plastic material, measuring device for. C. N. Bergmann and E. Z. and C. Taylor. 1,632,165; June 14.
- Plastic material, Method of and apparatus for forming articles of. J. M. Lambie and D. W. Ross. 1,614,526; Jan. 18.
- Plastic material, Method of and apparatus for severing. J. A. Milliken. 1,617,861; Feb. 15.
- Plastic material, Method of and mechanism for perforating. A. H. Tyson. 1,625,342; May 10.
- Plastic-material mold. E. F. Olsen. 1,618,466; Feb. 22.
- Plastic material, Shaping. K. Stoll and E. C. Meyer. 1,647,756; Nov. 1.
- Plastic materials and to apparatus therefor, Manufacture of. F. T. Small and W. A. Dickie. 1,637,715; Aug. 2.
- Plastic materials, Apparatus for forming. A. O. Austin and D. K. Macleod. 1,625,514; Apr. 10.
- Plastic materials, Continually-working machine for molding and marking by compression. V. Liédo. 1,646,412; Oct. 25.
- Plastic materials, Milling. F. F. Sutherland. 1,614,999; Jan. 18.
- Plastic materials, Mold for. W. Hinton. 1,633,328; June 21.
- Plastic materials, Mold for. C. E. Wright. 1,648,038; Nov. 8.
- Plastic materials, Press for forming. F. C. H. Müller. 1,640,514; Aug. 30.
- Plastic materials, Sanitary dispenser for. J. F. C. Lohan. 1,613,761; Jan. 11.
- Plastic Portland cement and composition and making the same, Waterproof. H. V. Welch. 1,644,965; Oct. 11.
- Plastic process. G. B. Bergen, sr. 1,638,821; Aug. 16.
- Plastic sheet or slab. N. E. Newman. 1,628,681; May 17.
- Plastic stock, Method and apparatus for preparing. C. W. Legullon. 1,619,079; Mar. 1.
- Plastic substances, Dispensing container for. W. H. G. Geake. 1,631,931; June 7.
- Plastics, Stabilization of. C. E. Burke. 1,626,916; May 3.
- Plate. E. M. Bottomo. Des. 72,816; June 14.
- Plate. O. W. Dennis. Des. 72,763; May 31.
- Plate. E. L. Schnepf. Des. 72,578; May 3.
- Plate. E. L. Schnepf. Des. 72,726; May 24.
- Plate. E. L. Schnepf. Des. 73,104; July 19.
- Plate. F. H. Sebring, jr. Des. 73,238; Aug. 9.
- Plate and sheet trimming and squaring machine, Automatic. H. H. Strein. 1,629,233; May 17.
- Plate attachment, Pie. W. Houston. 1,640,409; Aug. 30.
- Plate-bolting-up machine. F. C. Moore. 1,629,925; May 24.
- Plate-chain-feeding mechanism. F. De Minico. 1,649,021; Jan. 15.
- Plate clamp. L. A. Schmidt. 1,649,928; Nov. 22.
- Plate clamping, Multiple-. J. J. Halliwell. 1,650,206; Nov. 22.
- Plate for cooking utensils, Heat-distributing. E. P. McClure. 1,635,236; July 12.
- Plate glass, Apparatus for making. F. Gelstharp. 1,615,834; Feb. 1.
- Plate glass, Method and device for manufacturing. L. von Reis. 1,621,144; Mar. 15.
- Plate glass, Polishing. P. J. Hess. 1,618,085; Feb. 15.
- Plate-glass transfer and laying apparatus. H. K. Hitchcock. 1,631,203; June 7.
- Plate, Handholds. F. Moffitt. 1,649,720; Nov. 15.
- Plate mounting. H. A. Borresen. 1,643,652; Sept. 27.
- Plate or analogous article. H. E. Nock. Des. 72,107; Mar. 1.
- Plate or analogous article. H. E. Nock. Des. 72,490; Apr. 19.
- Plate or analogous article. H. E. Nock. Des. 73,330; Aug. 23.
- Plate or sheet sorting machine, Weight-operated. H. Petin. 1,614,630; Jan. 18.
- Plate or similar article. G. R. Ahrendts. Des. 73,219; Aug. 9.
- Plate or similar article. A. Bihl. Des. 73,058; July 19.
- Plate or similar article. J. F. Carney. Des. 72,307; Mar. 29.
- Plate or similar article. B. J. De Passe. Des. 71,960; Feb. 8.
- Plate or similar article. W. De Ville. Des. 73,072; July 19.
- Plate or similar article. W. De Ville. Des. 73,162; Aug. 2.
- Plate or similar article. J. E. Goodwin. Des. 74,009; Dec. 6.
- Plate or similar article. U. Hagmann. Des. 73,174; Aug. 2.
- Plate or similar article. J. Harrison. Des. 71,872; Jan. 18.
- Plate or similar article. A. Hasbagen. Des. 72,209; Mar. 15.
- Plate or similar article. A. Hasbagen. Des. 72,945; Jan. 28.
- Plate or similar article. E. O. Jones. Des. 73,610; Oct. 11.
- Plate or similar article. F. Katz. Des. 72,480; Apr. 19.
- Plate or similar article. L. B. Kaufman. Des. 73,086; July 19.
- Plate or similar article. P. N. Leyland. Des. 73,092; July 19.
- Plate or similar article. F. Markert. Des. 72,176; Mar. 8.
- Plate or similar article. T. C. Merriman. Des. 72,524; Apr. 26.
- Plate or similar article. C. J. Noke. Des. 73,577; Oct. 4.
- Plate or similar article. M. J. Palm, jr. Des. 72,383-4; Apr. 5.
- Plate or similar article. M. J. Palm, jr. Des. 72,492; Apr. 19.
- Plate or similar article. M. J. Palm, jr. Des. 72,526; Apr. 26.
- Plate or similar article. J. E. Phillips. Des. 72,493; Apr. 19.
- Plate or similar article. J. E. Phillips. Des. 72,724; May 24.
- Plate or similar article. H. Rampfel. Des. 73,441; Sept. 13.
- Plate or similar article. E. Sainson. Des. 71,929; Nov. 29.
- Plate or similar article. U. Tomita. Des. 71,815; Jan. 4.
- Plate or similar article. U. Tomita. Des. 71,853-4; Jan. 11.
- Plate or similar article. U. Tomita. Des. 73,988; Nov. 29.
- Plate or similar article. U. Tomita. Des. 74,083-4; Dec. 13.
- Plate or similar article. L. Walz. Des. 72,393; Apr. 5.
- Plate or similar article. G. Wesp. Des. 72,649-54; May 10.
- Plate or similar article. G. Wesp. Des. 72,809; June 7.
- Plate or similar article. G. Wesp. Des. 73,458; Sept. 13.
- Plate or similar article. G. Wesp. Des. 73,827; Oct. 11.
- Plate or similar article. G. Wesp. Des. 73,767; Nov. 1.
- Plate or similar article. J. H. Wilson. Des. 73,591; Oct. 4.
- Plate or similar article. J. H. Wilson. Des. 73,813; Nov. 8.
- Plate, Paper baking. A. Botbe. 1,637,100; July 26.
- Plate pattern, Watch-. L. G. Copeman. 1,644,368; Oct. 4.
- Plate-printed sheets, Drying. D. M. Davis and W. B. Freeman. 1,613,445; Jan. 4.
- Plate, Roll-off. A. K. McMillen. 1,640,957; Aug. 30.
- Plate-rolling mills, Installation for handling and shearing metal plates from. J. R. Lamberton. 1,630,620; May 31.
- Plate, Royal-type. J. J. Walsh. 1,650,404; Nov. 22.
- Plate-sinking die. J. R. Thonet. 1,612,841; Jan. 4.
- Plate and accomplishing the same. H. Gardner. 1,642,238; Sept. 13.
- Plating by action of casting off mechanism, Reverse. R. H. Lawson. Re16,584; Apr. 5.
- Plating equipment. W. O. Emard. 1,613,878; Jan. 11.
- Plating machine, Electrolytic. J. Hulmer and K. Jonas. 1,613,899; Feb. 22.
- Plating machine, Hat-brim-. S. J. Miller. 1,618,212; Feb. 22.
- Plating mechanism and process, Reverse. R. H. Lawson. 1,627,290; May 3.
- Plating metals. B. S. Summers. 1,619,835; Mar. 8.
- Plating method and apparatus for plating. Heating and bending metallic. C. N. Smith. 1,620,042; Mar. 8.
- Platen clutch. C. Gabrielson. 1,614,548; Jan. 18.
- Platen, Portable hand-operated flat. H. A. Footthorpe. 1,638,192; Aug. 9.
- Platen, Steam. F. H. Smith. 1,639,440; Aug. 16.
- Platen support, Removable. O. A. Hokanson. 1,625,891; Apr. 26.
- Platen, Toll-slip. H. A. Footthorpe. 1,625,802; Apr. 26.
- Platens, Limit stop for shiftable. O. A. Hokanson. 1,625,607; Apr. 19.
- Platform, Car. E. G. Hallquist. 1,636,816; July 26.
- Platform, Elevator. J. Rice. 1,623,977; Apr. 12.
- Platform for trucks, Elevating. E. J. Kofford. 1,633,024; June 21.
- Platform hoist. D. E. Parrish. 1,613,901; Jan. 11.
- Platform, lamp and incense burner for smoking stands or similar articles, Combined. L. Zweig. Des. 73,463; Sept. 13.
- Platform release. J. H. Myre. 1,644,891; Oct. 11.
- Platform support. E. Prescott. 1,642,265; Sept. 13.
- Platform, Weight-scale. E. Buechler. 1,619,594; Mar. 1.
- Platinum, Recovery of. D. C. Smith. 1,649,786; Nov. 15.
- Platner or similar article. A. J. Bennett. Des. 74,092; Dec. 20.
- Platner retaining device. C. H. Hapgood. 1,640,074; Aug. 23.
- Platner, Service. S. W. James. Des. 73,744; Nov. 1.
- Platner, Serving. A. Barchoff. Des. 71,860; Jan. 18.
- Platting machine. E. A. Gast. 1,643,604; Sept. 27.
- Play ball. C. C. Collette. 1,646,347; Oct. 18.
- Play-ball covering. B. L. Henry. 1,634,146; June 28.
- Playground slide. J. Bezark. Des. 73,478; Sept. 20.
- Playground slide. M. A. McCreel. 1,626,142; Apr. 26.
- Playhouse. M. Vanschubach. 1,649,938; Nov. 22.
- Player actions, Transmission mechanism for. J. T. Rydberg. 1,630,035; May 24.
- Player instruments, Solo control for automatic. J. H. Hammond, jr. 1,621,880; Mar. 22.
- Players, Rewind and relay mechanism for automatic. F. J. Clark. 1,648,840; Nov. 8.
- Playing ball. F. R. Eden. 1,653,893; Dec. 27.
- Playing ball. G. L. Pierce. 1,621,898-9; Mar. 22.

- Playing ball. G. L. Pierce and H. V. Rau. 1,618,994; Mar. 1.
- Playing ball. R. W. Rost. 1,626,302; Apr. 26.
- Playing instrument, Automatic. J. T. Rydberg. 1,630,034; May 24.
- Plectrum for stringed instruments. J. L. Warner. 1,643,530; Sept. 27.
- Plies, safe. F. F. Hildebrand. 1,650,515; Nov. 22.
- Plies wrench. P. F. King. 1,653,182; Dec. 20.
- Pliers. G. W. Briggs. 1,619,400; Mar. 1.
- Pliers. J. A. Burchhalter. 1,613,929; Jan. 11.
- Pliers. P. J. Duffy. 1,626,274; Apr. 26.
- Pliers. G. F. Ingram. 1,639,183; Aug. 16.
- Pliers. A. Kutties. 1,625,615; Apr. 19.
- Pliers. A. McGill. 1,651,216; Nov. 29.
- Pliers. J. E. McWilliams. 1,647,878; Nov. 1.
- Pliers. W. Marshall. 1,624,556; Apr. 12.
- Pliers. H. F. Newman. 1,653,779; Dec. 27.
- Pliers. G. B. Perkins. 1,618,550; Feb. 22.
- Pliers. J. W. Ryan. 1,640,723; Aug. 20.
- Pliers. W. H. Wallace. 1,652,223; Dec. 13.
- Pliers, Binding and cutting. E. Fouquet. 1,641,077; Aug. 30.
- Pliers, Cotter-pin-extracting. G. Besancon. 1,621,576; Mar. 22.
- Pliers, Electrician. V. Pellegrino. 1,644,351; Oct. 4.
- Pliers for surgical operations, Double-spoon. K. Stieglitz. 1,649,423; Nov. 15.
- Pliers, Watchmakers. S. Gruber. 1,637,108; July 26.
- Plotting board. K. Petschenig. 1,644,791; Oct. 11.
- Plotting device. J. B. Furber and K. L. Rankin. 1,633,402; June 21.
- Plug. R. J. and H. E. Altgelt. 1,618,693; Feb. 22.
- Plug. M. Bouzo. 1,616,107; Feb. 1.
- Plug. T. Brown. 1,613,603; Jan. 11.
- Plug. H. Clary. 1,651,673; Dec. 6.
- Plug. W. J. Cloer. 1,632,388; June 14.
- Plug. B. L. Driscoll. 1,620,055; Mar. 8.
- Plug. L. C. Hester. 1,614,773-4; Jan. 18.
- Plug. L. C. Hester. 1,620,969; Mar. 15.
- Plug. R. C. Livingston. 1,616,324; Feb. 1.
- Plug. C. W. Moore. 1,652,287; Dec. 13.
- Plug. G. F. Muehlhauser. 1,632,345; June 14.
- Plug. J. F. Sheahan. 1,643,182; Sept. 20.
- Plug. D. W. Thomas. 1,616,398; Feb. 1.
- Plug. H. T. Young. 1,615,561; Jan. 25.
- Plug and cultivator, Combined. W. Van Arsdaale. 1,643,507; Sept. 27.
- Plug and planter, Lister. C. G. Strandlund. 1,640,625; Aug. 30.
- Plug attachment. W. H. Chancey. 1,635,605; July 12.
- Plug attachment. J. and S. Holley. 1,646,750; Oct. 25.
- Plug bottom. G. Forgy. 1,642,301; Sept. 13.
- Plug construction. T. Brown. 1,647,391; Nov. 1.
- Plug, Ditching. F. E. Duncan. 1,620,250; Mar. 8.
- Plug, Ditching. S. O. Martin. 1,648,230; Nov. 8.
- Plug, Gang. W. J. Holstein. 1,627,902; May 10.
- Plug, Gang. W. L. Paul. 1,627,924; May 10.
- Plug, Gang disk. S. D. Walton. 1,635,019; July 5.
- Plug, Garden. A. Garric. 1,648,384; Nov. 8.
- Plug, handles, Detachable brace for. O. B. Riley. 1,624,834; Jan. 4.
- Plug hitch. W. Bachewich. 1,616,299; Feb. 1.
- Plug hitch. A. E. Sutherland. 1,623,642; Apr. 5.
- Plug hitch, Antislid draft. P. Hansmann and H. Strack. 1,621,633; Mar. 22.
- Plug hitch, Antislid draft. P. Hansmann and H. Strack. 1,626,676; May 3.
- Plug, Ice-house. E. B. Flske. 1,645,524; Oct. 13.
- Plug-lift mechanism. H. S. Smith. 1,643,644; Sept. 27.
- Plug, Lister. V. Delaurier. 1,613,648; Jan. 11.
- Plug, Lister. J. Peterson. 1,644,894; Oct. 11.
- Plug, One-way. E. Moegelin. 1,639,049; Aug. 16.
- Plug, One-way disk. C. J. Angell. 1,615,498; Jan. 25.
- Plugpoint. C. S. Coleman. 1,635,535; July 12.
- Plug, Reversible stump-jump disk. G. F. Shave. 1,636,079; July 19.
- Plug, Rotary. A. G. Stapel. 1,631,075; May 31.
- Plug, Rotary gang. R. J. Wilson. 1,631,449; Apr. 5.
- Plugshare. H. F. W. Wegner. 1,640,632; Aug. 31.
- Plugshare, Adjustable. T. A. Behrends. 1,648,532; Nov. 8.
- Plug, Snow. W. H. Wadsworth. 1,645,837; Oct. 18.
- Plug, Snow removing and loading. J. L. Brennan. 1,646,638; Oct. 25.
- Plug stock. E. M. Chappell. 1,631,008; May 31.
- Plug structure. H. E. Altgelt. 1,613,596; Jan. 11.
- Plug, Subsoil. W. L. Paul. 1,625,278; Apr. 19.
- Plug support. M. Yakubowski. 1,630,997; May 31.
- Plug, Swinging. B. T. Wilson. 1,644,970; Oct. 11.
- Plug, Tractor. M. R. Bruner. 1,633,205; June 21.
- Plug, Tractor. C. Hanke. 1,624,406; Apr. 12.
- Plug, Tractor. W. Herzik. 1,618,084; Feb. 15.
- Plug, Tractor. T. Huston. 1,637,525; Aug. 2.
- Plug, Tractor. D. J. McAuliffe. 1,652,869; Dec. 13.
- Plug, Wheeled. C. G. Strandlund. 1,641,706; Sept. 6.
- Plug, with subsoil loosener, Swivel. J. Schmidt. 1,615,656; Jan. 25.
- Plowing device. J. P. Derrick. 1,624,041; Apr. 12.
- Plowing device. R. R. Dupler. 1,642,144; Sept. 13.
- Plows, Adjusting mechanism for. H. R. Traphagen. 1,626,368; Apr. 26.
- Plows, Attachment for H. and F. Röwer. 1,626,358; Apr. 26.
- Plows, Clod-breaking attachment for. R. E. Cunningham. 1,612,603; Jan. 4.
- Plows, Depth adjuster for. W. S. Graham. 1,632,128; June 14.
- Plows, Disk attachment for gang. P. Mayer and F. Veit. 1,616,697; Feb. 8.
- Plows, Draft-control mechanism for. C. G. Strandlund. 1,621,364; Mar. 15.
- Plows, Draft device for. T. Brown. 1,653,695; Dec. 27.
- Plows, Drill attachment for. C. A. Berry. 1,652,925; Dec. 13.
- Plows, etc., Draft connection for. J. J. Koger. 1,613,462; Jan. 4.
- Plows, Harrow attachment for. G. Lytle. 1,646,486; Oct. 25.
- Plows, Power lift for. W. J. Verity and P. A. Van Sickle. 1,642,521; Sept. 13.
- Plows, Revolvable moldboard for. J. N. Ellenburg. 1,621,772; Mar. 22.
- Plows, Spraying attachment for. J. S. Hale. 1,643,846; Sept. 27.
- Plows, Stalk-cutting attachment for. J. L. Amargós. 1,637,926; Aug. 2.
- Plows, Tractor hitch for. F. S. Shields. 1,648,366; Aug. 2.
- Plucking device, Fowl. A. Simons. 1,637,061; July 26.
- Plucking fowls, Apparatus for. A. Simons. 1,637,060; July 26.
- Plucking machine. E. Warner. 1,644,621; Oct. 4.
- Plug. W. Kinsling. 1,646,541; Oct. 25.
- Plug. C. Moline. 1,653,724; Dec. 27.
- Plug. E. F. Potter. 1,639,853; Aug. 23.
- Plug. L. C. Tate. 1,614,975; Jan. 18.
- Plug and making same, Washout. S. W. Elstone. 1,634,655; July 5.
- Plug and receptacle, Attachment. G. W. Goodridge. 1,621,364; Mar. 15.
- Plug and switch for electrical appliances, Combination. G. Browning. Des. 73,738; Nov. 1.
- Plug, Angle. T. J. Kerwin. 1,636,939; July 26.
- Plug, Attaching. T. D. Finizio. 1,626,580; Apr. 26.
- Plug, Attachment. E. C. Ballman. 1,636,798; July 26.
- Plug, Attachment. L. A. Brown. 1,650,421; Nov. 22.
- Plug, Attachment. W. Herskovitz. 1,630,896; May 31.
- Plug, Attachment. C. F. Pearson. 1,618,723; Feb. 22.
- Plug, Automatic electric connection. M. C. Bersted. 1,620,185; Mar. 8.
- Plug, Boller. B. H. Hughes. 1,636,135; July 19.
- Plug, Boller. F. K. Murphy. D. J. Mullen, and R. W. Retterer. 1,614,754; Jan. 18.
- Plug, Cement. H. A. and C. F. Davis. 1,641,741; Sept. 6.
- Plug, Connecting. E. E. Xaxley. 1,654,278; Dec. 27.
- Plug, Connection. M. J. Wohl and M. Mayer. 1,629,086; May 17.
- Plug, Double test. H. J. Provost. 1,616,392; Feb. 1.
- Plug, Electrical screw. J. H. Stackhouse and J. R. Allen. 1,651,560; Dec. 6.
- Plug, Emergency boiler-tube. J. L. Megathlin. 1,615,523; Jan. 4.
- Plug, Expanding. L. P. Kovanda. 1,640,128; Aug. 23.
- Plug, Flashing. N. Abramson. 1,619,778; Mar. 1.
- Plug gauge. F. L. Atwood. 1,626,176; Apr. 26.
- Plug, High-frequency spark. F. Fulgora. 1,614,885; Jan. 18.
- Plug, Inspection. G. H. Sargent. 1,619,273; Mar. 1.
- Plug, Intensifier, Spark-. H. M. Fuller. 1,614,951; Jan. 18.
- Plug, Multiple-point. O. E. Marvel. 1,653,776; Dec. 27.
- Plug or valve, Drain. H. J. Pereira. 1,638,954; Aug. 16.
- Plug, Pipe-testing. J. Florence. 1,644,118; Oct. 4.
- Plug, Plural. C. E. Warner. 1,631,995; June 14.
- Plug, Receptacle. C. H. Bissell. 1,651,747; Dec. 6.
- Plug, Roll. G. H. Harvey. 1,650,209; Nov. 22.
- Plug, Separable attachment. A. H. Kline. 1,648,351; Nov. 8.
- Plug, Snap. G. A. Hayward. 1,632,599; June 14.
- Plug, Spark. J. M. Bringman. 1,616,779; Feb. 8.
- Plug, Spark. E. N. and F. O. de Alcocer. 1,633,435; June 21.
- Plug, Sparking. E. J. Buckingham. 1,644,633; Oct. 4.
- Plug switch, Electrical. W. Row. 1,615,726; Jan. 25.
- Plug, Swivel. M. Kranz. 1,633,025; June 21.
- Plug, Test. E. C. Mueller, Jr. 1,641,286; Sept. 6.
- Plug, Wall. A. M. Skinner. 1,647,891; Nov. 1.
- Plug, Wash. J. H. McEvoy, Jr. 1,630,668; May 31.
- Plug, Washout. O. L. Prime. 1,630,761; May 31.
- Plugs, Fastening device for gas-main sweat. E. Schneider. 1,639,150; Aug. 16.
- Plugs, Making strainer. J. H. McEvoy, Jr. 1,632,090; June 14.
- Plugs, Receptacle for connecting. G. Frankel. 1,628,399; May 10.
- Plumb bob. E. Bärth. 1,626,130; Apr. 26.
- Plumb bob. A. E. Bosserdet. 1,626,717; May 3.
- Plumb bob. L. J. F. Rooney. 1,616,234; Feb. 1.
- Plumb line and level, Combination. H. Murray. 1,635,857; July 12.
- Plumbing fitting. H. J. Luff. 1,650,220; Nov. 22.
- Plumbing fixture. H. W. A. Lehnert. 1,647,643; Nov. 1.
- Plumbing fixture. H. Roth. 1,626,255; Apr. 26.
- Plumbing fixture. L. H. Stead. 1,613,251; Jan. 4.
- Plumbing fixtures, Valve for. J. N. Mortimer. 1,630,351; May 31.
- Plumbing-plug post. W. J. Gagnon. 1,646,995; Oct. 25.
- Plumbing system. W. H. Ellis. 1,635,745; July 12.

- Plumbing system. H. J. Luff. 1,650,221; Nov. 22.
 Plunger and making same, Reinforced. A. L. Schram. 1,635,439; July 12.
 Plunger body, One-piece. H. M. Green. 1,630,935; July 26.
 Plungers and the like, Packing for. G. Christenson. 1,616,412; Feb. 1.
 Ply-metal panel and wall constructed of the same. G. R. Meyercord. 1,630,857; May 31.
 Plywood, Molded. R. P. Jackson, G. C. Kent, and E. J. Casselman. 1,628,886; May 17.
 Pneumatic connecting device. M. Nanni. 1,625,372; Apr. 19.
 Pneumatic-control device. S. L. Fisher. 1,626,192; Apr. 26.
 Pneumatic conveyor. R. C. Mahon. 1,641,181; Sept. 6.
 Pneumatic elevating device, Portable. W. B. Thiemann. 1,619,277; Mar. 1.
 Pneumatic elevator. A. H. Mitchell. 1,624,424; Apr. 12.
 Pneumatic elevator. E. L. Soland. 1,614,160; Jan. 11.
 Pneumatic motor. E. H. Shaff. 1,638,512; Aug. 9.
 Pneumatic motor. F. Volare. 1,613,146; Jan. 4.
 Pneumatic pad. J. A. Schinner. 1,624,807; Apr. 12.
 Pneumatic suspension fed by compressed air. H. Mercier. 1,648,908; Nov. 15.
 Pneumatic tube. W. L. Fairchild. 1,625,460; Apr. 19.
 Pneumatic wheel. F. K. Svenson. 1,624,688; Apr. 12.
 Pneumatically-operated lubricator. J. E. Erskine. 1,621,975; Mar. 22.
 Pocket. C. R. Wood. 1,639,830; Aug. 23.
 Pocket and pencil clasp. J. A. Ewen. 1,639,651; Aug. 23.
 Pocket article and the like. R. S. Blair. 1,632,785; June 21.
 Pocketbook. A. H. Shillman. 1,624,987; Apr. 19.
 Pocketbook-fastening device. D. N. Gray. 1,630,002; May 24.
 Pocketbooks, etc., Safety attachment for. C. Wetzel. 1,619,644; Mar. 1.
 Pocket-building table. C. H. Desautels. 1,615,445; Jan. 25.
 Pocket, Combination safety and pencil. J. I. McDonald. 1,632,660; June 14.
 Pocket construction. J. B. Morrow. 1,615,516; Jan. 25.
 Pocket construction, Trousers-. N. J. Ader. 1,618,039; Feb. 15.
 Pocket flask. H. Negbauer. Des. 72,525; Apr. 26.
 Pocket for garments. L. P. Lewandowski. 1,613,664; Jan. 11.
 Pocket for garments. M. Rosenblum. 1,616,140; Feb. 1.
 Pocket iron leather guard. B. Hamblin, Jr. 1,627,967; May 10.
 Pocket lighter. A. F. Reilly. Des. 72,965; June 28.
 Pocket or similar article, Wall. R. De Boer. Des. 73,283; Aug. 23.
 Pocket or similar article, Wall. G. E. Roedding. Des. 72,331; Mar. 29.
 Pocket outfit for the care of teeth. J. R. Merrill. 1,642,620; Sept. 13.
 Pocket receptacle, Flexible. W. R. Buxton. 1,630,654; Mar. 13.
 Pocket. Reinforced. H. Kirschenbaum. 1,643,162; Sept. 20.
 Pocket, Safety. M. R. Layman. 1,619,140; Mar. 1.
 Pocket, Safety. P. Scherl. 1,617,825; Feb. 15.
 Pocket, Safety. C. R. Wood. 1,649,636; Nov. 15.
 Pocket, Shirt. W. B. Fields. 1,618,418; Feb. 22.
 Pocket stand. O. Stumpf. 1,632,717; June 14.
 Pockets. Tool-holding attachment for F. W. Taylor. 1,618,492; Feb. 22.
 Poison composition. O. F. Hedenburg. 1,636,776; July 26.
 Poisoning machines, Material-dispensing means for. J. Q. Shunk. 1,643,423; Sept. 27.
 Poisons from fruit, Removing residual. E. M. Sears. Des. 73,074; Apr. 12.
 Poke-hole cover. M. C. Blest. 1,619,055; Mar. 1.
 Pole. O. M. Knox. 1,641,227; Sept. 6.
 Pole clamp. J. P. Snapp. 1,633,129; June 21.
 Pole end. W. F. Hoffmann. Des. 72,258; Mar. 22.
 Pole-framing jack. A. M. Smith and A. W. Rhoades. 1,635,291; July 12.
 Pole. Hollow. H. K. Walker. 1,638,515; Aug. 9.
 Pole, Metal. W. D. Hamer. 1,617,331; Feb. 15.
 Pole, Metal. A. W. Malone. Re16,684; July 19.
 Pole, Metal. A. W. Malone. 1,637,259; July 26.
 Pole or post. A. H. Tashjian. 1,639,542; Aug. 16.
 Pole-puncturing machine. R. D. Valentine. 1,621,963; Mar. 22.
 Poles. Preserving. T. M. Holland. 1,653,706; Dec. 27.
 Poles, Step for. L. B. Fish. 1,630,293; May 31.
 Poles, Treating wood. G. A. Bubar. 1,618,407; Feb. 22.
 Polish. C. W. Trout. 1,639,316; Aug. 16.
 Polish applicator, Liquid. W. A. Clark. 1,620,801; Mar. 15.
 Polish-rod clamp. T. J. 1,629,584; May 24.
 Polisher, Duplex shoe. O. J. Sund. 1,651,481; Dec. 6.
 Polisher. Floor. A. F. Stelert and O. W. Linke. 1,635,016; July 5.
 Polisher, Roll. H. D. Weisgerber. 1,634,005; June 28.
 Polisher, Stone. C. S. Cushman. 1,617,578; Feb. 15.
 Polishing and cleaning machine. A. Peterson. 1,650,035; Nov. 22.
 Polishing composition. A. B. Fisher. 1,624,783; Apr. 12.
 Polishing compound. C. D. Hall. 1,615,756; Jan. 25.
 Polishing device. E. Fulda. 1,638,570; Aug. 9.
 Polishing device, Rotary-. C. H. Fennell. 1,617,838; Feb. 15.
 Polishing implement. P. C. P. Booty. 1,615,436; Jan. 25.
 Polishing machine. E. G. Guthrie. 1,636,557; July 19.
 Polishing machine. L. P. Halladay. 1,652,436; Dec. 13.
 Polishing machine. P. Miller. 1,641,984; Sept. 13.
 Polishing machine, Drop-wire-. G. I. Findlay and W. W. Johnston. 1,651,117; Nov. 29.
 Polishing machine, Floor-. L. W. Gills. 1,635,474; July 12.
 Polishing machine, Floor-. R. E. Merrill. 1,638,591; Aug. 9.
 Polishing machine for shoes, Hand. J. Skrzeczowski. 1,645,357; Oct. 11.
 Polishing machines, Carriage for. W. H. Grant. 1,615,977; Feb. 1.
 Polishing material to a series of polishing machines, Apparatus for applying. H. K. Hitchcock. 1,620,021; Mar. 8.
 Polishing, Method of and apparatus for. W. Taylor and F. W. Preston. 1,624,290; Apr. 12.
 Polishing mitt. S. S. Millen. 1,643,722; Sept. 27.
 Polishing or abrading devices, Trough and splash guard for rotary. S. H. Wilson. 1,639,419; Aug. 16.
 Polishing or buffer wheel. N. A. Strand. 1,654,275; Dec. 27.
 Polishing or sizing machine, Tube. N. Marshall. 1,623,965; Apr. 12.
 Polishing pencils and other rod-shaped bodies, Machine for. N. Schwinhauser and W. Schwinhauser. 1,640,910; Aug. 30.
 Polishing wheel. J. Steiner. 1,619,442; Mar. 1.
 Polishing wheel and treating same. W. E. Foster. 1,635,523; June 21.
 Polishing wheel, Stone. W. Milne. 1,651,217; Nov. 29.
 Polyhydroxy carbon compounds, Making. H. Essex and A. L. Ward. 1,626,398; Apr. 26.
 Polymers, Styrol and its homologues and products obtained thereby, Obtaining colored. I. Ostromlensky. 1,613,674; Jan. 11.
 Polymerized styrol and its homologues and products obtained thereby, Obtaining colored. I. Ostromlensky. 1,627,195; May 8.
 Polymers, glycol and making the same, Ether of. J. G. Davidson. 1,633,927; June 28.
 Polyphase plate-circuit excitation system. A. Nyman and F. Conrad. 1,645,291; Oct. 11.
 Polyphase relay. J. C. McDonald. 1,619,080; Mar. 1.
 Polyphase transformer. E. C. M. Stahl. 1,614,161; Jan. 11.
 Pontoon. I. Grebowicz. 1,630,003; May 24.
 Pontoon, Sectional. A. E. Cook. 1,637,336; Aug. 2.
 Pool pockets, Machine for forming leathers for. G. A. and A. F. Jaeger. 1,636,000; July 19.
 Pool, Swimming. P. C. Miller. 1,637,423; Aug. 2.
 Pool table. Pocket holder for. N. F. Koley. 1,625,685; Apr. 19.
 Pop-corn shaker. A. Steger. 1,653,442; Dec. 20.
 Popgun. C. F. Lefever. 1,633,031; June 21.
 Porcelain. F. H. Riddle. 1,631,695; June 7.
 Porcelain, Making and molding hard. A. M. McIntosh. 1,627,245; May 8.
 Porch-rail fastener. I. A. Anderson. 1,644,768; Oct. 11.
 Porches, Capstone for. C. March. 1,621,799; Mar. 22.
 Porous cementitious article, Producing a. A. T. Schenck. 1,622,396; Mar. 29.
 Porous masses for storing explosive gases and making same. G. Dalen. 1,625,169; Apr. 5.
 Porous objects, Indurating. J. J. Kressler. 1,638,942; Aug. 9.
 Portable carrier. A. L. Aldrich. 1,638,794; Aug. 9.
 Portable elevator. J. Doelcher. 1,643,448; Sept. 27.
 Portable elevator. G. C. and F. C. Good. 1,641,847; Sept. 6.
 Portable elevator. E. Johnson. 1,641,891; Sept. 6.
 Portable elevator. W. J. Taylor. 1,645,554; Oct. 18.
 Portable rack. R. T. Romine. 1,637,960; Aug. 2.
 Portable theft-proof box. N. Urovsky. 1,643,189; Sept. 20.
 Portiere. E. Lengyel. Des. 72,267; Mar. 22.
 Portieres, curtains and the like, Support for. A. Marczkowski. 1,621,639; Mar. 22.
 Portioning apparatus. L. L. Knox. 1,653,807; Dec. 27.
 Portioning cigarettes or other staff-shaped articles for the packaging of the same. G. C. Ekström and B. A. E. Johnson. 1,639,429; Aug. 16.
 Portioning machine. L. L. Knox and W. H. Lewis. 1,640,126; Aug. 23.
 Position indicator. H. L. Tanner. 1,621,290; Mar. 15.
 Positives by reversal, Obtaining direct. G. E. Zelger. 1,628,445; May 10.
 Post: See—
 Electric post. Plumbing-plug post.
 Battery binding post. Railway bumping post.
 Binding post. Steering post.
 Fence post. Tennis-net post.
 Fence-tightening post. Tool post.
 Mail-box post. Turret tool post.
 Make-up post.
 Post. H. Barkschat. Des. 72,924; June 28.

- Post. D. R. Scholes. 1,630,804; May 31.
Post and lighting standard, Combination. H. Barkschat. Des. 72,590; May 10.
Post bracket, Adjustable. J. R. Goodwin. 1,636,185; July 19.
Postage meter machines, Multiple die for. A. H. Pitney. 1,639,384; Aug. 16.
Postage-meter machines, Moistener and sealer for. A. H. Pitney, J. W. Ogden, E. G. Northrop, and W. H. Wheeler, jr. 1,646,108; Oct. 18.
Postage-meter machines, Separator for. A. H. Pitney, J. W. Ogden, E. G. Northrop, and W. H. Wheeler, jr. 1,646,107; Oct. 18.
Postage-meter machines, Trip mechanism for. A. H. Pitney, J. W. Ogden, E. G. Northrop, and W. H. Wheeler, jr. 1,646,108; Oct. 18.
Postal franking machine. E. H. Kinnard. 1,637,647; Aug. 2.
Post clamp, Storage-battery-. J. W. Roy. 1,648,914; Nov. 15.
Post driver. C. B. Murlton. 1,646,039; Oct. 18.
Poster board. J. T. Jackson. 1,626,735; May 3.
Poster boards, Adjustable frame for. L. D. Cook. 1,628,047; Apr. 5.
Posters, Stand for. C. F. Wallace. 1,631,608; June 7.
Posthole digger. O. Col. 1,622,704; Mar. 29.
Postholes and wells, Auger for. H. Grothe. 1,639,939; Aug. 23.
Posting mechanism. H. C. Einstein. 1,650,937; Nov. 29.
Postmarking and stamp-canceling machine. W. H. Wheeler, jr., and J. W. Ogden. 1,651,428; Dec. 6.
Pot. *See*—
Coffee and tea pot. Tire pot.
Coffeepot. Transplanting pot.
Melting pot.
Pot construction, Fire-. O. J. Groehn and W. Blaske-witz. 1,639,938; Aug. 23.
Pot for plants, Wooden. J. C. Finn. 1,631,409; June 7.
Pot head, Automatic disconnecting. A. C. Rumble. 1,637,090; July 26.
Pot-holder rack. F. Arnett and L. Welspiel. Des. 71,859; Jan. 18.
Pot-holder rack. F. Arnett and L. Welspiel. Des. 72,129; Mar. 8.
Pot or similar article. G. N. Allen. Des. 72,541; May 3.
Pot or similar article. W. A. Hastings. Des. 73,699; Oct. 25.
Potato agitator. A. W. Gray. 1,653,957; Dec. 27.
Potato-chin machine, Automatic. F. L. Morrow. 1,620,855; May 17.
Potato cutter. E. R. Born. 1,617,194; Feb. 8.
Potato cutter and planter. P. Israelson. 1,628,779; May 17.
Potato digger. A. L. Moon. 1,615,716; Jan. 25.
Potato digger, Tractor. G. Thortvedt. 1,631,234; June 7.
Potato digger, Tractor-driven. O. Knoerzer. 1,650,991; Nov. 29.
Potato feeder. B. P. Sutherland. 1,622,886; Mar. 29.
Potato-laying machine. C. Ruetz. 1,619,488; Mar. 1.
Potato-mashing machine. A. E. Bergquist. 1,631,910; June 7.
Potato-peeling machine. W. Mansdorf. 1,637,830; Aug. 2.
Potato-sorting table. T. R. Muir. 1,650,532; Nov. 22.
Potteries and the like, Apparatus for cleaning. A. Parodi. 1,627,112; May 3.
Pottery molds, Locking means for. E. Edwards. 1,653,896; Dec. 20.
Pouches, Machine for producing lined. J. E. Fefel. 1,613,748; Jan. 11.
Poultry and livestock, System of feeding. A. W. Holmes. 1,624,245; Apr. 12.
Poultry band. J. Haas, jr. 1,615,011; Jan. 18.
Poultry catcher. J. D. Jefferson. 1,630,946; May 31.
Poultry-dipping mechanism. J. Allen. 1,637,096; July 26.
Poultry feeder. H. Ahlrichs. 1,633,880; June 28.
Poultry feeder. G. F. Moyers. 1,620,607; Mar. 8.
Poultry feeder. E. Ochsner. 1,652,727; Dec. 13.
Poultry feeder. L. M. Pratt. 1,615,402; Jan. 25.
Poultry fountain. G. H. Bindemann. 1,627,140; May 3.
Poultry fountain. W. Jevons. 1,643,245; Sept. 20.
Poultry perch. F. Baar. 1,639,020; Aug. 16.
Poultry perch. F. J. Kummeth. 1,628,369; May 10.
Poultry perch, Electric. D. R. McGinnis. 1,621,424; Mar. 15.
Poultry roost. J. C. Glynn. 1,618,186; Feb. 22.
Poultry-trussing device. J. M. Selden. 1,633,499; June 21.
Pouring-spout container. D. G. Magill. 1,624,268; Apr. 12.
Powder and skin bleach, Combined face. F. A. Marsek. 1,620,269; Mar. 8.
Powder applicator, Medical. E. C. Haas. 1,642,950; Sept. 20.
Powder box. C. C. Apablaza. Des. 73,991; Dec. 6.
Powder box. G. Huret. Des. 73,570; Oct. 4.
Powder box. L. Root. 1,615,487; Jan. 25.
Powder box. J. J. Vogler. 1,616,834; Feb. 8.
Powder box, Face. J. M. Price. 1,650,039; Nov. 22.
Powder box or similar article. P. L. Blazer. Des. 73,886; Oct. 25.
Powder can. W. L. Rutkowski. 1,653,471; Dec. 20.
Powder charger. A. W. Callis and F. E. Smoots. 1,636,734; July 26.
Powder container. J. Hellbron. 1,644,377; Oct. 4.
Powder container. T. Kirby. 1,647,527; Nov. 1.
Powder container and toothbrush holder, Combined. A. E. Henzen. 1,638,397; Aug. 9.
Powder container, Face-. J. H. Kjellstrom. 1,630,437; May 31.
Powder container, Loose. S. S. Radley. 1,624,874; Apr. 12.
Powder dispenser. A. J. Krank. 1,641,785; Sept. 6.
Powder dispenser. G. B. Neckles. 1,633,139; July 5.
Powder dispenser. I. P. Schei. 1,645,935; Oct. 18.
Powder dispenser, Adjustable. A. J. Krank. 1,638,584; Aug. 9.
Powder dispenser, Adjustable. A. J. Krank. 1,642,447; Sept. 13.
Powder-dispensing containers, Closure for. E. L. Ken-dall. 1,627,781; May 10.
Powder-dispensing devices, Protected bearing for. R. R. Root. 1,629,539; May 24.
Powder-distributing device, Agricultural. R. R. Root. 1,619,316; Mar. 1.
Powder-distributing device, Fine-. R. R. Root. 1,652,732; Dec. 13.
Powder-dusting machine. L. C. Stukenborg and J. H. Cooper. 1,624,996; Apr. 19.
Powder feeder. W. Mauch. 1,632,659; June 14.
Powder mechanism. F. F. Dorsey. 1,628,037; May 10.
Powder pad. G. T. Parr. 1,616,197; Feb. 1.
Powder press. W. G. Kendall. 1,640,000; Aug. 23.
Powder, Propellant. C. H. Keck. 1,649,784; Nov. 15.
Powder, Propellant. C. H. Keck. 1,651,459; Dec. 6.
Powder, Propellant. J. M. Olin and A. S. O'Neill. 1,627,859; May 10.
Powder puff. S. Biondi. 1,629,772; May 24.
Powder puff. J. J. Cosin. 1,634,175; May 23.
Powder puff, Folding. A. Wilk. 1,626,992; Aug. 8.
Powder puff and making the same. E. Diaz and I. Englander. 1,654,161; Dec. 27.
Powdering machine. H. B. Congdon. 1,638,566; Aug. 9.
Powders of great fineness, Process of and apparatus for obtaining. E. Podszus. 1,621,270; Mar. 15.
Power. *See*—
Ocean compressed-air power.
Power actuator. C. S. Bragg and V. W. Kliesrath. 1,620,513; Mar. 8.
Power actuator. C. S. Bragg and V. W. Kliesrath. 1,639,285; Aug. 16.
Power actuator. C. S. Bragg and V. W. Kliesrath. 1,640,526; Aug. 30.
Power actuator. C. S. Bragg and V. W. Kliesrath. 1,653,146; Dec. 20.
Power actuators, Providing suction for operating. C. S. Bragg and V. W. Kliesrath. 1,639,979; Aug. 23.
Power apparatus, Hydraulic. B. A. Bristow. 1,635,457; July 12.
Power apparatus, Hydraulic. E. Temens. 1,615,103; Dec. 13.
Power attachments, Governor for. G. B. Maxwell. 1,627,660; May 10.
Power baling press. J. Hansen. 1,645,906; Oct. 18.
Power brake. A. Dewandre. Re16,724; Aug. 30.
Power check writer. J. Whitaker. 1,649,652; Nov. 15.
Power connecting device. F. H. Davey. 1,656,293; July 19.
Power controller. J. G. Maclaren. 1,637,314; July 26.
Power, Device for transmitting. J. R. Rogers. 1,635,585; July 12.
Power-factor meter. R. D. Evans. 1,621,006; Mar. 15.
Power-factor meter, Graphic. R. T. Pierce. 1,652,495; Dec. 13.
Power fork. S. Davey. 1,625,526; Apr. 19.
Power-generating device, Wind-. G. Silvestrin. 1,633,460; June 21.
Power generator. W. M. Smith. 1,631,069; May 31.
Power installation. B. W. Davis. 1,633,166-7; June 21.
Power mechanical means for transmitting. J. J. Reaney. 1,637,352; Aug. 2.
Power mechanism. C. W. Crumrine. 1,643,057; Sept. 20.
Power mechanism. G. N. Simpson. 1,630,809-10; May 31.
Power mechanism. R. G. Thompson and C. W. Crumrine. 1,646,465; Oct. 25.
Power mechanism. A. F. Williams. 1,643,041; Sept. 20.
Power-operated machines, Controller for. F. H. Ober-schmidt. 1,634,382; July 5.
Power plane. M. Skolnik. 1,641,645; Sept. 6.
Power plant. J. Anderson. 1,648,837; Nov. 8.
Power plant. W. L. Jeffreys. 1,637,115; July 26.
Power plant. E. R. Newton. 1,634,797; July 5.
Power plant. T. Stein. 1,644,754; Oct. 11.
Power plant, Condensing-steam-. C. A. Parsons and S. S. Cook. 1,618,722; Feb. 22.
Power plant, Converted motor-. A. B. Simon. 1,614,402; Jan. 11.
Power plant, Generating. J. Fisher. 1,631,257; June 7.
Power-plant installations, Protective system for. R. Fohl. 1,641,691; Sept. 6.
Power plant, Steam-. C. A. French. 1,617,586; Feb. 15.
Power plant utilizing steam at different pressures, Port-able. O. H. Hartmann and F. Wempe. 1,635,548; July 12.
Power press. Z. P. Candee. 1,632,462; June 14.
Power press. J. C. Ledbetter. 1,640,609; Aug. 30.
Power press. J. C. Ledbetter. 1,642,252; Sept. 13.

- Power presses, Clutch-operating mechanism for. E. W. Zeh. 1,630,882; May 31.
- Power production from solid fuel, Large scale. W. T. Bottomley and E. G. Weeks. 1,615,003; Jan. 18.
- Power roller. H. W. Guttridge. 1,637,996; Aug. 2.
- Power shovel. C. E. Davis. 1,643,704; Sept. 27.
- Power shovel. J. S. Huber. 1,629,855; Apr. 26.
- Power shovel. J. D. Rauch. 1,635,434; July 12.
- Power shovel. G. T. Rosselle. 1,649,739; Nov. 15.
- Power shovel. L. A. Russell. 1,639,752; Aug. 23.
- Power shovel. W. W. Sloane. 1,635,410; May 10.
- Power shovel. W. W. Sloane. 1,640,055; Aug. 23.
- Power shovel. W. W. Sloane. 1,653,739; Dec. 27.
- Power spring, Flat spiral. A. S. Howell. 1,628,668; May 17.
- Power structure, Unitary. J. B. Fisher. 1,652,432; Dec. 13.
- Power system. J. D. Hilliard. 1,624,729; Apr. 12.
- Power system. J. I. Hull. 1,635,788; July 12.
- Power system, Electric. J. J. Kane. 1,643,213; Sept. 20.
- Power system, Steam. I. Harter. 1,635,410; July 12.
- Power take-off. T. A. Jones. 1,633,814; June 28.
- Power take-off device. J. M. Cutenborder. 1,639,630; Aug. 16.
- Power take-off device. H. J. Riach. 1,639,812; Aug. 23.
- Power take-off device. A. H. Warren. 1,623,705; Apr. 5.
- Power transformation. G. H. Schieferstein. 1,615,655; Jan. 25.
- Power transmission. G. Constantinesco. 1,613,344; Jan. 4.
- Power transmission. C. G. Garrard. 1,623,052; Apr. 5.
- Power transmission. W. W. Henderson. 1,641,428; Sept. 6.
- Power transmission. F. A. Howard. 1,653,360; Dec. 20.
- Power transmission. M. R. Hutchison. 1,615,544; Jan. 25.
- Power transmission. F. Hymans. 1,644,337; Oct. 4.
- Power transmission. R. C. Mosher. 1,619,370; Mar. 8.
- Power transmission. C. McPherson. 1,647,413; Nov. 1.
- Power-transmission apparatus, Hydraulic. R. F. Carey. 1,645,371; Oct. 11.
- Power transmission by hydraulic means. R. Caut. 1,630,168; May 24.
- Power-transmission control mechanism, Automatic. O. E. Mark. 1,634,504; July 5.
- Power-transmission device. N. E. Craun. 1,626,270; Apr. 26.
- Power-transmission device. A. S. Newmark. 1,631,500; June 7.
- Power-transmission device, Combination. G. M. Mosher. 1,624,145; Apr. 12.
- Power-transmission device, Reversible. O. A. Wiberg. 1,621,228; Mar. 15.
- Power transmission, Electric. A. M. Taylor. 1,639,473; Aug. 16.
- Power transmission, Electrical. E. Clarke. 1,641,737; Sept. 6.
- Power transmission, Fluid. E. H. McKinney. 1,633,550; June 21.
- Power-transmission lines, Arrangement for coupling high-frequency apparatus to. M. Lock. 1,645,536; Oct. 18.
- Power-transmission mechanism. A. E. L. Chorlton. 1,619,703; Mar. 1.
- Power-transmission mechanism. C. A. Criegel and E. T. Larkin. 1,639,259; Aug. 16.
- Power-transmission mechanism. P. C. Day. 1,616,415; Feb. 1.
- Power-transmission mechanism. T. Dunbar. 1,652,819; Dec. 13.
- Power-transmission mechanism. C. Pallenberg. 1,613,191; Jan. 4.
- Power-transmission mechanism. W. I. Wheeler. 1,614,637; Jan. 18.
- Power-transmission mechanism, Hydraulic. A. Nydqvist. 1,627,294; May 3.
- Power-transmission pulley. G. J. Abbott. 1,637,402; Aug. 2.
- Power transmission, Selective. R. L. Dailey. 1,613,646; Jan. 11.
- Power-transmission system. J. W. Thropp. 1,621,385; Mar. 15.
- Power-transmission unit. J. H. Maxim. 1,628,260; May 10.
- Power-transmission unit. F. Miller. 1,634,376; July 5.
- Power transmissions, Fluid-pressure control for. R. Q. Davis. 1,633,951; June 28.
- Power transmitter, Hydraulic. G. A. Kilmek. 1,640,608; Aug. 30.
- Power-transmitting apparatus. E. F. Austin and A. F. Phelps. 1,622,076; Mar. 22.
- Power-transmitting apparatus. N. H. Sooy. 1,618,785; Feb. 22.
- Power-transmitting device. J. Arter and E. Schelling. 1,629,902; May 24.
- Power-transmitting device. P. L. Clark. 1,639,925; Aug. 23.
- Power-transmitting device. W. J. Francke. 1,616,829; Dec. 27.
- Power-transmitting device. J. M. Lucarelle and V. L. Frykman. 1,624,174; Apr. 12.
- Power-transmitting device. C. McPherson. 1,639,143; Aug. 16.
- Power-transmitting device. C. McPherson. 1,647,457; Nov. 1.
- Power-transmitting device. C. McPherson. 1,649,611; Nov. 15.
- Power-transmitting means. E. E. Clark. 1,651,997; Dec. 6.
- Power-transmitting means. H. H. Frick. 1,645,746; Oct. 18.
- Power-transmitting mechanism. J. W. Deroche. 1,639,260; Aug. 16.
- Power-transmitting mechanism. D. H. Martin. 1,629,518; May 24.
- Power-transmitting mechanism. L. Melanowski. 1,613,566; Jan. 4.
- Power-transmitting mechanism. L. Melanowski. 1,615,397; Jan. 25.
- Power-transmitting mechanism. L. Melanowski. 1,617,265; Feb. 8.
- Power-transmitting mechanism. N. H. Sooy. 1,618,786; Feb. 22.
- Power-transmitting mechanism, Electrodynamical. J. F. Gill and J. N. Chavira. 1,635,819; July 12.
- Power transmitting system. L. A. Umansky. 1,622,551; Mar. 29.
- Power wheel. A. J. Larkin. 1,620,363; Mar. 8.
- Power wrench. R. A. Wilson. 1,634,602; July 5.
- Practicing riding sport, Appliance for. W. Schoenke. 1,619,438; Mar. 1.
- Prayer rail. J. J. McCann. 1,612,871; Jan. 4.
- Precipitating and filtering, Apparatus for. L. D. Mills and T. B. Crowe. 1,634,720; July 5.
- Precision adjustment device. J. R. Gammeter. 1,639,885; Aug. 23.
- Precision indicator. K. Lauer. 1,648,138; Nov. 8.
- Preservative. C. A. Moore. 1,654,843; Dec. 27.
- Preservative, and forming the same. R. H. Schumacher. 1,647,937; Nov. 1.
- Preserve containers, Device for effecting a sterile closure for. E. Pause. 1,629,359; May 17.
- Preserver jar. W. Menne. 1,629,833; May 24.
- Pressing apparatus. C. C. E. Kersten. 1,636,061; July 19.
- Preserving fruit. W. B. McLaughlin. 1,631,974; June 14.
- Preserving jar, Food-. H. Ritter. 1,623,754; Apr. 5.
- Preserving posts, Methods and apparatus for. M. E. Brown. 1,627,829; May 10.
- Preserving vessels and the like, Closure for. K. Telchmann. 1,614,022; Jan. 11.
- Press: See—
- | | |
|-------------------|-----------------------------|
| Baling press. | Machine press. |
| Bending press. | Molding press. |
| Block press. | Packing press. |
| Clothes press. | Pencil-printing press. |
| Continuous press. | Photo-printing press. |
| Conveyor press. | Pipe press. |
| Cutting press. | Plait press. |
| Die press. | Powder press. |
| Drawing press. | Power baling press. |
| Electric press. | Power press. |
| Extrusion press. | Printing press. |
| Filter press. | Pulp-forming press. |
| Freezing press. | Pulp press. |
| Fruit press. | Punch press. |
| Garment press. | Riveting press. |
| Hamburger press. | Seal press. |
| Hand press. | Shearing and forging press. |
| Hydraulic press. | Steam press. |
| Ironing press. | Straw press. |
| Lettering press. | Tile press. |
| Lug-making press. | Toggle press. |
- Press. R. Baccellieri. 1,639,791; Aug. 23.
- Press. J. W. Brown, Jr. 1,618,912; Feb. 22.
- Press. C. R. Gabriel. 1,620,534; Mar. 8.
- Press. E. Gauthier. 1,618,001; Feb. 15.
- Press. J. S. Gullborg. 1,633,559; June 21.
- Press. P. J. Horgan. 1,629,870; May 24.
- Press. P. B. Keall. 1,632,235; June 14.
- Press. J. C. Ledbetter. 1,633,260; June 21.
- Press. G. W. Prouty. 1,646,872; Oct. 25.
- Press. G. A. Seeley. 1,648,427; Nov. 8.
- Press. P. Thevoz. 1,629,010; Mar. 17.
- Press. T. A. Willard. 1,646,568; Oct. 25.
- Press and the like, Rubber and like forcing machine extrusion. W. P. Whitehouse. 1,637,207; July 26.
- Press apparatus, Molding. H. M. Sturgeon. 1,623,022; Mar. 29.
- Press bolster-adjusting construction, Forcing. G. E. Weaver. 1,646,510; Oct. 25.
- Press bolster adjustment. H. C. Bußington and G. E. Weaver. 1,650,818; Nov. 29.
- Press brake. R. T. Hazelton. 1,618,825; Feb. 22.
- Press control, Power-. A. A. Byerlein. 1,636,497; July 19.
- Press feeding. P. W. Larsson and O. E. Forsberg. 1,636,148; July 19.
- Press for operating on metal sheets or for like purposes. H. A. and R. H. Griffiths. 1,616,623; Jan. 25.
- Press for printing, embossing, or the like. R. P. Link. 1,635,132; July 6.
- Press or expeller. F. V. Anderson. 1,640,342; Aug. 30.
- Press plates, Machine for making offset. A. T. Koppe. 1,616,567; Mar. 8.
- Press plates, Machine for making. A. T. Koppe. 1,639,738; Aug. 23.
- Press-ring washer. P. G. Ehrhardt. 1,640,650; Aug. 30.
- Pressing apparatus. M. Rosenblum. 1,626,253; Apr. 26.

- Pressing apparatus, Hydraulic. C. Wigtel. 1,628,094; May 10.
- Pressing arm. A. Hopkins. 1,622,195; Mar. 22.
- Pressing iron. H. C. D'Annunzio. 1,615,072; Jan. 18.
- Pressing machine. A. B. Clisson. 1,629,091; May 17.
- Pressing machine. J. P. Daly. 1,629,071; May 17.
- Pressing machine. J. Denemark. 1,626,792; May 3.
- Pressing machine. W. F. Hascke. 1,635,616; July 12.
- Pressing machine. J. P. Singiser. 1,652,741; Dec. 13.
- Pressing machine. E. D. Stocker and J. C. Ledbetter. 1,653,192; Dec. 20.
- Pressing machine. A. Zeman. 1,620,243; Mar. 8.
- Pressing-machine control. P. N. Braun. 1,637,729; Aug. 2.
- Pressing-machine elements, Woven-wire cloth covering for. G. F. Simpson. 1,639,458; Aug. 16.
- Pressing machine for garments and the like. E. J. Schrepp. 1,631,770; June 7.
- Pressing machine, Garment-. A. R. Braun. 1,640,142; Aug. 23.
- Pressing machine, Garment-. H. E. Page. 1,623,358; Apr. 5.
- Pressing-machine mechanism. A. B. Clisson. 1,639,427; Aug. 16.
- Pressing-machine mechanism. E. Davis. 1,635,610; July 12.
- Pressing-machine mechanism, Triple tandem. A. B. Clisson. 1,632,463; June 14.
- Pressing-machine-operating mechanism. E. Davis. 1,652,706; Dec. 13.
- Pressing machine (sliding head). P. N. Braun. 1,647,501; Nov. 1.
- Pressing machines, Attachment for steam. J. W. De Ford. 1,638,293; Aug. 9.
- Pressing machines having a start and stop motor, Mechanism for. J. P. Daly. 1,640,144; Aug. 23.
- Pressing machines, Pad for. H. Diener. 1,616,356; Feb. 1.
- Pressing machines, Power attachment for. C. E. Waream. 1,640,015; Aug. 23.
- Presses and like machines, Construction of bearer plates for use in. F. Humphris. 1,643,893; Sept. 27.
- Presses and like machines, Edge pressure plate for use in. F. Humphris. 1,648,849; Nov. 8.
- Presses, Apparatus for cleaning cylinders of offset and other. W. B. Gegenheimer and E. E. Barney. 1,623,723; Apr. 5.
- Presses, Arrangement for disengaging the friction coupling of eccentric. L. Schull. 1,616,830; Feb. 8.
- Presses, Attachment for printing. W. J. Mee and H. A. Tullis. 1,650,025; Nov. 22.
- Presses, Automatic dwell control device for embossing. D. D. Huyett. 1,647,632; Sept. 6.
- Presses, Charger for. H. Ackermann. 1,652,883; Dec. 13.
- Presses, Cushioning means for power. J. Nelson. 1,633,267; June 21.
- Presses, Cylinder-stripping device for multicylinder. F. S. English and T. L. Perry. 1,628,969; May 17.
- Presses, Driving mechanism for. L. Schull. 1,618,479; Feb. 22.
- Presses, Gripper-tensioning mechanism for. F. S. English. 1,628,768; May 17.
- Presses, Gripper-tensioning mechanism for. F. S. English and T. L. Perry. 1,628,960; May 17.
- Presses, Guard for punch. E. Ischinger. 1,643,232; Nov. 8.
- Presses, Guard for punch. E. Ischinger. 1,652,719; Dec. 13.
- Presses, machinery, shafting, and the like, Safety clutch used in. F. Humphris. 1,645,383; Oct. 11.
- Presses, Pneumatic control for batteries of automatic. C. D. McDonald. 1,642,375; Sept. 13.
- Presses, Power equalizer for power. J. Nelson. 1,633,266; June 21.
- Presses, Printing cylinder for rotary. S. Smith. 1,648,598; Nov. 8.
- Presses, Rotary roll-paper feeder for two-revolution cylinder. A. Dager. 1,645,094; Oct. 11.
- Presses, Safety device for. E. Secor. 1,643,259; Sept. 20.
- Presses, Safety device for power. W. A. D'Arcy. 1,616,017; Jan. 25.
- Presses, Sheet-delivery mechanism for. F. S. English. 1,619,109; Mar. 1.
- Presses, Sheet-transfer mechanism for multicylinder. T. L. Perry and F. S. English. 1,651,409; Dec. 6.
- Presses, Shock absorber for power plate. J. J. Halliwell. 1,619,820; Mar. 8.
- Presses, Type cylinder for rotary. A. F. Osterlind. 1,614,801; Jan. 13.
- Presser foot. H. R. Rush. 1,615,042; Jan. 18.
- Presser foot. C. L. Thomas. 1,623,075; Apr. 5.
- Pressure-actuated circuit breaker. P. B. Parks and J. Van Vulpin. 1,620,127; Mar. 8.
- Pressure-actuated control device. H. A. Hoeschen. 1,619,836; Mar. 8.
- Pressure and float actuated switch, Combined. I. E. McCabe. 1,644,935; Oct. 11.
- Pressure and suction distributing mechanism. F. Remy. 1,644,792; Oct. 11.
- Pressure bags, Folder for. W. F. Irrgang. 1,627,779; May 10.
- Pressure burner, Hand-pump. J. H. Hunt and H. Wallace. 1,640,774; Aug. 30.
- Pressure containers, Discharge manifold for. W. C. McKeown. 1,625,044; Apr. 19.
- Pressure-control apparatus. C. A. Sabbah. 1,618,109; Feb. 15.
- Pressure-control apparatus, Automatic. J. Astrom. 1,646,847; Oct. 25.
- Pressure-control device. S. C. Brady. 1,626,073; Apr. 26.
- Pressure-control device. G. E. Hazard. 1,636,561; July 19.
- Pressure cushion. F. J. Rode. 1,636,110; July 19.
- Pressure-difference-creating device. J. Wilkinson. 1,648,708; Nov. 8.
- Pressure gauge. H. J. Burkhardt. 1,641,838; Sept. 6.
- Pressure gauge. G. H. Clark. 1,625,985; Apr. 26.
- Pressure gauge. W. P. Dalrymple. 1,645,184; Oct. 11.
- Pressure gauge. J. T. Duffy. 1,616,032; Feb. 1.
- Pressure gauge. J. F. Griffin. 1,621,320; Mar. 15.
- Pressure gauge. J. H. Johnson. 1,622,517; Mar. 20.
- Pressure gauge. B. McClelland. 1,620,482; Mar. 8.
- Pressure gauge. A. L. Ryan. 1,636,077; July 19.
- Pressure gauge. J. W. Weisiger. 1,648,206; Nov. 8.
- Pressure gauge, Diaphragm. A. L. Carter. 1,647,342; Nov. 1.
- Pressure gauge, Electrical. H. Epstein. 1,638,814; Aug. 9.
- Pressure gauge, Gasoline. T. M. Eynon. 1,615,264; Jan. 25.
- Pressure gauge, Piston. J. Shebol and W. F. Albrecht. 1,642,563; Sept. 13.
- Pressure indicator. A. B. Cunningham. 1,614,457; Jan. 18.
- Pressure indicator. E. W. Lipschutz. 1,637,421; Aug. 2.
- Pressure indicator, Electrical tire. V. E. Rouch and J. Abbott. 1,652,733; Dec. 13.
- Pressure indicator for showing gasoline height. T. M. Eynon. 1,615,263; Jan. 25.
- Pressure intensifier, Fluid-. J. C. Solberg. 1,625,751; Apr. 19.
- Pressure lubricating system and apparatus. H. J. Murphy. 1,637,326; July 26.
- Pressure indicator. J. F. MacIndoe. 1,644,343; Oct. 4.
- Pressure lubricator. H. Ratya. 1,643,956; Oct. 4.
- Pressure members when the same are subjected to undue stress, Automatically relieving the pressure on. W. E. Abbott and J. R. Elger. 1,628,297; May 10.
- Pressure meter. T. K. A. Nordenson. 1,637,653; Aug. 9.
- Pressure meter, Differential. R. Bosselmann. 1,650,060; Nov. 22.
- Pressure motor, Rotary fluid. M. P. Holmes. 1,637,568; Aug. 2.
- Pressure oil can. F. M. Dilley and C. F. Hallberg. 1,615,595; Mar. 8.
- Pressure-operated expansion device, Variable. C. E. P. Gourdon. 1,631,262; June 7.
- Pressure-operated regulator, Fluid-. T. Lindsay. 1,619,351; Mar. 1.
- Pressure, pad-control device. F. J. Rode. 1,629,538; May 24.
- Pressure processing. G. P. White. 1,621,698; Mar. 22.
- Pressure-reducing and gas-flow-regulating valve, Combined. H. F. Blomquist and G. C. Miller. 1,651,507; Dec. 6.
- Pressure-reducing device. J. O. Carrey. 1,638,110; Aug. 9.
- Pressure-regulating apparatus. W. C. Shield. 1,628,859; May 17.
- Pressure regulator. C. J. Coberly. 1,613,743; Jan. 11.
- Pressure regulator. T. Coles. 1,637,764; Aug. 2.
- Pressure regulator. G. W. Engstrom. 1,613,879; Jan. 11.
- Pressure regulator. M. G. Hubbard. 1,635,274; July 12.
- Pressure regulator. R. E. Joyce. 1,622,151; Mar. 22.
- Pressure regulator. W. F. Krichbaum. 1,615,285; Jan. 25.
- Pressure regulator. A. M. Nichols. 1,637,085; July 26.
- Pressure regulator. H. Pilling. 1,642,216; Sept. 13.
- Pressure regulator. E. C. Walker. 1,653,445; Dec. 20.
- Pressure regulator. J. M. Wilkins. 1,651,237; Nov. 29.
- Pressure regulator, Automatic. T. T. King. 1,623,842; Apr. 5.
- Pressure-regulator casing. R. J. Kehl. Des. 72,830; June 14.
- Pressure-responsive device. D. M. Reeves. 1,634,961; July 5.
- Pressure still. A. J. Sloan. 1,619,440; Mar. 1.
- Pressure switch. C. P. Eisenhauer. 1,619,465; Mar. 1.
- Pressure tempering. G. W. O. Martin. 1,613,621; Jan. 4.
- Price-card holder. A. Aquila. 1,645,640; Oct. 18.
- Price indicator. W. A. McIntyre. 1,647,877; Nov. 1.
- Price marker. J. H. Alden. 1,643,267; Sept. 20.
- Price-tag-supporting means. F. Scott. 1,641,697; Sept. 6.
- Primary battery. G. S. Engle. 1,637,991; Aug. 2.
- Prime movers, Control of. E. Crewdson. 1,637,636; Aug. 2.
- Prime movers, Controlling. F. and H. White. 1,641,943; Sept. 6.
- Prime movers, Governing mechanism for. W. L. R. Emmet. 1,620,527; Mar. 8.
- Primer. C. L. Butterfield and J. Sawdon. 1,648,258; Nov. 8.
- Primer. P. J. Regan. 1,652,731; Dec. 13.
- Primer and gas mixer, Combined. F. Kreisel. 1,616,534; Feb. 8.

- Priming and vacuum tank. S. M. Hansen. 1,640,404; Aug. 30.
- Printing mechanism. H. H. Bridge. 1,636,897; July 26.
- Printing mechanism. W. W. Laskey. 1,624,956; Apr. 19.
- Print papers, Method and means for sensitizing. J. L. Cazares. 1,626,349; Apr. 19.
- Printed fabric. W. M. Whiting. 1,622,013; Mar. 22.
- Printed form. H. O. Bonnar. 1,639,683; Aug. 23.
- Printed products, Slow-down mechanism for. E. P. Sheldon. 1,624,985; Apr. 19.
- Printer. E. J. Von Pein. 1,624,124; Apr. 12.
- Printer device, Tabulating card-. J. W. Bryce. 1,620,068; Mar. 8.
- Printer's chase for storage. E. C. Haller. 1,616,969; Feb. 8.
- Printer's composing stick. E. H. Rathbun. 1,644,033; Oct. 4.
- Printer's type, Compensating for unevenness in. L. J. and R. Gould. 1,624,594; Apr. 12.
- Printer's type, Renovating. I. Hirsch. 1,638,933; Aug. 9.
- Printing ampullæ, Machine for. A. Brand. 1,626,912; Mar. 3.
- Printing and assembling manifold books, pads, etc., Apparatus for. H. P. Brown. 1,621,189; Mar. 15.
- Printing and bronzing machine, Combined. E. R. Linebaugh. 1,641,177; Sept. 6.
- Printing apparatus. G. A. Mayer. 1,646,034; Oct. 18.
- Printing apparatus. C. L. Post. 1,623,975; Apr. 12.
- Printing apparatus. O. Sivertzen. 1,634,555; July 5.
- Printing apparatus. G. H. Walters. 1,639,789; Aug. 23.
- Printing apparatus for printing india-rubber balloons in an inflated condition. H. Grosser. 1,646,021; Oct. 18.
- Printing apparatus, Hand. A. Büchi. 1,647,967; Nov. 1.
- Printing apparatus, Transfer-. R. Weide. 1,635,297; July 12.
- Printing apparatus, Work-ejecting mechanism for. C. G. Tiefel. 1,626,649; May 3.
- Printing appliance. W. T. McGinnis. 1,651,143; Nov. 29.
- Printing art. P. P. Merrill. 1,641,772; Sept. 6.
- Printing attachment, Offset. D. Belcher. 1,653,198; Dec. 20.
- Printing attachments, Facsimile-. S. H. Plum. 1,625,908; Apr. 26.
- Printing blocks or plates, Holding device for. J. C. F. A. Schütte. 1,645,876; Oct. 18.
- Printing chase. C. Chisholm. 1,640,347; Aug. 30.
- Printing, Color. S. B. Freiberg. 1,626,522; Apr. 26.
- Printing data on racing programs, Device for automatically. R. T. Burke. 1,647,341; Nov. 1.
- Printing designs. A. S. Speer. 1,640,679; Aug. 30.
- Printing designs, Apparatus for. A. S. Speer. 1,640,678; Aug. 30.
- Printing device. R. J. Deleahanty. 1,642,016; Sept. 13.
- Printing device. J. S. Duncan. 1,613,385; Jan. 4.
- Printing device. J. S. Duncan. 1,654,040-1; Dec. 27.
- Printing device, Automatic bulb-. J. J. Higgins and R. H. Burns. 1,647,625; Nov. 1.
- Printing device having changeable form. V. H. Kline. 1,627,242; May 3.
- Printing device, Rotary. F. W. Storck. 1,629,130; May 17.
- Printing die. H. R. Wade and L. M. Harley. 1,637,094; July 26.
- Printing-die structure. R. F. Jahn. 1,623,478; Apr. 5.
- Printing, drying and embossing machine, Multicolor. F. Fischer. 1,651,928; Dec. 6.
- Printing form and producing same. E. S. Ballard. 1,643,046; Sept. 20.
- Printing form, Changeable. C. Chisholm. Re16,777; Oct. 25.
- Printing forms, Locking device for. A. J. Blazek. 1,637,069; July 26.
- Printing forms, Process and apparatus for producing continuous strip elements of. P. S. Murphy. 1,614,626; Jan. 18.
- Printing frame, Photographic. P. F. Kahler. 1,638,936; Aug. 16.
- Printing from negatives onto sensitized surfaces, Apparatus for. G. Rehn. 1,648,595; Oct. 25.
- Printing machine. F. Bridges, H. Firman, H. W. Tisdale, and B. D. W. Hoskins. 1,644,232; Oct. 4.
- Printing machine. L. M. C. A. Dubuc. 1,652,470; Dec. 13.
- Printing machine. C. T. Frantz. 1,626,401; Apr. 26.
- Printing machine. C. A. Kellogg. 1,627,182; May 3.
- Printing machine. J. J. Leary. 1,627,041; May 3.
- Printing machine. W. G. Reynolds. 1,625,959; Apr. 26.
- Printing machine. D. J. Scott. 1,641,100; Aug. 30.
- Printing machine. D. J. Scott. 1,646,114; Oct. 18.
- Printing machine. E. W. Smith. 1,645,939; Oct. 18.
- Printing machine. A. P. Trahan. 1,653,522; Dec. 20.
- Printing machine. F. W. Wright. 1,644,218; Oct. 4.
- Printing machine, Card-controlled. F. M. Carroll. 1,623,163; Apr. 5.
- Printing machine, Color or chromatic. E. Bueno. 1,650,110; Nov. 22.
- Printing machine, Fabric-. A. Crompton. 1,649,812; Nov. 22.
- Printing machine, Fabric-. G. W. Simpson. 1,612,949; Jan. 4.
- Printing machine for printing on sheets, Intaglio. H. Fischer. 1,650,839; Nov. 22.
- Printing machine, Hand-operated bulletin-. W. K. Sheffield and A. J. Horton. 1,616,927; Feb. 8.
- Printing machine, Ink fountain for. H. A. W. Wood. 1,648,209; Nov. 8.
- Printing machine, Intaglio. A. M. Zuckerman. 1,629,137; May 8.
- Printing machine, Manifold-web-. J. A. B. Smith. 1,624,685; Apr. 12.
- Printing machine, Photographic-. A. S. Howell. 1,614,241; Jan. 11.
- Printing machine, Plate-. R. K. Carson. 1,641,622; Sept. 6.
- Printing machine, Plate-. G. W. Goldsworthy. 1,649,583; Nov. 15.
- Printing machine, Rotary. J. Murray. 1,617,342; Feb. 15.
- Printing machine, Rotary. L. Ramdor. 1,616,922; Feb. 8.
- Printing machine, Rotary intaglio. W. Pickup. and J. Berry. 1,654,431; Dec. 27.
- Printing machine, Rotary intaglio. A. Weiss. 1,631,169; June 7.
- Printing machine, Rotary-intaglio. C. Winkler. 1,647,948; Nov. 1.
- Printing machine, Selective. A. L. Priestley. 1,643,008; Sept. 27.
- Printing machine, Sheet-delivery mechanism for. J. W. Jakeman. 1,639,184; Aug. 16.
- Printing machine, Textile-. J. W. Wolstenholme. 1,649,352; Nov. 15.
- Printing machine with changeable form. L. H. Morse. 1,627,663; May 10.
- Printing machinery. W. E. Molins. 1,651,097; Nov. 29.
- Printing machinery, Inking mechanism for. L. W. Claybourn. 1,627,483; May 3.
- Printing machinery, Multicolor-. S. L. Sharpless. 1,621,907; Mar. 22.
- Printing machinery, Tripping mechanism for. S. L. Sharpless. 1,626,304; Apr. 26.
- Printing machines and the like, Sheet-feeding mechanism for. A. Büttner. 1,653,839; Dec. 27.
- Printing machines, Apparatus for printing late news newspapers. E. W. Smith. 1,654,058; Dec. 27.
- Printing machines, attachment for envelope for blinder. E. G. Vallier. 1,613,918; Jan. 11.
- Printing machines, Delivery mechanism for. F. W. Wright. 1,614,940; Jan. 18.
- Printing machines, Inking device for. H. P. Elliott. 1,614,547; Jan. 18.
- Printing machines, Inking mechanism of planographic rotary. A. B. Evans. 1,654,250; Dec. 27.
- Printing machines, Mask for. F. Hammond. 1,635,618; July 12.
- Printing machines, Paper detector for. J. A. Hult. 1,625,256; Apr. 19.
- Printing machines, Paper detector for. L. H. Morse. 1,640,366; Aug. 30.
- Printing machines, Platen-controlling mechanism for. C. Chisholm, and P. M. Colquhoun. 1,647,560; Nov. 1.
- Printing machines, Sheet-delivery mechanism for. T. R. G. Parker and F. Spence. 1,651,298; Nov. 29.
- Printing machines, Sheet feeding and delivering mechanism for. C. L. Stern and A. V. Bugler. 1,617,656; Feb. 15.
- Printing machines, Sheet feeding and delivering mechanism for. C. L. Stern and A. V. Bugler. 1,647,377; Nov. 1.
- Printing machines, Sheet-feeding mechanism for rotary. C. F. Green. 1,653,958; Dec. 27.
- Printing machines, Starting and stopping device for offset. L. Horn. 1,617,713; Feb. 15.
- Printing machines, Web guide for rotary. L. A. Schmidt. 1,613,960; Jan. 11.
- Printing machines, Web-guiding mechanism for. J. J. Halliwell. 1,640,355; Aug. 30.
- Printing, Making plates for multicolor. F. Libby. 1,642,451; Sept. 13.
- Printing mechanism. H. Theilgaard. 1,628,078; May 10.
- Printing member. P. P. Merrill. 1,349,539; Nov. 15.
- Printing numbers. M. L. Parsons. 1,650,535; Nov. 22.
- Printing of impressions on impression-cylinder packings, Device for eliminating the. F. J. Albert. 1,645,469; Oct. 11.
- Printing on lamp bulbs, Inking device for obtaining uniform. M. N. Freidenburgh. 1,645,045; Oct. 11.
- Printing plate and mold therefor, Making late-news. H. A. W. Wood. 1,636,346; July 19.
- Printing plate and producing the same, Photocollographic. M. deSperati. 1,625,714; Apr. 19.
- Printing plate and production thereof. F. Fischer. 1,639,171; Aug. 16.
- Printing plate and the like. J. Krell. 1,616,089; Feb. 1.
- Printing, Plate cylinder for rotary intaglio. C. Winkler. 1,643,145; Sept. 20.
- Printing-plate holder and clamp. W. F. Brüggmann. 1,619,650; Mar. 1.
- Printing plates, Apparatus for curving. A. Halstead, Jr. 1,637,747; Aug. 2.
- Printing plates, Casting and finishing machine for curved stereotype. H. A. W. Wood. 1,627,817; May 10.
- Printing plates, Clamping device for. S. W. Marvin. 1,628,384; May 10.
- Printing plates, Machine for bending. C. N. Smith. 1,640,582; Aug. 30.
- Printing plates, Machine for correcting. E. Ericksson. 1,617,203; Feb. 8.

- Printing plates, Machine for finishing tubular. H. A. W. Wood, 1,648,208; Nov. 8.
- Printing plates, Machine for grooving. C. A. Ericson. 1,616,256; Feb. 1.
- Printing plates, Preparing. H. H. Powers. 1,651,906; Dec. 6.
- Printing plates, Producing multicolor. B. F. Hutchison. 1,614,925; Jan. 15.
- Printing plates, such as electrotypes and stereotype plates, Machine for heating and bending metallic. C. N. Smith. 1,640,580-1; Aug. 30.
- Printing plates such as stereotype and electrotypes plates, Machine for bending metallic. C. N. Smith. 1,620,041; Mar. 8.
- Printing press. R. Adams. 1,633,564; June 28.
- Printing press. J. R. Blaine. 1,630,252; May 31.
- Printing press. M. W. Brueshaber. 1,633,691; June 28.
- Printing press. M. W. Brueshaber. 1,640,976-7; Aug. 30.
- Printing press. G. F. Bryant. 1,628,109; May 10.
- Printing press. W. M. Kelly. 1,651,774; Dec. 6.
- Printing press. W. M. Kelly. 1,654,128; Dec. 27.
- Printing press. R. R. McCormick. 1,636,917; July 26.
- Printing press. L. H. Morse. 1,638,543-4; Aug. 9.
- Printing press. R. S. Murphy. 1,633,600; June 28.
- Printing press. Y. L. Reeve. 1,630,905; May 31.
- Printing press. J. G. Schick. 1,630,583; May 31.
- Printing press. H. J. Schultz. 1,617,608; Feb. 15.
- Printing-press attachment. H. A. Agricola, Jr. 1,647,388; Nov. 1.
- Printing press, Automatic. A. J. Shickman. W. A. Thum, and W. L. Dempsey. 1,625,569; Apr. 19.
- Printing-press chase. A. M. McMillan. 1,624,751; Apr. 12.
- Printing-press cylinder for enabling the printing, impression, or offset surfaces to be adjusted. J. Shuttleworth. 1,651,295; Nov. 25.
- Printing-press inking mechanism. W. Evensen. 1,646,057; Oct. 18.
- Printing press, Letter-. T. C. Spelling. 1,613,417; Jan. 4.
- Printing press, Multicolor rotary offset-. O. Wohlraue. 1,635,289; July 12.
- Printing press, Platen. G. F. Rabus. 1,633,127; Aug. 9.
- Printing press, Platen. A. Büttner. 1,633,838; Dec. 27.
- Printing press, Platen. C. H. Cochrane. 1,642,841; Sept. 20.
- Printing press, Platen. P. Wiegardt. 1,628,816; May 17.
- Printing-press-register-guide mechanism. A. G. Jacobson. 1,618,202; Feb. 22.
- Printing press, Rotary. W. E. Oliver. 1,624,062; Apr. 12.
- Printing press, Rotary-web offset. Benjamin J. J. Goulding. 1,616,083; Feb. 1.
- Printing press, Three-color intaglio rotary. C. Schünemann. 1,637,713; Aug. 2.
- Printing press, Two-revolution. O. Finkhaus. 1,647,285; Nov. 1.
- Printing press, Two-revolution fast. W. Kolmer and E. Wirsching. 1,650,282; Nov. 22.
- Printing presses, Adjustable roller track for Gordon. B. J. Frackleton and F. C. Sixt. 1,619,018; Mar. 1.
- Printing presses and the like, Automatic throwout mechanism for. C. E. Christophel. 1,620,800; Mar. 15.
- Printing presses, Antioffset mechanism for. R. J. Greenway. 1,638,572-6; Aug. 9.
- Printing presses, Attachment for. W. D. Barnes. 1,626,444; Apr. 26.
- Printing presses, Automatic inking fountain for. A. L. Lengel. 1,633,338; June 21.
- Printing presses, Control system for. E. W. Seeger. 1,625,225; Apr. 19.
- Printing presses, Cutting and feeding attachment for. H. M. Barber. 1,654,205; Dec. 27.
- Printing presses, Cylinder for. N. C. Andersen. 1,626,592; May 3.
- Printing presses, Driving mechanism for. H. M. Barber. 1,637,848; Aug. 2.
- Printing presses, Feeding attachment for. D. Belcher. 1,620,863; Mar. 15.
- Printing presses, Feeding attachment for. D. Belcher. 1,653,199; Dec. 20.
- Printing presses, Fluid-pressure web controller for. A. J. Cline and J. A. Hollander. 1,636,957; July 26.
- Printing presses, Gas heater for. F. X. Smith. 1,636,790; July 26.
- Printing presses, Gripper block for. R. P. Knox. 1,642,157; Sept. 13.
- Printing presses, Heating roll for. B. F. McLaughlin and J. Loftus. 1,633,451; June 21.
- Printing presses, Ink fountain for. W. H. Granger. 1,642,809; Sept. 20.
- Printing presses, Ink fountain for. R. S. Tyler. 1,613,255; Jan. 4.
- Printing presses, Inking mechanism for. H. F. Bechman. 1,643,799; Sept. 27.
- Printing presses, Inking mechanism for. H. McGeorge. 1,654,301; Dec. 27.
- Printing presses, Perforating attachment for. P. Hemberger. 1,618,191; Feb. 22.
- Printing presses, Plate-clamping mechanism for. H. M. Barber. 1,646,721; Oct. 25.
- Printing presses, Plate-clamping mechanism for. W. Evensen. 1,637,690; Aug. 2.
- Printing presses, Plate holder for. W. C. Fellows. 1,635,810; June 28.
- Printing presses, Platen release for. H. C. Osborn. 1,635,506; Aug. 9.
- Printing presses, Preventing undue tension in multicolor perfecting. H. M. Barber. 1,614,177; Jan. 11.
- Printing presses, Printed sheet delivery attachment for. F. J. Wermes. 1,628,292; May 10.
- Printing presses, Roller inking apparatus for fast. W. Kolmer and E. Wirsching. 1,650,283; Nov. 22.
- Printing presses, Safety device for flat-bed. F. Colquhoun. 1,635,565; Aug. 9.
- Printing presses, Sheet-delivering device for. A. Fallot. 1,646,529; Oct. 25.
- Printing presses, Signature-delivery mechanism for. H. M. Barber. 1,645,176; Oct. 11.
- Printing presses, Solenoid web controller for. A. J. Cline and J. A. Hollander. 1,636,988; July 26.
- Printing presses, Static neutralizer for. W. M. Carmichael. 1,619,968; Mar. 8.
- Printing presses, Web-slack preventer for multicolor perfecting. J. M. Barber. 1,614,178; Jan. 11.
- Printing presses, Web-tension equipment for. A. J. Cline and J. A. Hollander. 1,618,975; Mar. 1.
- Printing process and machine, Blanket-. W. E. Caffray. 1,626,595; May 3.
- Printing process, Numerical-. E. Z. Hart. 1,653,765; Dec. 27.
- Printing raised figures and the like. C. H. Allen. 1,641,143; Sept. 6.
- Printing roller. W. C. Hart. 1,642,068; Sept. 13.
- Printing sheet, Flexible. E. Lichtenstein. 1,644,597; Jan. 4.
- Printing slug, Composition. A. R. Goldrick. 1,613,094; Jan. 4.
- Printing slugs and the like, Clamping means for. C. L. Post. 1,623,974; Apr. 12.
- Printing-strip mounting. J. W. Macklin. 1,649,606; Nov. 15.
- Printing strips from holders. Apparatus for removing. W. J. Demming. 1,644,773; Oct. 11.
- Printing-telegraph exchange system. D. B. Perry. 1,637,324; July 26.
- Printing telegraph system. G. S. Vernam and D. B. Perry. 1,642,048; Sept. 13.
- Printing telegraphy. E. E. Kleinschmidt. 1,620,664; Mar. 15.
- Printing upon tin and the like, Plate for. M. J. Pickett. 1,621,952; Mar. 22.
- Printing device for producing offset. H. Bielefeldt. 1,643,571; Sept. 27.
- Procedure and contrivance for firmly attaching a metal case with a nipple adjusted in the same. R. Vontobel. 1,652,073; Dec. 6.
- Process work and the like, Device for. O. Von Gruber. 1,650,648; Dec. 6.
- Processing machine. J. L. Coyle. 1,637,686; Aug. 2.
- Producer with cooling water jacket. F. Gerhard and E. Schumacher. 1,618,079; Feb. 15.
- Product obtained from molasses and preparing same. W. H. Dickerson. 1,631,232; June 7.
- Production meter. P. A. Cooney. 1,646,028; Feb. 1.
- Products from aromatic amines and sulphur chloride, Manufacture of. J. V. Meigs. 1,631,280; June 7.
- Program transmission, Subscriber's equipment for. J. F. Toomey. 1,628,695; May 17.
- Projectiles, Fuse for. B. Pantoflíček. 1,614,536; Jan. 18.
- Projectiles, Time fuse for. O. Boden. 1,642,837; Sept. 20.
- Projectiles, Universal system of identification markings for. S. Wiley. 1,632,156; June 14.
- Projecting apparatus. C. B. Holman and E. L. Ege. 1,644,751; Oct. 11.
- Projecting apparatus. J. A. Perrault and H. Lubé. 1,627,114; May 3.
- Projecting apparatus. J. Proksa. 1,621,599; Mar. 22.
- Projecting machine. O. Antonelli. 1,627,134; May 3.
- Projecting machine. O. P. R. Lehmann. 1,627,396; May 3.
- Projecting machine. E. E. Lehwess. 1,624,669; Apr. 12.
- Projecting machine, Image-. W. E. Schwanhauser. 1,650,657; Nov. 29.
- Projection apparatus. W. L. Patterson. 1,636,647; July 19.
- Projection objective. C. W. Frederick and D. L. Wood. 1,620,339; Mar. 8.
- Projection screen. A. L. Macbeth. 1,623,414; May 10.
- Projection screen, Portable. L. A. Jones. 1,627,906; May 10.
- Projection system. C. W. Frederick. 1,620,338; Mar. 8.
- Projector. S. L. Leiby. 1,645,063; Oct. 11.
- Projector. H. Junkers. 1,645,811; Oct. 18.
- Projector. L. Mann. 1,645,108; Oct. 11.
- Projector, compositions, Defensive and offensive. J. A. Prentice. 1,643,954; Oct. 4.
- Projector, Light. F. A. Benford. 1,629,333; May 17.
- Projector, Light. P. F. Pfeil. 1,645,721; Oct. 18.
- Projector lights, Relieving the glare from. H. A. Radford. 1,637,622; Aug. 2.
- Propellant powder and making same. A. S. O'Neil. 1,627,861-2; May 10.
- Propelled implement, Tractor-. G. D. Jones. 1,644,855; Oct. 11.
- Propeller. J. Barton. 1,634,393; July 5.
- Propeller. J. A. Blondin. 1,642,803; Sept. 20.
- Propeller. J. J. Callahan. 1,614,872; Jan. 18.

- Propeller. A. Harper and S. A. Harper. 1,634,616; July 5.
- Propeller. R. B. Hicklin. 1,616,123; Feb. 1.
- Propeller. C. A. Honkanen. 1,632,292; June 14.
- Propeller. W. H. Leinweber. 1,623,420; Apr. 5.
- Propeller. H. Malm. 1,634,329-30; July 5.
- Propeller. C. O. Marshall. 1,622,835; Mar. 29.
- Propeller. W. W. Paget. 1,626,424; Apr. 26.
- Propeller. E. B. Schumaker. 1,651,230; Nov. 29.
- Propeller. B. U. Sepulveda. 1,639,755; Aug. 28.
- Propeller. H. G. Stanton. 1,635,966; July 12.
- Propeller. W. Stellner. 1,622,472; Mar. 29.
- Propeller. M. D. Thompson. 1,626,055; Apr. 26.
- Propeller, Aeronautical. S. A. Reed. 1,650,464; Nov. 22.
- Propeller, Aeronautical. S. A. Reed. 1,651,152; Nov. 29.
- Propeller, Air. A. E. Short, H. O. Short, and A. Gouge. 1,633,612; June 28.
- Propeller and motor, Turbine-wheel. C. B. Strandgren. 1,639,908; Aug. 23.
- Propeller and ventilator, Water-craft. J. W. Sweeney. 1,650,915; Nov. 29.
- Propeller-blade mounting. S. Heath. 1,620,968; Mar. 15.
- Propeller case. C. S. Egbert. 1,622,137; Mar. 22.
- Propeller guard. G. Peterson. 1,620,129; Mar. 8.
- Propeller hub. F. W. Caldwell. 1,658,943; Dec. 27.
- Propeller, Marine. J. Fischer. 1,623,868; Apr. 5.
- Propeller, Metal. J. Haw. 1,635,840; July 12.
- Propeller mounting. R. Chilton. 1,653,341; Dec. 20.
- Propeller mounting. A. Nutt. 1,632,913; June 21.
- Propeller, Planetary, gear-controlled. A. Langenbach. 1,636,423; July 19.
- Propeller, Reaction vacuum. F. Travnicek. 1,643,862; Sept. 27.
- Propeller release, Gravity. W. S. King. 1,646,204; Oct. 18.
- Propeller, Reversible. W. Niedergesaeuss. 1,633,824; June 28.
- Propeller, Reversible aeroplane. J. A. Williams. 1,650,477; Nov. 22.
- Propeller, Screw. H. Leitner. 1,638,695; Aug. 9.
- Propeller shaft. C. E. Swenson. 1,627,936; May 10.
- Propeller, Vacuum. F. Travnicek. 1,638,071; Aug. 9.
- Propeller, Wood-vener. N. S. Clay. 1,618,968; Mar. 1.
- Propellers, Manufacture of screw. H. Leitner. 1,637,224; July 26.
- Propelling and steering apparatus, Combined. J. J. 1,643,314; Sept. 27.
- Propelling device. J. F. Lyon. 1,644,259; Oct. 4.
- Propelling device, Boat. O. Lewetzkil. 1,633,897; June 28.
- Propelling means. R. Tanner. Re16,573; Mar. 15.
- Propelling mechanism. H. B. Maksabedian. 1,617,261; Feb. 8.
- Propelling mechanism, Boat. J. Baker. 1,643,535; Sept. 27.
- Propelling mechanism for air navigators. A. Chiarelli. 1,638,726; Aug. 9.
- Propelling screen, Division-head. W. F. McMahon. 1,642,122; Sept. 13.
- Propellers, Tip for. N. S. Clay. 1,641,186; Jan. 11.
- Proportional dividers. W. F. Sprout. 1,626,980; May 3.
- Propulsion apparatus. J. O. Cooke. 1,618,574; Feb. 22.
- Prostate applicator. C. C. Pierce. 1,652,954; Dec. 13.
- Protecting the human ears, Device for. J. P. Winn. 1,641,214; Sept. 6.
- Protective coating. C. H. Franks. 1,633,576; June 28.
- Protective device. E. E. F. Creighton. 1,651,872; Dec. 6.
- Protective device. L. R. Golladay. 1,642,241; Sept. 13.
- Protective device. G. Graf. 1,624,728; Apr. 12.
- Protective device. C. H. Hodgkins. 1,652,527; Dec. 13.
- Protective device. B. E. Shackelford and W. H. T. Holden. 1,653,375; Dec. 20.
- Protective device. O. C. Traver. 1,637,032; July 26.
- Protective device. G. P. Wennemer. 1,632,050; June 14.
- Protective device for boxers. M. Golomb. 1,627,382; May 3.
- Protective device, Overload. J. H. Ashbaugh. 1,638,819; Aug. 16.
- Protective system. W. Brückel. 1,652,974; Dec. 13.
- Protective system. F. H. Penney. 1,622,539; Mar. 29.
- Protective system. C. P. Steinmetz. 1,646,265; Oct. 18.
- Protective system. R. Willhelm. 1,632,573; June 14.
- Protector. E. J. Gilbert. 1,622,639; Mar. 29.
- Protector. L. Stuart. 1,620,743; Mar. 15.
- Protector. J. T. Turner. 1,637,974; Aug. 2.
- Protector or automobile wash apron. L. P. Blakey. 1,646,524; Oct. 25.
- Protein product, Producing an edible. J. W. M. Bunker. 1,624,086; Apr. 12.
- Protractor. C. B. Galvin. 1,637,933; Aug. 2.
- Protractor and using same. G. M. Nava. 1,628,206; May 10.
- Protractor, Engineer's. D. C. Lopez. 1,632,613; June 14.
- Proving ring. H. L. Whittemore and S. N. Petrenko. 1,648,375; Nov. 8.
- Pruning implement. W. T. Long. 1,650,948; Nov. 29.
- Pruning implement. L. Williams. 1,640,168; Aug. 23.
- Pruning shears. H. W. Atkins. 1,640,635; Aug. 30.
- Pruning shears. O. E. Enell. 1,648,984; Nov. 15.
- Pruning shears. N. C. Perrakis. 1,634,848; July 5.
- Psychrometer, Portable. J. Armstrong. 1,636,350; July 10.
- Public-address system. B. S. McCutchen. 1,642,040; Sept. 13.
- Pudding and the like, Making fruit. A. Newman. 1,648,359; Nov. 8.
- Puddle plug. H. W. Klineck. 1,623,843; Apr. 5.
- Puff iron. H. C. Holden. 1,634,608; July 5.
- Pugging wet pan, Continuous. H. R. Straight. 1,623,287; Apr. 5.
- Puller: See—
- Auto wheel puller. Key puller.
 - Battery-plate puller. Line puller.
 - Bearing puller. Liner puller.
 - Beet puller. Locomotive-cellar-box puller.
 - Book puller. er.
 - Cable puller. Perch puller.
 - Casing puller. Pinion puller.
 - Combination puller. Rod puller.
 - Cotter-pin puller. Terminal puller.
 - Drive-shaft puller. Valve puller.
 - Fish-tape puller. Wheel seat puller.
 - Fuse puller. Wheel puller.
 - Gear puller.
- Pulley. W. A. Schmitt. 1,650,964; Nov. 29.
- Pulley. E. M. Adams. 1,644,164; Oct. 4.
- Pulley. N. Berg. 1,628,220; May 10.
- Pulley. B. B. Boyce. 1,648,933; Nov. 15.
- Pulley. W. A. Coventry. 1,634,773; July 5.
- Pulley. P. Culhane. 1,639,489-90; Aug. 16.
- Pulley. A. M. Flory. 1,618,074; Feb. 15.
- Pulley. W. T. Hensley. 1,639,498-9; Aug. 16.
- Pulley. W. T. Hensley. 1,639,503-5; Aug. 16.
- Pulley. J. H. Lillon. 1,625,640; Apr. 19.
- Pulley. T. Olinger and F. G. Brendel. 1,627,572; May 10.
- Pulley. A. A. Serva. 1,632,512; June 14.
- Pulley. C. C. Spreen. 1,634,433; July 5.
- Pulley. C. W. Taylor. 1,636,492; July 19.
- Pulley and ball thrust bearing. J. F. Livingood. 1,649,712; Nov. 15.
- Pulley and the like, Split. E. Hamilton. 1,640,692; Oct. 25.
- Pulley block. A. V. Baker. 1,636,273; July 19.
- Pulley block. W. G. Shedenhelm. 1,639,439; Aug. 16.
- Pulley-block hanger, Adjustable. H. Murray. 1,626,861; May 8.
- Pulley, Clothesline. A. J. Whelan. 1,633,506; June 21.
- Pulley construction. G. O. Rockwood. 1,613,905; Jan. 11.
- Pulley, Expansion. R. H. Garver. 1,634,255; July 5.
- Pulley, Expansion. F. H. Steeper. 1,626,701; May 3.
- Pulley, Fan-belt. H. B. Hull. 1,637,773; Aug. 2.
- Pulley, Friction-clutch. A. L. Preimesberger. 1,635,192; July 12.
- Pulley, Jerk-line break-out. R. D. Hill. 1,629,662; May 24.
- Pulley, Line. A. W. Taylor. 1,635,145; July 5.
- Pulley or the like, Expandible. W. A. Kosken. 1,626,240; Apr. 26.
- Pulley, Safety. A. G. Steinnmayer. 1,640,624; Aug. 30.
- Pulley, Sash. C. E. McCall. 1,637,287; July 26.
- Pulley, Sash-weight. E. S. and P. M. Reiland. Re16 594; Apr. 19.
- Pulley, Sash-weight. E. S. Reiland and P. M. Reiland. 1,629,270; Oct. 4.
- Pulley, Self-oiling. W. Edwards. 1,618,123; Feb. 15.
- Pulley, Sheet-metal. N. Barry. 1,613,433; Jan. 4.
- Pulley, Split. W. T. Hensley. 1,639,500; Aug. 16.
- Pulley Split. W. T. Hensley. 1,639,502; Aug. 16.
- Pulley, Split. L. Rouanet. 1,643,611; Sept. 27.
- Pulley, Split. L. Rouanet. 1,649,978; Nov. 22.
- Pulley, Universal. T. Crawford. 1,628,491; May 10.
- Pulley, Variable-speed. F. C. Largent. 1,643,124; Sept. 20.
- Pulley wheel. A. Anderson. 1,638,720; Aug. 9.
- Pulley, Window-shade. Z. H. Williams. 1,613,071; Jan. 4.
- Pulleys and the like, Hub for split. H. J. Gilbert. 1,629,498; May 24.
- Pulleys, Belt shifter and safety guard for cone. J. F. Van Patton. 1,650,403; Nov. 22.
- Pulleys, Belt shifter for stepped. M. J. Fleming. 1,630,981; May 31.
- Pulleys, Guard for. H. F. Jones. 1,629,709; May 24.
- Pulleys, Lifting device for. L. Shaub and O. I. Farrington. 1,622,680; Mar. 29.
- Pulleys, Making. W. T. Hensley. 1,639,501; Aug. 16.
- Pulling machines, Weight elevator for. L. Chamberlain. 1,628,114; Apr. 26.
- Pulling tool. W. J. Barnett. 1,622,218; Mar. 22.
- Pulpmotor. H. J. Ferris. 1,614,111; Jan. 11.
- Pulp and paper Manufacture. O. L. Bradley and E. P. McKee. 1,651,665; Dec. 6.
- Pulp, Apparatus for and method of screening. J. W. Stevens. 1,629,812; May 24.
- Pulp, Apparatus for molding articles from. B. R. Williamson. 1,634,128; June 28.
- Pulp, Apparatus for treating. C. H. Allen. 1,633,553; June 21.
- Pulp-cooking apparatus. C. H. Allen. 1,633,554; June 21.
- Pulp, Dewatering apparatus for. J. Stephanson. 1,650,100; Nov. 22.
- Pulp digesters, Charging. E. Olsson. 1,653,307; Dec. 20.
- Pulp fiber. F. K. Fish, Jr. 1,633,738; June 28.
- Pulp fiber, Manufacturing hollow bodies from. P. E. Winnertz. 1,621,147; Mar. 15.

- Pulp for the manufacture of paper and cellulose therefrom, Apparatus for hydrating fibrous. H. Jackson. 1,652,720; Dec. 18.
- Pulp-forming machine. C. J. Keenan, E. P. Kennedy, and G. H. Kirsch. 1,621,671; Mar. 22.
- Pulp-forming press. E. Hutchens. 1,623,731; Apr. 5.
- Pulp, Freshness tester for. W. B. Campbell. 1,627,010; May 8.
- Pulp from fibrous material, Process and apparatus for making. F. K. Fish, jr. 1,632,467; June 14.
- Pulp from fibrous material, Process and apparatus for making. F. K. Fish, jr. 1,633,732; June 28.
- Pulp from fibrous material, Process and apparatus for making. F. K. Fish, jr. 1,633,735; June 28.
- Pulp from printed waste paper, Recovery of. E. T. McGregor. 1,640,612; Aug. 30.
- Pulp grinders, Regulator system for. W. M. Bradshaw and W. G. Mylius. 1,624,444; Mar. 29.
- Pulp having a high percentage of resistant cellulose, Producing. G. A. Richter. 1,640,853; Aug. 30.
- Pulp, Improving the color of. F. G. Rawling. 1,630,635; May 31.
- Pulp, Manufacture of paper. J. B. Beveridge. 1,631,789; June 7.
- Pulp, Method and apparatus for mixing. W. E. Rosebush. 1,631,762; June 7.
- Pulp-molding apparatus. F. Louisset. 1,616,226; Feb. 1.
- Pulp-molding machine. F. Foy. 1,621,401; Mar. 15.
- Pulp-molding machine. F. Louisset. 1,621,593; Mar. 22.
- Pulp of high strength, Producing white. G. A. Richter. 1,635,637; July 12.
- Pulp press. A. Wurdack. 1,651,500; Dec. 6.
- Pulp-pressing head. R. E. Hall. 1,623,111; Apr. 5.
- Pulp-refining and viscose process, Interrelated. G. A. Richter. 1,653,124; Dec. 20.
- Pulp, Rotary screen for paper. R. S. Clarke. 1,635,258; July 12.
- Pulp screen. J. A. Dickinson. 1,639,797; Aug. 23.
- Pulp suspensions, Method of and mechanism for testing. M. O. Schur. 1,653,125; Dec. 20.
- Pulp thickener. E. W. Oliver. 1,644,854; Oct. 11.
- Pulp tubes or the like, Apparatus for handling. H. Parker. 1,640,133; Aug. 23.
- Pulp-web cutter. W. A. Kelly. 1,625,472; Apr. 19.
- Pulpous material, Machine for forming sheets of. J. S. Little. 1,615,891; Jan. 25.
- Pulpous material, Mechanism for working. A. P. Gerhardt. 1,615,374; Jan. 25.
- Pulpous material, Mechanism for working. H. W. Jespersen. 1,633,181; June 21.
- Pulpous material, Mechanism for working. H. G. Walker and A. T. March. 1,615,426; Jan. 25.
- Pulps, Treatment of. A. L. Blomfield and E. B. Ramsey. 1,619,807; Mar. 8.
- Pulsation compensated meter. C. A. Dawley. 1,621,354; Mar. 15.
- Pulsator, Electric. A. B. Arney. 1,641,368; Sept. 6.
- Pulsator. J. A. Schmitt. 1,647,971; Mar. 26.
- Pulverizer. T. J. Barnes. 1,637,098; July 19.
- Pulverizer. C. E. Brainard. 1,642,139; Sept. 23.
- Pulverizer. R. L. Cawood. 1,643,874; Sept. 27.
- Pulverizer. H. A. Kimber. 1,646,752; Oct. 25.
- Pulverizer. C. M. Stoner. 1,648,747; Nov. 8.
- Pulverizer. A. Wickland. 1,623,295; May 10.
- Pulverizer. H. E. Witz. 1,621,571; Mar. 22.
- Pulverizer and burner. Coal. T. E. Murray and J. H. Lawrence. 1,614,314; Jan. 11.
- Pulverizer beater. J. H. Jones. 1,621,256; Mar. 15.
- Pulverizer, Centrifugal impact. F. E. Agnew. 1,635,453; July 12.
- Pulverizer, Centrifugal impact. F. E. Agnew. 1,636,035; July 19.
- Pulverizer, Coal. A. A. Wickland. 1,628,294; May 10.
- Pulverizer, Double-roller. H. S. Dickinson. 1,650,891; Nov. 29.
- Pulverizer, Farm. J. A. Eastes. 1,628,874; May 17.
- Pulverizer, Impact. A. B. Willoughby. 1,622,695; Mar. 29.
- Pulverizer, Rotary. W. H. Hartman. 1,647,730; Nov. 1.
- Pulverizer, Soil. J. Parker. 1,621,739; Mar. 22.
- Pulverizers, Shaker and cutter tips for. L. L. Hiller. 1,618,826; Feb. 22.
- Pulverizing and mulching attachment. J. J. McCarthy. 1,616,590; Feb. 8.
- Pulverizing and separating machinery. J. C. Carline. 1,651,372; Dec. 6.
- Pulverizing apparatus. L. V. Andrews. 1,640,720; Oct. 25.
- Pulverizing apparatus. W. J. A. London. 1,641,445; Sept. 6.
- Pulverizing machine. W. K. Cruickshank. 1,633,164; June 21.
- Pulverizing machine. P. A. Hirsch. 1,636,693; July 26.
- Pulverizing machine. W. K. Liggett. 1,621,938; Mar. 22.
- Pulverizing machine. W. K. Liggett. 1,625,553-4; Apr. 19.
- Pulverizing machine. A. M. Read. 1,614,899; Jan. 18.
- Pulverizing machine, Coal. C. E. Blyth. 1,649,148; Nov. 15.
- Pulverizing or grinding mill. B. Scherbaum. 1,653,472; Dec. 20.
- Pulverulent materials, Method of and apparatus for transporting. W. O. Snelling and G. A. Rupp. 1,652,960; Dec. 13.
- Pump. R. W. Allerton. 1,618,072; Feb. 1.
- Pump. D. H. Barnwell. 1,641,613; Sept. 6.
- Pump. R. Borietti. 1,634,867; July 5.
- Pump. F. E. Brady, jr. 1,652,659; Dec. 13.
- Pump. S. C. Brady. 1,626,072; Apr. 26.
- Pump. G. A. Brown and F. G. Denison. 1,624,209; Apr. 12.
- Pump. W. Burks. 1,619,285-6; Mar. 1.
- Pump. C. E. Burns. 1,626,181; Apr. 28.
- Pump. C. I. Chambers. 1,635,148; July 5.
- Pump. T. D. Cleage, W. S. Smith, and J. R. Murray. 1,630,256; May 31.
- Pump. C. M. Davison. 1,634,023; June 28.
- Pump. E. Dunning. 1,652,565; Dec. 13.
- Pump. C. P. Eisenbauer. 1,651,682; Dec. 6.
- Pump. H. Ford. 1,631,316; June 7.
- Pump. V. L. and R. F. Foraway. 1,621,978; Mar. 22.
- Pump. W. H. Furness. 1,646,615; Oct. 25.
- Pump. L. E. Green. 1,615,335; Feb. 22.
- Pump. A. Hardt. 1,649,347; Nov. 15.
- Pump. J. H. Hill. 1,648,400; Nov. 8.
- Pump. F. D. Hoffman. 1,612,817; Jan. 4.
- Pump. F. D. Hoffman. 1,618,337; Feb. 22.
- Pump. R. E. L. Holmes. 1,635,786; July 12.
- Pump. R. E. L. Holmes. 1,635,846; July 12.
- Pump. J. S. Hunter. 1,637,942; Aug. 3.
- Pump. S. Larson. 1,632,029; June 14.
- Pump. G. W. Leiman. 1,624,607; Apr. 12.
- Pump. P. J. Leithausen. 1,617,553; Feb. 15.
- Pump. M. Louis. 1,649,356; Nov. 15.
- Pump. J. MacPherson. 1,639,773; Aug. 23.
- Pump. J. Mills. 1,619,149; Mar. 1.
- Pump. J. A. Morgan. 1,636,882; July 26.
- Pump. J. A. Morgan. 1,652,317; Dec. 13.
- Pump. J. O. Nash. 1,639,956; Aug. 23.
- Pump. J. D. Nixon and G. R. Livergood. 1,620,222; Mar. 1.
- Pump. W. Oliver. 1,635,006; July 5.
- Pump. P. A. Petterson. 1,652,323; Dec. 13.
- Pump. L. B. Post, S. V. Lyon, and L. Blumenfeld. 1,641,501; Sept. 6.
- Pump. T. J. Potter. 1,625,153; Apr. 19.
- Pump. W. Price and R. M. Leake. 1,623,268; Apr. 5.
- Pump. M. J. Quinn. 1,625,500; Apr. 19.
- Pump. J. S. Ragar. 1,615,484; Jan. 25.
- Pump. E. Rainer. 1,614,389; Jan. 11.
- Pump. A. Rey. 1,624,363; Apr. 12.
- Pump. E. F. Ross. 1,644,403; Oct. 4.
- Pump. W. J. Rudolph. 1,625,099; Apr. 19.
- Pump. P. S. Russell and D. M. Boyd. 1,629,121; May 17.
- Pump. W. J. Smith. 1,626,484; Apr. 26.
- Pump. U. C. Tainton. 1,623,605; Apr. 5.
- Pump. W. H. Thompson. 1,628,340; May 10.
- Pump. A. E. Thornley. 1,636,878; July 26.
- Pump. H. S. Tooker. 1,619,025; Mar. 1.
- Pump. H. Wallace. 1,640,741; Aug. 30.
- Pump. H. Wallace and J. H. Hunt. 1,640,742; Aug. 30.
- Pump. G. J. Welter. 1,641,717; Sept. 6.
- Pump. C. I. Whipple. 1,624,702; Apr. 12.
- Pump. T. C. Whitehead. 1,634,811; July 5.
- Pump. T. C. Whitehead. 1,638,265; July 19.
- Pump. I. H. Wilsey. 1,633,720; June 28.
- Pump-actuating mechanism. J. E. Shutt. 1,647,024; Oct. 25.
- Pump, Air. L. Holsinger. 1,649,530; Nov. 15.
- Pump, Air. H. Leo. 1,622,878; Mar. 29.
- Pump, Air. J. W. Loy. 1,625,417; Apr. 19.
- Pump, Air. W. J. Rudolph. 1,625,097; Apr. 19.
- Pump, Air. H. J. Wepplo. 1,613,338; Jan. 4.
- Pump, Air. H. J. Wepplo. 1,623,647; Apr. 5.
- Pump, Air-lift. J. Oliphant. 1,653,189; Dec. 20.
- Pump, Air-lift. R. H. Tucker. 1,614,765; Jan. 18.
- Pump and barrel attachment. R. Metcalf and F. Marshall. 1,613,898; Jan. 11.
- Pump and can opener, Combined. R. A. Thornton. 1,632,933; June 21.
- Pump and compressor, Centrifugal. S. A. Moss and M. G. Robinson. 1,617,133; Feb. 8.
- Pump and ejector, Combined force-fed. D. A. Hill. 1,615,350; Jan. 25.
- Pump and forced-feed oiling system, Vacuum. F. Gahm. 1,648,393; Nov. 8.
- Pump and indicator, Draft-actuated circulating. A. Moses. 1,622,662; Mar. 29.
- Pump and internal-combustion engine therefor. W. S. Franklin. 1,623,402; Apr. 5.
- Pump and making same, Composition for use in making sulphate or kraft. H. B. Kipper. 1,629,393; May 17.
- Pump and motor of the swash-plate type, Hydraulic. M. K. Ingoldby. 1,612,925; Jan. 4.
- Pump and motor, Rotary. C. H. Kain. 1,623,924; Apr. 5.
- Pump and power plant, Vacuum. E. and F. W. H. Bond. 1,626,070; Apr. 26.
- Pump and system, Hydraulic. E. B. Galbreath. 1,623,239; Apr. 5.
- Pump, Antisubstitute liquid-dispensing. R. L. White. 1,633,355; June 21.
- Pump attachment. F. R. Dudley. 1,617,017; Feb. 8.
- Pump attachment, Automatic. C. F. De Corse. 1,648,799; Nov. 8.
- Pump attachment, Self-service gasoline. G. W. Keck. 1,622,408; Dec. 13.
- Pump, Automatic hydraulic. L. Stanworth. 1,615,566; Jan. 25.

- Pump, Automatic oil. J. C. Palmer. 1,635,220; July 12.
- Pump, Automobile. A. L. and W. H. Welsch. 1,630,150; May 24.
- Pump, Butcher's. N. Weiler. 1,628,866; May 17.
- Pump, Blade. A. Maillefer. 1,619,429; Mar. 1.
- Pump, Breather. C. Danna. 1,627,377; May 3.
- Pump casing. C. P. Eisenbauer. Dec. 71,901; Feb. 8.
- Pump casing, Liquid-dispensing. W. S. Townsend. Dec. 73,881; Nov. 15.
- Pump, Centrifugal. C. F. Ames. 1,623,082; Apr. 5.
- Pump, Centrifugal. H. A. F. Borneman. 1,640,591; Aug. 30.
- Pump, Centrifugal. A. C. Durdin, Jr. 1,645,498; Oct. 11.
- Pump, Centrifugal. R. H. Frederick. 1,623,104; Apr. 5.
- Pump, Centrifugal. J. H. Johnston. 1,650,522; July 22.
- Pump, Centrifugal. V. Schleyer. 1,634,304; July 5.
- Pump, Centrifugal vacuum. K. G. Sommer. 1,622,355; Mar. 29.
- Pump, Circulating. E. M. Pfau. 1,619,539; Mar. 1.
- Pump, Circulating plunger. C. S. Boden. 1,614,865; Jan. 18.
- Pump, Coin-operated gasoline. G. C. Davison. 1,619,637; Mar. 1.
- Pump, Combined liquid and air. E. Hill. 1,631,591; June 7.
- Pump, Combined stoker and feed-water. N. M. Lower. 1,614,528; Jan. 18.
- Pump, Compression. W. F. Jennings. 1,646,294; Oct. 18.
- Pump, Compression. O. A. Olsen. 1,633,270; June 21.
- Pump, compressor, and the like, Multi-cylinder plunger. J. Svartz. 1,636,258; July 19.
- Pump, compressor, or the like. B. Conklin. 1,629,202; May 17.
- Pump, compressor, or the like. M. J. Leahy. 1,646,754; Oct. 25.
- Pump, compressor, or the like. V. W. Malmstrom. 1,642,454; Sept. 13.
- Pump, Condensing. P. C. Lemale. 1,616,811; Feb. 8.
- Pump, connection. Air. W. M. Ingram. 1,652,628; Dec. 13.
- Pump, connecting device, Deep-well. G. E. Willers. 1,631,390; June 7.
- Pump, construction. H. M. Boe. 1,637,727; Aug. 2.
- Pump, construction, Oil. I. B. Williams and J. D. McGilton. 1,646,569; Oct. 25.
- Pump, construction, Pneumatic. H. J. La Joie. 1,631,274; June 7.
- Pump, control mechanism. R. Conrader. 1,627,376; May 8.
- Pump, controller. P. A. Bancel and J. F. Kirgan. 1,619,098; Mar. 1.
- Pump, Convertible-stage centrifugal. D. E. Yates. 1,635,655; July 12.
- Pump, Deep well. O. W. Johnson. 1,649,593; Nov. 15.
- Pump, Deep-well. J. D. Langdon. 1,642,211; Sept. 13.
- Pump, Deep-well. J. D. Langdon. 1,642,250; Sept. 13.
- Pump, Deep-well. I. B. Winsor. 1,621,046; Mar. 15.
- Pump, Diaphragm. L. Nixon. 1,650,377; Nov. 22.
- Pump, Differential piston. E. Vogel. 1,621,142; Mar. 15.
- Pump, discharge meter, High-pressure. J. Lamb. 1,618,206; Feb. 22.
- Pump, Dispensing. C. L. Bastian and P. Koch. 1,649,209; Nov. 15.
- Pump, Double-acting. J. S. Hunter. 1,629,792; May 24.
- Pump, Double-acting. E. J. Shearer. 1,616,201; Feb. 1.
- Pump, Double-action oil-well. A. O. Zinn. 1,620,934; May 15.
- Pump, dry-pipe system, Testing device for booster. I. W. Knight. 1,633,107; June 21.
- Pump, Duplex. K. F. Gerhard. 1,640,402; Aug. 30.
- Pump, Electromagnetic. L. H. Roller. 1,647,147; Nov. 1.
- Pump, Endless-chain. W. F. Godfrey. 1,626,812; May 3.
- Pump, Fire. F. Neumann. 1,636,382; July 19.
- Pump, Fluid-pressure-actuated. R. C. Newhouse. 1,628,608; May 10.
- Pump, for elevating and dispensing liquids. F. W. Mitchell. 1,629,115; May 17.
- Pump, for motor cars and machinery. Grease and oil. H. E. M. Drummond. 1,621,109; Mar. 15.
- Pump, for pressure tanks. Air. E. D. Ranck. 1,653,969; Dec. 27.
- Pump, for use in deep wells, Reciprocating. K. Onishi. 1,648,620; Nov. 8.
- Pump, for viscous liquids. J. A. Maurer. 1,632,304; June 14.
- Pump, Fuel. John W. White. 1,639,623; Aug. 16.
- Pump, Gasoline. T. B. Peterson and L. H. Holcomb. 1,613,845; Jan. 11.
- Pump, Gear. H. H. Haight. 1,624,099; Apr. 12.
- Pump, Gear. J. S. Myers. 1,654,048; Dec. 27.
- Pump, Gear. F. Forst. 1,633,793; June 28.
- Pump, Gear. L. D. Scott. 1,640,727; Aug. 30.
- Pump, Gear-drive. M. A. Conant and J. E. Coates. 1,644,817; Oct. 11.
- Pump, governor. W. Fletcher. 1,629,073; May 17.
- Pump, governor, Turbine. J. M. Barrett. 1,643,483; Sept. 27.
- Pump, grip. N. I. Clark. 1,649,573; Nov. 15.
- Pump, handles and the like, Rod connection for. H. B. Nelson. 1,637,125; July 26.
- Pump, having rolling pistons working in nuts. P. Christlein and K. Werner. 1,625,794; Apr. 26.
- Pump, having standing-valve pulser. J. C. Axelsson and W. Jarda. 1,614,771; Jan. 18.
- Pump, Hydraulic. H. F. Benson. 1,629,141; May 17.
- Pump, Hydraulically-operated diaphragm. B. Stevens. 1,627,257; May 8.
- Pump, installation. G. C. Graham and R. S. Robe. 1,653,167; Dec. 20.
- Pump, Jack. L. J. Black. 1,620,795; Mar. 15.
- Pump, Jack. M. L. Dobson. 1,620,009; Mar. 8.
- Pump, Jack. H. W. Eggers. 1,650,825; Nov. 29.
- Pump, Jack. W. G. and K. R. Jensen. 1,621,414; May 17.
- Pump, Jack. E. E. Kinsey. 1,632,296; June 14.
- Pump, Jack. J. A. Lund. 1,627,708; May 10.
- Pump, Jack. C. O. Sams. 1,612,886; Jan. 4.
- Pump, Jack. C. F. Schaffer. 1,641,460; Sept. 6.
- Pump, Jack. T. J. Stebbins. 1,633,045; June 21.
- Pump, Jack. E. R. Thomas and P. E. Langhtit. 1,628,692; May 17.
- Pump, Jack. W. E. Wentworth. 1,628,702; May 17.
- Pump, Liquid. H. Wallace. 1,637,669; Aug. 2.
- Pump, Liquid-dispensing. M. R. Julian. 1,650,073; Nov. 22.
- Pump, loading and unloading mechanism. P. W. Reck. 1,633,035; June 21.
- Pump, Lubricant. O. W. Fisher. 1,623,101; Apr. 5.
- Pump, Lubricating-oil. D. O. Barrett. 1,653,538; Dec. 20.
- Pump, machine, Rotary. W. J. Stern. 1,616,285; Feb. 1.
- Pump, Magnetic. W. Werner. 1,629,529; May 17.
- Pump, Measuring and dispensing. C. Spaeth. 1,610,492; Mar. 1.
- Pump, mechanism. H. C. Thrift. 1,645,670; Oct. 18.
- Pump, mechanism, Oil. A. F. Frasca. 1,633,781; June 28.
- Pump, mechanism, Vertical. A. Hollander. 1,625,893; Apr. 26.
- Pump, Metering. N. Nix. 1,628,058; May 10.
- Pump, Multistage balanced. A. Hollander. 1,644,129; Oct. 4.
- Pump, Multiple-stage. W. Ferner. 1,634,279; July 8.
- Pump, Multistage centrifugal. A. Hollander. 1,628,841; May 17.
- Pump, Oil. H. P. Jespersen. 1,624,738; Apr. 12.
- Pump, Oil. L. P. Kesselman. 1,625,031; Apr. 19.
- Pump, Oil. A. W. Manzel. 1,625,618; Apr. 19.
- Pump, Oil. K. P. Neilsen. 1,649,971; Nov. 22.
- Pump, Oil and water well. W. Winesburg. 1,623,150; Apr. 5.
- Pump, Oil-engine-driven centrifugal and similar. P. P. Bourne. 1,622,699; Mar. 29.
- Pump, Oil-well. S. C. Ashton. 1,624,821; Apr. 12.
- Pump, Oil-well. J. M. Hawkins and S. Losey. 1,620,347; Mar. 8.
- Pump, Oil-well. W. F. McMahon. 1,642,121; Sept. 13.
- Pump, Oil-well. C. B. Thurston. 1,625,230; Apr. 19.
- Pump, operating mechanism. L. Stendahl and E. Hanson. 1,642,274; Sept. 13.
- Pump, operating mechanism. R. E. L. Holmes. 1,651,330; Nov. 29.
- Pump, operating mechanism, Deep-well. J. W. MacClatchie. 1,616,979; Feb. 8.
- Pump, operating mechanism, Safe control and signal for. J. J. Fraser. 1,624,784; Apr. 12.
- Pump, or compressor. G. J. Boonzaier and S. Hartley. 1,615,257; Jan. 25.
- Pump, or compressor, Gyrotory. F. I. L. Byler. 1,638,183; Aug. 9.
- Pump, or compressor, Scavenging air. O. E. Jorgensen. 1,616,131; Mar. 1.
- Pump, or impeller. H. White. 1,632,357; June 14.
- Pump, or motor. W. J. Russell. 1,615,140; Jan. 18.
- Pump, or motor, Fluid. J. W. Gurley. 1,650,830; Nov. 29.
- Pump, or motor, Rotary. A. E. Weingartner. 1,622,986; Mar. 29.
- Pump, or the like. O. C. Hufnagle. 1,614,733; Jan. 18.
- Pump, or the like. O. C. Hufnagle. 1,647,361; Nov. 1.
- Pump, or turbine, Axial-flow. E. F. Delery. 1,640,601; Aug. 30.
- Pump, piston. W. F. McMahon. 1,650,877; Nov. 29.
- Pump, Plunger. H. Backholt. 1,616,833; Feb. 8.
- Pump, Plunger. F. T. Costello. 1,625,299; May 17.
- Pump, plunger. G. A. Humason. 1,629,034; May 17.
- Pump, plunger. J. A. Zublin. 1,633,058; June 21.
- Pump-plunger assembly. K. P. Neilsen. 1,628,901; May 17.
- Pump, plunger attachment, Deep-well. L. F. Davis. 1,645,802; Oct. 18.
- Pump, plunger, Multistage. L. C. Black. 1,646,134; Oct. 18.
- Pump, Pneumatic. J. L. Latta. 1,615,514; Jan. 25.
- Pump, Pneumatic. H. S. Rogers. 1,628,276; May 10.
- Pump, Pneumatic-tire. E. R. Carson. 1,630,923; May 31.
- Pump, Positive pressure blower and vacuum. W. E. Clarke. 1,652,609; Dec. 13.
- Pump, Propeller. S. W. Holman. 1,619,514; Mar. 1.
- Pump, Radial-flow. H. F. Schmidt. 1,633,609; June 28.
- Pump, Reciprocating. L. Dinesen. 1,632,436; June 14.
- Pump, Reciprocating. C. F. Sherwood. 1,621,858; Mar. 22.
- Pump, Reciprocating. J. A. Zublin. 1,625,182; Apr. 19.
- Pump, rod, Adjustable link. H. V. Bull. 1,644,724; Oct. 11.
- Pump-rod connection, Quick-change. A. W. R. Schultz. 1,642,464; Sept. 13.
- Pump-rod-hanger mechanism. N. H. Sooy. 1,617,506; Feb. 15.

- Pump-rod-rotating device. J. H. Collins. 1,619,700; Mar. 1.
- Pump-rod support. N. H. Sooy. 1,621,286; Mar. 15.
- Pump rods, Shock absorber for oil-well. W. F. Reschke. 1,638,213; Aug. 9.
- Pump, Rotary. E. M. Chase. 1,626,510; Apr. 26.
- Pump, Rotary. C. M. Conradson. 1,621,495; Mar. 22.
- Pump, Rotary. F. Eggersdorfer. 1,626,115; Apr. 26.
- Pump, Rotary. P. R. Finch. 1,627,024; May 3.
- Pump, Rotary. J. Klinge. 1,628,888; May 17.
- Pump, Rotary. S. L. Menge. 1,630,130; May 24.
- Pump, Rotary. G. S. Mepstead. 1,626,855; May 3.
- Pump, Rotary. W. H. Pascoe and J. Tatter. 1,613,767; May 11.
- Pump, Rotary. T. S. Patterson. 1,645,967; Oct. 18.
- Pump, Rotary. F. C. Peterson. 1,645,069; Oct. 11.
- Pump, Rotary. B. R. Planche. 1,617,863; Feb. 15.
- Pump, Rotary. H. H. Rex. 1,647,309; Nov. 1.
- Pump, Rotary. A. C. Roessler. 1,649,256; Nov. 15.
- Pump, Rotary. F. E. Sperry. 1,622,315; Mar. 29.
- Pump, Rotary. A. C. Stewart. 1,641,509; Sept. 6.
- Pump, Rotary. A. J. Sweeney. 1,636,259; July 19.
- Pump, Rotary. R. Wissler. 1,651,336; Nov. 20.
- Pump, Rotary. H. A. Wittman. 1,640,169; Aug. 23.
- Pump, Rotary gear. F. W. Kennedy. 1,620,261; Mar. 8.
- Pump, Rotatably-driven, reciprocating piston. W. L. Sandage. 1,649,196; Nov. 15.
- Pump, Sand. G. J. Armstrong. Re16,708; Aug. 16.
- Pump, Screw. F. F. Ambrose. 1,653,534; Dec. 20.
- Pump, Screw. L. J. Black and E. E. Swope. 1,624,466; Apr. 12.
- Pump, Screw. G. Rathman. 1,645,349; Oct. 11.
- Pump, Self-metering rotary. P. C. Petersen. 1,639,961; Aug. 23.
- Pump, Self-serving gasoline. H. M. Wagner. 1,652,918; Dec. 13.
- Pump-shaft bearing structure. V. J. and F. B. Nims. 1,649,320; Nov. 15.
- Pump, Siphon. W. Modra and A. W. Meier. 1,648,238; Nov. 8.
- Pump, Sirup. C. T. Joslin and C. W. Klotz. 1,641,280; Sept. 6.
- Pump, Submersible. J. E. Baldwin. 1,638,387; Aug. 9.
- Pump, Tank. R. C. Nicoll. 1,636,711; July 26.
- Pump, Thermostatic. J. Fentress. 1,630,479; May 31.
- Pump, Tire. E. N. Broderick. 1,612,853; Jan. 4.
- Pump, Tire. R. C. Bushnell. 1,640,880; Aug. 30.
- Pump, Tire. W. M. Ingram. 1,628,365; May 10.
- Pump, Tire. F. E. Raef. 1,625,374; Apr. 19.
- Pump, Triple-acting, force, suction, and vacuum. C. G. Wahlstrom. 1,613,147; Jan. 4.
- Pump, Turbine. J. B. Chockley. 1,648,541; Nov. 8.
- Pump, unit, Twin-. W. Thomas. 1,613,491; Jan. 4.
- Pump, Vacuum. C. H. Hupgood. 1,635,271; July 12.
- Pump, Vacuum. C. H. Hupgood. 1,637,484; Aug. 2.
- Pump, Vacuum. J. R. Kinney. 1,623,315; Apr. 5.
- Pump, Vacuum. E. C. Oakes. 1,619,364; Mar. 1.
- Pump, Vacuum. H. V. Ringgenberg. 1,650,539; Nov. 22.
- Pump, Vacuum. O. Seitz. 1,648,885; Nov. 8.
- Pump, Valveless. P. Voreaux. 1,645,834; Oct. 18.
- Pump, Variable-capacity. F. W. Schubert. 1,638,367; Aug. 9.
- Pump, Variable-stroke. W. Glattes. 1,645,420; Oct. 11.
- Pump, Vehicle attached and operated tire. R. O. Lewis. 1,627,654; May 10.
- Pump, Vertical-shaft floating. A. Hollander. 1,625,892; Apr. 26.
- Pump, Vibration-operated. C. H. Braselton and F. B. McLaren. 1,625,788; Apr. 26.
- Pump, Water. F. Cárdenas. 1,632,948; June 21.
- Pump, Water. J. and G. Popp. 1,622,840; Mar. 29.
- Pump, Well. B. F. Marty. 1,619,950; Mar. 8.
- Pump, Well. M. E. Williams. 1,616,017; Feb. 1.
- Pump, Wing. C. H. Christensen. 1,653,343; Dec. 20.
- Pump with cam-controlled plungers. G. Schleggenburger. 1,612,888; Jan. 4.
- Pump with liner plate, Rotary. P. I. Nagle. 1,638,055; Aug. 9.
- Pumping apparatus. G. A. Buvinger and C. Warner. 1,631,619; June 7.
- Pumping apparatus. A. R. Le Grue. 1,619,302; Mar. 1.
- Pumping apparatus. G. W. Kammerer and F. Hill. 1,622,394; Mar. 29.
- Pumping apparatus, Counterbalancing means for well-. C. C. Petty. 1,631,446; June 7.
- Pumping apparatus, Liquid-. C. H. Braselton and F. B. McLaren. 1,625,789; Apr. 26.
- Pumping apparatus, Long-stroke. V. York. 1,624,647; Apr. 12.
- Pumping apparatus, Thermodynamic. W. Mauss. 1,633,719; Dec. 27.
- Pumping apparatus, Variable-counterweight for. H. L. Owen. 1,644,393; Oct. 4.
- Pumping apparatus, Well. J. B. Hawley. 1,654,329; Dec. 27.
- Pumping beam. H. G. Durnell. 1,635,118; July 5.
- Pumping device. J. A. Hendricks. 1,615,761; Jan. 25.
- Pumping equipment. J. Penrod and R. D. Thompson. 1,636,433; July 19.
- Pumping equipment, Shut-down device for oil-well-. J. Sutton. 1,621,692; Mar. 22.
- Pumping installation. H. H. Macomber. 1,649,171; Nov. 15.
- Pumping installation and the like, Deep-well. A. C. Potter. 1,639,703; Aug. 23.
- Pumping jack. H. J. Smith. 1,649,137; Nov. 15.
- Pumping liquid and apparatus therefor. W. J. Rusdell. 1,615,139; Jan. 18.
- Pumping liquids, Apparatus for. E. R. Wolcott. 1,628,943; May 17.
- Pumping machine, Rotary. E. Hill. 1,631,592; June 7.
- Pumping machine, Rotary. E. Hill. 1,648,730; Nov. 8.
- Pumping mechanism. C. H. Braselton and C. P. Brockway. 1,620,065; Mar. 8.
- Pumping mechanism. C. H. Braselton and F. B. McLaren. 1,629,857; May 24.
- Pumping mechanism. W. P. Brett. 1,624,527; Apr. 12.
- Pumping mechanism. A. C. La Cour. 1,617,335; Feb. 15.
- Pumping mechanism and system. J. A. Warren. 1,616,773-4; Feb. 8.
- Pumping mechanism, Deep-well. W. P. Brett. 1,624,577; Apr. 12.
- Pumping mechanism, Long-stroke. F. F. Hill. 1,637,078; July 26.
- Pumping plant for high-pressure steam generators. S. Löffler. 1,652,026; Dec. 6.
- Pumping power, Duplex oil-well. H. H. Ice. 1,637,571; Aug. 2.
- Pumping rig. J. E. McComb. 1,621,940; Mar. 22.
- Pumping station, Sewage-. C. Yeomans. 1,613,007; Jan. 4.
- Pumping system. R. L. Bacher. 1,617,095; Feb. 8.
- Pumping system. R. E. Frickey and W. R. Layne. 1,624,651; Dec. 6.
- Pumping system. W. E. Hubbard. 1,619,474-5; Mar. 1.
- Pumping system. J. Oliphant. 1,626,250; Apr. 26.
- Pumping system. W. C. Parrish. 1,630,902; May 31.
- Pumping system, Oil-. J. A. Lupfer. 1,644,841; Oct. 11.
- Pumping unit. W. W. Williams. 1,622,094; Mar. 29.
- Pumping unit, Submerged. M. L. Milton. 1,624,423; Apr. 22.
- Pumps and the like, Lubrication means for. O. W. Johnson. 1,638,160; Aug. 9.
- Pumps, Automatic shut-off for. A. A. Phillips and E. Connelly. 1,639,147; Aug. 16.
- Pumps, Computing gauge or scale for gasoline station. E. A. May. 1,642,931; Sept. 20.
- Pumps, Controller for power-driven. B. M. Horter. 1,622,514; Mar. 29.
- Pumps, Controller for power-driven. B. M. Horter. 1,633,786; June 28.
- Pumps, Device for illustrating the operation of rotary. G. B. Wright. 1,639,918; Aug. 23.
- Pumps, Diaphragm for liquid. E. Bossi. 1,615,299; Jan. 25.
- Pumps, Expansion chamber for. L. P. Storey. 1,647,757; Nov. 1.
- Pumps, Head for vertical. A. Hollander. 1,614,196; Jan. 11.
- Pumps, Locking device for barrel. A. D. Wyckoff. 1,653,446; Dec. 20.
- Pumps, Maintaining the prime in. L. L. Scott. 1,617,422; Feb. 15.
- Pumps or the like, Automatic operating device for steam-jet. W. J. Anderson. 1,645,639; Oct. 18.
- Pumps, Packing for air-lift. G. M. Williamson. 1,654,395; Dec. 27.
- Pumps, Packing for oil-well. A. H. Neilson. 1,624,798; Jan. 15.
- Pumps, Plate for vacuum. H. P. Sachse. 1,629,931; May 24.
- Pumps, Power-transmission device for. J. A. Nitchie. 1,623,490; Apr. 5.
- Pumps, Regulator system for condenser circulating. H. F. Schmidt. 1,630,767; May 31.
- Pumps, Relief valve for rotary. J. R. Kinney. 1,623,316; Apr. 5.
- Pumps, Traveling valve for oil-well. W. Bradley. 1,632,216; June 14.
- Pumps, Valve for cylinder. G. E. Parks. 1,647,144; Nov. 1.
- Pumps, Valve structure for slush. C. Lamb and D. R. Radford. 1,650,077; Nov. 22.
- Pumps, Wear-preventing means for. F. J. Wise. 1,647,425; Nov. 1.
- Pumps, Well-lifting machine. E. E. Brass. 1,647,338; Nov. 1.
- Punch and die retainer. O. K. Richard and C. C. Richard. 1,621,811; Mar. 29.
- Punch and file, Combined. J. A. Bondeson and A. F. Hunt. 1,623,824; Apr. 5.
- Punch for nut machines, Floating. C. E. Smith. 1,652,742; Dec. 13.
- Punch, Hand. A. Beck. 1,641,521; Sept. 6.
- Punch press. E. Gauthier. 1,642,773; Sept. 20.
- Punch press. J. J. Neelan. 1,639,100; Aug. 16.
- Punch press. F. F. Walp. 1,649,427; Nov. 15.
- Punch presses, Automatic sorter for. D. W. Reese. 1,626,887; Mar. 15.
- Punch, Removable. M. E. Tobeler. 1,635,909; July 12.
- Puncher, Twin-label. F. Luisa and J. Di Matteo. 1,622,458; Mar. 29.
- Punches or other tools, Holder for. E. Henrierson. 1,638,261; Aug. 9.
- Punches, Stripper device for perforating. N. Loesel. 1,631,323; June 7.
- Punching and riveting machine. G. E. Weaver and H. C. Buffington. 1,648,088; Nov. 8.
- Punching bag. G. W. Abraham. 1,612,796; Jan. 4.

- Punching bags and the like, Double swivel hanger and support for. W. R. Harley. 1,628,973; May 17.
- Punching controlling bands, Feeling mechanism for machines for. O. Wolters and K. Höper. 1,610,645; Mar. 1.
- Punching machine. A. C. Campbell. 1,646,851; Oct. 25.
- Punching machine. E. A. Munger. 1,621,130; Mar. 15.
- Punching machine. G. Tauschek. 1,626,217; Apr. 26.
- Punching machine. A. P. Yates. 1,650,411; Nov. 22.
- Punching machine for cards and stencils. P. A. Gollnick and J. J. Toolan. 1,613,274; Jan. 4.
- Punching machine for inner tubes, Valve-hole-. H. D. Stevens. 1,622,256; Mar. 22.
- Punching machine, Metal-. G. P. Thomas. 1,650,748; Nov. 29.
- Punching machine, Selective. W. S. Freeburg. 1,612,971; Jan. 4.
- Punching machines, Carriage return for. W. W. Lasker. 1,643,779; Sept. 27.
- Punching machines, Spacing mechanism for. L. H. Vold and K. R. Hammerstrom. 1,633,718; June 28.
- Punctureproof cushion wheel. M. A. Robin. 1,637,280; July 26.
- Purifying machine. C. S. Nelson. 1,622,538; Mar. 29.
- Purifier, Centrifugal. J. M. Schutz. 1,612,836; Jan. 4.
- Purifying mechanism and method. A. E. Wilson. 1,634,893; July 5.
- Purse. A. W. Hinrichs. 1,618,088; Feb. 15.
- Purse. M. A. Myers. 1,638,594; Aug. 9.
- Purse and like receptacle. W. C. Hering. 1,632,337; June 14.
- Purse clip. H. J. Shook. 1,644,616; Oct. 4.
- Purse, Safety. M. J. Felz. 1,651,921; Dec. 6.
- Push and pull switch. B. A. Benson. 1,636,678; July 26.
- Push-button switch. R. W. Goff. 1,626,461; Apr. 26.
- Push-button switch. O. Thesen. 1,639,757; Aug. 23.
- Push-button switch. J. Valerius. 1,622,986; May 24.
- Push-button switch, Double-pole two-way. J. J. Rattay. 1,628,191; May 10.
- Push-sled brake. M. O. Carlson. 1,633,363; June 21.
- Push-through switch. W. Ile. 1,630,453; May 31.
- Pusher. W. R. Brannham. 1,630,804; May 31.
- Purifier apparatus. W. C. Brumder. 1,637,407; Aug. 2.
- Puzzle. J. S. Allen. 1,635,022; July 5.
- Puzzle. D. L. Chandler. 1,637,602; Aug. 2.
- Puzzle. G. V. Cornell. 1,636,216; July 19.
- Puzzle. E. E. Foster. 1,642,236; Sept. 13.
- Puzzle. R. Fryer. 1,630,530; May 31.
- Puzzle. L. B. Goettert. 1,652,115; Dec. 6.
- Puzzle. E. M. Massey. 1,642,424; Sept. 13.
- Puzzle, Cross-word. R. R. Lundy. 1,625,218; Apr. 19.
- Puzzle, Cross-word. N. Trbojevic. 1,629,601; May 24.
- Puzzle, Novelty trick. J. A. Barket. 1,649,054; Nov. 15.
- Puzzle or game. E. W. Gates. 1,631,587; June 7.
- Pyjama frogs, Machine for making. L. B. Morlin. 1,639,098-9; Aug. 16.
- Pyjama pants. A. Lefkowitz. 1,628,891; May 17.
- Pyjama trousers. I. Bloomenthal. 1,642,483; Sept. 13.
- Pyjama trousers. G. M. Harsh. Re 16,641; May 31.
- Pyridine-3-carboxylic acid amides, Manufacture of. M. Hartmann and M. Selberth. 1,617,332; Feb. 15.
- Pyrometer. S. Ruben. 1,639,534; Aug. 16.
- Pyrometer, Optical. G. Keinath. 1,644,340; Oct. 4.
- Pyrometer thermocouple. O. Brophy. 1,651,750; Dec. 6.
- Pyrophosphates, Preparing. W. H. Dickerson. 1,654,283; Dec. 27.
- Pyrotechnic. S. G. Stevens. 1,645,206; Oct. 11.
- Pyrotechnic lance holder. J. H. Shunk. 1,621,908; Mar. 22.
- Pyrotechnic signal. H. C. Gammeter. 1,604,892; Aug. 30.
- Pyrotechnic wheel. J. H. Shunk, jr. 1,617,084; Feb. 8.
- Pyrotechnical devices, Holder for. J. H. Shunk. 1,618,852; Jan. 11.
- Pyroxilin-lacquer composition. B. K. Brown and C. Bogin. 1,641,529; Sept. 6.
- Quartz Method and apparatus for working. E. R. Berry and P. K. Devers. 1,645,086; Oct. 11.
- Quartz working. E. R. Berry. 1,620,511; Mar. 8.
- Quick-action clamp. E. H. McMillan. 1,619,144; Mar. 1.
- Quick-break switch. J. H. Pengilly. 1,631,503; July 7.
- Quick-opening die. H. T. White. 1,650,773; Nov. 29.
- Quill drive. A. T. Kinsley. 1,635,551; July 12.
- Quilling frame. S. W. Allen. 1,616,563; Feb. 8.
- Quilling frame. E. R. Simons. 1,643,351; Sept. 27.
- Quilling machine. G. Asdit. 1,627,820; May 10.
- Quinine solutions, suitable for subcutaneous injections. Manufacture of. A. Liebrecht. 1,648,487; Nov. 8.
- Quoin. H. H. Strait. 1,652,422; June 14.
- Race-course construction. J. F. Jennings. 1,634,326; July 5.
- Rack: See—
- Apparel rack. Collapsible rack.
- Bag rack. Directory rack.
- Billiard-ball rack. Folding rack.
- Bobbin rack. Drying rack.
- Boller rack. Egg-turning rack.
- Book rack. Fender rack.
- Bottle rack. Pestooning rack.
- Bread rack. Floral rack.
- Calender rack. Foldable rack.
- Card rack. Fountain-pen rack.
- Cartridge rack. Harness rack.
- Clothes-drying rack. Hatrack.
- Clothes rack. Index rack.
- Rack: See—
- Laundry assorting rack. Seed-corn drying rack.
- Ledger rack. Seed rack.
- Map rack. Serving rack.
- Milk-can rack. Shoe rack.
- Music rack. Steel stock rack.
- Paper holder and display rack. Supporting rack.
- Portable rack. Towel rack.
- Rod rack. Trunk rack.
- Rod rack. Utility rack.
- Sales rack. Wardrobe rack.
- Rack. T. T. Bernard. 1,630,105; May 24.
- Rack. P. H. Chase and W. Foster. 1,623,864; Apr. 5.
- Rack. W. Foster. 1,616,360; Feb. 1.
- Rack. C. H. Jarvis. 1,619,259; Mar. 1.
- Rack. C. H. Jarvis. 1,645,533; Oct. 18.
- Rack for holding warp threads. H. P. Eanes. 1,625,715; Apr. 19.
- Rack for tea, coffee, and spice containers. A. I. S. Halvorsen. 1,631,725; June 7.
- Rack-tooth-clutching machine. H. E. Sloan. 1,625,402; Apr. 19.
- Racket case. E. C. and I. C. Hoover. 1,629,105; May 17.
- Racket for tennis and similar games. H. W. Norton. 1,637,583; Aug. 2.
- Racket frame. W. F. Reach. 1,618,727; Feb. 22.
- Racket string. A. M. Dritz. 1,624,720; Apr. 12.
- Racket, Tennis. R. H. Robinson. 1,636,867; July 26.
- Racket, Tennis. C. Schneider. 1,627,021; May 10.
- Radial drill. J. C. Carlton. 1,619,190; Mar. 1.
- Radial drill. J. C. Carlton. 1,638,654; Aug. 9.
- Radial-drill column-clamp control. J. C. Carlton. 1,638,655; Aug. 9.
- Radial setting gauge. L. B. Carlson. 1,641,114; Aug. 30.
- Radiant and convection heater, Combination. J. Schoenfeld. 1,652,686; Dec. 13.
- Radiant energy, Books reproducible by. R. A. Fessenden. 1,616,848; Feb. 8.
- Radiant energy, Transmission system for. J. H. Hammond, jr. 1,637,310; July 26.
- Radiant energy, Transmitting system for. A. F. Murray. 1,623,745; Apr. 5.
- Radiant gas heaters. W. L. Sharp. Des. 73,806; Nov. 8.
- Radiant gas log. D. Chandler. 1,630,109; May 24.
- Radiant heater. L. S. Lawson. Des. 72,860; June 14.
- Radiant heater. L. S. Lawson. Des. 73,154-7; July 26.
- Radiating device. P. J. McIntyre. 1,634,110; June 28.
- Radiator. F. A. Barker. 1,616,776; Feb. 8.
- Radiator. E. M. Bassler. 1,641,148; Sept. 6.
- Radiator. O. S. Beyer. 1,640,874; Aug. 30.
- Radiator. C. S. Carlberg. 1,634,252; July 5.
- Radiator. S. B. Chilson. 1,634,824; July 5.
- Radiator. W. M. Dana. 1,619,333; Mar. 1.
- Radiator. A. P. Eckhart. 1,629,440; May 17.
- Radiator. P. V. Forand. 1,639,172; Aug. 18.
- Radiator. L. D. Harnett. 1,633,664; June 28.
- Radiator. R. L. Kjermer. 1,630,749; May 31.
- Radiator. A. Lamblin. 1,620,769; Mar. 15.
- Radiator. G. H. Lober. 1,644,685; Oct. 11.
- Radiator. S. Malke. 1,627,911; May 10.
- Radiator. T. E. Murray. 1,633,601; June 28.
- Radiator. A. Palka. Des. 72,800; June 7.
- Radiator. A. Palka. Des. 73,331; Aug. 23.
- Radiator. V. Paone. 1,644,270; Oct. 4.
- Radiator. F. A. C. Skinner. 1,618,485; Feb. 22.
- Radiator. G. C. Staats. 1,617,464; Feb. 15.
- Radiator. E. J. Stoddard. 1,624,565; Apr. 12.
- Radiator. F. H. Stolp. 1,613,253; Jan. 4.
- Radiator. J. Triska. 1,628,288; May 10.
- Radiator, Aeroplane. H. C. Mummert and J. F. Meade. 1,613,619; Jan. 11.
- Radiator, Airplane. A. L. Thurston. 1,650,665; Nov. 29.
- Radiator and cover therefor. J. Snyder. 1,613,913; Jan. 11.
- Radiator and radiation-increasing device, Composite. O. S. Beyer. 1,635,656; July 12.
- Radiator attachment. P. J. Walsh. 1,628,344; May 10.
- Radiator, attachment, Automobile. J. F. White. 1,635,684; Dec. 27.
- Radiator, Automobile. T. F. Rainsford. Des. 72,187; Mar. 8.
- Radiator, Auxiliary cooler for. R. J. Coale. 1,637,102; July 26.
- Radiator boxes, Damper control for. C. C. Shipp. 1,647,939; Nov. 1.
- Radiator cap. W. H. Billingsley. 1,626,177; Apr. 26.
- Radiator cap. R. H. Hummert. Des. 73,259; Aug. 16.
- Radiator cap. W. B. Jarvis. 1,645,384; Oct. 11.
- Radiator cap. W. B. Jarvis. 1,648,130-1; Nov. 8.
- Radiator cap. A. C. Linpert. Des. 73,263-4; Aug. 16.
- Radiator cap. J. P. Mitchell. Des. 72,502; May 3.
- Radiator cap. E. R. Nowelski. Des. 72,184; Mar. 8.
- Radiator cap. H. S. Pardee. 1,625,497; Apr. 19.
- Radiator cap. W. Schnell. Des. 71,813; Jan. 4.
- Radiator cap. W. H. Schulze. Des. 73,344; Aug. 23.
- Radiator cap. E. W. Senholm. Des. 72,449; Apr. 12.
- Radiator cap. K. E. Siant. 1,652,061; Dec. 6.
- Radiator cap. W. Stockman. Des. 72,977; June 28.
- Radiator cap. W. L. Swendsen. Des. 73,985; Nov. 29.
- Radiator cap. C. Werandt. 1,623,511; Apr. 5.
- Radiator cap. J. F. White. Des. 73,351; Aug. 23.
- Radiator cap and the like. W. B. Jarvis. 1,648,129; Nov. 8.

- Radiator cap, Automobile. A. Phillips. Des. 73,758; Nov. 1.
- Radiator cap for motor vehicles. F. C. Ruppel. Des. 74,074; Dec. 13.
- Radiator cap, illuminated. R. Maranzino. 1,650,800; Nov. 29.
- Radiator-cap-latching device. R. D. Schnoor. 1,650,805; Nov. 29.
- Radiator-cap ornament. J. E. Corker. Des. 73,026; July 12.
- Radiator-cap ornament, Automobile. S. Faith and S. Klassner. Des. 74,004; Dec. 6.
- Radiator-cap ornament, Automobile. C. C. Mose. Des. 72,182; Mar. 8.
- Radiator-cap ornament for automobiles. F. J. Wilhelm. Des. 72,921; June 21.
- Radiator-cap ornament or similar article, Automobile. J. L. Drucklieb. Des. 74,003; Dec. 6.
- Radiator-cap ornament or the like. D. Calarco. Des. 73,641; Oct. 18.
- Radiator caps, Locking device for. A. L. Sohm. 1,616,878; Feb. 8.
- Radiator caps, Ornament for. A. Chéron-Duval. Des. 72,934; June 28.
- Radiator casing. A. Palka. Des. 72,441; Apr. 12.
- Radiator casing or cover. B. Baxter. 1,625,931; Apr. 26.
- Radiator connection, Combination. R. J. Baldwin. 1,638,511; June 21.
- Radiator construction. E. G. Griese. 1,648,804; Nov. 8.
- Radiator construction. T. C. Whitehead. 1,634,812; July 5.
- Radiator core. J. M. Fedders. 1,617,751; Feb. 15.
- Radiator core. J. M. Fedders. 1,618,279; Feb. 22.
- Radiator core. J. M. Fedders. 1,618,980; Mar. 1.
- Radiator cores, Apparatus for testing. W. J. Armstrong. 1,613,217; Jan. 4.
- Radiator cores, Apparatus for use in assembling. C. W. Dippert. 1,629,780; May 24.
- Radiator cores, Machine for making. F. M. Opitz. 1,618,219; Feb. 22.
- Radiator cores, Machine for stripping nests from. B. H. Hawkins and E. R. Hansen. 1,615,272; Jan. 25.
- Radiator cover. A. E. Blackman. 1,636,089; July 19.
- Radiator cover. K. Drlica. 1,630,529; May 31.
- Radiator cover. C. F. Duggins. 1,624,342; Apr. 12.
- Radiator cover. L. A. Guillemet. 1,628,774; May 17.
- Radiator cover, Knockdown. P. E. Schleicher. 1,636,247; July 19.
- Radiator cover or similar article. J. Meikle. Des. 72,105; Mar. 1.
- Radiator, Crescent. J. H. Cross. 1,632,000; June 14.
- Radiator, Electric. C. A. Head. 1,619,865; Mar. 8.
- Radiator, Electric. J. F. Lamb. 1,614,308; Jan. 11.
- Radiator faceplate. F. Mamm. Des. 72,717; May 24.
- Radiator fans, Self-rolling hub for. R. F. Crawford. 1,633,806; June 28.
- Radiator filler. W. F. Cooms and J. M. Beck. 1,619,498; Mar. 1.
- Radiator fins, Machine for beading. B. H. Hawkins and E. R. Hansen. 1,623,594; Apr. 5.
- Radiator for heating and ventilating units. M. J. Callahan. 1,626,390; Apr. 26.
- Radiator for the roofs of buildings, Baseboard. F. M. Nordling. 1,633,082; June 21.
- Radiator, Gas steam. G. W. Blackmore. 1,630,107; May 24.
- Radiator guard. H. B. Wilson. 1,631,846; June 7.
- Radiator hanger. C. H. Cobb. 1,634,981; July 5.
- Radiator hanger. H. H. Crawford. 1,645,853; Oct. 18.
- Radiator hanger. W. F. Knox. 1,625,473; Apr. 19.
- Radiator heater, Vehicle. B. and E. C. Kohlmeier. 1,650,219; Nov. 22.
- Radiator, Internal-combustion-engine. W. H. Ray. 1,632,803; June 21.
- Radiator mount. J. W. Heiney. 1,631,991; June 14.
- Radiator ornament. L. B. Campbell. 1,644,051; Oct. 4.
- Radiator ornament. L. Von Haxthausen. Des. 73,455-6; Sept. 13.
- Radiator ornament, Automobile. F. H. Eldred and C. Hutchings. Des. 72,090; Mar. 1.
- Radiator protector. H. F. Hudson. 1,642,925; Sept. 20.
- Radiator protector. R. R. Johnson. 1,648,311; Nov. 8.
- Radiator protector. L. G. Kiencel, Jr. 1,629,216; May 17.
- Radiator-reflow device. E. O. Weeks. 1,627,514; May 10.
- Radiator-repair stand. J. R. Alford and L. Alexander. 1,634,227; June 28.
- Radiator return trap. A. P. Crosby. 1,646,686; Oct. 25.
- Radiator shell. A. Palka. Des. 72,721-2; May 24.
- Radiator shield. A. S. Cann. 1,615,931; Feb. 1.
- Radiator shield. D. H. Kink. 1,630,705; May 31.
- Radiator shield. W. S. Pritchard. 1,644,690; Oct. 11.
- Radiator shield, Resilient. R. B. Fageol. 1,628,131; May 10.
- Radiator shutter. E. A. Winden. 1,618,245; Feb. 1.
- Radiator-shutter mechanism. R. M. Lovejoy. 1,619,621; Mar. 1.
- Radiator shutter, Rolling. A. Schepper and P. Schroeder. 1,626,098; Apr. 26.
- Radiator shutters, Making. S. Vernet. 1,621,696; Mar. 22.
- Radiator shutters, Operating mechanism for. F. J. Irving. 1,633,021; June 21.
- Radiator, Steam-line high-pressure. A. H. Hart. 1,641,586; Sept. 6.
- Radiator tank. E. D. Treanor. 1,631,711; June 7.
- Radiator, Thermosiphon. L. V. Pence. 1,629,298; May 17.
- Radiator, Transformer. W. M. Dann. 1,619,332; Mar. 1.
- Radiator, Transformer. W. M. Dann. 1,619,334; Mar. 1.
- Radiator, Wing-nose. F. G. Zimmermann and B. V. Korvin-Kroukovsky. 1,621,918; Mar. 22.
- Radiators and the like, Hanger for wall. A. J. Loepsinger. 1,642,075; Sept. 13.
- Radiators and the like, Support for. J. F. Broderick. 1,620,652; Mar. 15.
- Radiators, Article of manufacture for mending. E. C. Hammond. 1,617,949; Feb. 15.
- Radiators, Assembling. F. M. Young. 1,623,327; Apr. 5.
- Radiators, Automatic air-vaporizing device for. G. E. Cook. 1,646,810; Oct. 25.
- Radiators, Bracket for. G. W. Lindsay and H. Nordenmalm. 1,649,355; Nov. 15.
- Radiators, Condenser for motor-vehicle. A. E. Hostetter. 1,652,985; Dec. 13.
- Radiators, Cushion support for. E. R. Gurney. 1,623,473; Apr. 5.
- Radiators, Dust catcher for. C. K. Volckening. 1,614,580; May 31.
- Radiators, Hanger for wall. W. F. Bach. 1,630,919; May 31.
- Radiators, Indicator for automobile. C. L. De Rochn. 1,622,095; Mar. 22.
- Radiators, Interior valve for. C. D. Hickman. 1,643,451; Sept. 27.
- Radiators, Locking cap for. A. C. Lippert. 1,630,269; May 31.
- Radiators of motor cars, Ornament for. H. S. Hewitt. Des. 73,378; Aug. 30.
- Radiators, Producing. Y. E. Bergström. 1,646,384; Oct. 25.
- Radiators, Shutter apparatus for. J. F. Raleigh. 1,633,794; June 28.
- Radiators, Shutter apparatus for engine. A. G. McCaleb. 1,614,075; Jan. 11.
- Radiators, Shutter cover for. F. F. Hansen. 1,638,847; Aug. 16.
- Radiators, Thermostatic supply valve for steam. J. J. Lawler. 1,640,243; Aug. 23.
- Radiators, Vapor condenser for motor-vehicle. J. J. Donnelly. 1,618,573; Jan. 11.
- Radiactive substances, Artificially producing. A. Gaschler. 1,644,370; Oct. 4.
- Radiic aerial pole or the like. W. H. Woodin, Jr. 1,643,689; Sept. 27.
- Radio and direct-service system, Universal. E. McLarty, Jr. and S. L. Blankenship. 1,631,690; June 7.
- Radio and phonograph apparatus, Combination. E. V. Hughes. 1,648,644; Nov. 8.
- Radio and phonograph apparatus, Combination. F. Oberst. 1,653,725-6; Dec. 27.
- Radio and phonograph apparatus, Combined. F. G. Mayo. 1,620,481; Mar. 8.
- Radio and phonograph cabinet, Combination. J. Di Stanislao. 1,616,217; Feb. 1.
- Radio and phonograph cabinet or similar article, Combined. J. M. Beach and G. Fletcher. Des. 73,474; Sept. 20.
- Radio and phonograph combination switch. W. Lytton and P. E. Edelman. 1,649,718; Nov. 15.
- Radio and phonograph loud speaker, Combined. A. Wiehl. 1,624,196; Apr. 12.
- Radio and phonograph reproduction, Method and apparatus for coordination. R. A. Fessenden. 1,616,416; Feb. 1.
- Radio and telephone reception, Sound amplifier for. J. Pavek. 1,644,605; Oct. 4.
- Radioantenna. A. I. Blanc. 1,654,108; Dec. 27.
- Radioantenna, Portable. H. Farkouh. 1,640,929; Aug. 30.
- Radio antenna system. D. W. Richardson. 1,620,231; Mar. 8.
- Radio apparatus. L. B. Cogswell. 1,634,896; July 5.
- Radio apparatus. E. H. Evers. 1,619,407; Mar. 1.
- Radio apparatus. J. J. W. Kenan and W. M. Cady. 1,620,826; May 24.
- Radio apparatus. F. S. McCullough. 1,639,805; Aug. 23.
- Radio apparatus. T. E. New. 1,650,032; Nov. 22.
- Radio apparatus. A. F. Sanford. 1,619,544-5; Mar. 1.
- Radio apparatus. G. Somersalo. 1,620,609; Mar. 8.
- Radio apparatus. J. Wolff. 1,653,796; Dec. 27.
- Radio apparatus. A. M. Young and N. W. Simpson. 1,623,152; Apr. 5.
- Radio apparatus and current control device therefor. P. A. Chamberlain. 1,627,592; May 10.
- Radio apparatus, Dial for. F. W. Renwick. 1,637,051; July 26.
- Radio apparatus, Dial mechanism for. W. A. Ready. 1,653,875; Dec. 27.
- Radio apparatus, Grid leak for. R. E. Marbury. 1,632,089; June 14.
- Radio apparatus, Induction coil for. W. H. Adams. 1,631,173; Aug. 23.
- Radio apparatus multiple dial. F. Kulhawy. Des. 73,043; July 12.
- Radio apparatus, Portable. W. M. Heina. 1,626,464; Apr. 26.
- Radio apparatus, Support for. A. C. Hayden. 1,651,963; Dec. 27.
- Radio apparatus, Vacuum-tube mountings for. B. H. Skelly. 1,614,696; Jan. 18.

- Radiobattery. W. B. Schulte. 1,654,145; Dec. 27.
 Radio battery charger. C. T. Weibler. 1,627,815; May 10.
 Radio broadcast distributing system. E. E. Clement. 1,635,156-8; July 5.
 Radio broadcast distribution. Subdivided service system of. E. E. Clement. 1,635,153; July 5.
 Radio broadcast selecting and distributing system. E. E. Clement. 1,635,152; July 5.
 Radio broadcasting system. Wiled. R. D. Duncan, jr. 1,622,135; Mar. 22.
 Radiocabinet. J. M. Beach. Des. 71,900; Jan. 25.
 Radiocabinet. W. Bender, jr. Des. 71,773; Jan. 4.
 Radiocabinet. W. G. Crumlish and W. F. Scott. Des. 72,699; May 24.
 Radiocabinet. E. L. Hedemark. Des. 73,501; Sept. 20.
 Radiocabinet. A. A. Kent. Des. 74,149; Dec. 27.
 Radiocabinet. D. L. London. Des. 72,625; May 10.
 Radiocabinet. W. T. Lewis. Des. 73,185; Aug. 2.
 Radiocabinet. F. Maggio. Des. 74,018; Dec. 6.
 Radiocabinet. E. B. Mallory and A. Roth. Des. 72,627-29; May 10.
 Radiocabinet. L. E. Parker. 1,638,875; Aug. 16.
 Radiocabinet. E. F. Pooley. Des. 72,448-4; Apr. 12.
 Radiocabinet. E. F. Pooley. Des. 73,710; Oct. 25.
 Radiocabinet. O. Reinhold. Des. 73,948-4; Nov. 22.
 Radiocabinet. A. E. Reuss. 1,616,229; Feb. 1.
 Radiocabinet. M. C. Rypinski. Des. 71,811; Jan. 4.
 Radiocabinet. D. S. Spector. Des. 71,934; Jan. 25.
 Radiocabinet. D. S. Spector. Des. 72,290; Mar. 22.
 Radiocabinet. D. S. Spector. Des. 73,878-9; Nov. 15.
 Radiocabinet. J. Wolff. Des. 71,894-5; Jan. 18.
 Radiocabinet. J. Wolff. Des. 72,122-4; Mar. 1.
 Radiocabinet. J. Wolff. Des. 72,201; Mar. 8.
 Radiocabinet. J. Wolff. Des. 72,504; Apr. 19.
 Radiocabinet. J. Wolff. Des. 74,088; Dec. 13.
 Radiocabinet. H. E. Zoll. Des. 73,815; Nov. 8.
 Radiocabinet or article of similar nature. B. D. Colen. Des. 73,495; Sept. 20.
 Radiocabinet or the like. J. M. Beach. Des. 74,045; Dec. 13.
 Radio-circuit-testing instrument. J. O. Kleber. 1,646,152; Oct. 18.
 Radiocircuits. Variable condenser for. F. W. Stein. 1,613,093; Feb. 1.
 Radiocommunication. A. E. Paige. 1,624,673; Apr. 12.
 Radio-communication device. B. F. Miessner. 1,622,389; Mar. 29.
 Radio communication over wires. System of. C. Schwarz. 1,649,132; Nov. 15.
 Radiocommunication. System of. E. L. Chaffee. 1,642,683; Sept. 13.
 Radio communication system. Two-way. P. Ware. 1,648,835; Nov. 8.
 Radio communication. Tuning arrangement for. C. Schwarz. 1,649,131; Nov. 15.
 Radiocompass. F. A. Kolster. 1,637,615; Aug. 2.
 Radiocompasses. Compensator for. W. B. Burgess. 1,646,443; Oct. 25.
 Radiocapacitor. C. V. Bates. 1,612,902; Jan. 4.
 Radiocapacitor. P. A. Chamberlain. 1,635,459; July 12.
 Radiocapacitor. M. Guett. 1,652,118; Dec. 6.
 Radiocapacitor. A. S. Pinkus. 1,625,330; Apr. 19.
 Radiocapacitor coupling. H. A. Bremer. 1,632,878; June 21.
 Radiocontrol of engine speed. J. H. Hammond, jr. 1,653,172; Dec. 20.
 Radiocrystals and wires used for cat whiskers. Container for. C. A. Rowley. 1,618,235; Feb. 1.
 Radiodesk. A. C. Bove. 1,647,264; Nov. 1.
 Radiodetector. B. H. Lundquist. 1,622,459; Mar. 29.
 Radio device. R. B. Anderson. 1,645,290; Sept. 27.
 Radiodial. S. B. Ford, jr. 1,618,921; Feb. 22.
 Radiodial. L. Knigoff. 1,646,648; Oct. 25.
 Radiodial. V. Loughheed. Des. 73,504; Sept. 20.
 Radiodial. L. E. Shaw. 1,629,891; May 24.
 Radiodial escutcheon plate. D. H. Engelson. Des. 73,252; Aug. 16.
 Radiodial escutcheon plate. P. L. Pendleton. Des. 72,723; May 24.
 Radio dial plate. A. Dorsey. Des. 73,816; Nov. 8.
 Radiodials or the like. Vernier-adjusting device for. C. M. Abbott. 1,614,271; Jan. 11.
 Radio direction-finding system. H. S. Osborne. 1,615,913; Feb. 1.
 Radio distributing system. E. E. Clement. 1,635,151; July 5.
 Radio extension conductor and reel. W. I. Licht. 1,620,562; Mar. 8.
 Radio fire-alarm system. H. Garrett. 1,629,337; May 17.
 Radiofrequency amplifying system. L. L. Jones. 1,620,661; Mar. 15.
 Radiofrequency choke coil system. A. Crossley. 1,627,958; May 10.
 Radiofrequency circuits. Tuned. D. R. Lovejoy. 1,650,898; Nov. 29.
 Radiofrequency currents. Circuit system for. R. S. Miner. 1,630,859; May 31.
 Radiofrequency transformer. N. G. Dowdell. 1,651,515; Dec. 6.
 Radiofrequency transformer. C. Pfanstiehl. 1,614,151; Jan. 11.
 Radiofrequency transformer. R. M. Warren. 1,623,143; Apr. 5.
 Radiografonola. F. J. Renner. Re16,728; Aug. 30.
 Radiographic apparatus. J. R. Kelley. 1,622,320-1; Mar. 29.
 Radiographic apparatus. J. R. Kelley. 1,643,382; Sept. 27.
 Radiographic examination. Method of and apparatus for. A. St. John. 1,622,149; Mar. 22.
 Radiography. Electric relay for. H. P. Pilon. 1,634,208; June 28.
 Radio interference eliminator. F. W. Stein. 1,630,980; May 31.
 Radiolack. R. M. C. R. August. 1,627,823; May 10.
 Radio loop or antenna. Telescoping. L. Adams. 1,642,350; Sept. 13.
 Radio loud speaker. S. A. Baker. Des. 73,363; Aug. 30.
 Radio loud speaker. P. Drew and L. C. Zabriskie. Des. 73,741; Nov. 1.
 Radio loud speaker. E. W. Dulzo. Des. 71,784; Jan. 4.
 Radio loud speaker. H. Green. 1,639,030; Aug. 16.
 Radio loud speaker. J. M. Hofmann. Des. 72,095; Mar. 1.
 Radio loud speaker. J. Kersten. Des. 73,184; Aug. 2.
 Radio loud speaker. W. Westphal. 1,648,668; Nov. 8.
 Radio loud-speaker body. C. M. Boudette. Des. 72,695; May 24.
 Radio loud speaker. Cabinet for a. C. A. Lippi. Des. 73,188; Aug. 2.
 Radio loud speaker. Diaphragm for a. B. F. Waddell. Des. 73,883; Nov. 15.
 Radio loud speakers. Grille front for. R. T. Kingsford. Des. 73,261; Aug. 9.
 Radio loud speakers. Mounting for. L. Wulkan. 1,616,246; Feb. 1.
 Radiomantel. C. E. Jennings. Des. 72,016; Feb. 15.
 Radiopanel and sound amplifier. Composite. W. B. Stevenson. 1,652,257; Dec. 13.
 Radio panel board. R. F. Gowen. 1,613,578; Jan. 4.
 Radio parts. Device for supporting. M. Seilgman. 1,643,319; Sept. 27.
 Radiophone meter. J. B. Hoge and E. E. Clement. 1,627,332; May 3.
 Radio picture receiver. Billboard. C. F. Jenkins. 1,643,660; Sept. 27.
 Radio position finding. R. H. Ranger. 1,639,667; Aug. 23.
 Radio printing telegraph system. G. S. Vernam. 1,622,297; Mar. 29.
 Radioreceiver. H. F. Wornor. 1,626,370; Apr. 26.
 Radio receiver and trouble alarm. K. K. Potter. 1,625,822-3; Apr. 26.
 Radio receiver attachment for telephones. G. F. Mitchell. 1,622,335; Mar. 29.
 Radioreceiver. Coin-controlled. R. Sause. 1,650,238; Nov. 22.
 Radioreceivers. Connector for. S. Siegel. 1,633,827; June 28.
 Radioreceivers. Escutcheon plate for. S. Ballantine. Des. 72,138; Mar. 8.
 Radioreceivers. Time-control mechanism for. R. B. Schultheis. 1,628,810; May 17.
 Radioreceivers. Tuning. W. P. Heath. 1,638,734; Aug. 9.
 Radio receiving apparatus. A. H. Grebe. 1,623,918; Apr. 5.
 Radio receiving apparatus. F. A. Kolster. 1,636,570; July 19.
 Radio receiving apparatus. H. E. Lowenstein and E. E. Clement. Re16,606; Apr. 26.
 Radio receiving apparatus. G. H. Stevenson. 1,612,952; Jan. 4.
 Radio receiving apparatus. A. A. Thomas. 1,652,219; Dec. 13.
 Radio receiving apparatus. G. W. Wacker. 1,631,993; June 14.
 Radio receiving apparatus. M. Wallace. 1,627,758; May 10.
 Radio receiving apparatus. Interference-reducing means for. R. H. Ranger. 1,616,923; Feb. 8.
 Radio receiving apparatus. Reproducer for. T. Lindenberg. 1,636,940; July 26.
 Radio receiving circuit. W. Kaufman. 1,620,973; Mar. 15.
 Radio receiving circuits. E. W. House. 1,643,015; Sept. 20.
 Radio receiving devices. Station-recording means for. A. Zillger. 1,646,471; Oct. 25.
 Radio receiving equipment. J. C. R. Palmer. 1,618,468; Feb. 22.
 Radio receiving loop. A. Longworth. Des. 72,161; May 8.
 Radio receiving set. H. D. Currier. 1,650,432; Nov. 22.
 Radio receiving set. A. Wikstrom. 1,648,521; Nov. 8.
 Radio receiving set and sound-amplifying horn. Combined. W. Lytton. 1,649,715; Nov. 15.
 Radio receiving set. Portable. H. Csanyi. 1,617,236; Feb. 8.
 Radio receiving sets and phonographs. Sounding board for. G. C. Lindsey. 1,633,944; June 28.
 Radio receiving sets. Cabinet for. M. C. Lindemann. 1,625,478; Apr. 19.
 Radio receiving sets. Concealed loud speaker for. J. Wolff. 1,653,795; Dec. 27.
 Radio receiving sets. Control switch for the A batteries of. L. H. Smiley. 1,639,539; Aug. 16.
 Radio receiving sets. Controller for. A. C. McCane. 1,618,543; Feb. 22.

- Radio receiving sets, Escutcheon plate for. D. De Mare. Dec. 71,827; Jan. 11.
- Radio receiving sets, Mounting means for. F. L. Lord, 1,640,200; Aug. 23.
- Radio receiving sets, Station-selector dial for. M. Nystrom, 1,634,625; July 5.
- Radio receiving system. O. E. Curtis, 1,614,458; Jan. 18.
- Radio receiving system. W. N. Fanning, 1,649,841; Nov. 15.
- Radio receiving system. E. W. Kellogg, 1,637,045; July 26.
- Radio receiving system. J. M. Miller, 1,639,414; Aug. 16.
- Radio receiving system. C. W. Rice, 1,640,427; Aug. 30.
- Radio receiving system. R. Sachtleber, 1,634,962; July 5.
- Radio receiving system. L. C. Young, 1,651,658; Dec. 6.
- Radio receiving system, Directive. R. A. Heising, 1,620,955; Mar. 15.
- Radio receiving unit, Self-contained. J. S. Fishback, 1,626,803; May 3.
- Radioreception, Aerial for. C. F. Peitzman, 1,649,727; Nov. 15.
- Radiorecord. E. C. Smith, 1,638,277; Aug. 9.
- Radiorecorder. H. P. Sparks, 1,632,150; June 14.
- Radioreproducer. W. L. Eckhardt, 1,653,158-9; Dec. 20.
- Radioreproducer. F. Oberst, 1,653,727; Dec. 27.
- Radioscopes or radiographs, Shield for use in the production of. M. Demarchi, 1,638,683; Aug. 9.
- Radio sending system. F. Conrad, 1,634,322; Dec. 27.
- Radio sending system. D. G. Little, 1,643,781; Sept. 27.
- Radio service metering system. E. E. Clement, 1,635,154-5; July 5.
- Radio sets, Antenna for use with. M. M. Conyers, 1,640,254; Aug. 23.
- Radio sets, Casing for. G. S. Brush, Des. 71,823; Jan. 11.
- Radio sets, Controlling means for. W. G. Dunn, 1,622,499; Mar. 29.
- Radio sets, Frictional-unit control for multial. W. T. Erick, 1,619,419; Mar. 1.
- Radio sets, Recording dial for. E. G. Ballenger, 1,617,191; Feb. 8.
- Radio sets, Supply circuits for. J. G. Aceves, 1,622,170; Mar. 22.
- Radio shield, Rectifying. T. Moore, 1,641,395; Sept. 6.
- Radio signal circuit. A. H. Taylor, 1,613,753; Jan. 11.
- Radiosignaling. C. S. Agate and P. W. Williams, 1,624,201; Apr. 12.
- Radiosignaling antenna system. P. O. Pedersen, 1,614,990; Jan. 18.
- Radio signaling apparatus. H. T. Fris, 1,647,349; Nov. 1.
- Radio signaling apparatus. M. Latour, 1,643,075; Sept. 20.
- Radio signaling apparatus. T. D. Parkin, 1,630,354; May 31.
- Radio signaling circuit. A. H. Taylor and L. C. Young, 1,639,818; Aug. 23.
- Radio signaling system. G. H. Clark, 1,624,215; Apr. 12.
- Radio signaling system. A. Crossley, 1,632,369; June 14.
- Radio signaling system. J. F. Farrington, 1,650,701; Nov. 29.
- Radio signaling system. M. Latour, 1,627,707; May 10.
- Radio signaling system. R. S. Ohl, 1,641,289; Sept. 6.
- Radio signaling system. H. J. Round, 1,642,173; Sept. 13.
- Radio signaling system. L. S. Uphoff, 1,617,467; Feb. 15.
- Radiosignaling, Varying-frequency system of. J. H. Hammond Jr., 1,648,682; Nov. 8.
- Radiosignals, Method and arrangement for the multiple and directed receiving of. V. I. Bashenoff, 1,652,388; Dec. 13.
- Radiospeaker. H. P. De Graff, 1,653,891; Dec. 27.
- Radio speaker stand. I. De Kaiser, Des. 73,870; Aug. 30.
- Radio system. L. W. Chubb, 1,620,062; Mar. 15.
- Radio system. L. M. Knoll, Rel.6,834; Dec. 27.
- Radio system. W. C. MacFadden, 1,639,042; Aug. 16.
- Radio system. P. F. Shuey, 1,637,058; July 26.
- Radio system, Duplex. L. Espenschied and D. K. Martin, 1,616,592; Feb. 15.
- Radiotable. M. Holtzman, 1,620,352; Mar. 8.
- Radio tablet method. C. F. Jenkins, 1,642,110; Sept. 13.
- Radio telegraph and telephone receiving system. F. G. Simpson, Rel.6,805; Nov. 29.
- Radio telegraph system. W. L. Carlson and G. W. Carpenter, 1,640,881; Aug. 30.
- Radiotelegraphic station. J. Bethened, 1,628,648; May 17.
- Radiotelegraphy system. H. Chreix, 1,622,025; Mar. 22.
- Radio telephone receiver. M. L. Martus, E. H. Becker, and J. G. Ross, 1,651,531; Dec. 6.
- Radiotelephony. A. N. Goldsmith and J. Weinberger, 1,622,033; Mar. 22.
- Radiotelephony. P. Ware, 1,627,718; May 10.
- Radiotherapeutics, Ampulla composed of several compartments adapted for the purpose of. W. O. Heublein, 1,626,338; Apr. 26.
- Radio transformer. A. P. Hiney, 1,647,094; Oct. 25.
- Radiotransmission, Apparatus for. A.-E.-R. Z. A. Khalifah, 1,650,944; Nov. 29.
- Radiotransmission, Sound amplifier for. C. O. Snyder, 1,627,672; May 10.
- Radio transmission system. P. S. Carter, 1,623,996; Apr. 12.
- Radio transmission system. H. Schieferstein, 1,626,699; May 3.
- Radiotransmitter, Vacuum-tube. G. Messtorff, 1,626,744; May 3.
- Radiotransmitters, Arrangement for suppressing idle current in. A. Meissner, 1,630,349; May 31.
- Radio transmitting system. F. Conrad, 1, 652,516; Dec. 13.
- Radiotube. H. K. Huppert, 1,631,035; May 31.
- Radio tube and lamp parts, Machine for making. C. Brier, 1,635,316; July 12.
- Radiotube-holding device. A. E. Schuffenhauer, 1,633,041; June 21.
- Radiotube socket. P. A. Chamberlain, 1,641,530; Sept. 6.
- Radiotube socket. G. Mendez, 1,637,084; July 26.
- Radiotubes and other purposes, Apparatus and method of wire drawing and alloy wires used for. C. A. Laise, 1,614,562; Jan. 18.
- Radiotubes, Vibration absorber for. H. A. Bremer, 1,616,176; Feb. 1.
- Radiotuner, Electrostatic. J. Slepian, 1,626,634; May 3.
- Radio tuning coil. G. C. Brooks Jr., 1,646,231; Oct. 18.
- Radio tuning device. W. L. Miller, 1,631,350; June 7.
- Radio tuning device. H. F. Venzke, 1,637,923; Aug. 2.
- Radio tuning inductance. R. T. Williams, 1,645,941; Oct. 18.
- Radio tuning instruments, Logging device for. E. H. Larson, 1,650,802; May 31.
- Radio vacuum tubes, Socket for. C. Saenger, 1,639,971; Aug. 23.
- Radio wave control switch. J. S. Wheeland, 1,653,753; Dec. 27.
- Radio, Web message. C. F. Jenkins, 1,635,324; July 12.
- Radio, Automatic lightning switch for. G. E. Roesch, 1,640,253; Aug. 23.
- Radios, Condenser control for. W. G. Dunn, 1,613,088; Jan. 4.
- Radiumator. S. A. Stein, 1,648,746; Nov. 8.
- Radium emanation in fluids, Process of and apparatus for. R. A. G. Cervi, 1,635,113; July 5.
- Radium emanations, Apparatus for absorbing. A. Cervi, 1,614,825; Jan. 18.
- Radium emanations, Apparatus for administering. H. B. Palmer, 1,620,684; Mar. 15.
- Radium emanator. J. W. O'Neill, 1,615,912; Feb. 1.
- Radium water, Apparatus for generating. A. de Clairmont, 1,645,899; Oct. 18.
- Radirod. J. A. Potis, 1,616,548; Feb. 8.
- Radirod rod. F. W. Wilkins, 1,643,970; Oct. 4.
- Radirod rod and front-axle bracing means. E. Abbott, 1,614,639; Jan. 18.
- Radirod, attachment. G. F. Coley, 1,623,046; Apr. 5.
- Radirod rod brace. M. C. Skaggs and F. Hammock, 1,647,375; Nov. 1.
- Radirod rod clamp. S. C. Ewens, 1,627,695; May 10.
- Radirod rod clamp. H. B. Fairchild, 1,618,373; Feb. 22.
- Radirod rod connection. D. Martin, 1,652,248; Dec. 13.
- Radirod rod holder. W. L. Roper, 1,644,037; Oct. 4.
- Radirod rod reinforcement. E. J. Fagnan, 1,649,158; Nov. 15.
- Radirod rod support. N. K. Hearn, 1,649,691; Nov. 15.
- Raft, Automatically-discharging. G. W. Roberts, 1,634,888; July 5.
- Raft, Log. M. J. Davis, 1,631,403; June 7.
- Raft, Log. M. J. Davis, 1,638,324; Aug. 9.
- Rafter gauge. E. Attaway, 1,628,447; May 10.
- Rail. F. F. Asenjo y Perez del Rio, 1,652,850; Dec. 13.
- Rail. W. G. Coughlin, 1,619,403; Mar. 1.
- Rail anchor. R. L. Cochran, 1,628,231; May 10.
- Rail anchor. F. W. Cooper, 1,618,576; Feb. 22.
- Rail anchor. F. W. Cooper, 1,618,577; Feb. 22.
- Rail anchor. H. Dufford, 1,654,458; Dec. 27.
- Rail anchor. H. H. Gifford, 1,625,938-9; Apr. 26.
- Rail anchor. A. F. Fiffeld, 1,648,300; Nov. 8.
- Rail anchor. H. G. Gilmore, 1,647,909; Nov. 1.
- Rail anchor. F. Hackman, 1,613,608; Jan. 11.
- Rail anchor. G. L. Moore, 1,620,275; Mar. 8.
- Rail anchor. G. L. Moore, 1,650,229; Nov. 22.
- Rail anchor. P. W. Moore, 1,613,404; Jan. 4.
- Rail anchor. G. Picard, 1,632,847; June 21.
- Rail anchor. F. A. Preston, 1,618,674; Feb. 22.
- Rail anchor. F. A. Preston, 1,628,232; May 10.
- Rail anchor. H. N. and A. N. Stamos and T. W. Brown, 1,622,613; Mar. 29.
- Rail anchor. H. G. Warr, 1,613,421; Jan. 4.
- Rail anchor. H. G. Warr, 1,624,028; Apr. 12.
- Rail anchor. H. G. Warr, 1,644,179; Oct. 4.
- Rail anchor. H. G. Warr, 1,647,325; Nov. 1.
- Rail anchor. H. G. Warr, 1,648,084; Nov. 8.
- Rail anchor. E. Woodings, 1,646,780; Oct. 25.
- Rail anchor and tie plate, Combined. W. P. Hesterly, 1,634,994; July 5.
- Rail anchor for railways. J. A. Hyle, 1,622,036; Mar. 22.
- Rail anchor, One-piece spring. A. J. Cook, 1,644,178; Oct. 4.
- Rail anchor plate. S. Sorensen, 1,641,299; Sept. 6.
- Rail anchor, Two-piece. A. J. Cook, 1,638,982; Aug. 16.
- Rail anchors, Apparatus for manufacturing. L. A. Schuchman, 1,644,293; Oct. 4.
- Rail and tie plate, Railway. H. J. Coerper, 1,653,001; Dec. 20.
- Rail anticreep. R. Hill, 1,614,365; Jan. 11.
- Rail anticreep. E. M. McKiever, 1,635,377; July 12

- Rail anticrepper. W. M. Osborn. 1,612,879; Jan. 4.
 Rail anticrepper. A. T. Palmer. 1,620,685; Mar. 15.
 Rail anticrepper. T. Palmer. 1,653,923; Dec. 27.
 Rail anticreeping and tie-plate device. E. J. Boland. 1,635,738; July 12.
 Rail bond. W. F. Daugherty. 1,617,836; Feb. 15.
 Rail bond. C. L. Larson. 1,646,917; Oct. 25.
 Rail bond. F. C. Lavarack and W. M. Page. 1,643,306; Sept. 27.
 Rail bond. T. G. Stiles. 1,643,755; Sept. 27.
 Rail, Bonding. G. E. Thackray. 1,627,352; May 3.
 Rail bonds, Terminal structure for. K. J. Mosebach. 1,634,678; July 5.
 Rail brace. J. G. Mueller. 1,631,325; June 7.
 Rail-bolt connection with di-plate. H. Deiders. 1,629,996; May 24.
 Rail chair. W. M. Osborn. 1,616,592; Apr. 12.
 Rail clamp. C. C. Kely. 1,622,152; Mar. 22.
 Rail clamp. H. Schultz. 1,644,358; Oct. 4.
 Rail-clamp signal. M. A. Ankele. 1,639,877; Aug. 23.
 Rail-clamping means. W. F. Huther. 1,647,701; Nov. 1.
 Rail connector. M. Talaga. 1,616,996; Feb. 8.
 Rail-connecting device. A. H. McCarty. 1,651,723; Dec. 6.
 Rail fastener, Guard-. T. Maney. 1,639,524; Aug. 16.
 Rail fastening. T. Buchholz. 1,640,750; Aug. 30.
 Rail-fastening device. W. C. Leiser. 1,624,555; Apr. 12.
 Rail-fastening means. W. E. Hart. 1,644,373; Oct. 4.
 Rail filler. A. C. Fischer. 1,619,924; Mar. 8.
 Rail filler. A. C. Fischer. 1,651,879; Dec. 6.
 Rail filler. H. L. Rogers. 1,649,192; Nov. 15.
 Rail fixture, Venetian-blind tilting-. A. Trinkaus. 1,659,239; Aug. 16.
 Rail for locomotive stalls. T. Cardwell. 1,625,454; Apr. 19.
 Rail-handling device. J. White. 1,619,908; Mar. 8.
 Rail-holding device. C. P. Kimmel. 1,629,344; May 17.
 Rail-holding device for anticrepper. W. G. Coughlin. 1,640,925; Aug. 30.
 Rail jointer. J. Moviol. 1,627,987; May 10.
 Rail joint. W. H. Bowles. 1,643,830; Sept. 27.
 Rail joint. H. Brownlee. 1,654,410; Dec. 27.
 Rail joint. W. T. Burkhalter and J. Stripling. 1,644,235; Oct. 4.
 Rail joint. H. J. Coerper. 1,613,870; Jan. 11.
 Rail joint. E. D'Amours. 1,622,183; Mar. 22.
 Rail joint. C. Eickemeyer. 1,640,985; Aug. 1.
 Rail joint. E. B. Erickson. 1,645,887; Oct. 18.
 Rail joint. N. G. Franklin. 1,630,063; May 24.
 Rail joint. G. Gal. 1,619,716; Mar. 1.
 Rail joint. Z. T. Hoskins. 1,629,791; May 24.
 Rail joint. W. D. Huff. 1,619,792; Mar. 1.
 Rail joint. J. H. Kator. 1,647,293; Nov. 1.
 Rail joint. F. B. King. 1,645,804; Oct. 18.
 Rail joint. F. C. Kronauer. 1,637,449; Aug. 23.
 Rail joint. W. T. Masters. 1,649,316; Nov. 15.
 Rail joint. D. B. Moisselle. 1,626,349; Apr. 26.
 Rail joint. S. Myers. 1,622,238; Mar. 22.
 Rail joint. E. W. Price. 1,639,859; Aug. 23.
 Rail joint. D. Richter. 1,639,969; Aug. 23.
 Rail joint. R. T. Scholes. 1,638,442; July 19.
 Rail joint. A. Sekely and A. Ladanyi. 1,652,739; Dec. 13.
 Rail joint. W. Sipes. 1,641,014; Aug. 30.
 Rail joint. C. Troup. 1,639,620; Aug. 16.
 Rail joint. W. Waskevics. 1,620,502; Mar. 8.
 Rail joint. W. Vass. 1,633,739; June 28.
 Rail joint. W. F. Wayne. 1,636,884; July 26.
 Rail joint. O. L. Williams. 1,632,359; June 14.
 Rail joint, Flexible. C. A. Disbrow. 1,641,416; Sept. 6.
 Rail joint, Noiseless. C. A. Johnson. 1,617,760; Feb. 15.
 Rail joint, Reversible head-free. V. C. Armstrong. 1,652,807; Dec. 13.
 Rail-joint spring. R. L. Cairncross. 1,619,595; Mar. 1.
 Rail-joint structure, Convertible. M. Thomson. 1,650,551; Nov. 22.
 Rail-joint support. W. G. Coughlin. 1,632,998; June 21.
 Rail joints, Composite wear plate for. C. A. Disbrow. 1,627,742; July 5.
 Rail joints, Construction for head-free. M. Thomson. 1,635,648; July 12.
 Rail joints, Wear-compensating means for. V. C. Armstrong. 1,615,500; Jan. 25.
 Rail-lifting device. H. E. Austin and J. C. Cook. 1,629,468; May 24.
 Rail lock. P. R. Higginbotham. 1,615,274; Jan. 25.
 Rail lock. W. Kupke. 1,627,743; May 10.
 Rail obstacle. J. B. O'Connor. 1,628,552; May 10.
 Rail oiler. H. A. Reed and F. J. Reilly. 1,634,513; July 5.
 Rail or rolled member. G. B. Anthonisen. 1,613,498; Jan. 4.
 Rail-repairing device. J. A. Maher. 1,620,906; Mar. 15.
 Rail-securing device. E. W. Ferguson. 1,644,184; Oct. 4.
 Rail-securing device. S. Jackson. 1,647,229; Nov. 1.
 Rail spike. J. W. Reynolds and C. L. Ball. 1,621,021; Mar. 15.
 Rail-spike puller. E. E. Sarr. 1,650,096; Nov. 22.
 Rail splice. A. S. Karr. 1,645,386; Oct. 11.
 Rail spreader. F. W. Harris. 1,634,684; July 5.
 Rail steel. J. K. Smith. 1,643,321; Sept. 27.
 Rail structure. G. Standfest, Jr. 1,640,858; Aug. 30.
 Rail structure, Guard. E. R. Packer. 1,639,232; Aug. 16.
 Rail support. G. Michalek. 1,632,062; June 14.
 Rail-switch-locking device. Z. Molnar. 1,642,380; Sept. 13.
 Rail tie. C. D. Curry. 1,626,517; Apr. 26.
 Rail tie. M. J. McAndrew. 1,638,740; Aug. 9.
 Rail tie. J. T. Rohm. 1,650,235; Nov. 22.
 Rail tie and rail fastening means. C. Sawyer. 1,613,295; Jan. 4.
 Rail support. L. L. Webster. 1,626,317; Apr. 26.
 Rail track, Shock-insulated. A. F. Masury and E. C. Fink. 1,619,028; Mar. 1.
 Rail-tying device. S. W. Fiach. 1,630,696-7; May 31.
 Rails and its application, Apparatus used in bonding. W. P. Boward. 1,623,654; Apr. 5.
 Rails and the like, Machine for preparing bases for. B. G. Carr. 1,648,637; Nov. 8.
 Rails, Balanced splice bar for running. V. G. Armstrong. 1,654,397; Dec. 27.
 Rails, Device for tilting. F. E. Howells and L. L. Leach. 1,643,714; Sept. 27.
 Rails, Securing means for. S. Klen. 1,632,605; June 14.
 Railroad crossings, Automatic safety gate for. G. F. Carson. 1,620,789; Mar. 15.
 Railroad-grade crossing. J. A. Dailey and L. W. Gerth. 1,623,911; Apr. 5.
 Railroad grass-line and ditch cutter. W. H. Rednour. 1,628,505; May 17.
 Railroad spikes, Apparatus for driving. J. G. Fogarty. 1,620,812; Mar. 15.
 Railroad switch. P. O. Brown. 1,625,241; Apr. 19.
 Railroad tie. E. A. Lockwood. 1,627,788; May 10.
 Railroad tie, Metal. L. F. Cavanaugh. 1,654,280; Dec. 27.
 Railroad ties, Anchor block for. G. F. A. Ochs. 1,638,508; May 10.
 Railway. Adial. F. P. Archer. 1,636,619; July 19.
 Railway, Amusement gravity suspension. I. Miller. 1,651,961; Dec. 6.
 Railway and like fare system and means used therewith. A. J. Tanner. 1,625,170; Apr. 19.
 Railway apparatus. A. W. Fisher and W. B. Wells. 1,621,196; Mar. 15.
 Railway apparatus. C. S. Snively and A. W. Fisher. 1,621,197; Mar. 15.
 Railway appliances, Automatic limit control means for interlocking levers of. C. Adler, Jr. 1,638,793; Aug. 9.
 Railway brake. W. Hildebrand. 1,618,197; Feb. 22.
 Railway braking apparatus. J. P. Coleman. 1,626,919; May 3.
 Railway braking apparatus. L. V. Lewis. 1,626,941; May 3.
 Railway braking apparatus. H. S. Loomis. 1,643,669; Sept. 27.
 Railway braking apparatus, Audible signal for. L. V. Lewis. 1,641,768; Sept. 6.
 Railway, Braking arrangement for high-speed suspension. F. Kruckenberg and C. Stedefeld. 1,614,841; Jan. 18.
 Railway, Braking arrangement for high-speed suspension. F. Kruckenberg and C. Stedefeld. 1,614,842; Jan. 18.
 Railway, Braking arrangement for high-speed suspension. F. Kruckenberg and C. Stedefeld. 1,624,141; Apr. 28.
 Railway buffer construction. F. Rawie. 1,614,202; Jan. 11.
 Railway bumping post. A. E. Schultz. 1,629,124; May 17.
 Railway cars, Side bearing for. H. M. Perry. 1,615,955; Feb. 15.
 Railway control, Automatic. G. M. B. Hawley. 1,621,838; Mar. 22.
 Railway crossing. J. W. Brown. 1,632,725; June 14.
 Railway crossing. N. J. Campbell. 1,653,262; Dec. 20.
 Railway crossing. E. M. Metcalf. 1,613,236; Jan. 4.
 Railway crossing. H. Mills. 1,627,800; May 10.
 Railway crossing. N. Zink. 1,627,877; May 10.
 Railway-crossing gate. L. Hirsch. 1,617,054; Feb. 8.
 Railway-crossing gate. I. A. Moore and T. M. Ely. 1,638,502; Aug. 9.
 Railway-crossing gate. E. E. Sarr. 1,646,877; Oct. 25.
 Railway-crossing gate. W. B. Watson. 1,629,605; May 24.
 Railway-crossing-gate-operating device. G. Moore. 1,627,052; May 3.
 Railway-crossing gate, Train-controlled. A. E. Brown. 1,633,517; June 21.
 Railway-crossing gates, Yieldable barrier for automatic. J. B. Burrell. 1,628,651; May 17.
 Railway-crossing guard. W. H. Golding. 1,619,070; Mar. 1.
 Railway-crossing safety device. G. P. Springfield. 1,631,387; June 7.
 Railway-crossing signal. J. H. Estes and W. P. Williams. 1,625,459; Apr. 19.
 Railway-crossing signal and bar, Automatic. S. P. Smith. 1,635,143; July 5.
 Railway-crossing surface. J. F. Redman and K. W. Schmidt. 1,618,948; Feb. 22.
 Railway-crossing system. M. A. Kuhn and G. D. Gehhart. 1,616,809; Feb. 8.
 Railway crossings, Gate for. V. and J. Szuch. 1,639,866; Aug. 23.
 Railway crossings, Safety device for. B. Thomas. 1,615,529; Jan. 25.
 Railway, Draft appliance. W. McConway, Jr. 1,617,404; Feb. 15.
 Railway, Elevated. J. M. Rose. 1,616,761; Feb. 8.

- Railway frog. L. M. Leedom. 1,636,373; July 19.
 Railway frog. A. L. Vissat. 1,634,638; July 5.
 Railway gate. J. M. Cobros. 1,616,857; Feb. 8.
 Railway gate. P. Frulla. 1,625,937; Apr. 26.
 Railway gate. C. D. Scott. 1,640,748; Nov. 15.
 Railway gate, Automatic. A. W. Musselman. 1,654,010; Dec. 27.
 Railway gate, Pneumatically-operated. F. L. Beck. 1,638,315; Aug. 9.
 Railway guard rails, Plate and brace for. H. Goodwin. 1,636,802; July 19.
 Railway guide. G.-R. Luginbuhl. 1,642,616; Sept. 13.
 Railway journal boxes, Lubricator for. C. B. Royal. 1,626,428; Apr. 26.
 Railway-mail-delivery apparatus. H. A. Wright. 1,631,238; June 7.
 Railway-motor mounting. C. Bethel. 1,619,397; Mar. 1.
 Railway or like vehicles, Axle-box cover for. G. F. Darling. 1,648,878; Nov. 8.
 Railway or like vehicles, Transition coupling for. G. A. R. Trimming. 1,647,486; Nov. 1.
 Railway or tramway rail joint. E. A. Byrde. 1,633,977; June 28.
 Railway point, signal, and the like. J. H. Nicholson and W. S. Roberts. 1,636,068; July 19.
 Railway points and switches, Ground lever for. J. J. Ferguson, R. Maguire, G. J. Ferguson, J. J. Ferguson, Jr., J. H. Anderson, and P. McGuire. 1,658,952; Dec. 27.
 Railway-rail brace. C. L. Ruse. 1,643,177; Sept. 20.
 Railway rail for detaching brake skids. L. Digna. 1,648,379; Nov. 8.
 Railway-rail joint. P. McGinley. 1,640,791; Aug. 30.
 Railway-rail support. H. Etheridge. 1,615,327; Jan. 25.
 Railway rails and switches, Heating device for. L. M. Leedom. 1,653,917; Dec. 27.
 Railway rails, Anticreep and brace for. M. L. Harvey. 1,647,176; Nov. 1.
 Railway rails, Anticreep for. W. S. Weston. 1,646,512; Oct. 25.
 Railway rails, Anticreeping device for. E. F. Hollinger. 1,615,190; Jan. 18.
 Railway rails, Anticreeping device for. E. F. Hollinger. 1,638,095-6; Aug. 9.
 Railway rails, Device for preventing spreading of. C. H. Tibbetts. 1,651,075; Nov. 29.
 Railway rails, Guard means for. H. B. Cowley. 1,614,658; Jan. 18.
 Railway rolling stock, Sander for. W. H. Quin. 1,614,207; Jan. 11.
 Railway safety appliance. C. H. Gage. 1,648,383; Nov. 8.
 Railway safety block. J. Lippis and M. E. Somerville. 1,629,669; May 24.
 Railway signal. L. Wyant. 1,648,527; Nov. 8.
 Railway signal and train-control system. M. H. Loughridge. 1,627,565; May 10.
 Railway signal, Automatic. R. Gross. 1,628,663; May 17.
 Railway signal, Illuminated. C. H. W. Edmonds. 1,628,714; May 17.
 Railway-signal system. J. L. Woodbridge. 1,630,727; May 31.
 Railway signal torpedo. J. W. Edmonds. 1,632,464; June 14.
 Railway signaling. L. O. Grondahl. Des. 16,784; Nov. 8.
 Railway signaling. L. O. Grondahl. 1,619,928; Mar. 8.
 Railway signaling. S. M. Lucas. 1,621,674; Mar. 22.
 Railway signaling. F. H. Nicholson. 1,621,679; Mar. 22.
 Railway signaling. L. Wyant. 1,633,302; June 21.
 Railway signaling apparatus. L. O. Grondahl. 1,653,625; Dec. 27.
 Railway signaling apparatus. L. H. Peter. 1,646,420; Oct. 25.
 Railway signaling apparatus. A. L. Vencil. 1,620,704; Mar. 15.
 Railway signaling apparatus. H. A. Wallace. 1,628,290; May 10.
 Railway signaling apparatus. H. S. Young. 1,626,657; May 3.
 Railway signaling device. J. Müller. 1,617,268; Feb. 8.
 Railway signaling system. J. M. Andersen. 1,624,087; Apr. 12.
 Railway signaling system. E. C. Larry. 1,627,440; May 3.
 Railway signals, Direct-current track circuit for. S. S. Strap. 1,626,643; May 3.
 Railway skate operating apparatus. E. G. Little. 1,641,178; Sept. 6.
 Railway sleeper. F. P. de los Cobos y Cerdá and V. Ysern y Domínguez. 1,615,744; Jan. 25.
 Railway structure, Pleasure-. J. A. Miller. 1,613,118; Jan. 4.
 Railway structure, Pleasure-. J. A. Miller. 1,629,520; May 24.
 Railway switch. D. C. Boone and J. T. Burkett. 1,638,911; Aug. 16.
 Railway switch. H. J. Dyke. 1,626,520; Apr. 26.
 Railway switch. R. M. Evans. 1,653,998; Dec. 27.
 Railway switch. B. H. Patrick. 1,626,752; May 3.
 Railway switch, Automatic. J. Szabo and A. Ladane. 1,622,980; Mar. 29.
 Railway-switch, Automatic. T. Tostado. 1,618,300; Feb. 22.
 Railway switch circuits, Overhead contact for electric. C. S. Eppley. 1,613,225; Jan. 4.
 Railway switch, Locking and operating means. D. F. Griffey. 1,627,503; May 3.
 Railway-switch-operating device. J. and C. Czerniak. 1,620,326; Mar. 8.
 Railway switch points, Locking bar and plate for. G. L. Coverthwaite. 1,641,575; Sept. 6.
 Railway switches. Control and indication of. A. T. Johnston. 1,620,893; Mar. 15.
 Railway switches, Safety device for. C. Googe and H. Lindsey. 1,646,287; Oct. 18.
 Railway switching device. B. Martini. 1,640,204; Aug. 28.
 Railway system, Electric. J. A. Jackson. 1,632,653; June 14.
 Railway system, Overhead. J. C. King. 1,621,790; Mar. 22.
 Railway tie. A. L. Adamy. 1,645,514; Oct. 18.
 Railway tie. K. S. Charwood. 1,615,056; Feb. 15.
 Railway tie. W. R. Halletty. 1,626,082; Apr. 26.
 Railway tie. T. J. Henry. 1,615,104; Oct. 11.
 Railway tie. J. J. Hinde. 1,623,185; Apr. 5.
 Railway tie. J. B. Kelly. 1,618,932; Feb. 22.
 Railway tie. W. H. Lacey. 1,616,266; Feb. 1.
 Railway tie. L. Sargent. 1,630,234; Aug. 16.
 Railway tie. A. J. Stoiberg. 1,645,629; Oct. 18.
 Railway tie. J. Sutinen. 1,651,196; Nov. 29.
 Railway tie. C. A. Widner. 1,653,527; Dec. 20.
 Railway tie and rail fastener. C. Biernat. 1,628,449; Jan. 10.
 Railway tie and rail fastener. J. F. Brown. 1,626,075; Apr. 26.
 Railway tie, Composite reinforced. C. W. Lee. 1,630,190; May 24.
 Railway tie, Concrete. N. F. Brown and C. M. Reppert. 1,628,508; Feb. 22.
 Railway tie, Concrete. H. J. Lipham. 1,622,259; Mar. 22.
 Railway tie, Machine for replacing. R. S. Kniffen. 1,613,037; Jan. 4.
 Railway-tie mechanism. A. V. Rudd. 1,633,130; June 21.
 Railway tie, Metal. W. W. Mechling. 1,640,846; Aug. 30.
 Railway tie, Metal. A. Mitchell. 1,620,730; Mar. 15.
 Railway-tie plate. W. B. Hill. 1,618,928; Feb. 22.
 Railway-tie remover. B. J. Hoover. 1,627,094; May 3.
 Railway tie, Sectional. J. Hojnowski. 1,646,248; Oct. 18.
 Railway-tie truss. J. E. Feagans. 1,632,466; June 14.
 Railway ties, Railfastening means for. C. W. Lee. 1,634,200; June 28.
 Railway track. W. Dalton. 1,643,701; Sept. 27.
 Railway-track-circuit regulation. C. H. Zierdt. 1,613,259; Jan. 4.
 Railway-track construction. R. L. Spencer. 1,625,288; Apr. 26.
 Railway-track construction. R. J. Wells. 1,627,217; May 3.
 Railway-track-crossing structure. L. Morrow. 1,626,146; Apr. 26.
 Railway-track dresser. A. J. Applegate. 1,653,423; Dec. 20.
 Railway-track joint. W. H. Schneider. 1,630,584; May 31.
 Railway-track rail. A. R. Raymer. 1,638,458; Aug. 9.
 Railway tracks, Device for lining. H. J. Miller. 1,618,049; Feb. 15.
 Railway-traffic-controlling apparatus. P. H. Geiger. 1,626,928; May 3.
 Railway-traffic-controlling apparatus. R. M. Gilson. 1,628,313; May 10.
 Railway-traffic-controlling apparatus. R. M. Gilson. 1,631,808; June 7.
 Railway-traffic-controlling apparatus. L. O. Grondahl. 1,629,617; May 24.
 Railway-traffic-controlling apparatus. L. O. Grondahl. 1,644,428; Oct. 4.
 Railway-traffic-controlling apparatus. H. O. Holte. 1,626,624; Apr. 24.
 Railway-traffic-controlling apparatus. H. O. Holte. 1,642,584; Sept. 13.
 Railway-traffic-controlling apparatus. L. F. Howard. 1,620,531; May 31.
 Railway-traffic-controlling apparatus. L. F. Howard. 1,624,248; Apr. 12.
 Railway-traffic-controlling apparatus. F. W. Lee and L. O. Grondahl. 1,638,043; Aug. 9.
 Railway-traffic-controlling apparatus. L. V. Lewis. 1,642,073; Sept. 13.
 Railway-traffic-controlling apparatus. S. M. Lucas. 1,627,637; May 10.
 Railway-traffic-controlling apparatus. S. M. Lucas. 1,652,313; Dec. 13.
 Railway-traffic-controlling apparatus. R. A. McCann. 1,657,571; Mar. 15.
 Railway-traffic-controlling apparatus. R. A. McCann. 1,616,536; Feb. 8.
 Railway-traffic-controlling apparatus. R. A. McCann. 1,622,460; Mar. 29.
 Railway-traffic-controlling apparatus. R. A. McCann. 1,626,006; Apr. 26.
 Railway-traffic-controlling apparatus. R. A. McCann. 1,626,949; May 3.
 Railway-traffic-controlling apparatus. R. A. McCann. 1,629,832; May 24.
 Railway-traffic-controlling apparatus. R. A. McCann. 1,640,419; Aug. 30.

- Railway-traffic-controlling apparatus. L. L. Nettleton. 1,636,067; July 19.
- Railway-traffic-controlling apparatus. L. L. Nettleton and L. O. Grandahl. 1,638,056; Aug. 9.
- Railway-traffic-controlling apparatus. F. H. Nicholson. 1,616,541; Feb. 8.
- Railway-traffic-controlling apparatus. F. H. Nicholson. 1,632,037; June 14.
- Railway-traffic-controlling apparatus. F. H. Nicholson. 1,642,082; Sept. 13.
- Railway-traffic-controlling apparatus. M. A. Penrod. 1,631,832; June 7.
- Railway-traffic-controlling apparatus. H. A. Thompson. 1,619,221; Mar. 1.
- Railway-traffic-controlling apparatus. H. A. Thompson. 1,628,287; May 10.
- Railway-traffic-controlling apparatus. H. A. Thompson. 1,631,842; June 7.
- Railway-traffic-controlling apparatus. H. A. Thompson. 1,633,049; June 21.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,624,125; Apr. 12.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,626,486; Apr. 26.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,626,895; May 3.
- Railway traffic controlling apparatus. H. A. Wallace. 1,629,187; May 17.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,636,026; July 19.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,638,178; Aug. 9.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,639,544; Aug. 16.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,642,052; Sept. 13.
- Railway-traffic-controlling apparatus. H. A. Wallace. 1,651,491; Dec. 6.
- Railway-traffic-controlling system. M. H. Loughbridge. 1,627,566; May 10.
- Railway-traffic-controlling system and apparatus. M. H. Loughbridge. 1,627,567; May 10.
- Railway-traffic-governing apparatus. D. W. Richards and H. P. Hancock. 1,620,690; Mar. 15.
- Railway trains independently of the driver, Device for stopping. P. Bildstein and E. Seidel. 1,627,724; May 10.
- Railway-transfer clamp. W. D. Wright. 1,618,855; Feb. 22.
- Railway trucks, Safety shoe for. F. Hornquist. 1,626,610; May 3.
- Railway vehicle. H. Zoelly. 1,623,516; Apr. 5.
- Railway-vehicle ash or other waste transfer method and apparatus. S. S. Riegel. 1,625,429; Apr. 19.
- Railway vehicles, Apparatus for braking. A. De Lathauwer. 1,646,900; Oct. 25.
- Railway vehicles, Automatic coupling for. L. Kúrtössy. 1,618,836; Feb. 22.
- Railway vehicles, Brake of. J. McMahon. 1,616,502; Feb. 8.
- Railway vehicles, Repositioning device for swinging coupling heads on. M. Alma and C. E. Alma. 1,622,942; June 21.
- Railway wagons and the like, Construction of. A. L. Wright and F. I. Smedley. 1,614,941; Jan. 18.
- Railways, Air brake for. F. Kasantzeff. 1,621,987; Mar. 22.
- Railways and the like, Crossing guard for. C. L. Cook. 1,653,697; Dec. 27.
- Railways and the like, Substructure for. O. Valeri. 1,616,011; Feb. 1.
- Railways, Cattle guard for. J. F. Hollenback. 1,634,872; July 5.
- Railways, Guard-rail structure for. C. R. Miller. 1,650,953; Nov. 29.
- Railways, Safety device for. J. J. H. Morel-Révoill. 1,633,906; June 28.
- Railways, Third-rail electric-current feeding system for electric. A. Doan. 1,629,025; May 17.
- Railways, Traffic-controlling apparatus for. W. S. Roberts and J. H. Burton. 1,615,652; Jan. 25.
- Railways, Transport wagon for. J. Jonsson. 1,628,543; May 10.
- Rain catcher. C. C. Carpenter. 1,647,900; Nov. 1.
- Raincoat, Emergency. O. W. and C. H. Johnson. 1,639,185; Aug. 16.
- Raising machines, Raising fillet for. C. Walker. 1,622,893; Mar. 29.
- Raisins and the like, Apparatus and method for determining the moisture content of. P. F. Nichols. 1,623,263; Apr. 5.
- Rake: See—
Buck rake. Hay rake.
Bunch rake. Lawn rake.
Grass-root rake. Rotary rake.
Hay-bunching rake.
- Rake. D. B. Brown. 1,647,077; Oct. 25.
- Rake. R. C. Orren. 1,628,994; May 17.
- Rake. M. W. Otto. 1,614,385; Jan. 11.
- Rake. F. E. Richardson. 1,621,276; Mar. 15.
- Rake cleaner. G. L. and C. L. Popp. 1,651,291; Nov. 29.
- Rake cleaner. J. R. Seaton. 1,648,284; Nov. 8.
- Rake, Lawn. H. J. L. Chinnick. 1,650,428; Nov. 22.
- Ram. M. W. Faherty. 1,619,605; Mar. 1.
- Range. W. A. Busiek. 1,616,680; Feb. 8.
- Range and burner therefor. Gas. A. Stockstrom. 1,648,789; Nov. 8.
- Range, Coal. H. Lange. Des. 73,661; Oct. 13.
- Range, Combination. H. Lange. 1,637,950; Aug. 2.
- Range, Cooking. C. C. Armstrong. 1,652,292; Dec. 13.
- Range, Electric. A. T. Smith. Des. 71,851; Jan. 11.
- Range, Electric. H. A. Ziola. Des. 73,359; Aug. 23.
- Range, Gas. J. Hansen. Des. 73,697; Oct. 25.
- Range, Gas. A. F. Harter. 1,646,850; Oct. 25.
- Range, Gas. R. Methudy. Des. 73,708; Oct. 25.
- Range, Gas. H. W. O'Dowd. 1,649,416-17; Nov. 15.
- Range, Gas. S. A. Wilde. 1,645,784; Oct. 18.
- Range, Gas. S. A. Wilde. 1,645,848; Oct. 18.
- Range, Kitchen. W. Bennett. Des. 72,202; Mar. 15.
- Range, Liquid-fuel gas. W. C. McKeown. 1,653,867; Dec. 27.
- Range, Rotary roasting. A. E. Troiel. 1,630,644; May 31.
- Range water top. Gas. P. Gustason. 1,613,454; Jan. 4.
- Ranges, Detachable plate for concealed manifolds of gas. J. Roy. 1,643,476; Sept. 20.
- Ranges, Manifold for gas. A. H. Tinnerman. 1,651,166; Dec. 27.
- Ranges, Switch mounting for electric. G. H. Hart. 1,632,097; June 21.
- Rasp. Welt. J. E. McCutchen. 1,648,819; Nov. 8.
- Rat and mink trap. H. J. Bell. 1,642,194; Sept. 13.
- Rat guard. N. Heymann. 1,641,081; Aug. 30.
- Rat trap. W. A. Mead. 1,611,345; Sept. 6.
- Rat-poison holder. T. Davis. 1,633,982; June 28.
- Rat trap. A. S. Bacon. 1,641,062; Aug. 30.
- Ratchet drill. H. W. Barbour. 1,635,882; July 12.
- Ratchet-operating device. H. A. Morris. 1,630,403; May 31.
- Ratchet threading tool. W. W. Vosper. 1,628,757; May 17.
- Ratchet wrench. J. E. Coe. 1,639,078; Aug. 16.
- Ratchet wrench. A. de Herteldy. 1,646,350; Oct. 18.
- Ratchet wrench. S. R. Enbers. 1,621,499; Mar. 22.
- Ratchet wrench. W. J. O'Neill. 1,644,079; Oct. 4.
- Ratchet wrench, Double-acting. K. Langkammerer. 1,652,367; Dec. 13.
- Rattle. Baby. B. J. Feldstein. 1,627,168; May 3.
- Rayon fibers, Making hollow. W. O. Snelling. 1,631,071; May 31.
- Rays of light, Diffusing and coloring. H. M. Bir. 1,625,407; Apr. 19.
- Razor. M. Alland. 1,624,707; Apr. 12.
- Razor. M. D. Anderson. 1,632,778; June 21.
- Razor. W. Kitzul. 1,620,901; Mar. 15.
- Razor. W. G. Wallenbeck. 1,643,757; Sept. 27.
- Razor and blade sharpener. Combined safety. T. B. Crews. 1,622,904; Mar. 29.
- Razor-blade holder. H. J. Galsman. 1,629,863; May 24.
- Razor-blade holder. J. Holtzman. 1,617,357; Nov. 1.
- Razor-blade holder. J. J. Lloyd. 1,616,813; Feb. 8.
- Razor-blade holder. L. O. McGourty. 1,648,618; Nov. 8.
- Razor-blade holder. R. J. Stanf. 1,634,387; July 5.
- Razor-blade holder. W. M. Tietz. 1,624,640; Apr. 12.
- Razor-blade holder for stropping safety-razor blades. R. H. Cordrey. 1,652,517; Dec. 13.
- Razor-blade holder, Safety-. E. T. Middlecoff. 1,632,910; June 21.
- Razor-blade holder, Safety-. H. S. Noddings. 1,627,664; May 10.
- Razor-blade stropper. W. J. Gosling. 1,653,271; Dec. 20.
- Razor-blade stropper. Automatically-reversing. F. N. Sprague. 1,651,781; Dec. 6.
- Razor-blade stropper. Safety-. G. D. Gallagher. 1,624,593; Apr. 12.
- Razor-blade wipers and used razor blades, Combination holder for. D. P. Ordway. 1,646,100-1; Oct. 18.
- Razor blades, Device for sharpening straight and safety. C. E. Stegner. 1,619,833; Mar. 8.
- Razor blades, Stropping holder for safety-. G. B. Wheeler. 1,645,676; Oct. 18.
- Razor case. C. D. Lorenz. 1,615,396; Jan. 25.
- Razor compact. V. R. Parton. 1,620,889; Mar. 8.
- Razor, Electric. S. P. Jones. 1,613,953; Jan. 11.
- Razor, Electrical safety. W. P. Aron. 1,625,015; Apr. 19.
- Razor hone. A. De Vivo. 1,617,015; Feb. 8.
- Razor-hone holder. F. J. Mirgon. 1,634,881; July 5.
- Razor, Safety. W. G. Adams. 1,617,189; Feb. 8.
- Razor, Safety. W. G. Adams. 1,653,081; Dec. 20.
- Razor, Safety. E. Adler. 1,616,210; Feb. 1.
- Razor, Safety. W. E. Bloech. 1,613,425; Jan. 4.
- Razor, Safety. J. E. Connolly. 1,651,917; Dec. 6.
- Razor, Safety. J. J. Earley. 1,617,238; Feb. 8.
- Razor, Safety. H. J. Galsman. 1,633,739; June 28.
- Razor, Safety. H. J. Galsman and C. Schumacker. 1,652,568; Dec. 3.
- Razor, Safety. C. H. Haggood. 1,644,187; Oct. 4.
- Razor, Safety. J. Holtzman. 1,642,338; Sept. 13.
- Razor, Safety. E. N. Kennedy. 1,643,323; Sept. 27.
- Razor, Safety. J. L. King. 1,653,105; Dec. 20.
- Razor, Safety. J. J. Libl. 1,652,154; Dec. 6.
- Razor, Safety. M. Mancher. 1,648,054; Nov. 8.
- Razor, Safety. D. Petard. 1,627,927; May 10.
- Razor, Safety. D. E. J. Petard. 1,645,021; Oct. 11.
- Razor, Safety. J. and M. Roman. 1,629,416; May 17.
- Razor, Safety. J. Schick. 1,652,888; Dec. 13.

- Razor, Safety. C. L. Skelley. 1,635,642; July 12.
 Razor, Safety. O. Spahr. 1,639,441; Aug. 16.
 Razor, Safety. R. C. G. Staats-Oels. 1,638,189; June 21.
 Razor, Safety. L. Taplinger. 1,618,895; Feb. 22.
 Razor strop. M. W. McArdle. 1,646,415; Oct. 25.
 Razor strop and treating the same. D. P. Shea. 1,651,911; Dec. 6.
 Razor-strop stretcher. T. Thompson. 1,624,851; Apr. 12.
 Razor-stropping device. V. L. Capwell. 1,625,408; Apr. 19.
 Razor-stropping device. M. H. Rhodes. 1,614,492; Jan. 18.
 Razor-stropping means. H. J. Gaisman. 1,624,328; Apr. 12.
 Razor with rolling blade, Safety. R. Piro. 1,635,342; July 12.
 Razors. Sanitary device for cleaning and wiping. L. Humbert. 1,618,661; Feb. 22.
 Reactor. J. S. Hebrew and E. E. Ross. 1,635,042; July 5.
 Reactor. W. B. Kirke. 1,644,135; Oct. 5.
 Reamer. J. R. Aulenback. 1,635,067; July 5.
 Reamer. F. F. Blanco. 1,630,602; May 31.
 Reamer. G. Friz. 1,645,696; Oct. 18.
 Reamer. S. H. Norton. 1,618,217; Feb. 22.
 Reamer. C. P. Whetmore. 1,621,227; Mar. 15.
 Reamer, Commutator. J. Locken. 1,651,286; Nov. 29.
 Reamer drill. R. H. Kergan. 1,614,368; Jan. 11.
 Reamer, Drill-hole. J. Ross. 1,621,812; Mar. 22.
 Reamer, Expanding. S. Welsby. 1,635,103; July 5.
 Reamer, Expansion. E. B. Davis. 1,619,855; Mar. 8.
 Reaming apparatus. F. W. Conant. 1,646,054; Oct. 18.
 Reaming mechanism. B. C. Hinckley. C. J. Thoman, and G. E. Holton. 1,630,083; May 24.
 Reaming or boring tool. G. W. Benedict. 1,630,515; May 31.
 Reaming or boring tool. R. R. Davis. 1,627,887; May 10.
 Reamers. Grinding attachment for. A. C. Lindholm. 1,626,244; Apr. 26.
 Reaping, mowing, and the like machines, Cutting device for. V. Hejma. 1,627,644; May 19.
 Rebering device. C. W. Wright. 1,618,037; Feb. 15.
 Rebering machine, Connecting-rod. O. Kylin. 1,616,052; Feb. 1.
 Rebound check. R. H. Hassler. 1,646,584; Oct. 25.
 Rebound check with lubricating system. R. H. Hassler. 1,646,588; Oct. 25.
 Rebound retarder. J. B. Kirby. 1,641,334; Sept. 6.
 Receiver. G. W. Elmen. 1,642,778; Sept. 20.
 Receiver. W. C. Jones. 1,642,777; Sept. 20.
 Receiving system, Heterodyne. W. F. Cotter. 1,647,609; Nov. 1.
 Rectifiering device. H. Kettler. 1,625,032; Apr. 19.
 Rectification. R. M. G. M. d'Arleux. 1,627,233; May 3.
 Rectification. S. B. Girdler. 1,634,777; July 5.
 Rectification. F. Goertz. 1,642,366; Sept. 13.
 Rectification. F. Goertz and W. E. Wacker. 1,636,184; July 19.
 Rectification. A. Gran. 1,627,282; May 3.
 Rectification. M. Guett. 1,648,805; Nov. 8.
 Rectification. A. Janer. 1,622,318; Mar. 29.
 Rectification. G. H. Knowles. 1,624,955; Apr. 19.
 Rectification. E. Korsetz. 1,629,728; Mar. 29.
 Rectification. L. A. Marcus. 1,634,876; July 5.
 Rectification. E. McCree. 1,645,765; Oct. 18.
 Rectification. D. C. Murphy. 1,624,273; Apr. 12.
 Rectification. E. B. Nathan. 1,629,837; May 24.
 Rectification. M. Ness. 1,618,548; Feb. 22.
 Rectification. E. J. Qvarnstrom. 1,631,334; June 7.
 Rectification. J. A. Rose. 1,613,556; Jan. 4.
 Rectification. F. Stoner. 1,646,266; Oct. 18.
 Rectification. F. P. Wagner, Jr. 1,651,169; Nov. 29.
 Rectification and blank therefor. C. Barbieri. 1,632,019; June 14.
 Rectification and cover for same. S. W. Hind. 1,613,826; Jan. 11.
 Rectification and handle therefor. F. J. Hempen and O. Lipsmeier. 1,623,409; Apr. 5.
 Rectification and illuminated sign, Combined. B. L. Overton and F. L. Overton. 1,645,870; Oct. 18.
 Rectification. Ash. J. S. Wise, Jr. 1,639,760; Aug. 23.
 Rectification. Bazilike. M. G. Schenier. 1,639,005; Aug. 16.
 Rectification balls, Attaching device for. J. C. Andresen and H. F. Marten. 1,639,975; Aug. 23.
 Rectification. Bottle. H. Culp. 1,620,079; Mar. 8.
 Rectification. Button. J. C. Day. 1,633,725; June 28.
 Rectification closure. L. R. N. Carvalho. 1,626,917; May 3.
 Rectification closure. L. R. N. Carvalho. 1,626,918; May 3.
 Rectification closure. A. J. Dowling. 1,617,202; Feb. 8.
 Rectification closure. W. C. Mills. 1,620,825; Mar. 15.
 Rectification closure. R. A. Russell. 1,653,276; June 21.
 Rectification closure. R. A. Russell. 1,645,158; Oct. 11.
 Rectification closure. E. C. Seward. 1,645,164; Oct. 11.
 Rectification closure. H. T. Snyder. 1,630,360; May 31.
 Rectification closure therefor, and dauber, Combined. R. A. Russell. 1,645,159; Oct. 11.
 Rectification. Collapsible. J. B. Curran. 1,620,803; Mar. 15.
 Rectification. Collapsible. C. A. Hickson. 1,636,186; July 19.
 Rectification, Contact. A. C. Gaynor. 1,641,223; Sept. 6.
 Rectification cover. A. C. Grunwald. 1,640,934; Aug. 30.
 Rectification, Covered. C. J. Aubach. 1,621,487; Mar. 22.
 Receiptacle, Deposit. J. M. Sawdey. 1,644,039; Oct. 4.
 Receiptacle-depositing mechanism. C. N. Bergmann. 1,636,208; July 19.
 Receiptacle, Dispensing. J. H. Miller. 1,638,779; Aug. 19.
 Receiptacle, Dispensing. R. J. Miller. 1,642,425; Sept. 13.
 Receiptacle, Dispensing. B. O. Rhodes. 1,648,029; Nov. 8.
 Receiptacle, Dispensing. R. K. Ricketts. 1,619,315; Mar. 1.
 Receiptacle, Display. A. Brown and R. G. Peck. 1,628,108; May 10.
 Receiptacle, Display. C. T. Hatch. 1,640,405; Aug. 30.
 Receiptacle, Display. R. G. Peck and A. Brown. 1,628,350; May 10.
 Receiptacle, Duplex. W. Ile. 1,633,668; June 28.
 Receiptacle, Electrical. F. J. Hines. 1,645,950; Oct. 18.
 Receiptacle, Filling and shipping. H. S. Upjohn. 1,634,699; July 5.
 Receiptacle filling and draining device. W. H. Scott. 1,630,543; May 31.
 Receiptacle - filling apparatus. C. N. Bergmann. 1,635,159-60; July 5.
 Receiptacle, Flush. P. Hartmann. 1,615,302; Jan. 25.
 Receiptacle, Food. M. A. Rollman. 1,624,010; Apr. 12.
 Receiptacle for ashes and the like. F. E. Wakefield. 1,615,968; Feb. 1.
 Receiptacle for carrying infants. T. H. Love. 1,625,038; Apr. 19.
 Receiptacle for cigarette ashes and the like. W. F. Herold. 1,652,826; Dec. 15.
 Receiptacle for discharging fluids. W. M. Fulton. 1,647,219; Nov. 1.
 Receiptacle for food, Ventilated wall. C. L. Haywood. 1,638,120; Aug. 9.
 Receiptacle for golf tees and matches. E. J. McGraw. 1,649,245; Nov. 15.
 Receiptacle for paste or mucilage. C. H. Payne. 1,613,358; Jan. 4.
 Receiptacle for rolls of toilet paper. R. E. Jordan. 1,643,380; Sept. 27.
 Receiptacle for smoking materials. P. V. Spinner. 1,646,652; Oct. 25.
 Receiptacle for used razor blades. J. Kaufman. Des. 72,897; June 21.
 Receiptacle forming and filling machine. C. E. Johnson and S. Pearce. 1,614,960; Jan. 18.
 Receiptacle, Garbage. A. E. Florance. 1,643,407; Sept. 27.
 Receiptacle, Garbage. F. J. Mulhern. 1,643,897; Sept. 27.
 Receiptacle, Heat-insulated. R. B. Prindle. 1,615,649; Jan. 25.
 Receiptacle holder. W. T. Henry. 1,616,574; Feb. 8.
 Receiptacle holder. E. J. Snow. 1,646,562; Oct. 25.
 Receiptacle, Inclosed. G. F. Scott. 1,624,438; Apr. 12.
 Receiptacle, Ink-jetting machine, Paper. I. Piernattiel. 1,635,057; July 5.
 Receiptacle, Metal. S. Hammer. 1,632,702; June 14.
 Receiptacle, Metal. S. Hammer. 1,632,733-4; June 14.
 Receiptacle, Metal. S. Hammer. 1,632,762; June 14.
 Receiptacle, Money. M. H. Moffett. 1,631,934; June 7.
 Receiptacle, Money. H. Shafer. 1,644,495; Oct. 4.
 Receiptacle, Needle. J. Wolff. 1,634,703; July 5.
 Receiptacle, Newspaper. A. C. Crimmel. 1,654,364; Dec. 27.
 Receiptacle opener and fluid conductor, Combined. H. T. Dietrick. 1,619,708; Mar. 1.
 Receiptacle. Paper. H. E. Slade. 1,631,507; June 7.
 Receiptacle, Paper. L. S. Rosener. 1,613,133; Jan. 4.
 Receiptacle, Preserving. M. Saloun. 1,639,059; Aug. 16.
 Receiptacle, Refuse. P. A. Schuler. 1,648,065; Nov. 8.
 Receiptacle, Safety delivery. C. E. Hoffman. 1,619,257; Mar. 1.
 Receiptacle, Safety deposit. E. S. Peer. 1,634,884; July 5.
 Receiptacle, Saturating. C. Still. 1,639,709; Aug. 23.
 Receiptacle-shaking machine. J. A. Meeker and E. J. Roach. 1,619,526; Mar. 1.
 Receiptacle, Smoker's. W. A. Freeman. 1,644,245; Oct. 4.
 Receiptacle stand. A. Szymczak. 1,617,139; Feb. 8.
 Receiptacle. Sugar-dispensing. S. Horvath. 1,642,678; Sept. 20.
 Receiptacle-supporting means. W. C. Coleman. 1,637,553; Aug. 2.
 Receiptacle, Toilet-paper. M. E. Thatcher. 1,626,308; Apr. 26.
 Receiptacle, Trash. J. E. P. Dillon. 1,632,542; June 14.
 Receiptacles and support therefor, Cover for. A. S. Shiley. 1,636,446; July 19.
 Receiptacles, Apparatus for making. I. Stanley. 1,628,074; May 10.
 Receiptacles, Apparatus for washing. I. H. Kendall. 1,644,386; Oct. 4.
 Receiptacles, Bung for metal. W. E. Warner. 1,645,675; Oct. 18.
 Receiptacles, Bushing for metal. C. F. Schriener. 1,644,153-4; Oct. 4.
 Receiptacles, Cap for. F. A. Brown. 1,615,533; Jan. 25.
 Receiptacles, Cleansing milk. I. H. Kendall. 1,644,385; Oct. 4.
 Receiptacles, Closure for. A. Mauser. 1,617,076; Feb. 8.
 Receiptacles, Closure for. W. J. Snyder. 1,633,197; June 21.
 Receiptacles, Cover attachment for. R. M. Switzer. 1,618,489; Feb. 22.
 Receiptacles, Diced-out blank for. R. R. Reilly. 1,623,269; Apr. 6.

- Receptacles, Door closure for rotatable. M. F. Beetham and R. H. Moore. 1,680,600; May 31.
- Receptacles, Dust collector and controller for ash. W. A. Dillon. 1,652,615; Dec. 13.
- Receptacles, Hermetic closure for. W. W. Davis. 1,618,689; Feb. 22.
- Receptacles, Lock-up cover for. E. Gemeinder. 1,619,500; Mar. 1.
- Receptacles, Machine for flanging and seaming sheet-iron. C. J. Rhodes. 1,643,470; Sept. 27.
- Receptacles, Manufacturing. R. J. Bieber. 1,642,717; Sept. 20.
- Receptacles, Mechanism for charging portable. R. H. Plass. 1,651,149; Nov. 29.
- Receptacles or the like, Closure member for. C. E. Billings. 1,642,138; Sept. 13.
- Receptacles, Keenforced compartmental. M. L. Webster. 1,614,701; Jan. 18.
- Receptacles, Sealing. H. J. Poole. 1,630,215; May 24.
- Reciprocating bed motion. C. Berthiez. 1,613,554; Jan. 4.
- Reciprocating bolt, Automatic. E. Ruff and E. C. L. Bailey. 1,628,808; May 17.
- Reciprocating engine. J. Shearer. 1,644,954; Oct. 11.
- Reciprocating engine, Rotary. A. H. Wright. 1,625,841; Apr. 26.
- Reciprocating feeder. A. W. Happel. 1,631,125; June 7.
- Reciprocating machine members, Pneumatic buffer for. G. Fornaca. 1,643,408; Sept. 27.
- Reciprocating mechanism. C. A. McCain. 1,621,263; Mar. 15.
- Reclining chair. A. C. Beech. 1,626,069; Apr. 26.
- Reclosing mechanism, Automatic. G. H. Middlemiss. 1,653,404; Dec. 20.
- Recoil brake. J. W. Watson. 1,652,074; Dec. 6.
- Recoiler. E. A. Brooks. 1,614,647; Jan. 13.
- Record and the manufacture thereof for coining machines. F. J. Turner and J. E. B. Starck. 1,614,413; Jan. 11.
- Record book, Comparative visible. J. E. Bemis. 1,635,357; July 12.
- Record book, Manifold. A. J. Mirski. 1,637,150; July 26.
- Record for reproducing sound tones and action. J. A. Leitch. 1,653,467; Dec. 20.
- Record-o-phones. Reel-stopping device for. J. Kaplan. 1,642,681; Sept. 20.
- Record rack, Hotel-room-. P. N. Joslin. 1,642,208; Sept. 13.
- Record systems, Unit for holding the leaves in visible. H. C. Miller. 1,634,956; July 5.
- Recorder. See—
- Bridge-score recorder. Radio recorder.
- Contour recorder. Siphon recorder.
- Electric musical recorder. Surge recorder.
- Recorder and indicator. H. M. Brown. 1,646,474; Oct. 25.
- Recorder and regulator, High-temperature vapor-pressure. K. L. Tate. 1,632,152; June 14.
- Recorder-pen-arm release. H. W. Heesch. 1,630,296; May 31.
- Recorders, Double-base-line attachment for water-level. J. C. Stevens. 1,614,264; Jan. 11.
- Recording and controlling mechanism, Combined. R. E. Olson. 1,634,205; June 28.
- Recording and indicating instruments, Compensating means for. L. C. Irwin. 1,633,380; June 21.
- Recording and reproducing apparatus. J. T. Scully. 1,641,947; Sept. 6.
- Recording and reproducing of sounds, Method and apparatus for. H. W. Rogers. 1,645,295; Oct. 11.
- Recording and reproducing system. J. Mills. 1,647,242; Nov. 1.
- Recording and resulting products. H. A. Knauss. 1,652,483; Dec. 13.
- Recording apparatus. O. Borner. 1,615,160; Jan. 18.
- Recording device. E. B. Wheeler. 1,642,525; Sept. 13.
- Recording device for farm use. G. A. Morrie and C. S. Fallot. 1,626,473; Apr. 26.
- Recording instrument. W. C. Brandenburg. 1,637,852; Aug. 2.
- Recording instrument. R. P. Brown. 1,631,578; June 7.
- Recording instruments, Pen lifter for. A. B. Cunningham. 1,619,241; Mar. 1.
- Recording instruments, Pen support for. H. W. Heesch and J. Schofield. 1,648,237; Nov. 8.
- Recording machine. J. F. Kieley. 1,629,078; May 17.
- Recording mechanism. L. B. Swift. 1,646,940; Oct. 25.
- Recording system. E. Roucka. 1,641,199; Sept. 6.
- Recording the movements of machines and the like, Automatic device for. G. Peiseler. 1,651,102; Nov. 29.
- Recording time, Machine for. P. Mansel. 1,640,955; Aug. 30.
- Records, Making sound. H. W. Webb. 1,653,524; Dec. 20.
- Rectal appliance. A. Donovan. 1,640,928; Aug. 30.
- Rectal irrigator. H. G. Carter. 1,616,962; Feb. 8.
- Rectifier and modulator. J. P. Schafer. 1,648,006; Nov. 8.
- Rectifier protective system. D. G. Little and R. L. Davis. 1,645,287; Oct. 11.
- Rectifiers and electrolytic condensers, Electrode for. E. F. Andrews. 1,637,795; Aug. 2.
- Rectifiers, Apparatus for cooling metal vapor. J. Broger. 1,653,597; Dec. 20.
- Rectifiers, batteries, and the like, Apparatus for ventilating. A. H. Snyder. 1,633,137; June 21.
- Rectifying and modulating system. J. C. Schelleng. 1,634,800; July 5.
- Rectifying column. J. F. Cyphers. 1,640,068-9; Aug. 28.
- Recurvative furnace. F. T. Cope. 1,647,725; Nov. 1.
- Recurvative furnace. C. Stein. 1,618,826; Dec. 20.
- Recuperator. W. O. Amster. 1,624,128; Apr. 12.
- Recuperator. W. A. Morton. 1,619,747; Mar. 1.
- Recuperator. W. A. Morton. 1,652,210; Dec. 13.
- Recuperator mechanisms, Control valve for. H. C. Zimmerman. 1,627,818; May 10.
- Reducing arrangement, Frequency. J. G. Fallou. 1,638,481; June 21.
- Reducing pad, Hat-size-. L. Cohen. 1,645,588; Oct. 18.
- Reduction block. E. J. Hanna. 1,628,403; May 10.
- Reduction of finely-divided material, Apparatus for and process of. W. Gardner. 1,619,295; Mar. 1.
- Reel-bending and tuft-forming apparatus. L. J. Hemmle. 1,644,355; Oct. 4.
- Reel braid. M. B. Lloyd. 1,640,946; Aug. 30.
- Reel holder. F. Gretsche. 1,625,651; Apr. 19.
- Reel instruments, Mouthpiece for. B. Miller. 1,615,549; Jan. 25.
- Reel-weaving device, Automatic. O. B. Meyers. 1,635,051; July 5.
- Reel trimmer-. W. Majeski. 1,635,004; July 5.
- Reel-weaving machine. M. B. Lloyd. 1,640,610; Aug. 30.
- Reeling iron. C. L. Laird. 1,627,615; May 3.
- Reel: See—
- Antenna reel. Hose reel.
- Cable reel. Rewinding reel.
- Casting reel. Ribbon reel.
- Clothes-line reel. Sand reel.
- Electric-coil reel. Spring reel.
- Filth reel. Take-up reel.
- Fishing reel. Tape reel.
- Hoisting reel. Wire reel.
- Header reel. Yarn reel.
- Reel. R. F. Miehl, jr. 1,619,952; Mar. 8.
- Reel. F. Mossberg. 1,630,670; May 31.
- Reel and awl, Chalk-line. G. D. Savage. 1,653,191; Dec. 20.
- Reel carrier, Hose. C. S. Huntington. 1,652,718; Dec. 13.
- Reel for barbed wire. H. J. Peterson. 1,646,593; Oct. 25.
- Reel for strip metal. B. R. Shover. 1,644,857; Oct. 11.
- Reel for winding filaments, yarns, threads, silks, and the like, Collapsible. F. W. Schubert. 1,631,431; June 7.
- Reel holding structure for projectors. O. Wittel. 1,641,405; Sept. 6.
- Reel jack. A. J. Speirs. 1,629,644; May 24.
- Reel mill. H. C. Chase. 1,624,586; Apr. 12.
- Reel or swift. H. P. Lee. 1,638,586; Aug. 9.
- Reel or swift for use in the winding of textile yarns. J. H. Stubbs. 1,649,771; Nov. 15.
- Reel seat. W. Jordan. 1,617,951; Feb. 15.
- Reel-supporting apparatus. H. J. Boe. 1,614,595; Jan. 18.
- Reeling machine. E. E. Bradley and I. R. Row. 1,652,658; Dec. 13.
- Reels, Click check for. P. Catucci. 1,637,334; Aug. 2.
- Reels for electric conductors, Switching mechanism for. A. E. F. Moore. 1,648,969; Nov. 15.
- Reel Guard for. A. J. Plotz. 1,620,918; Mar. 15.
- Reels, hoists, and the like, Control for sand. J. T. Dickson. 1,652,661; Dec. 13.
- Reels, Line-guide mechanism for fishing. W. L. Adams. 1,639,362; Aug. 16.
- Reels, Sling lever for sand. C. H. Besse. 1,621,053; May 15.
- Reinforced glass. M. Liptak. 1,646,097; Oct. 18.
- Reinforced wheel. I. M. Laddon, W. A. Ring, and F. W. Herman. 1,640,573; Aug. 30.
- Referee's stand. L. A. Schwan. 1,616,395; Feb. 1.
- Refill and puff holder, Combined. P. A. Reutter. 1,644,086; Oct. 4.
- Reflecting device or unit, Light. R. H. Murray. 1,625,905; Apr. 26.
- Reflecting indicator. C. G. McLean. 1,622,958; Mar. 29.
- Reflecting signal. A. Feinberg. 1,635,267; July 12.
- Reflection gauge. W. F. Little. 1,649,964; Nov. 22.
- Reflector. L. N. Auger. 1,614,224; Jan. 11.
- Reflector. P. S. Bailey. 1,628,498; Apr. 26.
- Reflector. B. Bart. 1,653,609; Dec. 27.
- Reflector. U. S. G. Brobst. 1,617,894; Feb. 15.
- Reflector. W. Callaghan, V. Cummings, and J. Dunterman. 1,617,009; Feb. 8.
- Reflector. C. E. Godley. 1,621,586; Mar. 22.
- Reflector. G. B. Heath. 1,644,128; Oct. 4.
- Reflector. A. de Lugo and J. W. Robertson. Des. 73,251; Aug. 16.
- Reflector, Adjustable. D. F. Beauchamp. 1,628,218; May 10.
- Reflector and glare shield, Slight. C. Zartman. 1,628,704; May 17.
- Reflector and support therefor, Combined. J. J. Holshuh. Des. 73,914; Nov. 22.
- Reflector for Christmas-tree decoration. C. Kempf. Des. 72,481; Apr. 19.
- Reflector, Diurnal. W. J. Harvey. 1,642,545; Sept. 13.
- Reflector-jewel mounting. J. E. Wood. 1,624,309; Apr. 12.
- Reflector, Lamp. N. Lang. 1,625,948; Apr. 26.
- Reflector, Light-projecting. J. G. Balsille. 1,639,363; Aug. 16.
- Reflector signal. V. L. Oestnaes. Des. 73,800-01; Nov. 8.

- Reflector signal. V. L. Oestnaes. Des. 74,020-1; Dec. 6.
 Reflectors, Manufacturing. R. N. Chubb. 1,615,358;
 Jan. 25.
 Reflectors. Nonglare attachment for. R. L. Berg.
 1,625,932; Apr. 26.
 Reflectoscope, Macular. C. E. H. Armbruster. 1,651,661;
 Dec. 6.
 Refractive value of the principal point of the eye, Apparatus for the objective measurement of the. O. Henker.
 1,613,658; Jan. 11.
 Refractory article and making the same, Cast. G. S. Fulcher. 1,615,750; Jan. 25.
 Refractory article, Making a metallic reinforced. A. G. Rits. 1,624,886; Apr. 12.
 Refractory block. R. J. Himmelfright. 1,634,357; July 5.
 Refractory body. G. D. Morris. 1,642,886; Sept. 20.
 Refractory body and producing the same. M. J. Rent-schler. 1,653,123; Dec. 20.
 Refractory lining. R. B. Pogue. 1,629,047; May 17.
 Refractory product, Cast. G. S. Fulcher. 1,615,751;
 Jan. 25.
 Refractory, Zirconia-faced. P. G. Willetts. 1,650,577;
 Nov. 22.
 Refractometer. O. Henker. 1,649,064; Nov. 15.
 Refractometer. O. Henker. 1,649,114; Nov. 15.
 Refreshment dispenser, Liquid. H. Wanerman. Des.
 72,301; Mar. 22.
 Refrigerant. G. Barsky. 1,631,573; June 7.
 Refrigerant compressor. F. Oppman. 1,613,121; Jan. 4.
 Refrigerant container for cooling apparatus. J. Remonte. 1,617,650; Feb. 15.
 Refrigerating apparatus. A. P. Anderson. 1,644,165;
 Oct. 4.
 Refrigerating apparatus. E. L. Barnes. 1,625,878;
 Apr. 26.
 Refrigerating apparatus. J. J. Batterman. 1,642,321;
 Sept. 13.
 Refrigerating apparatus. J. O. Boving. 1,646,607;
 Oct. 25.
 Refrigerating apparatus. C. R. Bushnell. 1,628,820;
 May 17.
 Refrigerating apparatus. A. H. Cooke. 1,614,455;
 Jan. 18.
 Refrigerating apparatus. W. W. Conner. 1,639,986;
 Aug. 23.
 Refrigerating apparatus. R. Cramer. 1,642,015; Sept. 13.
 Refrigerating apparatus. R. W. Davenport. 1,634,400;
 July 5.
 Refrigerating apparatus. A. Green. 1,621,161; Mar. 15.
 Refrigerating apparatus. L. B. Green. 1,642,922;
 Sept. 20.
 Refrigerating apparatus. F. J. Heideman. 1,634,831;
 July 5.
 Refrigerating apparatus. H. B. Hull. 1,648,178; Nov. 8.
 Refrigerating apparatus. E. F. James. 1,626,835;
 May 3.
 Refrigerating apparatus. P. M. Jauvert. 1,626,836;
 May 3.
 Refrigerating apparatus. A. J. Kercher. 1,614,676;
 Jan. 18.
 Refrigerating apparatus. J. G. King. 1,654,504; Dec. 27.
 Refrigerating apparatus. C. E. L. Lipman. 1,646,919;
 Oct. 25.
 Refrigerating apparatus. W. Newcomb. 1,650,230;
 Nov. 22.
 Refrigerating apparatus. T. I. Potter. 1,624,972;
 Apr. 19.
 Refrigerating apparatus. F. W. Schwin. 1,630,077;
 May 24.
 Refrigerating apparatus. A. T. Stock. 1,631,345;
 June 7.
 Refrigerating apparatus. A. H. Strong. 1,646,712;
 Oct. 25.
 Refrigerating apparatus. A. E. Thornley. 1,636,877;
 July 26.
 Refrigerating apparatus. H. Torrance. 1,649,330;
 Nov. 15.
 Refrigerating apparatus. T. C. Whitehead. 1,634,813;
 July 5.
 Refrigerating apparatus. E. T. Williams. 1,645,314;
 Oct. 11.
 Refrigerating apparatus, Absorption. G. Bayer. 1,646,520; Oct. 25.
 Refrigerating apparatus, Absorption. C. G. Munters and B. C. von Platen. 1,645,017; Oct. 11.
 Refrigerating apparatus, Absorption. B. C. von Platen. 1,620,843; Mar. 15.
 Refrigerating apparatus, Compressor for. F. E. Wright. 1,628,944; May 17.
 Refrigerating apparatus, Evaporator for. S. Otto and J. C. Jankus. 1,649,973-4; Nov. 22.
 Refrigerating apparatus of the absorption type. E. Alten-kirch. Re16,525; Jan. 11.
 Refrigerating apparatus of the absorption type. B. C. von Platen and C. G. Munters. 1,636,115; July 19.
 Refrigerating apparatus of the absorption type. A. Richter. 1,652,458; Dec. 13.
 Refrigerating apparatus, Pump for. A. Green. 1,635,615;
 July 12.
 Refrigerating apparatus, Valves fitting for. J. R. Replogle. 1,634,628; July 5.
 Refrigerating appliance. C. A. Moore. 1,644,073; Oct. 4.
 Refrigerating compartment and cover therefor. T. Jenney and H. G. Miner. 1,615,628; Jan. 25.
 Refrigerating device. J. W. Anderson. 1,627,629;
 May 10.
 Refrigerating household unit. J. G. Burns and H. S. Davis. 1,622,626; Mar. 29.
 Refrigerating machine. A. Delas. 1,636,294; July 19.
 Refrigerating machine. F. G. Keyes. 1,622,520; Mar. 29.
 Refrigerating machine. L. F. Wegener. 1,652,968;
 Dec. 13.
 Refrigerating machine, Absorption-. E. Wirth. 1,627,071;
 May 3.
 Refrigerating machine, Brine-unit-type. H. E. Harris. 1,626,083; Apr. 26.
 Refrigerating machine of the absorption type. I. Amundsen. 1,632,387; June 14.
 Refrigerating machine, Rotary-compressor. H. W. and W. Wishart. 1,633,056; June 21.
 Refrigerating machinery, Compressor for. D. F. Smith. 1,642,900; Sept. 20.
 Refrigerating machines, Injector for. R. Bernat. 1,651,112; Nov. 29.
 Refrigerating machines, Safety device for adsorption. E. Niemann. 1,635,337; July 12.
 Refrigerating plant. I. Amundsen. 1,647,208; Nov. 1.
 Refrigerating plants, Regenerative purging system for. N. H. Gay. 1,617,631; Feb. 15.
 Refrigerating purposes, Substance and using the same for. W. L. Carrier. 1,642,943; Sept. 20.
 Refrigerating system. W. H. Carrier. 1,639,023;
 Aug. 16.
 Refrigerating system. W. H. Carrier. 1,652,163; Dec. 13.
 Refrigerating system. U. R. Loranger and H. R. Loranger. 1,651,278; June 7.
 Refrigerating system. A. F. Sawyer. 1,643,179;
 Sept. 20.
 Refrigerating system. R. E. Schurtz. 1,627,808;
 May 10.
 Refrigerating system and appliance. R. C. Cory and C. M. Barry. 1,618,815; Feb. 22.
 Refrigerating system for water-cooling apparatus. J. E. Mitchell. 1,613,241; Jan. 4.
 Refrigerating system, Intermittent-absorption. H. F., E. J., and B. G. Gellenbeck. 1,632,701; June 14.
 Refrigerating systems, Apparatus for. R. W. Davenport. 1,622,377; Mar. 29.
 Refrigerating systems, Compressor for. W. Burlingham and R. L. Lovell. 1,622,023; Mar. 22.
 Refrigerating systems, Distributor for use in. W. G. E. Roloff. 1,650,046; Nov. 22.
 Refrigerating systems, Purge device for. J. G. Bergdell. 1,612,965; Jan. 4.
 Refrigerating unit. R. M. Hyde. 1,641,853; Sept. 6.
 Refrigerating unit. T. I. Potter. 1,635,058; July 5.
 Refrigeration. M. B. Cooke. 1,651,513; Dec. 6.
 Refrigeration. H. C. Folger. 1,651,198; Nov. 29.
 Refrigeration. F. G. Keyes. 1,622,521; Mar. 29.
 Refrigeration. F. G. Keyes. 1,622,522; Mar. 29.
 Refrigeration. N. Persson. 1,651,410; Dec. 6.
 Refrigeration. B. C. von Platen and C. G. Munters. 1,613,029; Jan. 11.
 Refrigeration. B. C. von Platen and C. G. Munters. 1,629,735; May 24.
 Refrigeration. C. C. Spreen. 1,647,116; Oct. 25.
 Refrigeration. C. C. Spreen. 1,653,238; Dec. 20.
 Refrigeration. N. B. Vales. 1,613,687; Jan. 11.
 Refrigeration and cold storage. A. Green. 1,623,871;
 Apr. 5.
 Refrigeration, Apparatus for producing. F. G. Keyes. 1,622,519; Mar. 29.
 Refrigeration, Mechanical. C. C. Spreen. 1,619,548;
 Mar. 1.
 Refrigeration, Mechanical. C. C. Spreen. 1,653,237;
 Dec. 20.
 Refrigeration, Mechanical. C. C. Spreen. 1,653,239;
 Dec. 20.
 Refrigeration process and apparatus. D. J. Young. 1,634,129; June 28.
 Refrigeration purposes, Substance and using the same for. W. H. Carrier. 1,642,942; Sept. 20.
 Refrigeration system. G. Hilger. 1,627,328; May 3.
 Refrigeration system, Automatic. G. Hilger. 1,619,072;
 Mar. 1.
 Refrigeration systems, Compressor for. J. O. Carrey. 1,651,670; Dec. 6.
 Refrigeration systems, Thermosiphon circulation for absorption. A. Lenning. 1,645,708; Oct. 18.
 Refrigeration, Working fluid for. A. A. Kucher. 1,645,198; Oct. 11.
 Refrigerator. B. W. Bayless. 1,630,160; May 24.
 Refrigerator. G. C. Bohn. 1,644,910; Oct. 11.
 Refrigerator. C. F. Boyer. 1,631,577; June 7.
 Refrigerator. H. S. Cleveland. 1,622,766; Mar. 29.
 Refrigerator. L. G. Copeman. 1,644,982-4; Oct. 11.
 Refrigerator. L. G. Copeman. 1,644,987; Oct. 11.
 Refrigerator. R. J. Coughlin. 1,647,785; Nov. 1.
 Refrigerator. S. Cozzolino. 1,639,591; Aug. 16.
 Refrigerator. A. W. De Neen. 1,649,290; Nov. 15.
 Refrigerator. G. J. Gruender. 1,635,608; July 12.
 Refrigerator. G. J. Gruender. 1,646,241; Oct. 18.
 Refrigerator. R. A. Gulick and H. H. Reed. 1,645,103;
 Oct. 11.
 Refrigerator. H. A. Hawn. 1,621,322; Mar. 15.
 Refrigerator. M. W. Heath. 1,616,085; Feb. 1.
 Refrigerator. H. J. McClafferty. 1,613,468; Jan. 4.
 Refrigerator. T. S. Morton. 1,623,802; Apr. 5.

- Refrigerator. S. B. Nordskog. 1,622,920; Mar. 29.
 Refrigerator. J. B. Ottenheimer. 1,631,883; June 7.
 Refrigerator. H. Parris. 1,618,469; Feb. 22.
 Refrigerator. J. Pickrell. 1,618,106; Feb. 15.
 Refrigerator. B. C. von Platen and C. G. Munters. 1,613,627-8; Jan. 11.
 Refrigerator. B. C. Von Platen and C. G. Munters. 1,651,007; Nov. 29.
 Refrigerator. H. Riek. 1,633,225; June 21.
 Refrigerator. D. A. Rizer. 1,640,252; Aug. 23.
 Refrigerator. H. L. Roberts. 1,613,721; Jan. 11.
 Refrigerator. H. Schott. 1,633,231; June 21.
 Refrigerator. O. Strufe. 1,617,552; Feb. 15.
 Refrigerator. B. F. Vogt. 1,614,507; Jan. 18.
 Refrigerator. B. F. Vogt. 1,628,083; May 10.
 Refrigerator. M. Walin. 1,620,177; Mar. 8.
 Refrigerator. C. O. Williams. 1,622,478; Mar. 29.
 Refrigerator. Absorption. L. Reehsing. 1,626,554; Apr. 26.
 Refrigerator, Absorption. E. Wirth. 1,630,648; May 31.
 Refrigerator and dispenser. G. C. Bell. 1,638,181; Aug. 9.
 Refrigerator apparatus. F. Meyer. 1,639,528; Aug. 16.
 Refrigerator basket. E. A. Florang. 1,642,414-15; Sept. 13.
 Refrigerator, Bottle. C. A. Frick. 1,623,947; Apr. 5.
 Refrigerator box. T. M. Condit and G. W. Anderson. 1,616,441; Feb. 8.
 Refrigerator. J. C. Jankus. 1,646,616; Oct. 25.
 Refrigerator-cabinet construction. A. Tangenberg. 1,651,741; Dec. 6.
 Refrigerator-car construction. R. J. Kuhl. 1,616,582; Feb. 8.
 Refrigerator cars, Automatic drain and discharge trap for. A. G. Sandman. 1,613,908; Jan. 11.
 Refrigerator cars, Ventilating door for the hatchways of. G. A. Hull. 1,615,580; Jan. 11.
 Refrigerator condenser. C. L. Olin. 1,613,717; Jan. 11.
 Refrigerator construction. L. G. Copeman. 1,644,981; Oct. 11.
 Refrigerator construction. L. G. Copeman. 1,644,986; Oct. 11.
 Refrigerator construction. F. S. Gibson. 1,650,791; Nov. 29.
 Refrigerator construction. R. A. Riek. 1,615,099; Jan. 18.
 Refrigerator display case. E. Friedrich. Des. 73,253; Aug. 16.
 Refrigerator door. A. R. Peacock. 1,629,408; May 17.
 Refrigerator door. R. A. Riek. 1,618,476; Feb. 22.
 Refrigerator doors, Fastener for. A. Rubin. 1,619,831; Mar. 8.
 Refrigerator doorlock. A. E. Titus. 1,616,998; Feb. 8.
 Refrigerator drain. C. A. Frick. 1,652,665; Dec. 13.
 Refrigerator-fine construction. H. C. Leonard and W. H. Whittier. 1,630,065; May 24.
 Refrigerator, Folding. S. F. Kohn. 1,644,677; Oct. 11.
 Refrigerator, heater, ventilator, and humidifier, Combination. C. A. Moore. 1,621,827; Jan. 4.
 Refrigerator, Ice-saving. L. Lowy. 1,619,741; Mar. 1.
 Refrigerator-ice-tank support. V. P. Warren. 1,621,387; Mar. 15.
 Refrigerator manufacture. L. G. Copeman. 1,644,985; Oct. 11.
 Refrigerator-pipe insulate. H. B. Lindsay. 1,618,455; Feb. 22.
 Refrigerator show case. G. Schmidt. 1,614,319; Jan. 11.
 Refrigerator, Soda-fountain. H. J. Mackey. 1,641,980; Sept. 13.
 Refrigerator, Soft-drink. L. Locker and O. M. Frazier. 1,638,402; Aug. 9.
 Refrigerator tank, Iceless. L. B. Olin. 1,641,192; Sept. 6.
 Refrigerator wall. V. P. Warren. 1,621,386; Mar. 15.
 Refrigerator, Window. J. C. Sparrow. 1,637,460; Aug. 2.
 Refrigerators, Drinking-water supply for. L. G. Copeman. 1,618,514; Feb. 22.
 Refrigerators, Guide for bottle. C. A. Frick. 1,631,091; May 31.
 Refrigerators or the like, Compressor for. G. Midden-dorf. 1,626,621; May 3.
 Refrigerators, Wall construction for. D. I. Walker. 1,650,168; Nov. 22.
 Refrigerators, Water cooler for. F. C. Green. 1,621,162; Mar. 15.
 Refuse furnace. J. E. Hess. 1,653,282; Dec. 20.
 Refuse containing precious metal, Apparatus for wash-ing. G. Unruh. 1,627,129; May 3.
 Refuse destructors and other furnaces, Top-feed door for. W. J. Bulgin. 1,642,100; Sept. 13.
 Refuse-discharge mechanism. R. A. Foresman. 1,624,661; Apr. 12.
 Regeneration, Mechanism and process for effecting. F. F. Ault. 1,630,512; May 31.
 Regenerative air and gas preheater. F. Ljungström and N. F. P. Andersson. 1,635,513; Aug. 9.
 Regenerative furnace. R. D. Pike. 1,648,191; Nov. 8.
 Regenerative furnace. A. W. Soderberg. 1,629,056; May 17.
 Regenerative rotary repeater. A. H. Howard. 1,626,534; Apr. 26.
 Regenerator engine. E. W. Swartwout. 1,641,830; Sept. 6.
 Register. See—
 Air register. Golf-score register.
 Autographic register. Heating or ventilating reg-
 ister.
 Automatic register. Insurance cash register.
 Cash register. A. E. Lundell. 1,632,908;
 Register-controlling system. June 21.
 Register dial. C. M. F. Friden. 1,643,551; Sept. 27.
 Register-cont. fastener. W. T. Truax. 1,643,863;
 Sept. 27.
 Register hood. W. S. Elters. 1,622,031; Mar. 22.
 Register hood. W. S. Elters. 1,624,225-6; Apr. 12.
 Register-operating device. J. H. Sheets. 1,615,522;
 Jan. 25.
 Register, senders, Testing device for testing. J. B. Kettalack. 1,628,997; May 17.
 Registering device. I. S. Denent. 1,637,606; Aug. 2.
 Registering device, Impulse. S. P. Shackleton and J. T. Schatt. 1,653,736; Dec. 27.
 Registering mechanism, Roll-side. D. J. Scott. 1,613,963;
 Jan. 11.
 Registers, etc., Heat-deflecting device for air. S. I. Nickle. 1,650,569; Nov. 22.
 Registers, Hood for. W. S. Elters. Des. 72,514; Apr. 26.
 Regulating and recording device. E. B. Wood. 1,623,712;
 Apr. 6.
 Regulating apparatus. A. W. Hull. 1,641,679; Sept. 6.
 Regulating apparatus. F. H. Winter. 1,620,504; Mar. 8.
 Regulating apparatus. F. H. Winter. 1,622,620; Mar. 29.
 Regulating apparatus, Electric speed. W. S. Richmond. 1,616,230; Feb. 1.
 Regulating apparatus for central heating appliances. C. Willhoose. 1,649,090; Nov. 15.
 Regulating apparatus, Time-controlled. H. Y. Norwood. 1,630,305; May 81.
 Regulating device. J. V. Giesler. 1,628,137; May 10.
 Regulating device, Hydraulic. F. Hodgkinson. 1,613,753;
 Jan. 11.
 Regulating gate, Automatic. C. W. Cheatham. 1,645,943;
 Oct. 13.
 Regulating means and circuits. H. W. Ulrich. 1,647,383; Nov. 1.
 Regulating method and apparatus. W. D. Coolidge. 1,631,625; June 7.
 Regulating system. R. M. Carothers. 1,624,715;
 Apr. 12.
 Regulating system. G. R. McDonald. 1,617,130; Feb. 8.
 Regulating system. L. W. Thompson. 1,633,831;
 June 28.
 Regulating valve for liquids and gases. J. A. Gabriel. 1,638,152; Aug. 9.
 Regulation. S. E. B. Soderberg. 1,616,557; Feb. 8.
 Regulation. System of. L. De Florez. 1,650,889;
 Nov. 29.
 Regulator. See—
 Air-pressure regulator. Gasoline regulator.
 Automatic regulator. Governor regulator.
 Boiler-feed regulator. Heat regulator.
 Boiler regulator. Humidity regulator.
 Centrifugal regulator. Lamp regulator.
 Circuit regulator. Level regulator.
 Constant-volume regulator. Oil-level regulator.
 Control regulator. Oil regulator.
 Damper regulator. Pressure regulator.
 Draft regulator. Sash regulator.
 Electric regulator. Speed regulator.
 Electric-current regulator. Tandem wiper regulator.
 Feed regulator. Temperature regulator.
 Feed-water regulator. Thermostatic regulator.
 Flow regulator. Thermostatic gas regulator.
 Fluid-pressure-operated regulator. Voltage-balancing regula-
 tor.
 Fluid-pressure regulator. Voltage regulator.
 Fuel regulator. Water regulator.
 Furnace regulator. Window regulator.
 Gas-pressure regulator. Windshield regulator.
 Gas regulator.
 Regulator. F. S. Bernhard. 1,645,850; Oct. 18.
 Regulator. L. Campbell, Jr. 1,632,055; June 14.
 Regulator. J. G. Ferguson. 1,632,062; June 14.
 Regulator. J. Harris. 1,648,304; Nov. 8.
 Regulator. J. L. Kimball. 1,634,875; July 5.
 Regulator and economizer, Combination. A. Johnson. 1,655,401; Dec. 20.
 Regulator for the pressure of a common source of fluid utilized in operating independent devices. J. S. Larson. 1,648,624; Sept. 27.
 Regulator or controller. E. McLean. 1,653,438; Dec. 20.
 Regulator system. J. M. Ashbaugh. 1,621,050; Mar. 15.
 Regulator system. J. H. Ashbaugh. 1,647,933; Nov. 1.
 Regulator system. J. H. Ashbaugh. 1,654,360; Dec. 27.
 Regulator system. C. A. Boddie. 1,624,387; Apr. 21.
 Regulator system. W. M. Bradshaw. 1,615,678; Jan. 25.
 Regulator system. W. M. Bradshaw and J. H. Ashbaugh. 1,638,825; Aug. 16.
 Regulator system. W. W. Edson. 1,626,603; May 8.
 Regulator system. C. L. Fortescue. 1,644,467; Oct. 4.
 Rein support. T. Watkins. 1,642,860; Sept. 20.
 Relay. R. Brooks. 1,626,665; May 3.
 Relay. L. N. Crichton. 1,617,377; Feb. 15.
 Relay. L. J. Girard. 1,636,933; July 26.
 Relay. W. D. Hailes. 1,617,247; Feb. 8.
 Relay. R. E. Hall. 1,628,723; Feb. 15.
 Relay. C. O. Harrington. 1,617,594; Feb. 15.

- Relay. E. G. Johnson. 1,632,186; June 14.
 Relay. D. D. Miller. 1,641,285; Sept. 6.
 Relay. H. C. Rochette. 1,638,098; Aug. 9.
 Relay. W. W. Schilling. 1,646,219; Oct. 13.
 Relay. M. B. Stazak. 1,640,431; Aug. 30.
 Relay. F. H. Winter. 1,653,978; Dec. 20.
 Relay, Alternating-current. L. H. Peter. 1,620,781; May 15.
 Relay and the like, Selective. R. E. Hall. 1,652,199; Dec. 13.
 Relay, Demand-limiting. R. C. Schott and A. J. A. Peterson. 1,647,316; Nov. 1.
 Relay, Echo-suppressor. H. C. Silent. 1,619,891; Mar. 8.
 Relay, Electric. A. E. Hudd. 1,648,348; Nov. 8.
 Relay, Electrical. H. O. Holte. 1,643,340; Sept. 27.
 Relay, Electromagnetic. A. A. Klann. 1,636,609; July 19.
 Relay, Electron. S. Ruben. 1,627,411; May 3.
 Relay, Overload. B. O. Austin. 1,652,512; Dec. 13.
 Relay, Overload. J. H. Pengilly. 1,645,020; Oct. 11.
 Relay, Pneumatic. E. W. Gent. 1,621,958; June 14.
 Relay, Quick-acting thermal. R. J. Wensley. 1,654,315; Dec. 27.
 Relay switch. H. E. Trent. 1,646,888; Oct. 25.
 Relay system. F. M. Billhimer. 1,615,677; Jan. 23.
 Relay system. C. A. Butcher. 1,603,932; Nov. 29.
 Relay system, Protective. W. H. Cole. 1,652,559; Dec. 13.
 Relay, Thermal. W. M. Bradshaw. 1,621,056; Mar. 15.
 Relay, Thermal. H. D. Matthews. 1,621,020; Mar. 15.
 Relay, Thermal time-lag. E. Besag. 1,652,230; Dec. 13.
 Relay, Time-limit. H. H. W. Herbers. 1,644,430; Oct. 4.
 Relay, Universal. A. C. S. M. Day. 1,624,478; Apr. 12.
 Releasing switch. Automatic. A. R. Curtis. 1,646,189; Oct. 18.
 Releg and jack clamp, Combination. J. P. Neilson, sr. 1,626,884; May 3.
 Relief mechanism. F. Humphris. 1,647,045; Oct. 25.
 Relief mechanism. E. Schram. 1,617,168; Feb. 8.
 Remedy for seasickness. G. N. Banker. 1,634,315; July 5.
 Remote-control and pull-to handle assembly, Combination. T. P. Archer and F. M. Edgar. 1,638,231; Aug. 9.
 Removing meat from carcass and the like, Instrument for. W. Barakat. 1,614,451; Jan. 18.
 Rendering fat-bearing animal material. R. McTavish. 1,654,506; Dec. 27.
 Renovating clothing. K. Kara-Joseph. 1,623,791; Apr. 5.
 Renovating machine, Fabric-. E. F. Fisher. 1,619,814; Mar. 8.
 Repair chamber, Portable. C. E. Ward. 1,619,642; Mar. 1.
 Repairing cracked or broken structures by welding. R. Mattice. 1,650,144; Nov. 22.
 Repeater compass. E. A. Sperry. 1,617,310; Feb. 8.
 Repeaters, System for energizing and testing. E. Vroom. 1,616,156; Feb. 1.
 Reproducer, Push-pull. F. E. Miller. 1,642,124; Sept. 13.
 Reproducing all the movements of the steps of quadrupeds. Mechanism for. V. Gobatto. 1,638,332; Aug. 9.
 Reproducing device. T. N. Hansen. 1,645,752; Oct. 18.
 Reproducing position. E. M. Hewlett and W. W. Willard. 1,616,667; July 5.
 Retailer. G. T. Lewis. 1,615,638; Jan. 25.
 Retailing device. J. Wilburn and J. J. Jefferson. 1,654,442; Dec. 27.
 Retailing frog. K. S. and F. L. Hooks. 1,614,985; Jan. 18.
 Reservoir device. C. C. Farmer. 1,626,604; May 3.
 Reservoir for liquids, Large-sized. R. L. Salmon. 1,654,016; Dec. 27.
 Reservoir, Storage. H. L. Doherty. 1,646,641; Oct. 25.
 Reservoirs, dams, levees, and the like. Concrete pavement for. R. W. Gelder. 1,646,997; Oct. 25.
 Reservoirs in desert countries, Building storage. C. H. Spencer. 1,640,099; Aug. 23.
 Residual liquors, Treatment of. L. Bradley and E. P. McKee. 1,637,515; Aug. 2.
 Resilient disk wheel. W. G. Ghard. 1,617,209; Feb. 8.
 Resilient member. W. W. Doty. 1,630,893; May 31.
 Resilient wearing surface. J. W. Fellows. 1,632,395; June 14.
 Resilient wheel. H. C. Anderson. 1,650,885; Nov. 29.
 Resilient wheel. V. H. Casey. 1,613,084; Jan. 4.
 Resilient wheel. C. B. Evans. 1,635,522; June 21.
 Resilient wheel. F. Lenhardt. 1,629,715; May 24.
 Resilient wheel. H. C. Lord. 1,627,789; May 10.
 Resilient wheel. L. P. Miller. 1,640,613; Aug. 30.
 Resilient wheel. H. C. Sallac. 1,614,397; Jan. 11.
 Resilient wheel. E. Schultz. 1,630,865; May 31.
 Resilient wheel. R. J. Starr. 1,627,418; May 3.
 Resilient wheel. E. E. Steude. 1,615,549; Jan. 25.
 Resilient wheel. J. G. Swain. 1,630,225; May 24.
 Resilient wheel. F. A. Turner. 1,632,809; June 21.
 Resilient wheel. D. A. Walsh. 1,642,133; Sept. 13.
 Resilient wheel. H. N. Wayne. 1,638,827; Aug. 23.
 Resilient wheel. E. J. White. 1,651,009; Nov. 29.
 Resilient wheel, Vehicle. R. J. Page. 1,645,620; Oct. 18.
 Resin and its manufacture, Synthetic. E. R. Littmann. 1,618,209; Feb. 22.
 Resin and making same. C. O. Terwilliger. 1,624,638; Apr. 12.
 Resin and making same, Synthetic. J. McIntosh and E. Y. Wolford. 1,642,078; Sept. 13.
 Resin and making same, Synthetic. H. McIntosh. 1,642,079; Sept. 13.
 Resin composition, Synthetic. H. L. Bender. 1,650,109; Nov. 22.
 Resin-containing coating composition. J. M. Kessler. 1,642,155; Sept. 13.
 Resinlike bodies from cracked hydrocarbon products, Obtaining. J. C. Morrell and G. Egoiff. 1,627,054; May 3.
 Resins, Compositions, Production of articles and covers from. E. Wieland. 1,639,475; Aug. 16.
 Resinous condensation product from dihydroxydiphenyl-ethane and reactive methylene bodies and making same. L. H. Baekeland. 1,637,512; Aug. 2.
 Resinous product and making same, Synthetic. B. N. Loudon. 1,648,852; Nov. 8.
 Resinous reaction product of urea and formaldehyde. F. Lauter. 1,633,337; June 21.
 Resins and making the same. C. O. Terwilliger. 1,624,082; Apr. 12.
 Resins, Improvement of natural. A. Amann and E. Fönstorp. 1,623,901; Apr. 5.
 Resistance control apparatus. H. J. Wiegand. 1,643,105; Sept. 20.
 Resistance element. C. Horton. 1,646,535; Oct. 25.
 Resistance furnace, Electric. H. M. Biebel. 1,638,822; Aug. 9.
 Resistance furnace, Electric. A. J. Hanson. 1,652,200; Dec. 13.
 Resistance, Variable. E. R. Stoeke. 1,653,745; Dec. 27.
 Resistant substance. P. S. Williams. 1,618,397; Feb. 22.
 Resistor. G. H. Whittingham. 1,648,571; Nov. 8.
 Resistor elements, Making. E. J. Haverstick. 1,638,849; Aug. 16.
 Resistor material. J. Slepian. 1,638,888; Aug. 16.
 Resistor-supporting means. K. Ehrigott. 1,647,346; Nov. 1.
 Resistor, supporting means. G. E. Shawk. 1,628,858; Mar. 17.
 Resistor-supporting unit. E. E. Sutherland. 1,652,503; Dec. 13.
 Respiration and pulse recorder. S. M. Strong. 1,619,005; Mar. 1.
 Respirometer. H. S. Olgard. 1,615,718; Jan. 25.
 Restaurant equipment. M. L. Bayley. 1,649,581; Nov. 8.
 Resurfacing device. F. C. Westman. 1,647,066; Oct. 25.
 Retainer. W. E. Clark. 1,632,761; June 14.
 Retainer. H. H. Honigbaum. 1,616,957; Feb. 8.
 Retainer. H. H. Honigbaum. 1,651,392; Dec. 6.
 Retainer, strip, In-corner. P. H. Lacey. 1,652,282; Dec. 13.
 Retaining device. J. W. Dawson. 1,652,272; Dec. 13.
 Retard device. J. W. Motherwell and H. S. Baker. 1,621,738; Mar. 22.
 Retard gauge, Safety-control. A. Harrison. 1,649,112; May 15.
 Retarder. A. Nelson. 1,647,575; Nov. 1.
 Retarding device. G. F. C. Bauer. 1,613,782; Jan. 11.
 Retarding device. A. A. Horton. 1,619,574; Mar. 1.
 Retinoscope. J. Copeland. 1,648,013; Nov. 8.
 Retort. K. L. Ford. 1,636,768; July 26.
 Retort. G. M. Johnson. 1,621,785; Mar. 22.
 Retort. H. J. and H. C. McElvain. 1,642,457; Sept. 13.
 Retort and gas-flow-regulating apparatus. E. P. G. Wunsch. 1,639,394; Aug. 16.
 Retort and operating the same, Distillation and carbonization. F. Duplan. 1,618,865; Feb. 22.
 Retort, gas distributor and support, Tubular rotary. E. Wendel. 1,614,220; Jan. 11.
 Retort for treating oil shale. E. B. Roth. 1,649,195; Nov. 15.
 Retort for treatment of fruit. E. G. Grab. 1,613,452; Jan. 4.
 Retort furnace, Continuously-operating ore or ore-shale converting. A. M. Ham. 1,627,558; May 3.
 Retort oven for low-temperature carbonization. P. C. Zuyderhoudt. 1,636,975; July 26.
 Retort, Rotary. B. Young. 1,636,270; July 19.
 Retorts, Closure for vertical. P. G. Strassmann. 1,646,325; Oct. 18.
 Retort, Coke extractor for vertical. F. J. and E. West. 1,617,732; Feb. 15.
 Retread mold. F. M. Milford. 1,641,499; Sept. 6.
 Retreading mold. J. E. Howell and G. E. Sapp. 1,641,490; Sept. 6.
 Retring tank. D. E. De Lape. 1,621,658; Mar. 22.
 Return bend and terminal fitting. S. Thurstensen. 1,647,321; Nov. 1.
 Return gate, Automatic. E. A. Dohmann. 1,628,622; May 10.
 Return trap. E. L. Cortis-Stanford. 1,636,626; July 19.
 Revaporizer. A. F. Timme. 1,650,246; Nov. 22.
 Reverberatory furnace. G. W. Prince. 1,650,907; Nov. 29.
 Reverberatory-furnace waste-heat boiler. A. G. McGregor. 1,632,844; June 21.
 Reverse-motion brake, Automatic. W. Jones. 1,644,061; Oct. 4.
 Reversible comb. J. de D. Moreno. 1,624,753; Apr. 12.
 Reversing mechanism. F. W. A. Henrick. 1,627,434; Aug. 9.
 Reversing mechanism. S. Vernet. 1,625,512; Apr. 19.
 Reversing mechanism. E. J. Westmoreland. 1,613,549; Jan. 4.
 Revolving chair. R. F. Stiebbeline and J. V. Dolan. 1,634,922; July 5.

- Revolving valve-sleeve gas engine. O. O. Storle. 1,614,634; Jan. 18.
- Rewinding reel. E. G. K. Anderson. 1,626,376; Apr. 26.
- Rheostat. H. E. Adams. 1,618,967; Mar. 1.
- Rheostat. C. F. Alcantar. 1,617,331; Nov. 1.
- Rheostat. E. H. Bobo. 1,625,703; Apr. 19.
- Rheostat. E. A. Bohlman. 1,618,801; Feb. 22.
- Rheostat. E. F. Cabezola. 1,623,026; Mar. 29.
- Rheostat. A. J. Carter. 1,624,038; Apr. 12.
- Rheostat. A. J. Carter. 1,650,008; Nov. 22.
- Rheostat. P. Crosby, Jr. 1,640,028; Aug. 23.
- Rheostat. J. E. Jenkins. 1,621,466; Mar. 15.
- Rheostat. F. W. Kaisling. 1,618,014; Feb. 15.
- Rheostat. W. Kaisling. 1,618,015; Feb. 15.
- Rheostat. R. A. Krauss. 1,652,017; Dec. 6.
- Rheostat. A. F. C. Lotz. 1,625,479; Apr. 19.
- Rheostat. A. F. C. Lotz. 1,639,951; Aug. 23.
- Rheostat. E. B. Nowosielski. 1,623,198; Apr. 5.
- Rheostat. J. A. Nugent. 1,629,523; May 24.
- Rheostat. J. A. Rostron. 1,620,573; Mar. 8.
- Rheostat. J. C. Snell. 1,638,598; Aug. 9.
- Rheostat. W. S. Sutton. 1,634,050; June 28.
- Rheostat. A. E. Waller. 1,631,168; June 7.
- Rheostat. Colton. H. C. Waller. 1,613,337; Jan. 4.
- Rheostat, Liquid. B. Gray and E. Curtis. 1,630,176; May 24.
- Rheostat, Liquid. C. C. Whittaker and D. C. West. 1,654,394; Dec. 27.
- Rheostat, Pneumatically-controlled. H. V. Haight. 1,644,010; Oct. 4.
- Rheostat, Pressure. G. O. Wilms. 1,631,111; May 31.
- Rheostats, Terminal for. G. H. Whittingham. 1,632,358; June 14.
- Rhinestone-setting machine. A. Moscini. 1,649,540; Nov. 15.
- Ribber-machine attachment. F. Bolonski. 1,628,572; May 10.
- Ribbon. E. Schloss. 1,614,258; Jan. 11.
- Ribbon fastener. E. Sweet. 1,647,589; Nov. 1.
- Ribbon reel. J. S. May. 1,628,795; May 17.
- Ribbon-reversing mechanism. A. Pateman. 1,634,593; July 5.
- Rip tapes and mechanism for producing the same. Production of. E. Maslorens. 1,646,301; Oct. 18.
- Rice food, Making fried. B. Yokoyama. 1,621,763; Mar. 22.
- Rice product, Making. J. F. Newman. 1,631,145; June 7.
- Rice separator. A. A. Schoenegg. 1,640,010; Aug. 23.
- Riddle. E. Bourke. 1,637,728; Aug. 2.
- Ridge cap. O. P. Greenstreet. 1,653,847; Dec. 27.
- Ridge-splitter attachment. L. W. Chase. 1,620,441; Mar. 8.
- Rifle bars, Friction head for. G. W. Hulshizer. 1,623,411; Apr. 5.
- Rifle Receiver sight for. J. L. Hatcher. 1,636,509; July 19.
- Rifles, Rear sight for. J. H. Redfield. 1,644,149; Oct. 4.
- Rifles, Safety target attachment for air. J. B. Mulholland and A. F. Borschel. 1,625,956; Apr. 26.
- Right-of-way indicator. W. S. Harrington. Des. 71,941; Feb. 1.
- Rim. C. J. Ravidoux and W. M. Einhorn. 1,629,411; May 17.
- Rim. C. E. Stigers. 1,641,399; Sept. 6.
- Rim and attaching same, Auxiliary. A. P. Armington. 1,619,175; Mar. 1.
- Rim, and attachment therefor, Wheel. A. L. Putnam. 1,624,974; Apr. 19.
- Rim, Automobile. B. D. Gordon and W. H. Pearen. 1,639,886; Aug. 23.
- Rim carrier, Demountable. H. Taylor. 1,644,159; Oct. 4.
- Rim construction. W. D. McCullough. 1,647,411; Nov. 1.
- Rim, Contractor and expander. V. Nylund. 1,620,734; Mar. 15.
- Rim, Demountable. C. M. Axhelm and E. F. Chappell. 1,649,558; Nov. 15.
- Rim, Demountable. W. N. Booth. 1,649,944; Nov. 22.
- Rim, Demountable. W. E. Copithorn. 1,636,045; July 19.
- Rim, Demountable. F. W. French. 1,639,591; Aug. 23.
- Rim, Demountable. E. W. Nelson. 1,634,205; June 28.
- Rim, Demountable. E. Reynolds. 1,630,636; May 31.
- Rim, Demountable. L. B. Wisniewski. 1,623,372; Apr. 5.
- Rim, Demountable wheel. F. W. Baker. 1,622,270; Mar. 29.
- Rim Jack. C. E. Douglas. 1,618,891; Feb. 8.
- Rim lock. K. A. Brock. 1,613,556; Jan. 4.
- Rim lock. C. Ledin. 1,613,398; Jan. 4.
- Rim, Mounting. F. W. Wilmot. 1,613,551; Jan. 4.
- Rim-rolling machine. E. Higgins. 1,629,703; May 24.
- Rim-rolling machine. E. J. Peterson. 1,632,560; June 14.
- Rim, Separable. W. P. Doyle. 1,642,143; Sept. 13.
- Rim, Straightener. L. Frasier and C. C. Ilmer. 1,616,653; Feb. 8.
- Rim stretcher, Ophthalmic. N. M. Baker. 1,632,266; June 14.
- Rim treatment process. J. B. Scott. 1,628,516; May 10.
- Rim, Two-piece demountable. F. E. Peterson. 1,618,984; Feb. 8.
- Rim wheel, Demountable. E. C. Mallette. 1,638,352; Aug. 9.
- Rims, Actuating attachment for. L. L. Klingaman. 1,620,470; Mar. 8.
- Rims, and making the same, Joint for split. E. R. Jacobi. 1,632,550; June 14.
- Rims and wheel disks, Manufacturing seamless. A. J. Nichols. 1,623,863; Apr. 5.
- Rims, Connector for two-part demountable. A. L. Johnson. 1,626,284; Apr. 26.
- Rims, Device for expanding and contracting split. F. B. White and C. Lum. 1,645,564; Oct. 18.
- Rims, Device for operating transplit. J. H. Wagenhorst. 1,651,077; Nov. 29.
- Rims, Ditching device for demountable. W. N. Booth. 1,630,945; Nov. 22.
- Rims, Locking device for demountable. W. C. Niewald. 1,636,385; July 19.
- Rims, Machine for manufacturing. D. C. Carroll. 1,618,812; Feb. 22.
- Rims, Manufacture of. W. H. Paull. 1,649,922; Nov. 22.
- Rims, Method and apparatus for grooving and flanging tug. D. H. Wolfe. 1,628,568; May 10.
- Rims of pneumatic and solid tires, Manipulating detachable. J. Sheridan. 1,618,556; Feb. 22.
- Ring. See—
- Angle split ring. Oil recovering and obturating ring.
- Bead-placing ring. Packing ring.
- Bead ring. Piston packing ring.
- Building-core bead ring. Piston ring.
- Chain ring. Proving ring.
- Clamping ring. Sealing ring.
- Crown ring. Separable ring.
- Glass-gathering ring. Tent-pole shackle ring.
- Ring. G. C. Beckstein. Des. 73,554; Oct. 4.
- Ring. J. Cibor. 1,641,575; Sept. 6.
- Ring. C. J. Dieges. Des. 72,412; Apr. 12.
- Ring. G. D. Savage. Des. 73,673; Oct. 18.
- Ring. M. J. Schless. Des. 74,125; Dec. 20.
- Ring. C. L. Stange. Des. 73,108; July 19.
- Ring. A. Steller. Des. 72,971; June 28.
- Ring. L. G. Stewart. Des. 73,676; Oct. 18.
- Ring and cord cutter, Combined finger. Y. Shiba. 1,651,637; Dec. 6.
- Ring and the like. Finger. L. Lehr. 1,647,531; Nov. 1.
- Ring book. H. T. Adams. 1,639,361; Aug. 16.
- Ring box. J. M. Shields. 1,636,251; July 19.
- Ring element, Resilient. E. Tausch. 1,641,059; Aug. 30.
- Ring gauge. S. O. Mountford. 1,634,378; July 5.
- Ring or similar article of jewelry. G. F. Rider. Des. 6,010; July 5.
- Ring or the like. H. W. Peters. 1,612,831; Jan. 4.
- Ring, Wedding. A. Horvat. Des. 71,834-5; Jan. 11.
- Ring, Composite. S. P. Shackleton. 1,634,271; July 5.
- Ringling system, Party-line reversible. G. Deakin. 1,651,017; Nov. 29.
- Rings, Apparatus for making. E. C. Ruffington. Des. 72,626-5; May 3.
- Rings, Process and apparatus for making finger. C. W. Allsopp. 1,635,354; July 12.
- Rinsing and drying apparatus. H. F. Vieau, R. C. Higby, and E. J. O'Neill. Re. 1,627,827; Dec. 20.
- Ripper head. A. H. Wagner. 1,651,305; Nov. 29.
- Ripping head. A. J. Johnson, J. Boileau, and E. A. Findel. 1,634,449; July 5.
- Rip-strip can. H. Hermani. 1,627,646; May 10.
- River control, Apparatus for. E. Bignell. 1,643,691; Sept. 27.
- River control. Method and apparatus for. E. Bignell. 1,622,568; Mar. 29.
- Rivet. J. W. Iseman. 1,643,771; Sept. 27.
- Rivet. H. V. Rau. 1,638,165; Aug. 9.
- Rivet head. P. J. Culhane, Jr. 1,641,122; Aug. 30.
- Rivet heater. W. D. Irish. 1,641,085; Aug. 30.
- Rivet heater, Automatic-feed. G. A. E. Jones. 1,650,943; Nov. 29.
- Rivet-making machine. M. Dwyer and R. J. Boyle. 1,637,107; July 26.
- Rivet, Self-anchoring. R. Stresau. 1,647,062; Oct. 25.
- Rivet-setting implement. C. A. Chisholm. 1,643,112; Sept. 20.
- Rivet-setting machine. A. R. Havener. 1,621,405; Mar. 15.
- Rivet-setting machine. E. B. Stimpson. 1,635,865; July 12.
- Rivet-setting machine. E. B. Stimpson. 1,646,072; Oct. 18.
- Rivet-setting machine. E. B. Stimpson. 1,651,976-7; Dec. 6.
- Riveting machine. A. R. Havener. 1,628,044; May 10.
- Riveting machine. H. W. Pierce. 1,615,724; Jan. 25.
- Riveting machine. E. B. Stimpson. 1,614,937; Jan. 18.
- Riveting machine. E. B. Stimpson. 1,629,847; May 24.
- Riveting-machine pocket. E. B. Stimpson and H. V. Rau. 1,629,446; May 24.
- Riveting machines, Fixture for. W. J. Lehman. 1,623,796; Apr. 5.
- Riveting machines, Safety device for. H. C. Vance. 1,643,795; Sept. 27.
- Riveting press. M. O. Kuhn. 1,622,248; Mar. 22.
- Rivets, Method and apparatus for forming heads on. W. J. Belcher. 1,649,334; Nov. 15.
- Roach tablets, Composition and preparing. P. F. Harris. 1,636,688; July 26.
- Road-bed-building machine. R. Payne. 1,622,970; Mar. 29.

- Road-building machine. F. M. Hargrave. 1,619,614; Mar. 1.
- Road building machinery. C. D. Farmer and H. W. Libby. Des. 1,672; Nov. 8.
- Road-building material. Machine for treating. E. B. Horner and L. Holt. 1,632,969; June 21.
- Road-building material. Preparing. O. L. Dillon, jr. 1,648,166; Nov. 8.
- Road drag. H. D. Meyer. 1,624,421; Apr. 12.
- Road form. E. A. Trester. 1,640,739; Aug. 30.
- Road-forming materials. Spreading device. M. E. W. Fitz Gerald and F. F. Maynard. 1,644,575; Oct. 4.
- Road grader. C. P. Denison. 1,641,580; Sept. 6.
- Road grader. P. W. Kean. 1,617,256; Feb. 8.
- Road grader. E. Walworth. 1,633,426; July 21.
- Road grader. Telescoping axle, leaning wheel. W. T. Beatty, F. S. Davis, and F. D. Wilson. 1,651,315; Nov. 29.
- Road leveler or planer. E. A. Burrow. 1,629,678; May 24.
- Road light. F. G. Farwell. 1,620,198; Mar. 8.
- Road machine. J. Fleming. 1,653,559; Dec. 20.
- Road machine. F. L. Napier. 1,613,051; Jan. 4.
- Road machine. S. A. Stouffer. 1,623,984; Apr. 12.
- Road machine. Concrete-. E. G. Carr. 1,629,611; May 24.
- Road machine. Concrete-. E. G. Carr. 1,644,511; Oct. 4.
- Road maintainer and grader. J. H. Welsh. 1,632,685; June 14.
- Road-making machine. J. M. Rathneil. 1,648,913; Nov. 15.
- Road marker. H. O. Kuhlhoff. 1,640,777; Aug. 30.
- Road marker. M. Thinger. Des. 1,731; Oct. 25.
- Road material and the like, Machine for mixing. T. J. Barrett. 1,621,099; Mar. 15.
- Road material. Making asphaltic. J. D. Forrester. 1,620,813; Mar. 15.
- Road-paving block. H. H. Duke. 1,642,846; Sept. 20.
- Road planer. H. C. Pichel. 1,624,971; Apr. 19.
- Road-planing device. C. O. Gillespie. 1,630,422; May 31.
- Road rail. W. M. Venable. 1,651,787; Dec. 6.
- Road-repairing machine. C. B. Christians, jr. 1,624,390; Apr. 12.
- Road resurfacing machine. F. and J. G. Bodenstein, jr. 1,651,247; Nov. 29.
- Road roller and scarifier. G. C. Abbe and R. C. Williamson. 1,637,720; Aug. 2.
- Road scraper. G. C. Abbe. 1,612,898; Jan. 4.
- Road scraper. J. K. Parriss. 1,615,371; Jan. 25.
- Road scraper. R. A. Riskin. 1,627,857; May 10.
- Road scraper. R. A. Russell. 1,634,216; June 28.
- Road scraper-adjusting mechanism. D. E. Burns. 1,625,019; Apr. 19.
- Road-scraper blades. Cutting section for. C. O. Wold. 1,633,057; June 21.
- Roadside signal. W. A. Ingalls. 1,651,126; Nov. 29.
- Road signal. E. R. Large and C. M. Freeman. 1,649,708; Nov. 15.
- Road strip. G. L. Weller. 1,629,750; May 24.
- Road structure and process of making. J. S. Burdge. 1,676,799; Nov. 29.
- Road structure. Maturing and stabilizing. S. E. Finley. 1,637,993; Aug. 2.
- Road-surface resmoothen. F. D. Wilson. 1,637,208; July 26.
- Road tamper. W. G. Proctor and F. R. Dudley. 1,654,014; Dec. 27.
- Road tool. D. M. Watters. 1,620,247; Mar. 8.
- Roadway construction. A. E. Schutte. 1,639,276; Aug. 16.
- Roadway embankment. E. A. Jenks. 1,633,211; June 21.
- Roadways. Strip for. W. E. White. 1,626,219; Apr. 26.
- Road wheel. Resilient. B. C. Gibson. 1,622,867; Mar. 29.
- Roads. Finishing machine for concrete. G. Maxon, jr. 1,619,083; Mar. 1.
- Roads, Rut filler for logging. J. Bernier. 1,615,867; Feb. 1.
- Roaster. See Rotary roaster.
- Roasters, Roaster for. R. E. Collins. 1,630,471; May 31.
- Roasting. J. B. Read and M. F. Coolbaugh. 1,644,692; Oct. 11.
- Roasting furnace. H. J. Hartley, E. J. Fowler, and D. Baird. 1,640,988; Aug. 30.
- Robe rail and handle. Combination. G. L. Hinman and F. E. Greene. Des. 73,177; Aug. 2.
- Road asphalt for shipment and laying. Treating. J. W. Frazier. 1,624,403; Apr. 12.
- Rock-bit breaker. H. Brauer and L. H. Cron. 1,643,442; Sept. 27.
- Rock channeller. W. H. Wineman. 1,648,096; Nov. 8.
- Rock crushers, Automatic disconnecting device for. P. E. Van Saun. 1,645,672; Oct. 18.
- Rock drill. A. E. Carlson. 1,624,312; Apr. 12.
- Rock drill. E. G. Gartin. 1,648,877; Nov. 8.
- Rock drill. C. C. Hansen. 1,617,518; Feb. 15.
- Rock drill. C. C. Hansen. 1,621,250; Mar. 15.
- Rock drill. C. C. Hansen. 1,636,605; July 19.
- Rock drill. A. H. Katterjohn. 1,617,914; Feb. 15.
- Rock drill. A. H. Katterjohn. 1,637,000; July 26.
- Rock drill. E. E. Lee. 1,627,744; May 10.
- Rock drill. G. Lea. 1,623,419; Apr. 12.
- Rock drill. T. Nakayama. 1,617,025; Feb. 8.
- Rock drill. G. M. Nell. 1,633,551; June 21.
- Rock drill. G. M. Nell. 1,643,563; Sept. 27.
- Rock drill. F. M. Slater. 1,629,179; May 17.
- Rock drill. W. A. Smith. 1,616,470; Feb. 8.
- Rock drill. H. H. Swartz. 1,614,216; Jan. 11.
- Rock drills and automatic hammer and boring machine. Electric-driven. E. F. Jones. 1,625,211; Apr. 19.
- Rock-drill bit. A. A. Coaton. 1,650,492; Nov. 22.
- Rock-drill bit. G. F. Nevin and J. Goodland, jr. 1,652,578; Dec. 13.
- Rock drill, Gasoline. J. V. Rice, jr. 1,653,373; Dec. 20.
- Rock-drilling device. E. G. Gartin. 1,626,277; Apr. 26.
- Rock-drilling mechanism. C. F. Osgood. 1,650,383; Nov. 22.
- Rock drills, Disk valve for. C. C. Hansen. 1,637,185; July 26.
- Rock drills, Distributing valve for. F. W. Rudlin. 1,614,969; Jan. 18.
- Rock drills, Feed-screw motor for. C. C. Hansen. 1,637,186; July 26.
- Rock drills, Tube connection for. F. M. Slater. 1,637,204; July 26.
- Rock drills, Valve for. C. C. Hansen. 1,636,632; July 19.
- Rock drills, Valve for. G. W. Hulshizer. 1,621,254; Mar. 15.
- Rock or ore crushing machine. J. G. Malone and J. A. Dormer. 1,630,194; May 24.
- Rocking-horse. F. Eichhorst. 1,621,193; Mar. 15.
- Rocking-horse. W. H. Shrivard. 1,637,500; Aug. 2.
- Rocking-horse. Child's. C. Hofmann. 1,637,643; Aug. 2.
- Rocket. T. G. Hitt. 1,653,178; Dec. 20.
- Rocket, Rotary balanced. T. G. Hitt. 1,645,427; Oct. 11.
- Rod. See—
- Circuiting rod. Lightning rod.
- Connecting rod. Locomotive main rod.
- Curier rod. Piston rod.
- Curtain rod. Radius rod.
- Fishing rod. Stair rod.
- Front rod. Sucker rod.
- Gauge rod. Welding rod.
- Rod and reel. C. L. Dewey. 1,640,350; Aug. 30.
- Rod chair, Concrete-reinforcing-. R. Vogel. 1,620,501; Mar. 8.
- Rod-cigarette machine. P. L. Graupner. 1,622,378; Mar. 29.
- Rod clamp. A. T. Holmes. 1,634,422; July 5.
- Rod clamp, Awning. F. R. Clifton. 1,633,436; June 21.
- Rod, clamping and clevis. A. O. Koppin. 1,641,038; Aug. 30.
- Rod coupling. C. O. Mast. 1,625,266; Apr. 19.
- Rod grip. L. J. Lewellen and O. C. Willis. 1,623,928; Apr. 5.
- Rod grip and slip support. Combined. H. J. Byers. 1,613,439; Jan. 4.
- Rod grip, Polished-. J. R. Mahan. 1,622,331; Mar. 29.
- Rod guide, Pull-. W. E. Brown. 1,618,509; Feb. 22.
- Rod holder. Welding. J. F. Kelly. 1,652,944; Dec. 13.
- Rod hook, Safety. J. E. Potter. 1,650,038; Nov. 22.
- Rod joint. L. K. Singley. 1,639,009; Aug. 16.
- Rod packing, Apparatus for and method of making. H. C. Snyder. 1,634,520; July 5.
- Rod protector. R. H. Penwarden. 1,647,884; Nov. 1.
- Rod, Reel, Concrete-. H. W. Rannikko. 1,652,729; Dec. 13.
- Rod-pulling device. W. Holt. 1,653,046; Dec. 20.
- Rod rack. R. M. Tibbetts. 1,634,359; July 5.
- Rod rotor, Polished-. A. Boynton. 1,633,064; June 21.
- Rod structure, Connecting-. L. J. McKone. 1,643,720; Sept. 27.
- Rods and shafts, Retaining device for. L. Bonsieur. 1,622,390; Mar. 29.
- Rods and the resulting product, Making welding. W. F. Steady. 1,629,748; May 24.
- Rods and wrist pins of internal-combustion engines, Aligning machine for connecting. W. Aab. 1,622,560; Mar. 29.
- Rods, Automatic adjuster for push. J. E. Titus. 1,631,563; June 7.
- Rods, Fitting. Adjusting connecting. W. F. Reynolds. 1,651,546; Dec. 6.
- Rods, pipes, and the like, Lift for sucker. W. W. Donnelly. 1,634,935; July 5.
- Rods, poles, and the like, Fixing for. E. G. Cleverly. 1,624,392; Apr. 12.
- Rods, spindles, and the like, Locking device for adjusting. M. S. Napier, G. S. Wilkinson, and H. C. Tryon. 1,622,203; Mar. 22.
- Rods, wires, or the like, Machinery for bending metallic. A. Melville and D. McDougall. 1,619,951; Mar. 8.
- Rodent and insect exterminator. A. Schille. 1,646,767; Oct. 25.
- Rodent trap. J. P. Lewis. 1,650,455; Nov. 22.
- Roll-adjusting means. L. Johnson. 1,653,709; Dec. 27.
- Roll-forming machine, Vienna-. C. Gottfried. 1,625,649; Apr. 19.
- Roll grizzly. R. C. Newhouse. 1,641,777; Sept. 6.
- Roll heater. H. E. McCrery, A. E. Jessor, and A. B. Montgomery. 1,619,303; Mar. 1.
- Roll-making machine. O. Schlaupitz and W. Schum. 1,640,964; Aug. 30.
- Roll, Multiple-feed sorting. G. B. Willcox. 1,618,500; Feb. 22.
- Rolled plates, Scraper for. D. T. Spring and S. E. Spring. 1,626,435; Apr. 26.

- Roller; See
 Berealing roller. Land roller. Jan. 1.
 Clutch roller. Power roller. Jan. 1.
 Corn-snapping roller. Printing roller. Jan. 1.
 Curtain and shade roller. Rope-guide roller. Jan. 1.
 Feed roller. Sanding roller. Jan. 1.
 Hand roller. Saw-tooth roller. Jan. 1.
 Heating roller. Shade roller. Jan. 1.
 Roller-distributing roller. Track roller. Jan. 1.
 Land or lawn roller. Jan. 1.
 Roller. P. N. Joslin. 1,627,561; May 10.
 Roller. R. R. Ware. 1,618,496; Feb. 22.
 Roller and bearing therefor, Separator. J. T. Norman. 1,651,622; Dec. 6.
 Roller and brushing device, Combination. F. Maurer. 1,620,774; Mar. 15.
 Roller and drum. E. Schmitt. 1,618,554; Feb. 22.
 Roller and pulverizer, Land. J. F. Wagner. 1,624,084; Apr. 12.
 Roller and semicircular chains, Apparatus for manufacturing. M. Bloomer. 1,644,561; Oct. 4.
 Roller arm rest. H. Catlett. 1,628,030; May 10.
 Roller bearing. R. B. Bukolt. 1,614,823; Jan. 18.
 Roller-bearing free wheel. W. C. Klein. 1,637,906; Aug. 2.
 Roller-bearing remover. J. M. Reiter. 1,612,884; Jan. 4.
 Roller bit. C. H. M. Bull. 1,647,269; Nov. 1.
 Roller bit. C. H. M. Bull. 1,653,287; Dec. 13.
 Roller box. H. C. Durnell. 1,633,920; June 21.
 Roller brake, Flexibly-adjustable duct. F. S. Bailey. 1,619,805; Mar. 8.
 Roller-cutter mounting. C. H. M. Bull. 1,634,318; July 5.
 Roller for finishing concrete and the like, Self-adjusting and self-advancing. R. C. Stubbs. 1,650,746; Nov. 29.
 Roller leveler mechanism. G. L. Kelley and C. L. Eksbergian. 1,649,706; Nov. 15.
 Roller mill. E. F. G. Law. 1,619,739; Mar. 1.
 Roller mounting, Curtain and shade. A. E. Binder. 1,653,145; Dec. 20.
 Roller screen. F. D. and C. Hobbs. 1,626,086; Apr. 26.
 Roller-shade bracket. E. R. Clegg. 1,637,763; Aug. 2.
 Roller-shade bracket. W. C. Smith. 1,650,744; Nov. 29.
 Roller stamp, Hand-operated. A. Breusch. 1,648,534; Nov. 8.
 Roller tension device. A. K. Kimberly. 1,646,824; Dec. 25.
 Rolling and motor propelled jack. C. W. Lee. 1,641,444; Sept. 6.
 Rolling device for heading operation. D. Ferguson. 1,619,064; Mar. 1.
 Rolling machine. H. J. Haon and H. Boice. 1,633,096; June 21.
 Rolling machine. K. F. Ungerer. 1,624,448; Apr. 12.
 Rolling machine, Cap-thread. W. Cameron. 1,639,367; Aug. 16.
 Rolling mill. J. R. Coe. 1,614,422-5; Jan. 11.
 Rolling mill. R. Hein. 1,614,612; Jan. 18.
 Rolling mill. L. Jones. 1,636,057; July 19.
 Rolling mill. L. Lee. 1,620,476; Mar. 8.
 Rolling mill. F. Möller. 1,628,175; May 10.
 Rolling mill. L. Pierce. 1,633,349; June 21.
 Rolling mill. T. A. Schraibshuhn. 1,638,463; Aug. 9.
 Rolling mill. J. W. Shepherdson. 1,647,668; Nov. 1.
 Rolling mill. E. E. Slick. 1,621,284; Mar. 15.
 Rolling-mill appliance. G. Boscarelli. 1,618,964; Feb. 22.
 Rolling-mill guide. H. Mercer. 1,620,568; Mar. 8.
 Rolling-mill screw-down. J. B. Tytus. 1,629,602; May 24.
 Rolling-mill table. L. E. Hunt. 1,626,734; May 3.
 Rolling mill, Variable-speed. D. A. Keating. 1,639,851; Aug. 23.
 Rolling mills, Repeater for. A. E. Jupp and F. Seigh. 1,648,732; Nov. 8.
 Rolling stock, Stop for. R. Breyley. 1,648,012; Nov. 8.
 Rolling stock, Transportation of. C. H. Walthall. 1,626,709; May 3.
 Rolls, Apparatus for and method of handling. F. von der Horst. 1,641,998; Sept. 13.
 Roll Arbor for drafting. J. R. Grubb. 1,630,842; May 31.
 Rolls for rolled step-joint bars, Preparing. E. Wolhaupter. 1,620,422; Mar. 8.
 Rolls, Heating means for. G. Fox. 1,638,626; Aug. 9.
 Rolls, Method and apparatus for heating. R. L. McIntosh and G. Fox. 1,622,236; Mar. 29.
 Rolls, Method of and machine for molding. H. S. Bilderback and C. A. Franke. 1,630,106; May 24.
 Röntgen-ray device. R. Fürstenau. 1,647,614; Nov. 1.
 Roof. A. B. Fosseen. 1,627,027; May 3.
 Roof. F. C. Overbury. 1,627,665; May 10.
 Roof. H. R. Wardell. 1,642,316; Sept. 13.
 Roof binding. E. A. Cross. 1,643,877; Sept. 27.
 Roof, Car. C. D. Bonsall. 1,635,305-7; July 12.
 Roof, Car. C. D. Bonsall. 1,643,975; Oct. 4.
 Roof, Car. W. P. Murphy. 1,643,991; Oct. 4.
 Roof construction. A. B. Fosseen. 1,623,102; Apr. 5.
 Roof construction. F. C. Kersch. 1,633,614; June 28.
 Roof construction. H. E. Marks. 1,618,768; Feb. 22.
 Roof covering. N. P. Harshberger. 1,613,101; Jan. 4.
 Roof flashing. E. C. Buckles, J. Henrl, and R. Clow. 1,615,929; Feb. 1.
 Roof-flashing holder. A. Bloxham. 1,653,337; Dec. 20.
 Roof-flashing sealing and retaining device. G. W. Schaeffer. 1,625,688; Apr. 19.
 Roof-gutter bracket. G. K. Thompson. 1,613,784; Jan. 1.
 Roof jacket. F. J. Moore. 1,647,414; Nov. 1.
 Roof or skylight construction. A. Shuman. 1,638,666; Aug. 9.
 Roof, Semi-inclosed, Collapsible underdeck. A. E. Hutt. 1,631,818; June 7.
 Roof structure. H. E. Miller. Re 16,798; Nov. 22.
 Roof structure. J. A. Miller. 1,645,202; Oct. 11.
 Roof support for underground chambers. J. S. Pates. 1,637,588; Aug. 2.
 Roofing. H. L. Guy. 1,642,148; Sept. 13.
 Roofing. W. E. Hale. 1,623,474; Apr. 5.
 Roofing. G. P. Heppes. 1,618,192; Feb. 22.
 Roofing. L. F. Lindley. 1,630,285; Nov. 22.
 Roofing. S. K. Milligan. 1,629,287; May 17.
 Roofing. A. E. F. Moore. 1,623,127; Apr. 5.
 Roofing. A. E. F. Moore. 1,646,551; Oct. 25.
 Roofing. C. W. Scoggin. 1,640,619; Aug. 30.
 Roofing attachment. A. C. Fischer. 1,626,302; May 3.
 Roofing bracket. E. A. Schade. 1,629,352; Aug. 16.
 Roofing clent. T. M. Scarf. 1,642,088; Sept. 13.
 Roofing clip. W. G. Bickell. 1,626,780; May 3.
 Roofing compound. I. Gedarovich. 1,618,078; Feb. 15.
 Roofing element. H. A. Cumfer. 1,619,598; Mar. 1.
 Roofing element. H. A. Cumfer. 1,619,600; Mar. 1.
 Roofing element. T. Robinson. 1,612,885; Jan. 4.
 Roofing element. T. Robinson. 1,631,604; June 7.
 Roofing element. T. Robinson. 1,633,748; Aug. 9.
 Roofing element and making the same. J. H. Gillis. 1,625,888; Apr. 26.
 Roofing elements, Process and apparatus for making. T. Robinson. 1,640,906; Aug. 30.
 Roofing fastening. M. Wagner. 1,638,671; Aug. 9.
 Roofing felt. A. W. Schorger. 1,649,984; Nov. 22.
 Roofing or siding for buildings. J. A. T. P., Jr., and J. J. Flanagan. 1,648,940; Nov. 15.
 Roofing or siding sheet, Corrugated. N. I. Hall. 1,616,968; Feb. 8.
 Roofing. Protected metal. T. Robinson. 1,636,388; July 19.
 Roofing, road surfacing, and other purposes, Composition applicable for. L. C. Lutyens and R. O. Child. 1,641,637; Sept. 6.
 Roofing seam. H. Yost. 1,618,902; Feb. 22.
 Roofing strip. H. G. Kelly. 1,634,465; July 5.
 Roofing supporting strip. H. G. Hise and W. E. Ramsdell. 1,636,095; July 19.
 Roofings, Manufacture of prepared. J. E. Miller. 1,636,750; July 26.
 Room and iron heater, Combined dry. S. C. Markatos. 1,651,463; Dec. 6.
 Room, Hospital operating. P. M. Burgess. 1,645,520; Oct. 18.
 Room, Open-air sleeping. E. T. Heinson. 1,643,070; Sept. 20.
 Rooms, Supporting means for dry. S. C. Markatos. 1,637,261; July 26.
 Roost, Chicken. A. C. Wollenhaupt. 1,646,334; Oct. 18.
 Roost, Collapsible. T. Doser. 1,623,171; Apr. 5.
 Roost, Hen. A. N. Welsner. 1,615,923; Feb. 1.
 Roost, Poultry. B. T. Bouma. 1,627,268; May 8.
 Roost, Poultry. L. J. Kalvig. 1,632,234; June 14.
 Roost, Poultry. G. A. Miller. 1,643,079; Sept. 20.
 Roost, Poultry. C. Schwan. 1,639,006; Aug. 16.
 Roost, Poultry. J. E. Wilson. 1,613,633; Jan. 11.
 Roost, Sanitary poultry. E. O. Dorsey. 1,631,709; June 7.
 Rope. C. F. Cunningham. 1,631,086; May 31.
 Rope clamp. S. Rona. 1,623,615; Apr. 5.
 Rope clamp. H. T. Dyer. 1,652,297; Dec. 13.
 Rope cutter. J. H. Koehn. 1,621,672; Mar. 22.
 Rope-fastening device. J. O. E. Zimmerlund. 1,613,635; Jan. 11.
 Rope for hoisting apparatus, Compensating. F. Hymans. 1,625,083; Apr. 19.
 Rope grip. A. Lucibello. 1,631,745; June 7.
 Rope-guide roller. R. H. Fox. 1,619,413; Mar. 1.
 Rope, Jumping. W. Fairbanks. 1,629,209; May 17.
 Rope, Jumping. E. J. Mordt. Des. 73,755; Nov. 1.
 Rope, Label for. F. A. Jenks. 1,635,750; July 12.
 Rope-making machine. W. H. Fullington. 1,652,111; Dec. 6.
 Rope, Marking device for. E. W. Brewster. 1,635,739; July 12.
 Rope, Mine-sweeping. J. F. Howe. 1,630,847; May 31.
 Rope or wick package, Asbestos. G. O. Obetz and R. F. Walter. 1,640,368; Aug. 30.
 Rope-securing device. A. F. Nelson. 1,648,676; Sept. 27.
 Rope, Skipping. M. Goldstein. 1,651,057; Nov. 29.
 Rope socket. A. C. Sunderland. 1,639,236; Aug. 16.
 Rope-tired wheel. E. N. Turner. 1,629,814; May 24.
 Rope to skip buckets and counterweights, Fastening hoisting. H. E. Birch. 1,632,755; June 14.
 Ropes, cables, and the like, Apparatus for making wire, hemp, or other. E. Edwards, C. Jones, and R. Hanson. 1,636,466; July 19.
 Ropes, Locking mechanism for shock. A. Timous. 1,631,439; June 7.
 Rosin and producing the same, Purified. W. B. Logan. 1,643,276; Sept. 20.
 Rosin dipper. E. A. Smith. 1,632,247; June 14.
 Rotary. L. Patterson. 1,639,268; Aug. 16.
 Rotary. H. C. Thrift. 1,642,220; Sept. 13.

- Rotary bit, Expanding. R. N. Ferguson. 1,639,222; Aug. 16.
- Rotary bodies, Method of and apparatus for testing the dynamic balance of. C. M. Linley. 1,634,428; July 5.
- Rotary bolt lock. F. J. Dowling. 1,617,673; Feb. 15.
- Rotary converters, Control of commutating pole strength on nonbooster. F. T. Hague. 1,645,281; Oct. 11.
- Rotary conveyers, Intermittent grip mechanism for. W. A. Miller. 1,627,046; May 3.
- Rotary cooler. A. W. Lissauer and J. Credo. 1,617,815; Feb. 15.
- Rotary coupling, Flexible. F. R. Simms. 1,636,389; July 19.
- Rotary crossover switch. C. L. Moon. 1,632,558; June 14.
- Rotary cutter. E. A. Hoener. 1,643,120; Sept. 20.
- Rotary disk-cutter cleaner. E. H. Philaditakis. 1,616,388; Feb. 1.
- Rotary drier. D. H. Couch. 1,645,373; Oct. 11.
- Rotary drier. C. Miller. 1,637,831; Aug. 2.
- Rotary drill. A. Versteeg. 1,639,242; Aug. 16.
- Rotary drill bit. J. E. Cubley. 1,641,321; Sept. 6.
- Rotary drill, Quick-change. B. Gregory. 1,653,900; Dec. 27.
- Rotary elements, Wearing ring for. G. J. Winkle. 1,639,279; Aug. 16.
- Rotary engine. B. M. Bernsten. 1,636,799; July 26.
- Rotary engine. E. W. Coker. 1,613,584; Jan. 16.
- Rotary engine. P. D. Hibner. 1,648,398; Nov. 8.
- Rotary engine. J. A. Lehner. 1,628,162; May 10.
- Rotary engine. N. P. Lithander. 1,629,580; May 24.
- Rotary engine. H. Michel. 1,613,283; Jan. 4.
- Rotary engine. H. A. Palmer. 1,613,528; Jan. 4.
- Rotary engine. B. R. Prichard. 1,618,333; Feb. 1.
- Rotary engine. T. Tschudi. 1,641,911; Sept. 6.
- Rotary engine. A. J. Williams. 1,625,233; Apr. 19.
- Rotary fluid motor. J. F. Dahlstrand. 1,616,953; Feb. 8.
- Rotary furnace. J. F. Baker. 1,638,909; Aug. 16.
- Rotary jar. J. A. Kammerdiner. 1,618,759; Feb. 22.
- Rotary machine. E. W. Goesser. 1,619,914; Jan. 4.
- Rotary machine. P. Schaurte. 1,626,973; May 3.
- Rotary mechanism, Lubrication of. F. L. O. Wadsworth. 1,635,593; July 12.
- Rotary members, Locking means for. J. H. Harriman. 1,637,524; Aug. 2.
- Rotary motion into combined reciprocating and oscillating motion, and vice versa, Mechanism for converting. E. W. Bowen. 1,619,696; Mar. 1.
- Rotary motor. G. L. Buffington and E. H. Hopson. 1,624,529; Apr. 12.
- Rotary motor (gas), Reversible. L. B. Hubbard. 1,646,695; Oct. 25.
- Rotary rake. W. L. Wilke. 1,627,422; May 3.
- Rotary roaster, Self-basting. A. Panajiotaras and M. Jones. 1,638,452; Aug. 9.
- Rotary screen. E. O'Toole. 1,617,688; Feb. 15.
- Rotary sprinkler. L. E. Prichard. 1,632,229; June 14.
- Rotary steam engine. H. C. Johnson. 1,642,996; Sept. 20.
- Rotary switch. F. C. De Reamer. 1,637,038; July 26.
- Rotary switch, Periodic. W. N. Olson. 1,621,214; Mar. 15.
- Rotary table. E. W. Goesser and W. D. Davidson. 1,627,323; May 3.
- Rotating shaft and reciprocating piston, Driving connection between a. G. E. A. Hallett. 1,627,775; May 10.
- Rotating sprinkler. O. A. Kittinger. 1,618,537-8; Feb. 22.
- Rotation of a rotary member, Means to prevent reverse. R. L. Wallace. 1,641,360; Sept. 6.
- Rotation of a rotary member, Means to prevent reverse. R. L. Wallace. 1,641,463-4; Sept. 6.
- Rotator. L. P. Burgess and E. E. Stevenson. 1,644,913; Oct. 11.
- Rotator. S. M. Hansen. 1,651,820; Dec. 6.
- Rotors, Guide body for reaction. H. Fritzel. 1,640,891; Aug. 30.
- Rotors, Producing. C. E. Johnson. 1,639,456; Aug. 16.
- Rouge. R. H. Sharp. 1,614,211; Jan. 11.
- Rouge and powder puff. K. D. Jewell. 1,650,839; Nov. 29.
- Rouge, Making. P. J. Hess, sr. 1,618,086; Feb. 15.
- Roundabout. O. C. Hulsman. 1,643,499; Sept. 27.
- Roundabout. K. J. Strigl. 1,641,707; Sept. 6.
- Roundabout. B. F. Woodruff. 1,639,393; Aug. 16.
- Roundabout and like amusement apparatus. R. Blackburn. 1,632,692; June 14.
- Roundabout, Centrifugal. A. A. Stewart and J. H. Stewart. 1,643,097; Sept. 20.
- Router bit. R. L. Carter. 1,630,830; May 31.
- Router bit, Clean-out. J. M. Follett and L. Lehner. 1,632,440; June 14.
- Routing machine. G. H. Carlson. 1,639,485; Aug. 16.
- Routing machines, Adjustable support for. R. L. Carter. 1,638,086; Aug. 9.
- Routing machines, Chip fan for. V. Royle. 1,635,769; July 15.
- Routing machines, Template for guiding. R. L. Carter. 1,615,213; Jan. 25.
- Roving frames, Top clearer for. W. E. Henderson. 1,631,727; June 7.
- Roving machines, Stop motion for. J. H. Owen. 1,633,284; June 21.
- Rowboat motor. F. K. Johnson. 1,640,999; Aug. 30.
- Rowboat motor. A. P. Knauber. 1,632,444; June 14.
- Rowlock. C. Bjork. 1,650,418; Nov. 22.
- Rubber, Accelerating the vulcanization of. W. Scott. 1,639,903; Aug. 23.
- Rubber, Accelerator for the vulcanization of. G. S. Whitby. 1,634,924-5; July 5.
- Rubber and accelerators therefor, Production of vulcanized. H. W. Elley and D. H. Powers. 1,643,205; Sept. 20.
- Rubber and apparatus therefor, Masticating of. H. C. Young and H. C. Burr. 1,628,869; May 17.
- Rubber and compound resulting therefrom, Vulcanizing. N. A. Shepard and S. Krall. Re16,645; June 7.
- Rubber and like material, Machine for mixing or masticating. R. D. Bowen and C. F. Schnuck. 1,623,159; Apr. 5.
- Rubber and producing same, Vulcanization of. L. B. Sebrell. 1,616,994; Feb. 8.
- Rubber and product obtained thereby, Compounding. H. A. Endres. 1,652,141; Dec. 6.
- Rubber and product thereof, Accelerating the vulcanization of. L. B. Sebrell. 1,635,193; July 12.
- Rubber and products obtained therefrom, Compounding and vulcanizing. O. H. Smith. 1,651,737; Dec. 6.
- Rubber and products obtained thereby, Vulcanizing. M. L. Weiss. 1,616,938; Feb. 8.
- Rubber and production thereof, Vulcanized. H. W. Elley. 1,652,101; Dec. 6.
- Rubber and the like, Vulcanizing. T. W. Miller. 1,617,411; Feb. 15.
- Rubber and the product thereof, Vulcanization of. H. Günzler and W. Zieser. 1,653,502; Dec. 20.
- Rubber and the product thereof, Vulcanization of. W. Kropp. 1,616,378; Feb. 1.
- Rubber article, Making a. O. Kirchbaum. 1,625,810; Apr. 26.
- Rubber article, Ornamented. T. W. Miller. 1,640,770; Nov. 15.
- Rubber articles, Curing. R. R. Jones. 1,642,614; Sept. 13.
- Rubber articles from latex, Making molded. J. McSwack. 1,629,924; May 24.
- Rubber articles, Making dipped. J. Hadfield. 1,635,576; July 12.
- Rubber articles, Making hollow. F. T. Roberts. 1,625,394; Apr. 19.
- Rubber articles, Manufacture of coagulum. R. W. Rost. 1,628,195; May 10.
- Rubber articles, Manufacturing seamed hollow. R. T. Griffiths. 1,644,122; Oct. 4.
- Rubber articles, Method and apparatus for making hollow. J. R. Gammeter. 1,639,430; Aug. 16.
- Rubber articles, Method of and apparatus for making. R. H. Saefer. 1,625,398-9; Apr. 19.
- Rubber articles, Treating. W. R. Urquhart, C. W. Post, D. E. Humphrey, and C. C. Van Arsdale. 1,631,943; June 7.
- Rubber ball. J. B. Flowers. 1,628,717; May 17.
- Rubber-coated article and making the same. J. R. Gammer. 1,645,748; Oct. 18.
- Rubber composition. R. H. Uhlinger. 1,638,421; Aug. 9.
- Rubber composition and preparing same. H. W. Elley. 1,624,724; Apr. 12.
- Rubber composition, Article made from a. C. W. Avery and D. O. Moody. 1,642,666; Sept. 20.
- Rubber compounds, Preparing. G. W. Acheson. 1,623,517; Apr. 5.
- Rubber compound and making same, Age-resisting. E. R. Bridgwater and D. H. Powers. 1,628,528; May 10.
- Rubber, Compounded. F. G. Breyer and C. W. Farber. 1,649,782; Nov. 15.
- Rubber containing plastics and products obtained thereby, Preparing. J. McGavack. 1,640,363-4; Aug. 30.
- Rubber conversion product and making same. H. L. Fisher. 1,642,018; Sept. 13.
- Rubber-covered roll. B. W. Rogers and W. L. Glass. 1,619,371; Mar. 1.
- Rubber, Cutting sponge. B. M. Balch. 1,617,511; Feb. 15.
- Rubber-cutting machine. R. W. Dinzel. 1,646,447; Oct. 25.
- Rubber-deterioration retarder and process of making. R. E. B. 1,626,775; May 3.
- Rubber dispersion and producing the same. W. B. Pratt. 1,621,468; Mar. 15.
- Rubber flap. G. H. Wheatley. 1,621,388; Mar. 15.
- Rubber goods and product of same, Surface-finishing. H. W. Emery. 1,631,722; June 7.
- Rubber heels, Tool for placing washers in. C. I. Schrock. 1,639,312; Aug. 16.
- Rubber hose and the like, Curing. C. H. Paeplow. 1,622,340; Mar. 29.
- Rubber, Laminated. L. C. Peterson. 1,640,800; Aug. 30.
- Rubber latex and product obtained thereby, Treating. H. W. Kelley and W. D. Wolfe. 1,644,730; Oct. 11.
- Rubber latex, Treating. E. Hopkinson and W. A. Gibbins. 1,632,759; June 14.
- Rubber machine. H. C. Bartling. 1,614,708; Jan. 18.
- Rubber, Machine for treating. J. Kearns. 1,640,834; Apr. 20.
- Rubber, Machine for uniting sheet. J. Stein. 1,628,203; May 10.
- Rubber, Making reclaimed. C. H. Campbell. 1,640,817; Aug. 30.
- Rubber, Method of and apparatus for vulcanizing. L. F. Lough. 1,633,500; June 28.
- Rubber mold and treating the molding surfaces. A. P. Tallman. 1,652,218; Dec. 13.

- Rubber or similar substances and products resulting therefrom, Combining halogen-containing materials with, C. E. Bradley and W. A. Gibbons, 1,627,725; May 10.
- Rubber or the like and making same, Variegated articles of, T. J. Mell, 1,619,359; Mar. 1.
- Rubber packing upon a cylindrical article, Method and apparatus for vulcanizing, J. C. Crowley, 1,621,000; Mar. 15.
- Rubber product and making same, Sponge-, W. B. Pratt, 1,614,019; Jan. 11.
- Rubber product and producing the same, S. G. Luther, 1,647,184; Nov. 1.
- Rubber, Reclaiming, M. J. Fessler, 1,626,800; May 3.
- Rubber, Reclaiming, G. J. Miller, 1,641,598; Sept. 6.
- Rubber, refiners, Scraper frame for, W. Bredling, 1,641,959; Sept. 13.
- Rubber refiners, Unloading device for, R. S. Trowbridge, 1,629,240; May 17.
- Rubber sheeting, Making decorative, T. J. Mell, 1,635,684; July 12.
- Rubber sheeting, Making patterned, T. J. Mell, 1,634,955; July 5.
- Rubber sheets and in repairing rubber articles, Product for use in unlifting, H. A. Blocker and M. L. Mullin, 1,652,926; Dec. 13.
- Rubber sheets, Protecting covering for, G. J. Esselen, jr., 1,626,276; Apr. 26.
- Rubber sole, Composite, B. F. Hartwell, 1,642,878; Sept. 20.
- Rubber splitting machine, Sheet-, L. L. Lyons, 1,629,830; May 24.
- Rubber sponge and making same, J. Lehr, 1,621,550; Mar. 22.
- Rubber surfaces, Treating, G. F. Wikle, 1,621,615; Mar. 22.
- Rubber to layers of other material or to rubber, particularly with reference to footwear, Securing layers of, F. J. Davis, 1,654,240; Dec. 27.
- Rubber, Treating, H. A. Bruson, 1,631,947; June 7.
- Rubber, Treating, W. G. O'Brien, 1,628,326; May 10.
- Rubber tube trimming, wrapping, and rolling machine, W. Nicholas, 1,640,050; Aug. 23.
- Rubber tubes, Making, J. D. Tew, 1,628,286; May 10.
- Rubber, Utilizing waste, J. W. Ames, 1,624,913; Apr. 19.
- Rubber-vulcanization accelerator, C. O. North, 1,651,931; Dec. 6.
- Rubber vulcanization and products thereof, S. B. Molony and Y. Nikaido, 1,632,617; June 14.
- Rubber vulcanization and product thereof, S. B. Molony and Y. Nikaido, 1,632,666-7; June 14.
- Rubber, Vulcanization of, C. J. T. Cronshaw and W. J. S. Naughton, 1,627,636; May 10.
- Rubber, Vulcanization of, W. Scott, 1,638,220; Aug. 9.
- Rubber-vulcanization process, C. O. North, 1,634,336; July 5.
- Rubber, Vulcanizing, C. W. Bedford, 1,650,975; Nov. 29.
- Rubber, Vulcanizing, W. A. Gibbons, 1,654,167; Dec. 27.
- Rubber, Vulcanizing, J. Teppema, 1,637,790-1; Aug. 2.
- Rubber, Vulcanizing, E. M. Warner, Re16,682; July 19.
- Rugs, like, Protecting stay for leather-top, L. L. Bean, 1,620,712; Mar. 15.
- Rubberized fibrous composition, Machine for making a, P. Beebe, 1,642,008; Sept. 13.
- Rubbing machine, A. B. Kratz, 1,622,592; Mar. 29.
- Ruching forming and applying machine, A. Collins, 1,613,983; Jan. 11.
- Rudder control mechanism, E. G. McCauley, 1,650,636; Nov. 29.
- Rug, S. B. Dickinson, Des. 73,645; Oct. 18.
- Rug, J. Stabler, Des. 72,533; Apr. 26.
- Rug, D. H. Stroud, Des. 74,032-6; Dec. 6.
- Rug-cleaning machine, A. S. Khanzadian, 1,635,366; July 12.
- Rug or similar article, C. F. Humphreys, Des. 71,794; Jan. 4.
- Rug or similar article, H. S. Humphreys, Des. 71,794-5; Feb. 8.
- Rug or similar article, H. S. Humphreys, Des. 72,051-2; Feb. 15.
- Rug or similar article, H. S. Humphreys, Des. 72,097-8; Mar. 1.
- Rug pad, B. Hendel, 1,622,035; Mar. 22.
- Rug renovating machine, T. L. Wagoner, 1,624,293; Apr. 12.
- Rug-weaving machine, J. F. Ptacek, 1,629,886; May 24.
- Rugs and the like, Exhibitor for, J. Loberg, 1,616,588; Feb. 8.
- Rugs and the like, Machine for hooking, H. Levy, 1,616,454; Feb. 8.
- Rugs, Printing, G. Prifold, 1,646,738; Oct. 25.
- Rugs, Strand for, P. C. Waite, 1,651,649; Dec. 6.
- Rule, R. Williams, 1,628,897; Apr. 5.
- Rule, Carpenter's, P. L. Glass, 1,652,980; Dec. 13.
- Rule, Extension, C. O. Linn, 1,629,829; May 24.
- Rule, Flexible, E. S. Burdette, 1,616,950; Feb. 8.
- Rule miter and cut-off, G. W. Dettner, 1,613,087; Jan. 4.
- Rule, Slide, H. Ritow, 1,632,505; June 14.
- Rule, E. R. Johnson, 1,631,731; June 7.
- Rule, C. Röhrlich, 1,614,044; Jan. 11.
- Rule, R. Trane and C. T. Brewer, 1,614,812; Jan. 18.
- Rule, Pants and pocket, C. Capuano, 1,625,453; Apr. 19.
- Ruler, Set-shift parallel, A. Morris and V. L. Morris, 1,633,493; June 21.
- Ruling machine, C. H. Martin, 1,646,206; Oct. 13.
- Ruling machine, F. Merensky, 1,634,580; July 5.
- Ruling machine and the like, Feeding mechanism for, A. Broadmeyer, 1,625,239; Apr. 19.
- Ruling machines and the like, Sheet stop mechanism for, A. Broadmeyer, 1,636,983; July 26.
- Running board, M. W. Huber, 1,637,570; Aug. 2.
- Running board, Retracting sectional, V. H. Cleveland and C. W. Bothe, 1,621,479; Mar. 15.
- Runway, R. W. Davis, 1,652,614; Dec. 13.
- Ruptural safety means, O. Georg, 1,652,352; Dec. 13.
- Rustproofing, M. Green, E. M. Jones, and H. H. Willard, 1,651,694; Dec. 6.
- Rustproofing and articles produced thereby, M. Green and H. H. Willard, 1,639,694; Aug. 23.
- Sacchariferous solutions, Treating, O. S. Olsen, 1,652,680; Dec. 13.
- Sack closure, G. Möller, 1,625,772; Apr. 19.
- Sack jigger, H. G. Williams, 1,640,103; Aug. 23.
- Sacking, packing and mixing machine, M. Gotten, 1,635,936; July 12.
- Saddle, H. Mesinger, 1,648,055; Nov. 8.
- Saddle belt, Workman's, C. G. Thurnau, 1,642,911; Sept. 20.
- Saddle panel, F. Eassie, 1,637,810; Aug. 2.
- Saddle, Pipe, G. G. Brady, 1,641,879; Sept. 6.
- Saddle, Running-board, W. D. Thompson, 1,644,760; Oct. 11.
- Saddle seat, A. Dourdonfus, 1,620,448; Mar. 8.
- Saddle stirrups, Safety device for, M. Hendriks, 1,622,610; Mar. 29.
- Saddle, Top-roll, T. W. Lawton, 1,623,688; Apr. 5.
- Sadlons, C. A. Brewer, 1,649,507; Nov. 15.
- Sadiron, W. H. Lanak, 1,623,615; May 3.
- Sadiron, Electric, J. E. Marsden, 1,615,464; Jan. 25.
- Sadiron, Electric, O. Spahr, 1,645,667; Oct. 18.
- Sadiron holder, W. L. Chew, 1,613,160; Jan. 4.
- Sadiron, Self-heating, C. E. Adamson, 1,636,162; July 19.
- Safety, Overtemperature control for electric, O. Dodge, 1,646,875; Oct. 11.
- Sadiron, Rest for, H. Selgman, 1,626,101; Apr. 28.
- Safe, F. X. Berge, 1,649,504; Nov. 15.
- Safe, C. F. Kloss, 1,637,381; Aug. 2.
- Safe, O. P. Le Compte and S. A. Cahn, 1,623,255; Apr. 5.
- Safe, M. Salamon, 1,627,464; May 3.
- Safe, E. H. Westland, 1,613,813; Jan. 11.
- Safe, Deposit, C. W. Banta, 1,635,736; July 12.
- Safe, Filing, C. B. Ulrich, 1,651,784; Dec. 6.
- Safe-locking mechanism, W. T. Benham and J. E. Dwyer, 1,632,428; June 14.
- Safe, Match, J. E. Neahr, 1,637,496; Aug. 2.
- Safe or vault, Wall, G. R. Meyerord, 1,652,987; Dec. 13.
- Safe vault, P. S. Millice, 1,642,552; Sept. 13.
- Safe, Wall, S. L. Belknap, 1,644,410; Oct. 4.
- Safes, Automatic emergency lock for, E. M. Jones, 1,632,204; Aug. 2.
- Safes, Constructing, S. F. Laucks and W. B. Wilkinson, 1,619,139; Jan. 29.
- Safes, Locking device for, W. R. Harris and J. L. Garrison, 1,613,457; Jan. 4.
- Safes, Locking device for, C. F. Meilink, 1,619,670; Mar. 1.
- Safes, Locking mechanism for, H. M. Dalton, 1,634,933; July 6.
- Safety apparatus, G. Pagano, 1,645,819; Oct. 18.
- Safety apparatus, C. C. Smith, 1,642,182; Sept. 13.
- Safety appliance, F. Hymans, 1,653,909; Dec. 27.
- Safety appliance, W. E. Smiley, 1,640,077; Aug. 30.
- Safety appliance, Automatic, C. A. Howe, 1,638,934; Aug. 16.
- Safety-appliance gauge, W. B. Shea, 1,638,885; Aug. 16.
- Safety attachment, Gas-valve, H. H. Bowman, 1,615,004; Jan. 18.
- Safety block, W. H. McKlissick, 1,633,489; June 21.
- Safety bracket, Brake-beam, J. A. Foxgrover, 1,650,503; Nov. 22.
- Safety catch, J. Fielding and J. P. Whitaker, 1,616,964; Feb. 8.
- Safety catch, P. W. Jones, 1,631,824; June 7.
- Safety catch, Forming the body member of a, E. Morehouse, 1,635,188; July 12.
- Safety clasp, R. J. Browning, 1,644,562; Oct. 4.
- Safety device, C. H. Gare, 1,626,077; Apr. 26.
- Safety device, A. A. Garey, 1,645,181; Oct. 11.
- Safety device, J. W. Lee, 1,651,609; Dec. 6.
- Safety device, J. C. Mendonca, 1,646,971; Oct. 25.
- Safety device, J. B. Monahan, 1,630,402; May 31.
- Safety device, W. Welb, 1,621,148; Mar. 15.
- Safety device and bumper, C. Kirch, 1,621,635; Mar. 22.
- Safety gate, Traffic, J. E. Jimmis, 1,640,820; Oct. 25.
- Safety guard, Come-along, C. C. Coon, 1,642,874; Sept. 20.
- Safety guard for dangerous highways and the like, H. C. Lookabaugh, Re16,649; June 7.
- Safety guard for dangerous highways and the like, H. C. Lookabaugh, 1,614,795; Jan. 18.
- Safety hitch, G. Den Besten, 1,643,653; Sept. 27.
- Safety hook, J. F. Moody and V. L. Du Boise, Re16,613; May 3.

- Safety hook. R. E. Nelson. 1,626,865; May 3.
 Safety hook. G. N. Porter. 1,622,971; Mar. 29.
 Safety hook. H. E. Stockstad. 1,626,642; May 3.
 Safety hook. S. K. Tibbens. 1,627,470; May 3.
 Safety hook. B. Woods. 1,618,321; Feb. 22.
 Safety lock. E. D. White. 1,653,487; Dec. 20.
 Safety lock, Automatic. A. B. Small. 1,653,515; Dec. 20.
 Safety pin. A. Dudas and A. P. Wasil. 1,623,532; Apr. 5.
 Safety plate against burning during cooking. A. Butz. 1,621,987; Mar. 22.
 Safety sheave block. W. H. McKissick. 1,633,537; Feb. 21.
 Safety signal. G. Dawkins. 1,618,580; Feb. 22.
 Safety signal. A. S. Johnson. 1,648,350; Nov. 8.
 Safety signal. G. A. Smith and E. L. Evans. 1,618,681; Feb. 22.
 Safety support. F. T. De Long. 1,647,278; Nov. 1.
 Safety switch. H. J. L. Frank. 1,643,768; Sept. 27.
 Safety switch. A. E. Griswold. 1,629,158; May 17.
 Safety switch. C. F. Schwenker. 1,651,935; Dec. 6.
 Safety switch, Automatic. B. B. Dolly. 1,640,695; Aug. 30.
 Safety switch, Electric. B. E. Getchell. 1,620,814; Mar. 15.
 Safety switch, Externally-operated. T. A. Both. 1,623,573; Apr. 5.
 Safety-tread unit. E. Van Der Pyl. 1,619,773; Mar. 1.
 Sailboat. L. F. Herreshoff. 1,613,890; Jan. 11.
 Sails, Sliding device for. H. Reckmann. 1,647,813; Nov. 1.
 Sails, Sliding device for. H. Reckmann. 1,652,957; Dec. 13.
 Sales Book, Manifolding. E. K. Bottle. 1,636,548; July 19.
 Sales book, Manifolding. E. K. Bottle. 1,636,801; July 26.
 Sales-indicating container. J. S. Cochran. 1,638,813; Aug. 9.
 Sales rack. F. C. Kenyon, jr., and F. R. Goodell. 1,636,608; July 19.
 Salt and pepper shaker. K. Ino. Des. 71,836; Jan. 11.
 Salt and pepper shaker. W. C. McCartney. Des. 73,707; Oct. 25.
 Salt and pepper shaker, Combination. O. W. Baldwin. Des. 73,424; Sept. 13.
 Salt and pepper shaker, Combination. O. W. Baldwin. 1,644,811; Oct. 11.
 Salt and pepper shaker, Combination. T. C. Helsey. Des. 73,032; July 22.
 Salt and pepper shaker, Combination. T. C. Helsey. Des. 73,377; Aug. 30.
 Salt and pepper shaker, Combination. T. C. Helsey. Des. 73,431; Sept. 13.
 Salt and pepper shaker, Combined. A. J. Flauder. Des. 72,553-5; Mar. 22.
 Salt and pepper shaker, Combined. A. J. Flauder. Des. 72,311-12; Mar. 29.
 Salt and pepper shaker, Combined. A. J. Flauder. Des. 72,515-16; Apr. 26.
 Salt and pepper shaker or article of similar nature. H. Schattman. Des. 73,050; July 12.
 Salt crystals from iron contaminants, Purifying. J. P. Bassett. 1,616,250; Feb. 1.
 Salt, Making table. F. W. Huber. 1,645,238; Oct. 11.
 Salt, composed of alkaloïds and acetylaminohydroxy-phenyl arsenic acid and preparing the same. F. Billon. 1,643,692; Sept. 27.
 Salvage trimmer. P. Pappano. 1,652,149; Dec. 6.
 Salvaging apparatus. H. Lotz. 1,639,572; Aug. 16.
 Salvage ring. J. H. Hammond, jr. 1,627,174; May 3.
 Sample book. F. A. Harrison. 1,630,487; May 31.
 Sample case. H. H. Labadie and B. B. Beers. 1,653,711; Dec. 27.
 Sample folder, Reversible. W. H. Gosch. 1,622,314; Mar. 29.
 Sampling apparatus and system. C. G. Dresser and F. S. Youtsey. 1,641,748; Sept. 6.
 Sampling device. W. W. Smith. 1,641,996; Sept. 13.
 Sampling device, Liquid-. W. W. Lewis. 1,649,241; Nov. 15.
 Sanatorium. M. Mederer. 1,645,611; Oct. 18.
 Sand and gravel washer. S. A. Loftus and T. Cureton. 1,645,603; Oct. 18.
 Sand and the like, Machine for distributing. T. F. McGuinness. 1,623,743; Apr. 5.
 Sand, Apparatus for cutting and mixing. V. E. Minich. 1,632,746; June 14.
 Sand bag. E. Nestler. 1,635,094; July 5.
 Sand-blast apparatus. E. R. Rich, jr. 1,645,175; Sept. 20.
 Sand-blast apparatus, Carriage arrangement for. H. F. Hoevel. 1,628,317; May 10.
 Sand-blast relief carving. G. R. Philip. 1,627,456; May 3.
 Sand-blast system. W. C. Mauney and W. L. Dunn. 1,641,342; Sept. 6.
 Sand-blasting machine. F. Leu. 1,637,196; July 26.
 Sand cleaning and classifying device. E. Shaw. 1,637,625; Aug. 2.
 Sand cutting and mixing machine. H. R. Silivinski. 1,645,625; Oct. 18.
 Sand cutting and piling machine. H. Smith. 1,652,588; Dec. 13.
 Sand-cutting machine. O. A. Butterfield. 1,636,168; July 29.
 Sand distributor. T. E. Barton. 1,640,636; Aug. 30.
 Sand, emery, or other abrasive paper, cloth or the like. I. C. Simons. 1,635,350; July 12.
 Sand, Foundry. W. Cureton. 1,614,659; Jan. 18.
 Sand-heating apparatus for building purposes. F. Selmer. 1,631,699; June 7.
 Sand mold. A. W. Ferring. 1,639,934; Aug. 23.
 Sand molds, Apparatus for forming. J. T. Stoney. 1,653,775; Dec. 27.
 Sand mulling and aerating machine. W. H. Nicholls. 1,636,864; July 19.
 Sand or other riddle or sieve. W. M. O'Keefe. 1,614,384; Jan. 11.
 Sand reel. C. F. Fernald. 1,634,988; July 5.
 Sand reel. C. W. Lynch. 1,641,893; Sept. 6.
 Sand separator. A. G. J. Rapp. 1,634,385; July 5.
 Sand sifter. R. Ruemelin. 1,652,878; Dec. 13.
 Sand-testing tool. C. Newburn. 1,625,674; Apr. 19.
 Sand trap. J. A. Lawrence. 1,623,015; Mar. 29.
 Sand trap. F. G. Sites. 1,649,865; Nov. 22.
 Sand-treating machine. V. E. Minich and R. H. Moore. 1,647,243; Nov. 1.
 Sander. M. L. Davis. 1,641,625; Sept. 6.
 Sandalwood burner. N. Wom. 1,613,777; Jan. 11.
 Sander drum. R. A. Williams and W. L. Bigsby. 1,639,155; Aug. 16.
 Sander, Floor. L. Durr. 1,628,129; May 10.
 Sander, oscillating belt. G. H. Carlson. 1,628,531; May 10.
 Sander, Pneumatic. T. S. Gilmore. 1,637,609; Aug. 2.
 Sander, Pneumatic. C. F. Kabisus. 1,613,277; Jan. 4.
 Sander device. J. O. Cage. 1,643,872; Sept. 27.
 Sander machine. J. C. De Penning. 1,639,216; Aug. 16.
 Sander machine. E. J. Fischer. 1,635,399; July 12.
 Sander machine, Double-belt. E. F. Butts. 1,650,863; Nov. 29.
 Sander roller. G. H. Davol. 1,631,798; June 7.
 Sandpaper and rubbing machine. L. Ferrara. 1,624,400; Apr. 12.
 Sandpaper holder. C. M. Canada. 1,618,052; Feb. 15.
 Sandwich display fixture. W. Cecil. 1,630,469; May 31.
 Sandwich fork. C. Engert. 1,643,708; Sept. 27.
 Sandwich holder. I. Hirtz. Des. 73,567; Oct. 4.
 Sanitary appliance. A. Friedman. 1,616,616; Feb. 8.
 Sanitary bedbug trap. L. E. Schneider. 1,614,157; Jan. 11.
 Sanitary can. H. Schrader. 1,650,572; Nov. 22.
 Sanitary closets, Sear-actuating means for. W. E. Chastain. 1,632,819; June 21.
 Sanitary napkin. H. S. Williams. 1,643,615; Sept. 27.
 Sanitary napkin, End-locked. R. W. Johnson. 1,629,390; May 17.
 Sanitary napkin or the like. E. B. Thomas. Re16,603; Apr. 19.
 Sanitary pad. M. V. Bauer. Re16,570; Mar. 15.
 Sanitary pad. P. H. McKay. 1,643,316; Nov. 8.
 Sanitary waste can. J. F. Gebel. 1,645,100; Oct. 11.
 Sash. W. C. Corvill. 1,619,511; Mar. 8.
 Sash. D. Patasnik. 1,619,631; Mar. 1.
 Sash adjuster and fastener. A. E. Molberg. 1,633,645; June 28.
 Sash adjusters, Operating means for. L. Roth. 1,615,851; Feb. 1.
 Sash, All-metal window. O. V. Nelson. 1,635,336; July 12.
 Sash and lock construction, Window. R. T. Axe. 1,640,173; Aug. 23.
 Sash and sash cord, Connector for. G. W. Lancaster. 1,627,786; May 10.
 Sash and screen, Window. A. W. Goldman. 1,626,336; Apr. 26.
 Sash anti-rattler. T. F. Wharton. 1,653,830; Dec. 27.
 Sash attachment, Window-. H. Huyard. 1,620,817; Mar. 15.
 Sash balance, Spring. R. Lanzillotta. 1,654,423; Dec. 27.
 Sash-balancing device. A. L. Wagniere. 1,626,018; Apr. 26.
 Sash-bar construction. G. W. Clay. 1,636,764; July 26.
 Sash construction. J. F. Levay. 1,637,865; Aug. 2.
 Sash construction, Window-. H. E. Campbell. 1,652,607; Dec. 13.
 Sash construction, Window. C. M. Gibson. 1,629,076; May 17.
 Sash-cord fastener. T. W. Barrett. 1,622,988; Mar. 29.
 Sash-cord guide. L. R. Talbert. 1,616,205; Feb. 1.
 Sash, Double-hung window. J. Brough. 1,643,920; Sept. 27.
 Sash fastener. J. J. Bradley. 1,625,238; Apr. 19.
 Sash fastener. G. O. Briggs. 1,634,350; July 5.
 Sash fastener. T. Dols. 1,613,315; Jan. 4.
 Sash fastener. W. H. Gillette. 1,631,370; June 7.
 Sash fastener. F. J. Hart and D. W. McGee. 1,637,937; Aug. 2.
 Sash fastener. T. C. Judge. 1,617,813; Feb. 15.
 Sash fastener. C. Raw. 1,642,266; Sept. 13.
 Sash fastener. J. T. Williams. 1,630,153; May 24.
 Sash fastener, Automatic. G. J. Talbot. 1,651,048; Nov. 29.
 Sash fastener, Storm-. H. H. Brugnann. 1,651,320; Nov. 29.
 Sash fastener, Storm-. E. Rudberg. 1,641,551; Sept. 6.
 Sash fastener, Window-. N. Sirbola. 1,652,068; Dec. 6.

- Sash frame. A. L. Doering. 1,644,645; Oct. 4.
Sash frame. H. C. Mills. 1,621,332; Mar. 15.
Sash frame and other frame, Window-. L. Manning. 1,651,899; Dec. 6.
Sash frame, Casement. F. C. Andersen, E. C. Madson, and G. A. Chapman. 1,623,772; Apr. 5.
Sash frame, Fireproof. O. W. L. Buss. 1,640,595; Aug. 30.
Sash guide. T. W. Holt. 1,621,507-8; Mar. 22.
Sash guide. T. W. Holt. 1,632,549; June 14.
Sash hanger. A. C. Soule. 1,645,331; Nov. 8.
Sash holder. O. Dannehl. 1,622,132; Mar. 22.
Sash holder, Adjustable. W. A. Wolford. 1,624,819; Apr. 12.
Sash holder and window release, Combined. J. L. Armstrong. 1,640,064; Aug. 28.
Sash holder or latch. E. P. Chaffee. 1,614,917; Jan. 18.
Sash holder, Storm-. J. A. Lee. 1,644,886; Oct. 11.
Sash holder, Window. R. H. Shelton. 1,631,772; June 7.
Sash lift. A. G. Ilch. 1,628,605; May 10.
Sash lifter. O. Gessier. 1,613,093; Jan. 4.
Sash lifter and latch. T. C. Williams. 1,635,448; July 12.
Sash lock and counterbalance. W. W. White. 1,628,346; May 10.
Sash, Metal window. C. G. Nelson. 1,649,914; Nov. 22.
Sash-operating device. W. S. Odle. 1,652,632; Dec. 13.
Sash-operating device and lock. N. Q. Kelso. 1,622,949; Mar. 29.
Sash-operating mechanism. E. L. Ackerman. 1,641,954; Sept. 13.
Sash-operating mechanism. E. L. Ackerman. 1,644,809; Oct. 11.
Sash-operating mechanism. U. E. Tuomi. 1,619,167; Mar. 1.
Sash operator. A. G. Wass. 1,651,494; Dec. 6.
Sash operator and lock, Window-. W. A. Carver. 1,647,901; Nov. 1.
Sash, Pivoted and sliding window. C. Heiman. 1,613,274; Jan. 4.
Sash-pulley marker. D. W. Davidson. 1,632,824; Feb. 22.
Sash-regulating device. O. G. Burch. 1,621,104; Mar. 15.
Sash-regulating device. K. H. Gettner. 1,640,931; Aug. 30.
Sash-regulating device. C. Ungerman. 1,630,230; May 24.
Sash regulator. C. Ungerman. 1,640,864; Aug. 30.
Sash retaining device, Window-. F. Rooney. 1,644,036; Oct. 4.
Sash, Self-supporting. C. G. Nelson. 1,649,918; Nov. 22.
Sash, Self-supporting window. C. G. Nelson. 1,649,919; Nov. 22.
Sash stop, Window-. V. J. Whitney. 1,618,618; Feb. 22.
Sash support, Window. W. L. Thomas. 1,634,599; July 5.
Sash, Ventilating. E. F. McHugh. 1,626,547; Apr. 26.
Sash-weight mold. E. Grant. 1,649,162; Nov. 15.
Sash-weight molds, Method and apparatus for making. J. J. Kleiming. 1,629,492; May 24.
Sash-weight support. C. L. Schneider. 1,649,861; Nov. 22.
Sash-welding apparatus. C. F. Kunej. 1,648,409; Nov. 8.
Sash, Window. C. F. Lynch. 1,614,564; Jan. 18.
Satchels, Automatic alarm for. E. F. Scales. 1,640,254; Aug. 23.
Satin white, Preparing. J. F. Fredriksson. 1,632,891; June 21.
Saturants, Preparation of. J. Zaveritnik, Jr. 1,636,271; July 19.
Saturating materials, Apparatus for. L. Kirschbraun and C. E. Kahr. 1,631,826; June 7.
Saturator apparatus, Ammonia-. J. Becker. 1,654,159; Dec. 27.
Saturators and coaters, Adjusting device for. H. A. Cumfer. 1,652,518; Dec. 13.
Saucepan. R. S. Dunlap. 1,623,397; Apr. 5.
Saucepan and the like. P. Branch. 1,628,107; May 10.
Saucer. K. Awoki. 1,641,338; Jan. 11.
Saucer or similar article. E. W. Heisey. Des. 72,064; Feb. 22.
Sausage casing and making same. H. Hensel. 1,645,425; Oct. 11.
Sausage casing, etc. W. F. Henderson. 1,645,505; Oct. 11.
Sausage casings for stuffing, Preparation of. W. F. Henderson. 1,616,971; Feb. 8.
Sausage casings, Method of and apparatus for making. W. F. Henderson. 1,654,253; Dec. 27.
Sausage hanger. G. Ritter. 1,616,231; Feb. 1.
Sausage-linking machine. J. Rachford. 1,616,868; Feb. 8.
Sausage machines, Length control for. F. C. Arey. 1,642,353; Sept. 13.
Sausage-making machine. C. Curry. 1,629,655; May 24.
Sausage-making machine. W. H. Potter. 1,639,270; Aug. 16.
Sausage meat and producing same. J. Alsberg. 1,635,802; July 12.
Sausage-stuffer. E. W. Knowlton. 1,628,726; May 17.
Sausage-stuffing machine. T. Lutostanski. 1,636,424; July 19.
Sausage-twisting machine. J. L. Morris and C. H. Allen. 1,621,994; Mar. 22.
Sausages, Preparing wiener. E. O. Freund. 1,631,723; June 7.
Saving system. W. A. Ringler. 1,630,095; May 24.
Savings bank. C. Fisher. 1,631,315; June 7.
Saw. F. Arimond. 1,652,084; Dec. 6.
Saw. J. C. De Penning. 1,635,465; July 12.
Saw. R. Farren. 1,620,454; Mar. 8.
Saw. J. P. Salmi. 1,624,072; Apr. 12.
Saw. J. Schreiner. 1,627,622; May 10.
Saw. W. S. Sherman. 1,649,864; Nov. 22.
Saw. C. Weiler. 1,650,477; Nov. 22.
Saw, Adjustable power. C. E. Johnson. 1,615,281; Jan. 25.
Saw and drill, Combination portable electric. H. W. Howland. 1,644,432; Oct. 4.
Saw and square, Combination. R. R. Irvine. 1,620,891; Mar. 15.
Saw and wheel therefor, Band. J. W. Causey. 1,630,468; May 31.
Saw, Band. A. Obermoser. 1,636,484; July 19.
Saw, Breaking-down. P. S. O'Neill. 1,624,064; Apr. 12.
Saw, Brush-cutting. T. L. Douglass. 1,649,950; Nov. 22.
Saw, Chain. S. J. Bens. 1,652,295; Dec. 13.
Saw, Circular. F. W. Adolf. 1,619,780; Mar. 1.
Saw clamp. E. N. Large. 1,625,066; Apr. 19.
Saw, Combination back and scroll. E. J. Boyd. 1,628,526; May 10.
Saw, Compositing-room. E. Cheshire. 1,618,170; Feb. 22.
Saw construction. A. Westgard. 1,642,185; Sept. 13.
Saw construction. A. Westgard. 1,650,884; Nov. 29.
Saw-crack punch. J. R. Spencer. 1,623,816; Apr. 5.
Saw, Cut-off. T. E. Porter. 1,636,924; July 26.
Saw dresser, Band-. A. S. Avery. 1,643,148; Sept. 20.
Saw, Electric hand. W. P. Casey. 1,651,995; Dec. 6.
Saw-filing guide. A. K. Sears. 1,648,426; Nov. 8.
Saw gauge. M. J. Hahre. 1,624,050; Apr. 12.
Saw gauge. A. H. Narrow. 1,633,996; June 28.
Saw guard. W. N. Johnson. 1,647,868; Nov. 1.
Saw guard. G. J. Procknow. 1,640,517; Aug. 30.
Saw guide. J. W. Causey. 1,642,838; Sept. 20.
Saw guide. J. F. Jeffers. 1,615,703; Jan. 25.
Saw guide. E. M. Knabusch and E. Shoemaker. 1,639,039; Aug. 16.
Saw, Hack. H. M. German. 1,616,364; Feb. 1.
Saw, Hack. D. E. Gommel. 1,646,369; Oct. 13.
Saw, High-speed friction. A. Jacobowitz. 1,640,832; Aug. 30.
Saw machine, Band-. W. Hess. 1,617,712; Feb. 15.
Saw machine, Jig-. F. E. Grose. 1,632,673; Apr. 5.
Saw machine more particularly for the sawing of metals. Reciprocating-. A. Pays. 1,651,101; Nov. 29.
Saw machines, Hand feed for drag-. V. J. Kosianciec. 1,637,616; Aug. 2.
Saw, Met. G. F. Feister. 1,631,366; June 7.
Saw mechanism, Trimmer. G. Graffnaberger. 1,645,750; Oct. 18.
Saw, Metal. G. F. Feister. 1,618,585; Feb. 22.
Saw, Motor-driven. J. Beck and A. E. Gallin. 1,648,632; Nov. 8.
Saw, Motor-driven. C. Lynn. 1,622,120; Mar. 22.
Saw, Motor-operated. M. Clodfelter. 1,627,552; May 10.
Saw, Motorized hand. E. J. Maloney. 1,620,374; Mar. 8.
Saw, Motor. M. Kruse. 1,621,420; Mar. 15.
Saw or other saw guide, Gang-. D. F. Denham. 1,614,188; Jan. 11.
Saw, Plaster-cast. D. G. Sayre. 1,641,505; Sept. 6.
Saw, Portable. E. W. Wappat. 1,623,290; Apr. 5.
Saw, Portable motor-driven. J. M. Crowe. 1,644,326; Oct. 4.
Saw, Portable power cut-off. E. E. Ferguson. 1,642,145; Sept. 13.
Saw, Portable reciprocating power. L. G. Econom. 1,623,309; Apr. 5.
Saw, Portable tree-felling. A. Radtke. 1,626,553; Apr. 26.
Saw, Power. C. H. Jull. 1,638,122; Aug. 9.
Saw, Power. R. M. Kennedy. 1,622,237; Mar. 22.
Saw, Power-driven hand. C. M. Selby and C. P. Nystrom. 1,648,008; Nov. 8.
Saw, Power-operated hand. F. Bjorklund. 1,626,508; Apr. 26.
Saw protector. C. T. Perry. 1,643,085; Sept. 20.
Saw, Pruning. A. E. Kness. 1,646,484; Oct. 25.
Saw, Pruning. G. P. Santoyo. 1,638,749; Aug. 9.
Saw set. A. Johnson. 1,631,534; June 7.
Saw, Sct. B. Rockley. 1,613,199; Jan. 4.
Saw-sharpening machine. O. H. Fletcher and J. A. Tenney. 1,624,864; Apr. 12.
Saw shifter. G. W. Dorman. 1,650,613; Nov. 29.
Saw side file, Hand and band. S. A. Sheller. 1,643,135; Sept. 20.
Saw, Stone and marble. W. J. Jones. 1,620,466; Mar. 8.
Saw support, Undercutting-. A. Dahlman. 1,632,727; June 14.
Saw tool. A. Turcotte. 1,616,340; Feb. 1.
Saw tooth. E. Foerster. 1,653,265; Dec. 20.
Saw-tooth gauge. C. A. Briggs. 1,626,029; Apr. 26.
Saw-tooth roller, Band-. A. E. Proctor. 1,631,336; June 7.
Saw, Tree. R. Wiard and A. J. Van Sise. 1,644,316; Oct. 4.
Saw, Tree-felling. A. Palmigiano, Jr. 1,645,924; Oct. 18.
Saw, Tubular stone. J. A. Hall. 1,620,265; Mar. 8.

- Sawing and boring on a plurality of angles, Machine for. H. W. Howland. 1,618,341; Feb. 22.
- Sawing apparatus and method. W. S. Dietrich. Re16,747; Sept. 27.
- Sawing apparatus and method. W. S. Dietrich. 1,631,927; June 7.
- Sawing apparatus, Tree-. S. J. Bens. 1,617,565; Feb. 15.
- Sawing machine. L. B. Skoglund. 1,635,290; July 12.
- Sawing machine. D. C. Slaght. 1,634,692; July 5.
- Sawing machine, Adjustable. N. Maddox. 1,620,370; Mar. 8.
- Sawing machine, Adjustable. A. Mansfield. 1,644,887; Oct. 11.
- Sawing machine, Band. W. R. Harden. 1,651,702; Dec. 6.
- Sawing machine, Cut-off. P. D. Parsons. 1,643,994; Oct. 4.
- Sawing machine, Portable. N. M. and H. F. Nelson. 1,616,505; Feb. 8.
- Sawing or cutting machine, Universal. C. J. Carlson. 1,615,901; Feb. 1.
- Sawing, planing, and like machines, Feed roller for. T. Shurmer. 1,629,842; May 24.
- Saws, Blower for. C. J. Abbey. 1,623,859; Apr. 5.
- Saws, Cutting disk for, High-speed friction. A. Jacobowitz. 1,630,945; May 31.
- Saws, Girt-pin connection for gang. F. S. Floeter. 1,617,584; Feb. 15.
- Saws, Guard for circular. J. B. Watson. 1,616,478; Feb. 8.
- Saws, Machine for straightening. L. Parr. 1,626,751; May 3.
- Saws, Machine for the filing and setting of. R. T. Myers. 1,652,454; Dec. 13.
- Saws, Making. L. E. Swett. 1,631,657; June 7.
- Saws, Method and apparatus for cooling friction. W. S. Dietrich. 1,648,938; Nov. 15.
- Saws, Method of and machine for making. H. H. Powers. 1,646,870; Oct. 25.
- Saws, Miter for power-driven. J. B. Meek and C. F. Hayse. 1,646,589; Oct. 25.
- Sawdust burner, Domestic. E. R. Bryer. 1,613,265; Jan. 4.
- Sawmill, Automatic. L. H. Street. 1,648,920; Nov. 15.
- Sawmill carriage. E. T. Bradford. 1,633,920; June 28.
- Sawmill carriage. D. Brown and A. H. Irving. 1,613,159; Jan. 4.
- Sawmill carriage. P. F. Lueh. 1,632,708; June 14.
- Sawmill-carriage offset. J. H. Rooney. 1,623,854; Apr. 5.
- Sawmill carriages, Holding device for. R. W. Stockemer. 1,622,095; Mar. 22.
- Sawmill dog. R. E. Langill and W. B. Grueter. 1,637,907; Aug. 2.
- Sawmill dog. W. Newsom. 1,641,900; Sept. 6.
- Sawmill-dog-actuating mechanism. J. M. Brophy. 1,625,240; Apr. 19.
- Sawmill network. T. Carmichael and J. E. Bowlin. 1,633,206; June 21.
- Sawmills, Chain-driven belt feed works for. G. E. Campbell. 1,623,908; Apr. 5.
- Sawmills, Transfer table for. C. Mosen and W. J. Colman. 1,629,225; May 17.
- Sawyer's gauge. O. E. Gardner. 1,649,955; Nov. 22.
- Saxophone. W. F. Gemeinhardt. 1,623,719; May 17.
- Saxophone attachment. C. W. McElroy. 1,620,564; Mar. 8.
- Saxophone cord. A. S. Lang. 1,637,003; July 26.
- Saxophone mouthpiece. D. A. McDonald. 1,643,310; Sept. 27.
- Saxophones, Key device for. F. L. Lemm. 1,632,008; June 14.
- Scaffold. H. Ericsson. 1,616,743; Feb. 8.
- Scaffold. H. B. Gaffers. 1,653,763; Dec. 27.
- Scaffold. N. Kilbeck. 1,633,112; June 21.
- Scaffold and steepladder, Combination. H. Wittek. 1,636,085; July 19.
- Scaffold bracket. M. Campbell. 1,650,324; Nov. 22.
- Scaffold bracket. D. J. and D. E. Lockard. 1,623,718; Mar. 24.
- Scaffold bracket. A. E. Metz. 1,626,745; May 3.
- Scaffold bracket, Combination. P. E. Goodwin. 1,650,939; Nov. 29.
- Scaffold bracket, Shingle. W. E. Martens. 1,646,923; Oct. 25.
- Scaffold, Painter's. A. Damore. 1,642,333; Sept. 13.
- Scaffold, Portable. H. J. Yager. 1,631,843; June 7.
- Scaffold shoe. L. Sobray. 1,623,892; Apr. 5.
- Scaffold support. T. Scott. 1,614,496; Jan. 18.
- Scaffold, Window washers. W. R. Tate. 1,622,067; Mar. 22.
- Scaffolds, Clamp for. A. Villa. 1,636,930; July 26.
- Scaffolding and other framework structures, Coupling or clamping device for. D. Palmer-Jones. 1,631,831; June 7.
- Scaffolding or the like, Clamp for. K. Henningsen. 1,627,177; May 3.
- Scaffolding apparatus, Hog-. F. J. Smith. 1,646,984; Oct. 25.
- Scale. J. W. Bryce. 1,614,710; Jan. 18.
- Scale. J. W. Bryce. 1,628,110; May 10.
- Scale. H. M. Cameron. 1,648,009; Oct. 18.
- Scale. P. A. Engle. 1,641,070; Aug. 30.
- Scale. W. N. Gilbert. 1,650,204; Nov. 22.
- Scale. N. A. Hallwood. 1,622,106; Mar. 22.
- Scale. F. B. Hamblin. 1,636,908; July 26.
- Scale. F. B. Hamblin. 1,653,044; Dec. 20.
- Scale. S. L. Hanssen. 1,650,349; Nov. 22.
- Scale. J. Hopkinson. 1,626,828; May 3.
- Scale. L. Janichen. 1,628,781; May 17.
- Scale. E. Kennedy. 1,645,151; Oct. 18.
- Scale. G. W. Kepler. 1,640,836; Aug. 30.
- Scale. B. W. King. 1,617,851; Feb. 15.
- Scale. L. Linwood. 1,635,090; July 5.
- Scale. L. A. Osgood and E. E. Wolf. 1,614,681-2; Jan. 18.
- Scale. J. W. Rockefeller, Jr. 1,630,096; May 24.
- Scale. J. W. Rockefeller, Jr. 1,641,603; Sept. 6.
- Scale. M. H. Starr. Re16,840; Dec. 27.
- Scale. W. F. Stimpson. 1,624,995; Apr. 19.
- Scale. M. J. Weber. 1,628,205; May 10.
- Scale. G. R. Wood. 1,622,302; Mar. 29.
- Scale, Advertising. S. G. Crane. 1,640,112; Aug. 23.
- Scale air vent, Weighing. F. L. Hague. 1,647,351; Nov. 1.
- Scale, Automatic weighing. T. C. Jensen. 1,623,414; Apr. 5.
- Scale base. V. F. Slezak. 1,616,422; Feb. 1.
- Scale bases, Adjustable leveling foot for. C. H. Hartman. 1,647,992; Nov. 8.
- Scale, Beam. D. Siebenmann. 1,640,907; Aug. 30.
- Scale-beam mechanism. G. W. Britton. 1,620,474; May 24.
- Scale, Calculating. W. R. Mittendorf. 1,650,227; Nov. 22.
- Scale casing. R. Craig. 1,635,081; July 12.
- Scale casing. H. A. Hadley. Des. 73,146; Dec. 27.
- Scale casing. N. A. Hallwood. Des. 73,079-80; July 19.
- Scale casing. F. A. Schultz. Des. 72,999; June 28.
- Scale casing, Weighing. T. W. B. Watling. Des. 73,765-6; Nov. 1.
- Scale casing, Weighing. T. W. B. Watling. Des. 74,087; Dec. 13.
- Scale, Computing. H. O. Hem. 1,619,121; Mar. 1.
- Scale, Computing. W. R. Mittendorf. 1,650,224; Nov. 22.
- Scale, Computing. W. R. Mittendorf. 1,650,225-6; Nov. 22.
- Scale, Computing. W. R. Mittendorf. 1,650,228; Nov. 22.
- Scale, Computing. W. J. Rouleau. 1,623,134; Apr. 5.
- Scale, Counting. E. B. Locke. 1,625,126; Apr. 19.
- Scale for railway cars, Recording. S. D. Wright. 1,652,338; Dec. 13.
- Scale frame. A. J. and H. M. Jacobs. Des. 73,132; Dec. 13.
- Scale head. J. W. Rockefeller, Jr. Des. 73,237; Aug. 9.
- Scale in boilers, Purifying composition for counteracting the formation of. H. Lillejord. 1,628,163; May 10.
- Scale, Infant. M. J. Weber. 1,639,121; Aug. 16.
- Scale, Integrating. H. O. Hem. 1,619,123; Mar. 1.
- Scale, Mason's. R. W. Mellor. 1,653,016; Dec. 20.
- Scale, Measuring-instrument. C. O. Fairchild and F. E. Bash. 1,615,447; Jan. 25.
- Scale, Personal weighing. H. C. Schaper. 1,631,341; June 7.
- Scale, Piece, Weighing. G. Ohaus. 1,627,710; May 10.
- Scale, Platform. M. H. Hansen. 1,638,260; Aug. 9.
- Scale, Pocket postal. R. A. Schoof. 1,626,976; May 3.
- Scale, Portable. L. A. Osgood. 1,626,961; May 3.
- Scale, Postal. J. K. Richie. 1,622,924; Mar. 29.
- Scale, Recording. B. MacNutt. 1,629,221; May 17.
- Scale, Recording weighing. H. O. Hem. 1,640,073; Aug. 23.
- Scale, Scoop. E. R. Ball. 1,620,000; Mar. 8.
- Scale, Spring. J. W. Rockefeller, Jr. 1,636,708; July 26.
- Scale, Spring. T. H. Strachan. 1,650,913; Nov. 29.
- Scale, Vehicle load. G. W. Gartner. 1,640,930; Aug. 30.
- Scale, Weighing. A. A. Caille. 1,622,037; Mar. 29.
- Scale, Weighing. H. Cummer. 1,622,092; Mar. 22.
- Scale, Weighing. H. A. Essmann. 1,624,588; Apr. 12.
- Scale, Weighing. C. H. Hapgood. 1,635,996; July 19.
- Scale, Weighing. C. H. Hapgood. 1,640,073; Aug. 23.
- Scale, Weighing. H. O. Hem. 1,651,274; Nov. 29.
- Scale, Weighing. H. W. Hem. 1,622,113; Mar. 22.
- Scale, Weighing. J. Hopkinson. 1,645,326; Oct. 11.
- Scale, Weighing. J. Hopkinson. 1,645,328; Oct. 11.
- Scale, Weighing. C. O. Marshall. 1,622,041; Mar. 22.
- Scale, Weighing. L. A. Osgood. 1,620,125; Mar. 8.
- Scale, Weighing. L. A. Osgood and E. E. Wolf. 1,626,963; May 3.
- Scale, Weighing. O. C. Reeves. 1,639,811; Aug. 23.
- Scale, Weighing. O. C. Reeves. 1,647,307-8; Nov. 1.
- Scale, Weighing. E. G. Thomas. 1,619,165; Mar. 1.
- Scale, Weighing. L. C. Wetzel. 1,647,327; Nov. 1.
- Scale with improved hopper-supporting means, Far-dis-tant weighing. L. L. Foss. 1,617,245; Feb. 8.
- Scaler, Fish. J. J. Barry. 1,642,802; Sept. 20.
- Scaler, Fish. W. Reilly. 1,645,970; Oct. 15.
- Scales, Actuating mechanism for coin-counting ticket-printing weighing. V. F. Slezak. 1,644,752; Oct. 11.
- Scales, Eccentrically-adjustable cam for. L. S. Shively. 1,636,873; July 26.
- Scales, Indicator actuating and controlling device for. C. G. and H. L. Strubler. 1,639,257; July 19.
- Scales, Platform lever mechanism for. H. O. Hem. 1,627,702; May 10.
- Scales, Preventing sag and protecting bearings of plat-form weighing. M. H. Winslow. 1,639,829; Aug. 23.

- Scales, Printing attachment for. F. A. Hasse. 1,648,728; Nov. 8.
- Scales, Shipping attachment for weighing. T. H. Strachan. 1,623,137; Apr. 5.
- Scales, Thermostatic adjusting mechanism for. W. F. Stimpson and W. E. Finch. 1,647,378; Nov. 1.
- Scales, Weighing. M. J. Weber. 1,639,120; Aug. 16.
- Scales, Weight holder for. W. S. Smith. Des. 74,077; Dec. 13.
- Scales, Weight-registering gauge for weighing. M. Scherr. 1,640,520; Aug. 30.
- Seal, Zero adjusting device for. T. H. Strachan. 1,650,243; Nov. 22.
- Scaling and grading fish, Machine for. F. H. Davis and J. W. Kloehe. 1,620,953; Mar. 15.
- Scalp cleaning and vibrating machine, Vacuum. I. Clair. 1,651,585; Dec. 6.
- Scalp-patting device. T. F. Homan. 1,634,873; July 5.
- Scalp protector. J. A. McCord. 1,651,094; Nov. 29.
- Scalp-treatment device. W. Meyer. 1,613,045; Jan. 4.
- Scalp-treatment hot-water cap. R. Mauriel. 1,630,625; May 31.
- Scalpel. A. Maclure. 1,636,062; July 19.
- Scalpel. M. Schmidt. 1,647,546; Nov. 1.
- Scalpel. C. W. Carter. 1,620,439; Mar. 8.
- Scalpel, Vibrating. J. E. Taylor. 1,614,810; Jan. 18.
- Scarf. A. M. Grean. 1,652,982; Dec. 13.
- Scarf, Buffet. J. Schwab. Des. 72,333; Mar. 29.
- Scarf and vanity container, Combined animal. R. Eisenberg and H. A. Siefert. 1,647,514; Nov. 1.
- Scarf holder. W. P. Craddock. 1,645,128; Oct. 11.
- Scarf holder and former. G. Hollafolia. 1,641,851; Sept. 6.
- Scarf or the like, Lace. S. N. Mallouk. Des. 72,168; Mar. 8.
- Scarf or the like, Lace. S. N. Mallouk. Des. 72,224; Mar. 15.
- Scarf or the like, Lace. S. N. Mallouk. Des. 72,235; Mar. 15.
- Scarf or the like, Lace. S. N. Mallouk. Des. 72,269-72; Mar. 22.
- Scarf, Table. J. Derk. Des. 72,250; Mar. 22.
- Scarf, Table. J. Derk. Des. 72,549; May 3.
- Scarf, Table. J. Derk. Des. 72,993; July 5.
- Scarf, Table. J. Derk. Des. 73,778-80; Nov. 8.
- Scarf, Table. M. Savitzky. Des. 72,637; May 10.
- Scarifier. C. E. Gilbert. 1,629,784; May 24.
- Scarifier. O. J. Nitardy. 1,651,068; Nov. 29.
- Scarifier. R. G. Le Tourneau. 1,623,317; Apr. 5.
- Scarifier and cleaner, Combination. W. Youngman. 1,629,900; May 24.
- Scarifier and road planer. F. A. McDonna and R. E. Lloyd. 1,638,866; Aug. 16.
- Scarifier, Grass-seed. J. W. Stark. 1,651,300; Nov. 29.
- Scenery and other objects in stages or the like, Representing in optical way. M. Hasait. 1,649,689; Nov. 15.
- Scenery, Theatrical. H. Dryden. 1,612,858; Jan. 4.
- Scissors. C. F. Benedict. 1,645,981; Oct. 18.
- Scissors. W. F. Morgan. 1,648,498; Nov. 8.
- Scissors. M. Parker. 1,620,225-6; Mar. 8.
- Scissors. W. A. Zeldier. 1,645,035; Oct. 11.
- Scissors or shears with composite blades. I. Patrick. 1,627,197; May 3.
- Scissors sharpener. E. M. Long. 1,619,581; Mar. 1.
- Scissors, shears, etc., and cutters therefor, Composite blade for. I. Patrick. 1,628,556; May 17.
- Scissors, shears, etc., and cutter therefor, Composite blade for. I. Patrick. 1,634,508; July 5.
- Scoop. Cream. J. C. Ritter. 1,622,348; Mar. 29.
- Scoop, Hydraulic. S. W. Briggs. 1,622,085; Mar. 22.
- Scoop, Ice-cream. H. P. Gardner. 1,642,726; Sept. 20.
- Scoop, Ice-cream. G. T. Parr. 1,639,809; Aug. 23.
- Scoop, Sledged. R. T. Cummings. 1,618,578; Feb. 22.
- Scooter. R. B. Bukolt. 1,614,822; Jan. 18.
- Scooter. J. Lees. 1,617,337; Feb. 15.
- Scooter. F. A. Nauta. 1,638,871; Aug. 16.
- Scooter. H. H. Perry. Des. 72,913; June 21.
- Scooter, Child's. O. Wilson. 1,646,606; Oct. 25.
- Scooter, Pedal-propelled. T. A. Jackson. 1,644,836; Oct. 11.
- Scooter vehicle. L. E. Walter. 1,617,357; Feb. 15.
- Scoreboard, Moving-picture baseball. G. S. Coleman. 1,616,304; Feb. 1.
- Scoring cutter. C. S. Lenston. 1,646,918; Oct. 25.
- Scoring machine. J. F. Peters. 1,634,509; July 5.
- Scoring machine. M. E. Widell. 1,623,223; Apr. 5.
- Scoring machine, Multiple. N. E. Newman. 1,628,680; May 17.
- Scouring device. J. W. Gottschalk. 1,638,804; Aug. 9.
- Scouring device. N. I. Stark. 1,645,359; Oct. 11.
- Scouring implement. J. D'Albora. 1,638,800; Aug. 9.
- Scouring wheel, Heel-breast. E. Ashton. 1,647,260; Nov. 1.
- Sealing, Portable. C. E. Fuller. Re. 16,634; May 24.
- Seaw. J. R. Wilson. 1,614,859; Jan. 18.
- Scraper. F. Beckord. 1,641,522; Sept. 6.
- Scraper. C. E. Davis. 1,614,351; Jan. 11.
- Scraper. A. B. Esseltine. 1,637,073; July 26.
- Scraper. S. P. Frost. 1,643,336; Sept. 27.
- Scraper. J. S. Housman. 1,644,252; Oct. 4.
- Scraper. I. Niemi. 1,641,007; Aug. 30.
- Scraper. G. W. Packer. 1,644,269; Oct. 4.
- Scraper. C. A. Schacht. 1,647,751; Nov. 1.
- Scraper. W. W. Welch. 1,625,382; Apr. 19.
- Scraper, Draft-operated. A. B. Esseltine. 1,644,243; Oct. 4.
- Scraper, Draft-operated. C. F. Poole. 1,644,273-4; Oct. 4.
- Scraper-edge turner. J. R. Horta. 1,633,329; June 21.
- Scraper for golf greens. J. S. Cant. 1,652,852; Dec. 18.
- Scraper, Four-wheeled. A. R. Van Alstine. 1,629,242; May 17.
- Scraper loading apparatus. E. J. Doberstein. 1,622,823; Mar. 29.
- Scraper loading apparatus. R. J. Wood. 1,622,819; Mar. 29.
- Scraper-loader apparatus. J. S. Housman. 1,646,536; Oct. 25.
- Scraper mold. L. J. Whitman. 1,639,122; Aug. 16.
- Scraper, Oil-well-tube. J. S. Spencer. 1,653,883; Dec. 27.
- Scraper, Pan. E. W. McLain. 1,646,303; Oct. 18.
- Scraper, Revolving. D. R. Throop. 1,621,646; Mar. 22.
- Scraper shoe. C. B. Gilbert. 1,629,785; May 24.
- Scraper with automatic elevating control, Rotary. J. S. Reynolds. 1,642,826; Sept. 20.
- Scrapers, Hitch for earth. L. O. Bird. 1,616,212; Feb. 1.
- Scraping machine. W. F. Evans. 1,652,820; Dec. 13.
- Scraping chair. W. E. Whit. 1,629,753; May 24.
- Scrap support. G. F. Pawling. 1,631,502; June 7.
- Screen: See—
- Color screen.
 - Deck screen.
 - Door or window screen.
 - Fireplace screen.
 - Fly screen.
 - Folding screen.
 - Funnel screen.
 - Guarded-opening screen.
 - Light-ray-filtering screen.
 - Metal screen.
 - Picture screen.
 - Projecting screen.
 - Projection screen.
 - Propelling screen.
 - Pulp screen.
 - Roller screen.
 - Rotary screen.
 - Shaking screen.
 - Ventilating screen.
 - Vibrating screen.
 - Vibratory screen.
 - Wall screen.
 - Well screen.
 - Window and wind screen.
 - Window screen.
 - Windshield screen.
 - Wire screen.
 - X-ray screen.
- Screen. J. Bland. 1,622,305; Mar. 29.
- Screen. E. E. Deister. 1,628,455; May 10.
- Screen. A. E. Greene. 1,644,121; Oct. 4.
- Screen. P. L. Jahr. 1,631,822; June 7.
- Screen. H. J. Reed and C. L. Spafford. 1,639,273; Aug. 16.
- Screen. A. H. Stebbins. 1,616,472-3; Feb. 8.
- Screen adjuster. J. L. Carrigan. 1,646,390; Oct. 25.
- Screen and cleaning device therefor, Gravel. C. Sandberg. 1,651,555; Dec. 6.
- Screen and deflector, Combination hot-air. F. A. Walloch. 1,640,630; Aug. 30.
- Screen and the like, Port-light. T. M. Crowell. 1,648,445; Nov. 8.
- Screen and washer, Coal. W. F. Martin. 1,632,739; Nov. 1.
- Screen attachment. J. T. Huntington. 1,647,179; June 11.
- Screen belt for the mechanical purification of water, Rotating endless. E. Geiger. 1,640,653; Aug. 30.
- Screen cleaner. L. O. Corkran. 1,639,590; Aug. 16.
- Screen-cleaning apparatus. W. L. D'Olier. 1,624,221; Apr. 12.
- Screen conveyor. W. M. Schwartz. 1,634,963; July 5.
- Screen coupling. E. B. Johnson. 1,623,055; Apr. 5.
- Screen fastener. I. W. Wolf. 1,636,728; July 26.
- Screen for conveyors. A. L. Shaw. 1,645,405; Oct. 11.
- Screen for projected pictures, Translucent. O. Dale. 1,633,315; June 21.
- Screenhanger. W. F. Rapp. 1,624,181; Apr. 12.
- Screen, hinge, and shutter, Combined. J. C. Poetz. 1,652,684; Dec. 13.
- Screen-holding clip, Projection-. C. F. Spidel. 1,616,928; Feb. 8.
- Screen inclosure. W. G. Chryst. 1,637,335; Aug. 2.
- Screen or sieve for drying purposes. A. Gobiet. 1,642,652; Sept. 13.
- Screen pipe, Forming slotted. J. H. McEvoy, jr. 1,652,208; Dec. 13.
- Screen pipe, Producing. C. J. Coberly. 1,654,160; Dec. 27.
- Screen plate. W. L. D'Olier and T. Toblin. 1,631,585; June 7.
- Screen strip, Ventilating. J. C. Scheppers. 1,651,071; Nov. 29.
- Screen support, Metal-fenestra. E. W. Pendery. 1,645,448; Oct. 11.
- Screen-vibrating mechanism. E. H. Shackelford, jr. 1,632,927; June 21.
- Screen wall for centrifugal baskets. E. N. Stone. 1,644,287-8; Apr. 12.
- Screening apparatus. R. A. Leahy. 1,650,896; Nov. 29.
- Screening apparatus. M. B. Tark. 1,615,559; Jan. 25.
- Screening pulp and paper stock, Rotary screen for. E. W. Lindquist. 1,627,655; May 10.
- Screens, Supporting vibrating. A. J. Sayers. 1,651,934; Dec. 6.
- Screens, Vibration mechanism for. E. T. Keenan. 1,626,213; Mar. 8.
- Screw and gear making apparatus. H. J. Schmick. 1,629,123; May 17.
- Screw and nut actuating mechanism. C. E. Iltrst. 1,627,331; May 3.

- Screw blanks, rivets, and similar headed articles, Making cold. J. Kuhne, 1,618,446; Feb. 22.
- Screw clamp. G. Roberts and M. Dysthe, 1,616,232; Feb. 1.
- Screw cutter. E. Wille, 1,633,913; June 28.
- Screw device. E. W. Richards and E. J. Janso, 1,618,677; Feb. 22.
- Screw device, Stop-. F. G. Williamson, 1,650,313; Nov. 22.
- Screw, Double-threaded. J. A. Arenz, 1,651,796; Dec. 6.
- Screw driver. F. Bido, 1,616,300; Feb. 1.
- Screw driver. E. O. Caruso, 1,624,530; Apr. 12.
- Screw driver. W. Herrmann, 1,628,144; May 10.
- Screw driver. R. J. Velecep, 1,641,307; Sept. 6.
- Screw driver. C. F. Wahl, 1,616,070; Feb. 1.
- Screw driver. G. Wood, 1,627,301; May 3.
- Screw driver and attachment, Angle. D. P. Owens, 1,628,553; May 10.
- Screw driver and starter, Combination. E. Walker, 1,643,433; Sept. 27.
- Screw driver and wrench-clutch cup, Portable power-driven. A. G. Decker, 1,642,490; Sept. 13.
- Screw-driver attachment. A. W. Staupé, 1,625,227; Apr. 19.
- Screw driver, Illuminated. V. Genoves, 1,635,933; July 12.
- Screw-driving guide, Electric. E. G. Morgan, 1,644,074; Oct. 4.
- Screw-driving machine. J. C. Steen, 1,642,189; Apr. 12.
- Screw, Gill, W. Holdsworth, 1,635,181; July 12.
- Screw heads and the like, Crown for. J. Berge, 1,613,921; Jan. 11.
- Screw locking and unlocking device. J. B. Hood, 1,641,439; Sept. 6.
- Screw making and turning lathes, Lubrication for. L. K. Braren, 1,629,451; May 17.
- Screw making and turning machine. L. K. Braren, 1,643,635; Sept. 27.
- Screw presses, Sieve plate for. K. Holter and O. Qviller, 1,650,430; Mar. 31.
- Screw propellers, Manufacture of. H. Leitner, 1,647,920; Nov. 1.
- Screw retainer. C. W. Rohour, 1,613,906; Jan. 11.
- Screw, Temper. G. A. Montgomery, 1,641,189; Sept. 6.
- Screw, Temper. F. A. Turner, 1,614,813; Jan. 18.
- Screw threads in channelled material, Cutting. T. L. E. Haug, 1,635,621; July 12.
- Screw threads, Measuring tool for. O. Peglow, 1,640,215; Aug. 23.
- Screw, Wood. F. H. Williams, 1,649,049; Nov. 15.
- Screws and bolts, Making. C. Kaufman, 1,617,122; Feb. 1.
- Screws, Apparatus for and method of truing abrasive. B. M. W. Hanson, 1,623,113; Apr. 5.
- Screws, Forming set. C. E. Lyman, 1,642,736; Sept. 30.
- Screws, Lock washer for cap. R. T. Hosking, 1,645,859; Oct. 18.
- Screws, Screw-driver mechanism for insulator. A. T. Scheiwer, 1,619,043; Mar. 1.
- Scriber, Electrically-controlled reproducing. E. Bueno, 1,622,366; Mar. 29.
- Scroll-displaying device. D. Hill, 1,621,407; Mar. 15.
- Scraper. N. B. Bragg, 1,620,591; Mar. 8.
- Scrubbing device and material therefor. C. Field, 1,646,396; Oct. 25.
- Scrubbing machine. M. B. Bally, 1,627,263; May 3.
- Scrubbing machine. A. I. Riedel, 1,636,437; July 19.
- Scrubbing machine. S. Strader, 1,644,859; Oct. 11.
- Scrubbing machine, Electric. R. E. Hendricks, 1,644,189; Oct. 4.
- Scrubbing machines, Soap supply for. W. W. McFall, 1,648,857; Nov. 8.
- Sculling hook. P. D. Wright, 1,636,654; July 19.
- Scultures, Method of and apparatus for making. M. Schieslar, 1,636,149; July 19.
- Sculpturing process. A. Bontempi, 1,618,804; Feb. 22.
- Scuttle ladder. M. B. Hemingway, 1,621,539; Mar. 22.
- Scythe. I. Gonyk, 1,628,589; May 10.
- Seal. H. V. Atwell, 1,626,445; Apr. 26.
- Seal. H. V. Atwell, 1,628,348; May 10.
- Seal. S. A. Meier, 1,647,241; Nov. 1.
- Seal and making same, Hermetic. M. Jaeger, 1,640,940; Aug. 30.
- Seal and making the same. S. A. Hamnett, 1,625,466; Apr. 19.
- Seal Container. A. P. Poupart, 1,635,955; July 12.
- Seal fastening. W. Gulard, 1,618,282; Feb. 22.
- Seal for galvanic cells. A. J. Briggs, 1,650,319; Nov. 22.
- Seal for vessels and the like. H. J. Bragdon, 1,635,529; July 12.
- Seal, Gas. F. H. Crookard, 1,615,933; Feb. 1.
- Seal, Liquid and mechanical. E. E. Bartels, 1,632,213; June 14.
- Seal press. D. C. Sassemann, 1,619,959; Mar. 8.
- Seal, Self-locking. E. Dietze, 1,626,273; Apr. 26.
- Sealed container. C. J. Aulbach, 1,614,589; Jan. 18.
- Sealer, Envelope. D. C. Davis, 1,633,698; June 28.
- Sealing bottles, etc., Machine for. J. Talansier, 1,649,141; Nov. 15.
- Sealing cap and package. G. Ramsey, 1,634,724; July 5.
- Sealing coupling, Quickly-detachable. M. B. Brewster, 1,641,528; Sept. 6.
- Sealing device. C. H. Howard, 1,652,861; Dec. 13.
- Sealing device. V. F. Slezak, 1,616,423; Feb. 1.
- Sealing device, Dispensing container. C. D. Henriques, 1,635,122; July 5.
- Sealing gland. A. E. L. Scanes and T. Brighthouse, 1,617,500; Feb. 15.
- Sealing in machine. J. J. Higgins, 1,645,991; Oct. 18.
- Sealing jar. S. F. Ralston, 1,615,519; Jan. 25.
- Sealing machine. G. K. Henderson, 1,641,970; Sept. 13.
- Sealing machine. J. D. Smith and C. R. Phillips, 1,616,671; Feb. 8.
- Sealing machine. H. E. Townsend, 1,635,237; July 12.
- Sealing machine, Envelope. J. W. Eskholme, 1,633,244; June 21.
- Sealing machine for containers or the like. C. E. Martin, 1,631,748; June 7.
- Sealing machine, Wire-strap-. W. N. Lurcott, 1,616,911; Feb. 8.
- Sealing means. W. M. Brooks, 1,631,464; June 7.
- Sealing means. A. Schuh, 1,621,907; Mar. 22.
- Sealing means, Paper-bag-. C. Sapp, 1,619,887; Mar. 8.
- Sealing-off device. Winfried W. Loebe and M. Grossmann, 1,631,377; June 7.
- Sealing-off device. C. Martin, 1,631,378; June 7.
- Sealing-off torch. L. A. Maurer, 1,631,379; June 7.
- Sealing ring. J. G. Dorward, 1,618,412; Feb. 22.
- Sealing ring. W. A. MacKenzie, 1,642,550; Sept. 13.
- Seam. C. C. Blake, 1,619,497; Mar. 1.
- Seam for sewed articles. C. F. Rubel and F. Kucera, 1,619,437; Mar. 1.
- Seam for sewing together and covering for knitted and woven fabrics. G. Huber, 1,612,819; Jan. 4.
- Seam opener. H. E. Page, 1,634,206; June 28.
- Seams, Forming outside double picks on round. A. Guenthart, 1,641,809; Sept. 6.
- Seaming machine. J. Brenzinger, 1,639,552; Aug. 18.
- Seaming machine, Double. W. Cameron, 1,621,580; Mar. 22.
- Seaming mechanism. P. H. Lange, 1,639,515; Aug. 16.
- Searchlight. C. E. Fraser, 1,642,436; Sept. 13.
- Searchlight. T. Hall, 1,632,131; June 14.
- Searchlight. T. Hall, 1,634,663; July 5.
- Searchlight. E. J. Murphy and L. P. Hutt, 1,618,103; Feb. 15.
- Searchlight cooling and ventilating means. E. A. Sperry, 1,641,301; Sept. 6.
- Searchlight range finder. R. Kauch, 1,627,097; May 3.
- Seat. Adjustable seat. Flush-tank ball seat.
- Automobile seat. Movable seat.
- Baby seat. Reel seat.
- Bathub seat. Saddle seat.
- Boat seat. Spring seat.
- Box seat. Suspension seat.
- Car seat. Toilet seat.
- Chair seat. Vehicle seat.
- Changeable seat. Wall seat.
- Demountable seat. Water-closet seat.
- Disappearing seat. Window seat.
- Folding seat.
- Seat. M. Antrobus, Des. 72,126; Mar. 8.
- Seat. A. H. Leipert, 1,644,683; Oct. 11.
- Seat. A. F. Masury, 1,637,780; Aug. 2.
- Seat. H. W. Snyder, 1,621,520; Mar. 22.
- Seat adjuster. F. Monon, 1,640,812; Aug. 30.
- Seat and cover, Toilet. G. W. Fischer, 1,652,304; Dec. 13.
- Seat and desk, Combined. S. W. Conwell, 1,654,455; Dec. 27.
- Seat construction. L. C. Freeman, 1,639,371; Aug. 16.
- Seat construction. J. G. Hoffer, P. W. Sullivan, and J. H. Bourgon, 1,647,522; Nov. 1.
- Seat covering. H. J. Joachim, 1,650,130; Nov. 22.
- Seat cushions, Frame for. V. Willoughby, 1,649,431; Nov. 15.
- Seat for metallic containers, Closure. L. B. Wackman, 1,617,302; Feb. 8.
- Seat for window cleaning, Folding. B. W. Dreyer, 1,623,962; Apr. 12.
- Seat mount, Resilient. C. Pallenberg, 1,647,247; Nov. 1.
- Seat pad. E. P. Elzey, 1,650,335; Nov. 22.
- Seat pad for sportsmen's coats. W. D. Stair, 1,626,166; Apr. 26.
- Seat support, Front-. L. A. McDowell, 1,623,800; Apr. 5.
- Seat support, table, and luggage carrier for automobiles, Combined. D. C. Slater, 1,625,918; Apr. 26.
- Seat with folding back. J. A. Halais, 1,640,273; Aug. 23.
- Seats and the like, Support for. V. Collier, 1,633,476; June 21.
- Secondary battery. T. S. Cole, 1,622,767; Mar. 29.
- Secrecy system. L. Espenschied, 1,633,625; June 28.
- Secret communication. J. W. Horton, 1,624,601; Apr. 12.
- Sectional bin. G. Fritz, 1,627,084; May 3.
- Sectional bin. W. Korb, 1,648,277; Nov. 8.
- Sectional heating boiler. J. B. Bernhard, 1,619,235; Mar. 1.
- Securities, Protecting financial. C. B. Brewer, 1,615,566; Jan. 25.
- Sediment collector. W. B. Pohle, 1,623,437; Apr. 5.
- Sediment tester. E. A. and J. R. Shikles, 1,649,198; Nov. 15.
- Seed and fertilizer distributor. W. S. Austin, 1,651,312; Nov. 29.

- Seed-cell-removing apparatus. B. C. Coons. 1,650,694; May 29.
- Seed-cleaning machine. A. Bleam. 1,624,034; Apr. 12.
- Seed-cleaning machine. M. L. Kollman and E. L. Klappal. 1,625,858; Apr. 26.
- Seed-corn drying rack. B. L. Bain. 1,638,651; Aug. 9.
- Seed-corn hanger. C. N. Hill. 1,639,729; Aug. 23.
- Seed-corn nubber. L. Schmidt. 1,644,971; Jan. 18.
- Seed-corn sheller. H. E. Ebmeier. 1,633,365; June 21.
- Seed-corn tester. T. M. Roberts. 1,644,895; Oct. 11.
- Seed-discharging mechanism. H. H. Huntington and E. E. Towle. 1,613,831; Jan. 11.
- Seed disinfectant, Nonhygroscopic. M. Englemann and A. R. Albright. 1,613,370; Feb. 22.
- Seed dropper, Sugar-bect. A. A. Matheson. 1,638,048; Aug. 9.
- Seed germinator. M. Isaacs. 1,648,309; Nov. 8.
- Seed grain, Machine for treating. C. C. Calkins. 1,648,598; Nov. 8.
- Seed grain, Method and apparatus for treating. S. J. Williams. 1,633,301; June 21.
- Seed huller. W. B. Spurr. 1,651,641; Dec. 6.
- Seed-treatment machine, Dust-. F. C. Hersman. 1,651,390; Dec. 6.
- Seed dispenser. O. Wodke. 1,619,687; Mar. 1.
- Seed drill. S. H. Yancey. 1,625,345; Apr. 19.
- Seed drill, Double-row ginseng. J. C. and J. B. Peters. 1,620,293; Mar. 8.
- Seed-gathering device. S. L. Mosher. 1,626,207; Apr. 26.
- Seed or fertilizer distributing machine. J. G. Bailey. 1,629,247; May 17.
- Seed planters, Attachment for. F. Thletten. 1,632,861; June 21.
- Seed, Process and apparatus for germinating. E. J. Stoddard. 1,621,440; Mar. 15.
- Seed rack. E. A. Luther. 1,630,347; May 31.
- Seed separator. W. U. Arthur. 1,613,553; Jan. 4.
- Seeder. J. W. Rookwood. 1,634,213; June 28.
- Seeders and the like, Adjustable safety device for. H. Gosse, sr. 1,613,272; Jan. 4.
- Seeders, Tractor-machine hitch for. J. Mader. 1,633,821; June 28.
- Seeds and plants, Process and apparatus for inducing germination and growth of. J. Zellweger. 1,625,181; Apr. 19.
- Seeds or oleaginous vegetable substances for the purpose of extracting the oil contained therein, Treatment of oleaginous G. Kammermann. 1,616,319; Feb. 1.
- Segment fastener. W. Garrett and G. Gaylets. 1,618,422; Feb. 22.
- Seine landing. O. H. Belknap. 1,648,671; Nov. 8.
- Seismograph. N. H. Ricker. 1,625,925; Apr. 19.
- Selecting apparatus. L. A. Watters and S. F. Lloyd. 1,641,713; Sept. 6.
- Selecting device. L. L. Ladd. 1,649,168; Nov. 15.
- Selector switch. G. Deakin. 1,612,966; Jan. 4.
- Selector switch. E. O. Walker. 1,640,385; Aug. 30.
- Self-cleaning mixer, Continuous. C. Payne. 1,628,632; May 10.
- Self-igniting burner. J. J. McCoy. 1,641,545; Sept. 6.
- Self-induction producer. M. Mallory. 1,621,552; Mar. 22.
- Self-locking device. H. Vissering. 1,638,788; Aug. 9.
- Self-locking switch. G. H. Whittingham. 1,624,882; Apr. 12.
- Self-sealing trap. S. Ondyke. 1,630,861; May 31.
- Self-service machine. J. Riikonen. 1,629,536; May 24.
- Self-threading winding means. A. Stuber. 1,645,882; Oct. 18.
- Semaphore signals, Snubbing circuits for. J. E. Stephenson. 1,630,981; May 31.
- Semifluid dispensing device. W. H. G. Geake. 1,641,671; Sept. 6.
- Semitrailer. R. B. Jones. 1,617,714; Feb. 15.
- Semitrailer. R. B. Jones. 1,654,503; Dec. 27.
- Semitrailer, Dumping mechanism for. M. Walter. 1,652,262; Dec. 13.
- Semitrailer, Landing and raising gear for. I. H. Judd. 1,631,135; June 7.
- Servative levator, suitable base and making same. M. P. Schmidt and W. Krieger. 1,628,279; May 10.
- Separable coupling. A. E. Weingartner. 1,650,557; Nov. 22.
- Separable ring. W. C. Niebuhr. 1,638,209; Aug. 9.
- Separating and grading machine. F. A. Rappleye. 1,645,402; Oct. 11.
- Separating apparatus, Centrifugal. H. J. Holford. 1,616,575; Feb. 8.
- Separating apparatus, Centrifugal. F. Grimbale. M. N. Caird, and E. Coombs. 1,649,346; Nov. 15.
- Separating apparatus, Centrifugal. R. A. Sturgeon. 1,648,790; Nov. 8.
- Separating apparatus, Dry. R. W. Arms. 1,641,407; Sept. 6.
- Separating articles, Machine for. E. D. Anderson and C. Beckmann. 1,614,586; Jan. 18.
- Separating materials of different specific gravities, Method and apparatus for. T. M. Chance. Re16,674; July 12.
- Separating or classifying machine. W. A. Riddell. 1,647,815-6; Nov. 1.
- Separating potatoes from floatable foreign matter, Device for. R. C. Zuckerman. 1,643,596; Sept. 27.
- Separating purposes, Centrifugal apparatus for. F. A. Quiroz. 1,631,383; June 7.
- Separating substances, Method and mechanism for centrifugally. L. D. Jones. 1,649,117; Nov. 15.
- Separating substances, Method and apparatus for centrifugally. L. D. Jones. 1,649,118; Nov. 15.
- Separating the whites from the yolks of eggs, Machine for. W. Conner. 1,622,181; Mar. 22.
- Separating two or more substances from a solution. I. Isaachsen. 1,646,454; Oct. 25.
- Separator. See—
- Air separator. Grain separator.
 - Ash separator. Leaf separator.
 - Battery separator. Magnetic separator.
 - Benzine and oil separator. Milk separator.
 - Bolt separator. Mineral separator.
 - Carbon-blank separator. Oil and gas separator.
 - Centrifugal fan separator. Oil and water separator.
 - Centrifugal separator. Oil-diluent separator.
 - Cream separator. Oil separator.
 - Diluent separator. Ore separator.
 - Dust separator. Pine-seed separator.
 - Egg separator. Rice separator.
 - Fan separator. Sand separator.
 - Fluid separator. Seed separator.
 - Gas and oil separator. Spiral separator.
 - Gas, oil, and sand separator. Steam separator.
 - Gold separator. Storage-battery separator.
- Separator. F. Balletto. 1,650,480; Nov. 22.
- Separator. A. A. Bennett and E. H. McWhorter. 1,650,484; Nov. 22.
- Separator. L. E. Brown. 1,648,607; Nov. 8.
- Separator. C. G. Hawley. 1,612,814; Jan. 4.
- Separator. B. T. Jones. 1,622,872; Mar. 29.
- Separator. M. H. Kotzebue. 1,637,947; Aug. 2.
- Separator. C. S. Leuz and G. E. Jupp. 1,614,074; Jan. 11.
- Separator. W. M. Little and J. L. Sherman. 1,626,245; Apr. 26.
- Separator. O. H. and E. H. Ludeman. 1,613,233; Jan. 4.
- Separator. D. T. Sharples. 1,644,615; Oct. 4.
- Separator. T. J. Sturtevant. 1,621,564; Mar. 22.
- Separator and amalgamator, Centrifugal. W. C. Coleman. 1,632,950; June 21.
- Separators, Apparatus for cleaning the bowls of centrifugal. H. O. Lindgren. 1,644,388; Oct. 4.
- Separator, basket, Centrifugal. W. J. Blanchard. 1,644,441; Sept. 27.
- Separator-bowl washer, Cream-. A. F. Schwanke. 1,623,363; Apr. 5.
- Separator joints, Apparatus for installing pavement. W. F. Shaw. 1,629,544; May 24.
- Separators, Aerator and cooler for cream. I. S. Anderson. 1,635,877; July 12.
- Separators and separator stock, Making. R. C. Benner. 1,628,104; May 10.
- Separators, Brake for cream. J. Martin. 1,642,997; Sept. 20.
- Septic tank. O. M. C. Baker. 1,641,469; Sept. 6.
- Septic tank. E. E. Brown and M. C. Dixon. 1,641,800; Sept. 6.
- Septic tank. I. Gutman. 1,649,028; Nov. 15.
- Septic tank. A. H. Hepler. 1,634,871; July 5.
- Septic tank. H. A. Ledyard and J. J. Jelley. 1,644,532; Oct. 4.
- Septic tank. F. J. Moss. 1,638,869; Aug. 16.
- Septic tank. W. Rose. 1,644,116; Oct. 11.
- Septic tank. G. L. Schiding. 1,616,394; Feb. 1.
- Septic tank. F. E. Wilson. 1,616,837; Feb. 8.
- Serrated steel structural units, Joining. F. H. Moyer. 1,644,940; Oct. 11.
- Serum and producing same, Modified pneumococci antigen, antipneumococci. W. P. Larson. 1,621,117; Mar. 15.
- Serums and producing them, Modified bacteria and toxins, immunizing. W. P. Larson. 1,621,118; Mar. 15.
- Service bin. H. Muenzenmayer. 1,641,775; Sept. 6.
- Service indicator, Automobile. C. R. McClellan and O. L. Shepard. 1,651,035; Nov. 29.
- Service-recording device, Motorist's. T. P. Hagerman. 1,644,471; Oct. 4.
- Service stand, Combination. L. Aunes. 1,630,035; July 19.
- Serving a material. G. A. Bouvier. 1,614,590; Jan. 18.
- Serving implement. S. W. James. 1,643,456; Sept. 27.
- Serving machine. H. F. Carter. 1,632,884; June 21.
- Serving material to a core, Method and apparatus for. H. R. Massingham. 1,629,169; May 17.
- Serving material upon a core, Method and apparatus for. H. R. Massingham. 1,629,168; May 17.
- Servicing mechanism. E. J. Bos. 1,614,594; Jan. 18.
- Serving rack, Refreshment. C. N. Smyser. 1,611,358; Sept. 6.
- Serving tray or similar article. S. W. Farber. Des. 72,702; May 24.
- Servo-expanded brake. E. P. Ronaux. 1,629,532; May 24.
- Setting clamp, Ashlar-. D. N. Angel. 1,621,650; Mar. 22.
- Setting machine, Centrifugal. F. C. Rawolle. 1,644,492; Oct. 4.
- Setting tank. W. C. McKeason. 1,652,036; Dec. 6.
- Setting tank, White-water self-cleaning. J. P. Hass. 1,629,701; May 24.
- Networks, Fractional. C. H. Turner. 1,649,758; Nov. 15.
- Sewage, Disposal of. C. P. Derleth. 1,617,014; Feb. 8.

- Sewage-purifying device. H. E. Elrod. 1,646,478; Oct. 25.
- Sewage tank, Bacterial. L. S. R. Hopkins and H. L. Cortbell. 1,622,646; Mar. 29.
- Sewage treatment by activated sludge in combination with sludge digestion, Apparatus for. K. Imhoff. 1,642,206; Sept. 13.
- Sewer cleaner, Rotary. T. Peltola. 1,637,914; Aug. 2.
- Sewer construction. V. H. Cochran. 1,638,473; Aug. 9.
- Sewer construction. G. F. Egan. 1,654,246-7; Dec. 27.
- Sewer outlet, Safety. F. Schneider. 1,651,473; Dec. 6.
- Sewer pipe. O. B. Humphreys. 1,639,989; Aug. 23.
- Sewers and the like, Lining block for. L. P. Kovanda and J. H. Hubbell. 1,642,417; Sept. 13.
- Sewing apparatus, Buttonhole. F. Fröhlich. 1,639,405; Aug. 16.
- Sewing leather bags or similar articles, Machine for. E. G. Reid, A. Bates, and F. Hicks. 1,614,444; Jan. 11.
- Sewing machine. E. B. Allen. 1,629,139; May 17.
- Sewing machine. J. J. Donovan. 1,618,410; Feb. 22.
- Sewing machine. L. F. Fales. 1,622,774; Mar. 29.
- Sewing machine. G. Huber. 1,612,821; Jan. 4.
- Sewing machine. E. T. Leveque. 1,617,353; Feb. 15.
- Sewing machine. A. A. Merritt. 1,628,173; May 10.
- Sewing machine. D. W. Morley. 1,614,012; Jan. 11.
- Sewing machine. F. Ricks and E. G. E. Burgoyne. 1,631,385; June 7.
- Sewing machine. G. R. Robinson. 1,613,130; Jan. 4.
- Sewing machine. L. J. Rosman. 1,647,148; Nov. 1.
- Sewing machine. J. Schreiber. 1,613,773; Jan. 11.
- Sewing machine. L. E. Topham. 1,625,231; Apr. 19.
- Sewing machine. O. P. Watson. 1,644,700; Oct. 11.
- Sewing machine. F. Zaleski. 1,631,179; June 7.
- Sewing machine and method of securing material to a carrier wire therefor, Traveling. F. E. and G. E. Wiggins. 1,616,158; Feb. 1.
- Sewing-machine attachment. H. Corral and J. Heggie. 1,620,249; Mar. 8.
- Sewing-machine attachment. M. Moran. 1,653,115; Dec. 20.
- Sewing machine, Bag-. A. M. Bates and J. E. Dancker. 1,625,782; Apr. 26.
- Sewing-machine batteries, Driving mechanism for. J. R. Hanson. 1,636,995; July 26.
- Sewing machine, Blindstitch. W. Arbetter. 1,615,782; Jan. 25.
- Sewing machine, Button-. C. T. A. Sibbald and J. B. Ransom. 1,633,613; June 28.
- Sewing machine, Buttonhole-. E. J. Ray. 1,617,477; Feb. 15.
- Sewing machine, Buttonhole-. E. J. Ray. 1,638,785; Aug. 9.
- Sewing machine, Filled-bag-. R. M. Seper. 1,613,140; Jan. 4.
- Sewing machine for cording. C. F. Rubel and F. Kucera. 1,619,486; Mar. 1.
- Sewing machine for darning. E. Wieland. 1,642,283; Sept. 13.
- Sewing-machine guide. J. M. Merrow. 1,649,360; Nov. 15.
- Sewing machine, Lock-stitch-. N. F. Hopkins. 1,616,049; Feb. 1.
- Sewing-machine motor. F. F. Hillix. 1,646,962; Oct. 25.
- Sewing-machine motor. A. F. Welch. 1,643,191; Sept. 24.
- Sewing-machine motors, Mounting for. W. Baugser. 1,632,781; June 21.
- Sewing-machine motors, Mounting for. H. Maimin. 1,632,795; June 21.
- Sewing machine, Overedge-. H. Corral and J. Heggie. 1,647,394; Nov. 1.
- Sewing machine, Portable. D. Beswick. 1,622,901; Mar. 29.
- Sewing machine, Reversible-feed chain-stitch-. J. R. Moffatt. 1,618,213; Feb. 22.
- Sewing machine, Shoe-. L. E. Topham. 1,616,711; Feb. 8.
- Sewing machine, Shoe-sole-. G. C. Roger. 1,645,872; Oct. 18.
- Sewing machines. A. R. Morrill. 1,635,856; July 12.
- Sewing machines and the like, Driving and supporting means for. A. B. Spencer and F. E. Walker. 1,644,651; Oct. 18.
- Sewing machines, Attachment for. G. Boulton. 1,627,228; May 3.
- Sewing machines, Attachment for. S. Wechsler. 1,613,860; Jan. 11.
- Sewing machines, Automatic stop mechanism for. J. Boston. 1,629,090; May 17.
- Sewing machines, Braider attachment for. D. L. Anthony. 1,622,171; Mar. 22.
- Sewing machines, Cord-holding mechanism for buttonhole-. E. B. Allen. 1,646,946; Oct. 25.
- Sewing machines, Cording attachment for. D. D. Parks. 1,616,278; Feb. 1.
- Sewing machines, Fan attachment for. S. and L. Renna. 1,636,758; July 26.
- Sewing machines, Feed mechanism for. F. A. Larson. 1,615,546; Jan. 25.
- Sewing machines, Feeding mechanism for. J. C. Ringe. 1,644,544; Oct. 4.
- Sewing machines, Hemmer for. F. Thomas. 1,625,753; Apr. 19.
- Sewing machines, Looper-actuating mechanisms for. E. B. Clayton. 1,641,135; Aug. 30.
- Sewing machines, Looper mechanism for. H. Corral and J. Heggie. 1,613,605; Jan. 11.
- Sewing machines, Looper-thread-controlling mechanism for. J. R. Moffatt. 1,635,493; July 12.
- Sewing machines, Motor attachment for. B. Grossbard. 1,638,256; Aug. 9.
- Sewing machines, Motor attachment for. B. Grossbard. 1,638,257; Nov. 8.
- Sewing machines, Oil pan for. I. Feldman. 1,622,258; Mar. 22.
- Sewing machines, Overedge looper mechanism for. S. G. Tate. 1,650,306; Nov. 22.
- Sewing machines, Presser foot for. G. S. Gatchell. 1,646,961; Oct. 25.
- Sewing machines, Presser foot for. W. B. Long. 1,625,616; Apr. 19.
- Sewing machines, Spool for. F. F. Barth. 1,624,884; Apr. 12.
- Sewing machines, Spreader mechanism for. R. Becker. 1,622,277; Mar. 29.
- Sewing machines, Stitch-forming mechanism for. K. Maier. 1,640,201; Aug. 23.
- Sewing machines, Tape reversing and feeding attachment for. G. Bogdonoff. 1,638,823; Aug. 16.
- Sewing machines, Thread cutter for. S. Cortese. 1,626,329; Apr. 26.
- Sewing machines, Thread-cutting mechanism for. A. R. Wood. 1,613,634; Jan. 11.
- Sewing machines, Trimming mechanism for. J. R. Moffatt. 1,643,820; Sept. 27.
- Sewing machines, Trimming mechanism for. J. C. Ringe. 1,652,413; Dec. 13.
- Sewing machines, Trimmings conveyer. J. H. Vaughn. 1,613,419; Jan. 4.
- Sewing machines, Work-clamping mechanism for. E. B. Allen. 1,650,588; Nov. 29.
- Sewing machines, Work feed for. W. H. Fisher. 1,637,873; Aug. 2.
- Sewing machines, Work holder for. W. H. Fisher. 1,616,035; Feb. 1.
- Sewing, Severing, and seam-reinforcing machine. A. M. Bates and A. Cogswell. 1,625,751; Apr. 26.
- Sextant, W. A. Cogswell. 1,651,014; Nov. 29.
- Shackle. L. J. Larsen. 1,646,546; Oct. 25.
- Shackle, Antirattler spring. H. E. Blomgren. 1,639,636; Aug. 16.
- Shackle assembly. H. E. Curtis. 1,620,756; Mar. 15.
- Shackle bolt. J. Midgley. 1,632,663; June 14.
- Shackle Dipping. G. F. Seider. 1,610,041; Nov. 29.
- Whitcomb. 1,636,872; July 26.
- Shackle for vehicle springs. A. H. Harris. Re16,519; Jan. 4.
- Shackle, Resilient. W. A. Geiger. 1,620,642; Mar. 15.
- Shackle, Resilient. S. B. Haseltine. 1,616,880; Feb. 8.
- Shackle, Resilient. S. B. Haseltine. 1,637,148; July 26.
- Shackle, Spring. W. H. Himes. 1,648,346; Nov. 8.
- Shackle, Spring. V. Link. 1,638,587; Aug. 9.
- Shade. R. Beardsley. 1,651,364; Dec. 6.
- Shade, Adjustable window. B. G. Conner. 1,642,489; Sept. 13.
- Shade and awning for windows, Combined. R. W. Richards. 1,617,964; Feb. 15.
- Shade and curtain bracket. E. M. Bailey. 1,613,780; Jan. 11.
- Shade and curtain hanger. W. J. Denney. 1,643,061; Sept. 24.
- Shade and curtain hanger. P. O. Lowers. 1,639,520; Aug. 16.
- Shade and curtain hangers, Vertical adjuster for. L. H. Robinson. 1,639,668; Aug. 23.
- Shade and curtain holder. G. Lavoie. 1,643,020; Sept. 20.
- Shade and curtain holder, Combined. J. W. Buck. 1,615,868; Feb. 1.
- Shade and curtain-rod holder. O. Reinhardt. 1,649,079; Nov. 15.
- Shade and curtain support. L. Plesce. 1,637,755; Aug. 2.
- Shade and drapery supports, Adjusting and holding device for. L. H. Robinson. 1,623,274; Apr. 5.
- Shade and drapery supports, Roller suspension for. L. H. Robinson. 1,637,162; July 26.
- Shade bracket, L. Shores. 1,649,262; Nov. 15.
- Shade bracket, Adjustable. L. Frasca. 1,622,779; Mar. 29.
- Shade bracket, Adjustable. J. C. Klappenberger. 1,622,450; Mar. 29.
- Shade cloth and constituting, Window-. J. W. Stratman. 1,638,592; Dec. 20.
- Shade guide. E. E. Minard. 1,632,742; June 14.
- Shade guide, Window-. J. R. Binford. 1,631,460; June 7.
- Shade holder. L. W. Anderson. 1,631,613; June 7.
- Shade holder. L. C. Doane. 1,632,391; June 14.
- Shade holder. E. H. Nostrand. 1,633,370; Dec. 20.
- Shade holder. J. R. Townsend. 1,628,863; May 17.
- Shade holder, Lamp-. E. Furst and S. Tave. 1,635,268; July 12.
- Shade holder, Porcelain. W. E. Turner. 1,618,067; Jan. 4.
- Shade, Illuminating glass. S. H. Barnes. Des. 73,818; Nov. 15.
- Shade, Lamp. H. C. Noe. Des. 73,709; Oct. 25.
- Shade or awning raising device. H. H. Rollins. 1,619,635; Mar. 1.
- Shade roller. H. F. Husted. 1,624,053; Apr. 12.
- Shade roller. J. Lutschak. 1,650,020; Nov. 22.

- Shade-roller bracket. F. Cooney. 1,633,069; June 21.
 Shade-roller fixture. S. I. Wharton. 1,616,881; Feb. 8.
 Shade-roller fixture. S. I. Wharton and D. R. Peevey. 1,639,278; Aug. 16.
 Shade-roller holder and curtain-rod bracket. K. Jakubiec. 1,634,364; July 5.
 Shade-roller support. H. F. Buchheit. 1,620,515; Mar. 8.
 Shade support, Window-. E. S. Bigelow. 1,635,700; Jan. 12.
 Shade-supporting structure. W. A. Biles. 1,613,074; Jan. 4.
 Shade, Ventilating. G. A. Walker. 1,615,296; Jan. 25.
 Shade, Window. H. Ilgan. 1,630,344; May 31.
 Shade, Window. S. S. Levy. 1,620,159; Mar. 8.
 Shade, Window. H. W. Melnik. 1,616,355; Feb. 1.
 Shade, Woven slat. A. C. Hough. 1,645,951; Oct. 18.
 Shades, curtains, and drapes, Adjustable rod support for. L. H. Robinson. 1,625,160; Apr. 19.
 Shades, Detachable collar for. L. W. Andersen. 1,615,531; Jan. 25.
 Shades on the vegetable fiber and in materials treated according to such process, Producing combined. G. Petzold and H. Rittner. 1,640,802; Aug. 30.
 Shadow-producing agent and making the same. B. Rapp. 1,644,446; Oct. 4.
 Shaft-adjusting mechanism. A. E. Showalter and J. W. Johnson. 1,633,910; June 28.
 Shaft and crossbar connection. B. Baker. 1,613,011; Jan. 4.
 Shaft box. O. E. Bishop. 1,645,982; Oct. 18.
 Shaft construction. C. D. R. Schaeffer. 1,640,670; Aug. 30.
 Shaft coupling. H. F. Cares and R. Marsland. 1,638,796; Aug. 9.
 Shaft coupling. J. O. Carrey. 1,651,671; Dec. 6.
 Shaft coupling. D. H. Couch. 1,613,502; Jan. 4.
 Shaft coupling. J. A. and P. H. Davey and C. L. Gaugler. 1,636,290; July 19.
 Shaft coupling. F. D. Holdsworth. 1,634,499; July 5.
 Shaft coupling. E. E. Josef. 1,647,802; Nov. 1.
 Shaft coupling. A. W. Rybeck. 1,639,930; Dec. 27.
 Shaft coupling. W. Stockicht. 1,637,663; Aug. 2.
 Shaft coupling. K. F. Ungerer. 1,625,511; Apr. 19.
 Shaft coupling, Flexible. G. Fast. 1,616,034; Feb. 1.
 Shaft coupling, Flexible. G. Fast. 1,641,669; Sept. 6.
 Shaft coupling, Flexible. E. E. Greve. 1,634,940; July 5.
 Shaft coupling, for relatively-adjustable shafts, Flexible. G. Fast. 1,641,668; Sept. 6.
 Shaft couplings, Insulating flexible. H. W. Van Leir. 1,639,240; Aug. 16.
 Shaft, Detachable. R. M. Werner. 1,631,236; June 7.
 Shaft-driving stand, Flexible. W. W. Elliott. 1,641,130; Aug. 30.
 Shaft, Flexible. E. A. Joline. 1,649,310; Nov. 15.
 Shaft, Flexible. H. A. Kjelsberg. 1,649,119; Nov. 15.
 Shafting, Cushioning connection for. C. T. Runyon. 1,615,138; Jan. 18.
 Shafting, Flexible. J. T. Dunn. 1,622,772; Mar. 29.
 Shafting, Nonmetallic centering device for. A. H. Leipert. 1,631,216; June 12.
 Shaft, Hing. W. Breil. 1,618,166; Feb. 22.
 Shaft packing. R. F. Halliwell. 1,614,120; Jan. 11.
 Shaft relatively to a driving shaft, Advancing and retarding a driven. G. Constantinesco. 1,627,632; May 10.
 Shaft support. K. E. Lyman. 1,653,112; Dec. 20.
 Shaft suspension. H. W. Welmer. 1,641,715; Sept. 6.
 Shaft, Universal flexible. E. C. Dean. 1,635,929; July 12.
 Shafts, Center finder for. A. Raber. 1,640,295; Aug. 23.
 Shafts, Connector sleeve for telescoping. B. H. Urschel. 1,644,800; Oct. 11.
 Shafts, Counterbalancing device for. J. L. Burns. 1,646,897; Oct. 25.
 Shafts, Flexible coupling for. K. Baumann. 1,639,480; Aug. 16.
 Shafts, Flexible coupling for. K. Baumann. 1,639,644; Aug. 23.
 Shafts relatively to a third, Mechanism for varying the angular relationship of two. L. Coatalen and S. H. Att-wood. 1,632,491; Mar. 29.
 Shafts, Studing box for. H. Boltschauser. 1,613,924; Jan. 11.
 Shafts, Universal joint for. G. H. E. de Ram. 1,625,410; Apr. 19.
 Shaker, Condiment. F. E. Miller. 1,640,005; Aug. 23.
 Shaking screen. C. Dahlberg. 1,648,543; Nov. 8.
 Shampoo boards, Attachment for. G. S. Morin. 1,617,537; Feb. 15.
 Shampoo shield. J. E. Shaeffer. 1,640,676; Aug. 30.
 Shank and edge trimmer. E. L. McMurtrey. 1,646,654; Oct. 25.
 Shank and socket fastening device. G. H. Elwell. 1,637,521; Aug. 2.
 Shank-bending and stitch-rubbing machine. L. G. Freeman. 1,616,710; Aug. 23.
 Shank-bending and stitch-rubbing machine. L. G. Freeman. 1,624,326; Apr. 12.
 Shank, Reinforced. W. E. Small. 1,652,420; Dec. 13.
 Shank reinforcement. R. J. Griesedieck. 1,628,969; May 17.
 Shank stiffener. R. E. Bartels. 1,638,136; Aug. 9.
 Shank stiffener. R. Davis. 1,642,383; Sept. 13.
 Shank stiffener. C. M. Moore. 1,649,414; Nov. 15.
 Shank stiffener with a shoe sole, Incorporating a. R. E. Bartels. 1,619,648; Mar. 1.
 Shaped articles of set plastic material, Manufacture of. O. E. Roberts, Jr. 1,628,807; May 17.
 Shaper. R. T. Hazelton. 1,632,375; June 14.
 Shaper table. Woodword-. E. Reaveley. 1,626,153; Apr. 26.
 Shaping and stapling machine. C. H. Grings. 1,647,443; July 5.
 Shaping machine, Upper-. A. F. Pym. 1,634,510; July 5.
 Shaping mechanism. P. A. Berg. 1,651,505; Dec. 6.
 Shaping or planing machine for worm or screw shaped bevel wheel operating according to the development method. H. Brandenberger. 1,636,120; July 19.
 Sharpener, Band-saw. O. H. Banker. 1,634,281; July 5.
 Sharpener, Blade. E. Feist. 1,641,074; Aug. 30.
 Sharpener, Blade. J. H. Gibson. 1,644,778; Oct. 11.
 Sharpener, Disk. J. C. Zumwalt. 1,642,004; Sept. 13.
 Sharpener, Drill. A. E. Peters. 1,629,175; May 17.
 Sharpener, Drill. A. E. Peters. 1,632,621; June 14.
 Sharpener, Drill. A. H. Skaer and O. E. Clark. 1,617,225; Feb. 8.
 Sharpener, for grinder knives. E. G. Chermak and F. S. Pritzl. 1,628,031; May 10.
 Sharpener, Knife. L. M. Keizer and F. A. Osgood. 1,622,197; Mar. 22.
 Sharpener, Knife. W. H. McCall. 1,625,219; Apr. 19.
 Sharpener, Lawn-mower. S. E. Cline. 1,621,524; Mar. 22.
 Sharpener, Lawn-mower. G. A. Miles. 1,617,536; Feb. 15.
 Sharpener, Pencil. G. E. Bartol, jr. 1,637,849; Aug. 2.
 Sharpener, Pencil. G. W. Brown. 1,647,078; Oct. 25.
 Sharpener, Pencil. C. R. Clare. 1,636,552; July 19.
 Sharpener, Pencil. P. O. Kowal. 1,627,248; May 3.
 Sharpener, Pencil. M. D. Meserole. 1,635,974; July 12.
 Sharpener, Pencil. R. Sato. 1,652,583; Dec. 13.
 Sharpener, Pencil. J. Slunicko and J. A. Nixon. 1,635,562; July 12.
 Sharpener, Pencil. C. M. Sykes. 1,628,076; May 10.
 Sharpener, Pencil. G. G. Weis. 1,628,083; May 10.
 Sharpener, Razor. P. A. Frank. 1,635,827; July 12.
 Sharpener, Razor-blade. J. M. Sullivan. 1,653,484; Dec. 20.
 Sharpener, Safety-razor-blade. F. J. Tillman. 1,648,972; Nov. 15.
 Sharpener, Safety-razor-blade. J. Vaughan. 1,630,551; May 31.
 Sharpener, Skate. S. Turri. 1,622,476; Mar. 29.
 Sharpeners, Grinder for the cutters of pencil. G. E. Burton. 1,633,845; June 28.
 Sharpeners, Lubricating system for rock-drill. A. H. Skaer and O. E. Clark. 1,637,012; July 26.
 Sharpening device, Pocketknife-. H. L. Welch. 1,639,204; Aug. 16.
 Sharpening device, Razor-blade-. H. J. Sewoster. 1,616,004; Feb. 1.
 Sharpening machine, Knife-. R. Forshaw. 1,633,085; June 21.
 Sharpening machine, Razor-blade-. J. Holtzman. 1,644,302; Jan. 11.
 Sharpening machine, Tool-. W. K. Dodge. 1,652,469; Dec. 13.
 Sharpening mechanism, Blade-. C. A. Strand. 1,628,754; May 17.
 Sharpening tongs, Reversible disk. I. H. Farmer. 1,625,193; Apr. 19.
 Shaving compact. W. L. Orme. 1,643,171; Sept. 20.
 Shaving cup, Collapsible. C. E. Rand. 1,636,323; July 19.
 Shaving cup, Sanitary. A. J. Eisenberg. 1,641,805; Sept. 6.
 Shaving-cup stand. A. Faiella. 1,622,633; Mar. 29.
 Shaving kit. F. E. Crandall and A. S. Vogel. 1,615,743; Jan. 25.
 Shaving-stick holder. E. R. Butler and W. T. Singer. 1,640,027; Aug. 23.
 Shawl carrier. J. R. Scohy. 1,642,562; Sept. 13.
 Shawl, Shower. H. La Beaud. 1,641,039; Aug. 30.
 Sheaf carrier. W. J. Coulter. 1,644,974; Oct. 11.
 Shear and scrap cutters. 1,634,275; July 5.
 Shear and scrap cutter, Combined rotary bevel. L. Williams. 1,636,267; July 19.
 Shear guide, Sheet-metal. C. D. Wagner. 1,653,936; Dec. 27.
 Shear machine. L. Williams. 1,651,654; Dec. 6.
 Shearing and forging press. J. A. Lucas. 1,638,403; Aug. 9.
 Shearing of metal plates or sheets, Machinery employed in the. H. S. Thomas and W. R. Davies. 1,619,684; Mar. 1.
 Shears: See—
 Motor-driven shears. Pruning shears.
 Motor shears. Sheet-metal shears.
 Shears. W. Dooley. 1,618,817; Feb. 22.
 Shears. A. Gardiner. 1,632,284; June 14.
 Shears. C. E. Luczette. 1,615,882; Feb. 1.
 Shears. T. M. Vaughan. 1,639,677; Aug. 23.
 Shears. C. H. Wilkes and G. E. Calhoun. 1,632,525; June 14.
 Shears and the like, Shearing blade for sheep. H. C. Wright and F. E. Bristol. 1,644,470; Oct. 25.
 Shears and the like, Vibrating cutter for sheep. M. W. McArdle. 1,644,140; Oct. 4.

- Shears, Attachment for. R. P. Hafner. 1,618,082; Feb. 15.
- Shears attachment, Grass-. M. S. Dearborn. 1,647,085; Oct. 25.
- Shears, Barber. H. S. Otis. 1,623,130; Apr. 5.
- Shears, Flying. F. L. Sessions. 1,648,829; Nov. 8.
- Shears for cutting heavy sheet metal, Facing. C. L. Huston. 1,617,486; Feb. 15.
- Shears for rice straw. H. O. Cranton. 1,617,461; Feb. 15.
- Shears, Kick-off for. T. D. Hodge. 1,641,678; Sept. 6.
- Shears, Making. W. A. Isbell and H. H. Canfield. 1,637,572; Aug. 2.
- Shears, Metal. R. Heinrich and P. Kramer. 1,647,622; Nov. 1.
- Shears or scissors and the like. A. T. Firth. 1,633,441; Jan. 21.
- Shears, Simultaneous Intensifier feed for separate. C. L. Huston. 1,616,856; Feb. 8.
- Shears, Spring-opened clipping. W. M. Eggers and G. Mabry, jr. 1,637,607; Aug. 2.
- Shears, Vibrating cutter for sheep. M. W. McArdle. 1,644,141; Oct. 4.
- Sheave. A. C. Gruwaldt. 1,627,558; May 10.
- Sheave block, Safety. W. H. McKissick. 1,645,014; Oct. 11.
- Sheave block, Safety. W. H. McKissick. 1,650,903-4; Nov. 29.
- Sheave tensioning and adjusting device. H. A. Clark. 1,617,668; Feb. 15.
- Sheave, Traction. E. L. Rieske. 1,653,062; Dec. 20.
- Sheave, Wheel or sprocket. S. J. Bens. 1,634,646; July 5.
- Sheaves and cables on lift bridges, Method and apparatus for changing main. E. A. Pearson. 1,620,284; Mar. 8.
- Sheet-bending machine, Corrugated. C. A. Frick. 1,642,657; Sept. 13.
- Sheet-control mechanism. J. R. Blaine. 1,636,404; July 19.
- Sheet conveyor. A. J. Freeman. 1,631,367; June 7.
- Sheet cutting and transporting appliance. A. J. Evers. 1,617,381; Feb. 15.
- Sheet-delivering device. A. and E. Kluge. 1,621,547; Mar. 22.
- Sheet delivery, Extension. W. M. Kelly. 1,645,993; Dec. 18.
- Sheet-delivery mechanism. A. and E. Kluge. 1,621,546; Mar. 22.
- Sheet-drawing apparatus. N. Mambourg. 1,641,894; Sept. 6.
- Sheet-fastening machines for applying adhesive to the sheet sheets, Apparatus for. U. Bischof. 1,646,783; Oct. 25.
- Sheet-feed-control apparatus. A. Broadmeyer. 1,635,604; July 12.
- Sheet feeder. W. Albrecht, jr. 1,618,624; Feb. 22.
- Sheet feeder. E. W. Belluche. 1,618,632; Feb. 22.
- Sheet feeder. A. C. Christopherson. 1,629,477; May 24.
- Sheet feeder. H. Ehlig. 1,618,584; Feb. 22.
- Sheet feeder. S. Lipsius. 1,630,707; May 31.
- Sheet feeders, Automatic pile-elevating mechanism for. W. M. Kelly. 1,629,874; May 24.
- Sheet feeding. H. K. King. 1,653,806; Dec. 27.
- Sheet feeding and associating mechanism. A. M. Zucker-man. 1,650,923; Nov. 29.
- Sheet feeding and cutting mechanism. R. J. Smith. 1,638,221; Aug. 9.
- Sheet-feeding apparatus. A. Broadmeyer. 1,617,893; Feb. 15.
- Sheet-feeding apparatus. A. Broadmeyer. 1,632,945; June 21.
- Sheet-feeding apparatus. A. Broadmeyer. 1,637,019; July 26.
- Sheet-feeding apparatus, Pile arrangement in. A. Bilz. 1,614,059; Jan. 11.
- Sheet-feeding apparatus, Sheet-retarding means for. A. Broadmeyer. 1,631,617; June 7.
- Sheet-feeding control means. C. L. Post. 1,629,118; May 17.
- Sheet-feeding machine. C. E. Christopher. 1,651,444; Dec. 6.
- Sheet-feeding machine. F. L. Cross. 1,637,555; Aug. 2.
- Sheet-feeding machine. H. K. King. 1,652,172; Dec. 13.
- Sheet-feeding machine, Automatic suction. J. A. Carlton. 1,646,681; Oct. 25.
- Sheet-feeding means. G. W. Swift, jr. 1,643,646; Sept. 27.
- Sheet-feeding mechanism. J. P. Aldrich and H. A. Morris. 1,617,560; Feb. 15.
- Sheet-feeding mechanism. H. M. Barber. 1,654,158; Dec. 27.
- Sheet-feeding mechanism. E. E. Fairchild, A. A. Adamson, and C. F. Morley. 1,639,221; Aug. 16.
- Sheet-feeding mechanism. H. A. Griffiths. 1,623,032; Mar. 29.
- Sheet-feeding mechanism. W. M. Kelly. 1,621,788; Mar. 22.
- Sheet-feeding mechanism. S. H. Plum, 2d, and A. Ackley. 1,624,069; Apr. 12.
- Sheet-feeding mechanism. J. H. Shipley. 1,645,824; Oct. 18.
- Sheet-feeding mechanism. K. Sieg. 1,634,088; June 28.
- Sheet-feeding mechanism. K. Sieg. 1,644,695; Oct. 11.
- Sheet-feeding mechanism. L. R. Smith, W. R. Rice, and J. R. Jackson. 1,646,117; Oct. 18.
- Sheet-feeding mechanism. G. W. Swift, jr. 1,647,819; Nov. 1.
- Sheet-feeding mechanism. L. R. Tufts. 1,629,444; May 17.
- Sheet-feeding mechanism, Feed table for. C. F. Root. 1,627,064; Mar. 3.
- Sheet-flowing apparatus, Multiple. F. Fraser. 1,623,051; Apr. 5.
- Sheet-form material, Machine for cutting. C. B. Gray. 1,639,994; Aug. 23.
- Sheet-form material, Machine for cutting. C. B. Gray. 1,646,145; Oct. 18.
- Sheet-glass apparatus. H. F. Clark. 1,641,920; Sept. 6.
- Sheet glass, Apparatus for cracking off and handling continuously-formed. A. E. Evans. 1,620,014; Mar. 8.
- Sheet glass, Apparatus for flattening. E. J. Casseilmann, N. Griffith and C. E. Johnson. 1,641,918; Sept. 6.
- Sheet glass, Apparatus for forming. G. E. Howard. 1,616,371; Feb. 1.
- Sheet glass, Apparatus for making. J. H. Fox. 1,638,728; Aug. 9.
- Sheet glass, Apparatus for making. H. K. Hitchcock. 1,615,840; Feb. 1.
- Sheet glass, Apparatus for making. H. F. Htner. 1,615,842; Feb. 1.
- Sheet glass, Apparatus for making. C. H. Wright. 1,615,863; Feb. 1.
- Sheet-glass apparatus, Heating means for. J. C. Hender. 1,649,031; Nov. 15.
- Sheet glass, Drawing. J. L. Drake. 1,639,452; Aug. 16.
- Sheet glass, Drawing. M. J. Owens. 1,614,082; Jan. 11.
- Sheet glass, Drawing. J. A. Reece. 1,618,107; Feb. 15.
- Sheet glass, Drawing. J. A. Reece. 1,639,466; Aug. 16.
- Sheet-glass-drawing apparatus. C. H. Wright. 1,615,862; Jan. 11.
- Sheet glass, Drawing flat. E. T. Ferngren. 1,614,110; Jan. 11.
- Sheet-glass-drawing machines, Constant-temperature heater for. W. A. Gibson. 1,641,807; Sept. 6.
- Sheet glass, Method and apparatus for annealing and cooling. W. L. Monroe. 1,641,896; Sept. 6.
- Sheet glass, Method and apparatus for forming. J. C. Blair. 1,641,948; Sept. 6.
- Sheet glass, Method of and apparatus for forming. G. E. Howard. 1,616,370; Feb. 1.
- Sheet glass, Process and apparatus for drawing. H. F. Htner. 1,615,841; Feb. 1.
- Sheet glass, Producing pressed. E. T. Ferngren. 1,641,806; Sept. 6.
- Sheet glass, Production of. N. Franzen. 1,617,800; Feb. 15.
- Sheet glass, Transport table for rolled. M. Bicheroux. 1,621,054; Mar. 15.
- Sheet-glass width-maintaining shield. E. T. Ferngren. 1,639,453; Aug. 16.
- Sheet inserter. H. C. Miller. 1,640,132; Aug. 23.
- Sheet, Invoice. C. M. Hulse. 1,616,269; Feb. 1.
- Sheet, Lead. R. Reenforced. G. H. Worsall. 1,628,759; May 17.
- Sheetlike material, Method and apparatus for rolling. F. C. Biggert, jr., and L. Johnson. 1,654,235; Dec. 27.
- Sheet material, Apparatus for assembling. V. H. Bodle and W. E. Jaquith. 1,649,802; Nov. 22.
- Sheet material and producing the same, Colored. T. M. Schur. 1,618,231; Feb. 22.
- Sheet material, Bursting-strength tester for. M. O. Schur. 1,618,231; Feb. 22.
- Sheet material, Cutting. R. C. Simmons. 1,647,254; Nov. 1.
- Sheet material, Feeder for. H. S. Labombarde. 1,634,074; June 28.
- Sheet material, Frame for flexible. E. R. Johnson. 1,621,727; Mar. 22.
- Sheet material, Handling strips of. H. E. Van Derhoef. 1,651,744; Dec. 6.
- Sheet material, Machine for splitting. J. J. Callahan. 1,647,433; Nov. 1.
- Sheet material, Press for cutting or punching. J. R. Oliver. 1,619,482; Mar. 1.
- Sheet material, Slitting. T. B. Munroe. 1,629,522; May 24.
- Sheet metal. F. Humphris. 1,650,518; Nov. 22.
- Sheet metal article. E. F. Tobold. 1,645,832; Oct. 18.
- Sheet-metal articles, Producing certain. T. E. Murray, jr. 1,616,691; Aug. 2.
- Sheet-metal assembling and working machine. H. Her-mann. 1,620,205; Mar. 8.
- Sheet-metal-bending machine. W. Bittner. 1,613,307; Jan. 4.
- Sheet metal, Bracing apparatus for. R. T. Romine. 1,644,278-9; Oct. 4.
- Sheet-metal caps, Machine for operating upon. W. Cameron. 1,639,646; Aug. 23.
- Sheet-metal container. F. A. Prah. 1,632,848; June 21.
- Sheet-metal cutter. P. Winter. 1,624,853; Apr. 12.
- Sheet-metal cutter, Electric. T. J. Kelleher. 1,651,823; Dec. 6.
- Sheet-metal-cutting tool. F. J. McFarland. 1,621,798; Mar. 22.
- Sheet metal, Drawing. O. May. 1,649,841; Nov. 22.
- Sheet metal, Drawing press for heating and drawing. F. J. Rode. 1,636,111; July 19.
- Sheet metal, Expanded. H. M. Gersman. 1,621,664; Mar. 22.
- Sheet metal, Manufacturing. W. E. Ruder. 1,621,380; Mar. 15.

- Sheet metal or the like, Feeder for. W. W. Leach. 1,625,085; Apr. 19.
- Sheet-metal packs. Machine for opening. W. J. Stoop. 1,647,061; Oct. 25.
- Sheet-metal packing band. J. H. Schlaefly. 1,646,982; Oct. 25.
- Sheet-metal plates, Joint for. H. N. Wylie and F. M. Green. 1,630,558; May 31.
- Sheet-metal resistance units, Assembling. H. E. Campbell. 1,649,809; Nov. 22.
- Sheet-metal shears, Portable. T. F. Bannon. 1,651,176; Nov. 29.
- Sheet metal sink construction. J. E. Gloekler. 1,642,853; Sept. 20.
- Sheet-rubber stock, Wind-up device for. T. P. Little. 1,648,990; Nov. 15.
- Sheet metal, Stretching die for. T. Jolstad. 1,622,590; Mar. 29.
- Sheet metal, Welded butt-strap connection for. E. Hoehn. 1,617,114; Feb. 8.
- Sheet-metal-working machine. F. J. Rode. 1,617,420; Feb. 15.
- Sheet piler. L. Jones. 1,634,196; June 28.
- Sheet piling. F. L. Simon. 1,620,137; Mar. 8.
- Sheet-shearing apparatus. W. M. Blecker. 1,646,989; Oct. 25.
- Sheet-stacking mechanism. A. Zimniewicz. 1,643,482; Sept. 27.
- Sheet straightener. C. A. Dickhaut. 1,634,984; July 5.
- Sheet structure. E. I. Dodds. 1,649,453; Nov. 15.
- Sheeting machines, Attachment for. J. P. Renz. 1,642,746; Sept. 20.
- Sheets from sheet bars. Rolling thin or middle. G. Boscarelli. 1,622,177; Mar. 22.
- Sheets from webs, Mechanism for cutting. H. M. Barber. 1,650,927; Nov. 29.
- Sheets, labels, and the like, Machine for feeding. M. Fey-busch and P. W. Fleischer. 1,638,151; Aug. 9.
- Shing, Making. O. M. Witte. 1,651,222; Nov. 29.
- Shingles, Method and mechanism for delivering and stacking. M. A. Drotteur. 1,625,642; Apr. 19.
- Sheets of paper, Apparatus for piling. G. E. Maxner. 1,623,195; Apr. 5.
- Shelf. S. Offenbach. 1,619,307; Mar. 1.
- Shelf, and rack device, Portable. T. C. Browne. 1,654,409; Dec. 27.
- Shelf, Antiproof. F. W. French. 1,625,412; Apr. 19.
- Shelf, Library. A. H. Levene. 1,617,685; Feb. 15.
- Shell, Adjustable. A. E. Linendoll. 1,646,030; Oct. 18.
- Shellac for bleaching purposes, Decolorizing, treating, and dissolving. F. C. Rawolle. 1,644,941; Oct. 4.
- Shed-viscosity tester. J. R. McClain. 1,637,386; Aug. 2.
- Sheller. See—
Corn sheller. Pea sheller.
Egg sheller. Seed-corn sheller.
- Shelling and polishing grain and the like, Machine for. M. Hoff. 1,640,996; Aug. 30.
- Shelling machine, Nut-. E. H. Powell. 1,653,413; Dec. 20.
- Shells and the like projectiles, Clockwork-operated mechanical fuse for. A. Varaud. 1,640,165; Aug. 23.
- Shell-shaped body for the allowance of high-pressure stresses. H. Debor. 1,645,944; Oct. 18.
- Shelving. L. Mayer. 1,654,183; Dec. 27.
- Sherbet glass. E. I. Ratner. Des. 72,190; Mar. 8.
- Shield, Chasing. P. Bading. 1,641,889; Sept. 19.
- Shield, Expansion. J. K. Fisher. 1,639,223; Aug. 16.
- Shield, Expansion. C. C. Tomkinson. 1,636,842; July 26.
- Shield, Expansion. C. C. Tomkinson. 1,651,004; Nov. 29.
- Shield. J. Toth. 1,649,996; Nov. 22.
- Shield for the protection of valuables during transfer. R. L. MacDonald. 1,647,572; Nov. 15.
- Shield, Glass. H. H. Irwin. 1,641,889; Sept. 6.
- Shield, Smoke. L. B. Clark. 1,627,482; May 3.
- Shielding and balancing means. W. J. Adams and A. Haddock. 1,624,459; Apr. 12.
- Shields, Fastening device for. E. C. Goebert. 1,636,128; July 19.
- Shields, Shoulder-strap holder for arm-pit. A. B. Mahoney. 1,641,004; Aug. 30.
- Shields, Shutter latch for. H. Holsington. 1,626,827; May 3.
- Shift lever. A. S. Butell. 1,638,182; Aug. 9.
- Shim. J. L. Bredar. 1,644,412; Oct. 4.
- Shim. J. Karmazin. 1,625,545; Apr. 19.
- Shim, Laminated. L. A. Johnson. 1,635,753; July 12.
- Shim, stance. C. L. Stoglin. 1,617,507; Feb. 15.
- Shingle. F. R. Brydie. 1,614,871; Jan. 15.
- Shingle. R. B. Buckley. 1,653,085; Dec. 20.
- Shingle. N. P. Harshberger. 1,613,099-100; Jan. 4.
- Shingle. N. P. Harshberger. 1,613,102-3; Jan. 4.
- Shingle. N. P. Harshberger. 1,641,427; Sept. 6.
- Shingle. H. H. Honigbaum. 1,646,993; Oct. 25.
- Shingle. J. E. Hooker. 1,637,366; July 26.
- Shingle. J. A. McCarthy. 1,641,858; Sept. 6.
- Shingle. T. D. Miller. 1,645,767; Oct. 18.
- Shingle. G. Ritter. 1,640,806; Aug. 30.
- Shingle. R. K. Tyra. 1,634,126; Aug. 28.
- Shingle-abrading machine. C. M. Abbott. 1,633,563; June 28.
- Shingle and laying the same. G. R. Wyman. 1,635,733; July 12.
- Shingle construction. C. O'Dell. Re16,832; Dec. 27.
- Shingle covering. J. H. Graham. 1,637,522; Aug. 2.
- Shingle element. H. A. Cumfer. 1,619,569; Mar. 1.
- Shingle fastening. H. R. Wardenn. 1,629,558; May 24.
- Shingle, Flexible. W. Freegrad. 1,625,808; Apr. 19.
- Shingle, Flexible. G. Ritter. 1,631,936; June 7.
- Shingle, Interlocking multiple. I. Davis. 1,627,429; May 3.
- Shingle machine. H. Applin. 1,623,612; Apr. 5.
- Shingle, Metallic. B. G. Call. 1,643,445; Sept. 27.
- Shingle or tile. B. F. Whiteside. 1,613,302; Jan. 4.
- Shingle, Roofing. R. B. Adams. 1,636,349; July 19.
- Shingle, Roofing. J. A. McCarthy. 1,648,692; Nov. 8.
- Shingle Strip. L. Busha. Re16,621; May 10.
- Shingle, Strip. L. Busha. 1,629,146; May 17.
- Shingle strip. H. A. Cumfer. 1,619,601; Mar. 1.
- Shingle strips, Machine for making. A. S. Speer. 1,623,983; Apr. 12.
- Shingle support and cornice-protecting device, Combined. J. E. Richards. 1,627,805; May 10.
- Shingles and roofing. F. P. Leonard. 1,630,019; May 24.
- Shingles, Cutting strip. A. R. Lukens. 1,614,446; Jan. 11.
- Shingles, Device for fastening. J. C. Bergner. 1,613,156; Jan. 4.
- Shingles, Holding device for. H. and J. Fulenwider. 1,618,077; Feb. 15.
- Shingles, Lock, butt for asphalt. N. R. Bartlett. 1,634,972; July 5.
- Shingles, Method and apparatus for dipping. C. M. Abbott. 1,624,379; Apr. 12.
- Shingles, Method and mechanism for making tapered. A. L. Clapp. 1,643,373; Sept. 27.
- Shingles and similar building articles, Making. W. H. Groveman. 1,650,709; Nov. 29.
- Shingling gauge. F. F. Gregel. 1,645,808; Oct. 18.
- Shining machine, Shoe. F. H. Newton. 1,654,049; Dec. 27.
- Ship. J. Pasini. 1,623,888; Apr. 5.
- Ship construction. B. S. McCarey. 1,651,926; Dec. 6.
- Ship construction, Passenger. G. G. Sharp. 1,629,589; May 24.
- Ship, etc., Distance Indicator for. G. Walker. 1,638,971; Aug. 16.
- Ship governor. W. C. Dennis. 1,624,718; Apr. 12.
- Ship-propelling plant. G. Baner and H. Kluge. 1,614,819; Jan. 18.
- Ship propulsion. D. E. Jewitt. 1,618,827; Feb. 22.
- Ship propulsion. G. O. Watson. 1,618,760; Feb. 22.
- Ship, Thermal buoy, Sunken-. S. V. Clyde. 1,615,108; Jan. 18.
- Ship-ventilator closing and opening mechanism. W. H. Borrow. 1,615,437; Jan. 25.
- Shipping box. C. R. Tate. 1,612,891; Jan. 4.
- Shipping box and holder for flowers and the like. P. Morin and F. D. Lorenz. 1,640,797; Aug. 30.
- Shipping box, Egg-. M. O. Ginsburg. 1,620,541; Mar. 8.
- Shipping box for chickens. F. W. Ruessaal. 1,647,018; Oct. 25.
- Shipping box for chicks, etc., Feeder. K. I. Miller. 1,632,033; June 14.
- Shipping box for clothing. W. H. Batts. 1,617,365; Feb. 15.
- Shipping box for clothing. W. H. Batts. 1,626,381; Apr. 26.
- Shipping case. H. R. Bliss. 1,649,146; Nov. 15.
- Shipping case. J. W. Parks. 1,630,862; May 31.
- Shipping case, Folding. J. S. Williamson. 1,626,369; Apr. 26.
- Shipping case, Folding piano-. G. H. Moyer and R. F. Aucker. 1,642,381; Sept. 13.
- Shipping cases, Assembling fiber. H. R. Bliss. 1,627,311; May 8.
- Shipping cases, Packing unit for. E. E. Maston. 1,625,620; Apr. 19.
- Shipping container. C. A. Agar. 1,613,152; Jan. 4.
- Shipping container. W. R. Brown. 1,619,917; Mar. 8.
- Shipping deck. Automobile. E. T. Cunningham. 1,644,713; Oct. 11.
- Shipping device. R. E. Baus. 1,638,612; Aug. 9.
- Shipping device, Automobile. F. J. Nemethy, Jr. 1,651,405; Dec. 6.
- Shipping goods, Container for. A. C. Scott. 1,627,344; May 3.
- Shipping materials, Packing strip for. W. B. Alcorn. 1,627,223; May 3.
- Shipping member. C. A. Agar. 1,619,011; Mar. 1.
- Shipping package. S. C. Cary. 1,631,516; June 7.
- Shipping tag. W. G. Jopson. 1,632,082; June 14.
- Ships, Air intake for. C. G. Hawley. 1,612,813; Jan. 4.
- Ship's anchor. E. B. Swift. 1,636,700; July 28.
- Ships' and like propeller shafts and propellers, Preventing the fouling of. F. J. Blade. 1,649,657; Nov. 15.
- Ships, Apparatus for raising sunken. W. La Grange. 1,643,247; Sept. 20.
- Ships, Device for reducing the pitching of. H. F. W. Lucke. 1,642,163; Sept. 13.
- Ship's hull. P. Bonnemaison. 1,637,677; Aug. 2.
- Ship's instrument. G. Walker. 1,638,970; Aug. 16.
- Ship's instrument. G. Walker. 1,638,972; Aug. 16.
- Ships, Life-saving means for sunken. E. M. Bonilla. 1,625,704; Apr. 19.
- Ship's log. R. Star. 1,641,907; Sept. 6.

- Ships or the like, Disintegrating or cutting to pieces or demolishing wrecked. O. F. A. E. Grumpelt. 1,615,223; Jan. 25.
- Ships or the like, Propeller for. J. K. Lowe. 1,631,744; June 7.
- Ships, Propelling mechanism for. F. Gebers. 1,628,837; May 17.
- Ships, Rescuing device for sunken. H. S. Wilson. 1,623,143; Apr. 5.
- Ship's rigging. A. Bentzen. 1,642,716; Sept. 20.
- Ship's signaling and broadcasting device. E. A. Sperry. 1,638,417; Aug. 9.
- Shirt. R. G. Dray. 1,631,856; June 7.
- Shirt. J. H. Lamberton. Des. 72,157; Mar. 8.
- Shirt. G. O. Olsen. 1,647,656; Nov. 1.
- Shirt. M. K. Randolph. 1,614,898; Jan. 18.
- Shirt. L. T. and F. W. Wilcox. 1,635,773; July 12.
- Shirt and shirt pocket. J. H. Cronin. 1,636,858; July 26.
- Shirt and supporter, Combined. N. Pelton. 1,615,192; Jan. 18.
- Shirt attachment. O. G. I. O'Heir. 1,641,008; Aug. 30.
- Shirt board. L. De Doory. Des. 72,355; Apr. 5.
- Shirt neck band and making the same. P. Leichter. 1,620,477; Mar. 8.
- Shirt retainer. R. Johnson. 1,653,288; Dec. 20.
- Shirt, Stiff-bosomed. J. W. Krause. 1,617,398; Feb. 15.
- Shirts, coats, and the like, Fastener for. J. A. Hughton. 1,652,898; June 21.
- Shock absorber. J. B. Adduci. 1,640,340; Aug. 30.
- Shock absorber. L. Aldrin. 1,631,569; June 7.
- Shock absorber. L. W. Amende. 1,623,081; Apr. 5.
- Shock absorber. J. E. Arzens. 1,616,021; Feb. 1.
- Shock absorber. J. P. Baldwin. 1,638,232; Aug. 30.
- Shock absorber. J. P. Baldwin. 1,638,234-35; Aug. 9.
- Shock absorber. J. P. Baldwin and R. A. Keese. 1,638,235; Aug. 9.
- Shock absorber. J. C. Battle. 1,654,399; Dec. 27.
- Shock absorber. P. M. Beconnier. 1,645,576; Oct. 18.
- Shock absorber. A. Bennett. 1,631,459; June 7.
- Shock absorber. S. P. Bennett. 1,613,977; Jan. 11.
- Shock absorber. H. M. Benson. 1,641,021; Aug. 30.
- Shock absorber. C. P. Blanchard. 1,645,050; Sept. 20.
- Shock absorber. F. W. Bull. 1,620,945; Mar. 15.
- Shock absorber. J. S. Burwell. 1,621,579; Mar. 22.
- Shock absorber. J. S. Burwell. 1,641,572; Sept. 6.
- Shock absorber. A. Camporini. 1,647,271; Nov. 1.
- Shock absorber. W. L. Chambers. 1,651,373; Dec. 8.
- Shock absorber. C. P. Candore. 1,618,326; Feb. 22.
- Shock absorber. W. G. Cox. 1,649,447; Nov. 15.
- Shock absorber. A. G. Dalin. 1,645,183; Oct. 11.
- Shock absorber. G. M. Edgerton. 1,638,092; Aug. 9.
- Shock absorber. J. A. Erne. 1,614,721; Jan. 18.
- Shock absorber. N. S. Focht. 1,617,752; Feb. 15.
- Shock absorber. C. H. Foster. 1,619,815; Mar. 8.
- Shock absorber. H. B. Gates. 1,621,532; Mar. 22.
- Shock absorber. C. W. Gildea and W. H. Fry. 1,629,499; May 24.
- Shock absorber. O. G. Halliburton. 1,641,268; Sept. 6.
- Shock absorber. J. A. Harding. 1,613,098; Jan. 4.
- Shock absorber. H. Herbert and J. A. Lambert. 1,640,894; Aug. 30.
- Shock absorber. E. J. Kolodziej. 1,651,895; Dec. 6.
- Shock absorber. H. E. Krammer. 1,653,361; Dec. 20.
- Shock absorber. F. J. Laher. 1,640,785; Aug. 30.
- Shock absorber. P. A. Luff. 1,631,039; May 31.
- Shock absorber. E. L. Leinbach. 1,636,005; July 19.
- Shock absorber. J. Levesque. 1,628,503; May 10.
- Shock absorber. H. H. Logan. 1,624,265; Apr. 12.
- Shock absorber. L. L. Lomar. 1,621,201; Mar. 15.
- Shock absorber. L. L. Lomar. 1,635,284; July 12.
- Shock absorber. G. C. Martin. 1,623,428; Apr. 5.
- Shock absorber. W. P. Martin and L. Mikle. 1,618,940; Feb. 22.
- Shock absorber. F. C. Mock. 1,650,087; Nov. 22.
- Shock absorber. T. Morinelli. Re. 1,582; Apr. 5.
- Shock absorber. P. Pastourie. 1,626,755; May 3.
- Shock absorber. R. B. Paster. 1,619,787; May 31.
- Shock absorber. J. S. Reid. 1,649,860; Nov. 22.
- Shock absorber. D. C. Rodgers. 1,632,715; June 14.
- Shock absorber. A. J. Root. 1,631,222; June 7.
- Shock absorber. J. V. Rowan. 1,650,742; Nov. 29.
- Shock absorber. P. A. Ruff. 1,630,275; May 31.
- Shock absorber. E. Ryder. 1,615,916; Feb. 1.
- Shock absorber. B. Scott. 1,616,091; Feb. 1.
- Shock absorber. A. B. Shultz and A. B. Casper. 1,627,810; May 10.
- Shock absorber. A. B. Shultz and A. B. Casper. 1,628,811; May 10.
- Shock absorber. J. Sidney. 1,648,201; Nov. 8.
- Shock absorber. J. A. Stevens. 1,653,317; Dec. 20.
- Shock absorber. C. A. Stickney. 1,642,902; Sept. 20.
- Shock absorber. H. R. Stuart. 1,615,854-5; Feb. 1.
- Shock absorber. W. Swindowsky. 1,614,639; Jan. 18.
- Shock absorber. C. A. Witz. 1,642,949; Sept. 13.
- Shock absorber. S. K. Wellman. 1,631,077-8; May 31.
- Shock absorber. L. H. Wheeler. 1,653,682; Dec. 27.
- Shock absorber. T. H. Williams. 1,630,915; May 31.
- Shock absorber. E. L. Wilson. 1,616,523; Feb. 8.
- Shock absorber. G. J. Yevseyev. 1,641,217; Sept. 6.
- Shock absorber. O. Yousse. 1,650,690; Nov. 22.
- Shock absorber, Air-storing. E. Landon. 1,636,915; July 26.
- Shock absorber and buffer. W. Barber. 1,646,518; Oct. 25.
- Shock absorber and equalizer. M. L. Frink. 1,618,703; Feb. 22.
- Shock absorber and rebound check. E. Davis. 1,639,631; Aug. 16.
- Shock absorber and snubber combined. C. H. Linn. 1,622,200; Mar. 22.
- Shock absorber and the like for vehicles. J. B. Hawley, Jr. 1,647,518; Nov. 1.
- Shock absorber, Automobile. A. Jenschke. 1,619,422; Mar. 1.
- Shock absorber for automobiles. S. K. Wellman. 1,631,079; May 31.
- Shock absorber for vehicles. H. D. Church. 1,644,653-4; Oct. 4.
- Shock absorber for vehicles. S. Lewis. 1,620,112; Mar. 8.
- Shock absorber for vehicles. C. Marcus. 1,644,438; Oct. 4.
- Shock-absorber shackle. F. D. Armstrong. 1,635,880; July 12.
- Shock absorber, Snubbing. R. T. Robertson. 1,613,198; Jan. 4.
- Shock absorber, Vehicle. F. L. O. Wadsworth. 1,622,553; Mar. 29.
- Shock absorber, Wire-jerk-line. F. Redick. 1,651,069; Nov. 29.
- Shock absorbers and the like, Demonstrating device for. R. Stuart. 1,627,125; May 3.
- Shock absorbers, Device for determining pressure in vehicle. C. Pintacuda and U. Frill. 1,623,069; Apr. 5.
- Shock-absorbing device. J. A. Anglada. 1,643,597; Sept. 27.
- Shock-absorbing device. B. F. Shields, C. G. Crombie, and G. A. Windell. 1,625,570; Apr. 19.
- Shock-absorbing device, Rod-rotating and. J. P. Ratigan. 1,649,078; Nov. 15.
- Shock-absorbing means. W. G. Mayer. 1,653,580; Dec. 20.
- Shock-absorbing means. F. J. Stolpe. 1,634,522; July 5.
- Shock-absorbing means. Friction. G. A. Johnson. 1,648,274; Nov. 8.
- Shock-absorbing mechanism. W. Blackmore. 1,643,051; Sept. 20.
- Shock-absorbing mechanism. W. Blackmore. 1,653,988; Dec. 27.
- Shock-absorbing mechanism. S. B. Haseltine. 1,620,650; Mar. 15.
- Shock-absorbing mechanism. H. B. Madder. 1,643,053; Sept. 20.
- Shock-absorbing mechanism. P. S. Morgan. 1,616,540; Feb. 8.
- Shock-absorbing mechanism. J. F. O'Connor. 1,631,147; July 7.
- Shock-absorbing mechanism. J. F. O'Connor. 1,640,209; Aug. 23.
- Shock-absorbing mechanism. J. F. O'Connor. 1,648,319; Nov. 8.
- Shock-absorbing mechanism. E. H. Schmidt. 1,643,052; Sept. 20.
- Shock-absorbing mechanism. A. P. Withall. 1,627,367; May 3.
- Shock-absorbing mechanism, Friction. A. M. Brenne. 1,620,630; Mar. 15.
- Shock-absorbing mechanism, Friction. A. M. Brenne. 1,637,070; July 26.
- Shock-absorbing mechanism, Friction. A. M. Brenne. 1,640,066; Aug. 23.
- Shock-absorbing mechanism, Friction. A. E. Dentler. 1,620,634; Mar. 15.
- Shock-absorbing mechanism, Friction. G. B. Dorey. 1,612,803; Jan. 4.
- Shock-absorbing mechanism, Friction. W. A. Geiger. 1,612,876; Jan. 4.
- Shock-absorbing mechanism, Friction. W. A. Geiger. 1,648,303; Nov. 8.
- Shock-absorbing mechanism, Friction. W. A. Geiger. 1,650,439; Nov. 22.
- Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,616,691-2; Feb. 8.
- Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,620,651-3; Mar. 15.
- Shock-absorbing mechanism, Friction. S. P. Haseltine. 1,637,149-50; July 20.
- Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,648,306; Nov. 8.
- Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,650,352; Nov. 22.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,613,591; Jan. 4.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,616,756-9; Feb. 8.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,637,149-50; July 20.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,617,541; Feb. 15.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,620,677-8; Mar. 15.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,620,681; Mar. 15.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,621,517; Mar. 22.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,631,148; June 7.

- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,631,149; June 7.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,632,914-17; June 21.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,633,033-4; June 21.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,633,269; June 21.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,637,086-7; July 26.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,640,066; Aug. 23.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,640,206; Aug. 23.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,640,210-12; Aug. 23.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,640,421-2; Aug. 30.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,648,318; Nov. 8.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,648,320; Nov. 8.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,648,503; Nov. 8.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,648,912; Nov. 12.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,650,379-81; Nov. 22.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,653,224; Dec. 20.
- Shock-absorbing seat support. J. Y. Turner. 1,629,939; May 24.
- Shock-absorbing wheel. I. M. Laddon. 1,619,078; Mar. 1.
- Shock eliminator and spring control. H. H. Hill. 1,642,547; Sept. 13.
- Shock protector capable of acting as lifting jack. J. T. Lanfranchi. 1,653,218; Dec. 20.
- Shock-resisting glass. W. C. Bull. 1,632,363; June 14.
- Shocker. B. C. Berry. 1,625,386; Apr. 19.
- Shocker. C. Christiansen. 1,640,598; Aug. 30.
- Shocker. J. A. Richardson. 1,632,043; June 14.
- Shocker attachment. C. W. Tyson. 1,634,966; July 5.
- Shocker, Corn. G. W. Arthur. 1,645,212; Oct. 11.
- Shocker, Grain. G. Innes. 1,646,250-1; Oct. 18.
- Shocker, Grain. C. W. Livingston. 1,639,632; Aug. 16.
- Shocker, Grain. C. R. Roney. 1,627,203; May 3.
- Shoe. S. J. Allen. 1,634,816; July 5.
- Shoe. G. W. Blair. Des. 73,597; Oct. 11.
- Shoe. G. W. Blair. 1,648,932; Nov. 11.
- Shoe. M. F. Brogan. 1,613,691; Jan. 15.
- Shoe. P. Carr. 1,623,092; Apr. 5.
- Shoe. D. E. Cool. 1,640,067; Aug. 23.
- Shoe. T. Davis. Des. 72,789-91; June 7.
- Shoe. A. E. Falor and F. H. Martin. 1,636,905; July 26.
- Shoe. F. Grubs. 1,652,354; Dec. 13.
- Shoe. F. Herrmann. 1,623,007; Mar. 29.
- Shoe. M. Hilgert. 1,637,447; Aug. 2.
- Shoe. G. F. Johnson. 1,638,339; Aug. 9.
- Shoe. L. B. Joseph. 1,643,851; Sept. 27.
- Shoe. S. S. Macdonald and J. E. Small. 1,635,852; July 12.
- Shoe. F. H. Martin. 1,642,737; Sept. 20.
- Shoe. R. E. McKibben. 1,620,612; Mar. 8.
- Shoe. W. Nelmeier and T. Schult. 1,647,807; Nov. 1.
- Shoe. A. M. Rohrer. 1,628,743; May 17.
- Shoe. M. Siegel. Des. 72,685; May 17.
- Shoe. M. Siegel. Des. 72,731; May 24.
- Shoe. G. Tauber. Des. 73,450; Sept. 13.
- Shoe. T. Torio. 1,629,325; May 17.
- Shoe. J. M. Wilke, sr. 1,640,633; Aug. 30.
- Shoe. G. G. Young. 1,650,000; Nov. 22.
- Shoe, Adjustable. S. La Marca. 1,633,413; June 21.
- Shoe and arch support therefor, Corrective. O. H. Starnier. 1,618,664; Feb. 22.
- Shoe and heel and arch supporter therefor. W. T. McLaughlin. 1,648,907; Nov. 15.
- Shoe and making same. T. J. Butler. 1,615,766; Jan. 25.
- Shoe and making same. S. A. Eddins. 1,637,897; Aug. 2.
- Shoe and manufacture. C. O. Cristallini. 1,631,919; June 7.
- Shoe and manufacturing the same. A. R. Leshin. 1,623,350; Apr. 5.
- Shoe and method for use in the manufacture thereof. J. H. Richardson. 1,618,729; Feb. 22.
- Shoe and method of manufacture. L. L. Comeau. 1,634,397; July 5.
- Shoe and ornamenting same, Ornamental. C. Wolfelt. 1,617,430; Feb. 15.
- Shoe and slipper lasting machine. E. Tweedale and J. H. Nelson. 1,622,929; Mar. 29.
- Shoe and stocking protector. F. A. Colburn. 1,640,334; Aug. 23.
- Shoe and welt therefor, Welted. A. Dvlnsky. 1,632,768; June 14.
- Shoe, Arch or truss. L. Davidson. 1,639,930; Aug. 23.
- Shoe, Arch supporting. J. T. Voll. 1,644,762; Oct. 11.
- Shoe, Athletic. J. T. Riddell. 1,642,827; Sept. 20.
- Shoe attachment. C. Van Tassel. 1,640,302; Aug. 23.
- Shoe, Automatic fresh-air. M. Jursak. 1,649,236; Nov. 15.
- Shoe, Bathing. E. S. Ward. Re16,566; Mar. 1.
- Shoe bottom. A. L. Murray. 1,630,445; May 31.
- Shoe-bottom construction. L. H. Gilson. 1,639,769; Aug. 23.
- Shoe-bottom-filling machine. N. J. Westhaver. 1,626,571; Apr. 26.
- Shoe bottoms, Machine for operating on. E. E. Winkley. 1,645,566; Oct. 18.
- Shoe, Box-toe. J. J. Daly. 1,630,788; May 31.
- Shoe brake. C. Waseig. 1,638,380; Aug. 9.
- Shoe, Child's. T. W. Brockel and F. F. Ehling. 1,632,430; July 14.
- Shoe closure attachment. E. G. Marinetti. 1,648,651; Nov. 8.
- Shoe construction. E. J. Ramsey. 1,614,933; Jan. 18.
- Shoe counter. G. E. Brittain. 1,636,982; July 26.
- Shoe-display stand. W. L. C. Niles. 1,628,734; May 17.
- Shoe-display stand. E. B. Harris. 1,639,251; Aug. 16.
- Shoe, Feather-trimmed. E. Veran. Des. 73,808-9; Nov. 8.
- Shoe-fitting device. R. P. Morse. 1,644,075; Oct. 4.
- Shoe for rheumatism. L. M. de Suárez. 1,616,254; Feb. 1.
- Shoe form, Expansible. W. J. De Witt. 1,646,016; Oct. 15.
- Shoe form. W. J. De Witt. 1,632,954-5; June 21.
- Shoe form, Hollow. W. J. De Witt. 1,632,953; June 21.
- Shoe former. J. Horyczak. 1,650,357; Nov. 22.
- Shoe heel. A. Bono. 1,619,458; Mar. 1.
- Shoe heel. W. H. Nutt. Des. 73,007; July 5.
- Shoe heel. A. Perugia. 1,642,889; Sept. 20.
- Shoe Heeled. P. J. Gross. 1,645,191; Oct. 11.
- Shoe heels, Antiriction device for. S. Buchsbaum. 1,640,593; Aug. 30.
- Shoe, High. A. Niemi. 1,616,818; Feb. 8.
- Shoehorn, Collapsible. R. E. Lunday. 1,645,605; Oct. 18.
- Shoe lace. M. K. Gilewicz. 1,635,384; July 12.
- Shoe lace. C. T. E. Gould. 1,625,204; Apr. 19.
- Shoe lace. C. H. Gunn. 1,649,027; Nov. 15.
- Shoe-lace fastener. A. M. Berger. 1,646,849; Oct. 25.
- Shoe-lace fastener. S. R. Shetzline, jr., and E. A. Dodelin. 1,621,282; Mar. 15.
- Shoe-lace fastener. S. R. Shetzline, jr., and E. A. Dodelin. 1,624,564; Apr. 12.
- Shoe last. P. Borda. 1,626,071; Apr. 26.
- Shoe last. C. H. Brown. 1,642,764; Sept. 20.
- Shoe last. C. Miller. 1,652,286; Dec. 13.
- Shoe last. J. K. Northrup. 1,645,716; Oct. 18.
- Shoe last. V. V. Pessemier. 1,629,299; May 17.
- Shoe last and making same, Cast or temporary. M. Larsen. 1,647,633; Nov. 1.
- Shoe lasts, Machine for hollowing. C. L. Long. 1,647,969; Nov. 1.
- Shoe lace. S. N. Coleman. 1,640,384; Aug. 30.
- Shoe keepsake, Baby. F. T. Brosi. 1,638,481; Aug. 9.
- Shoe machine. L. E. Topham. 1,616,710; Feb. 8.
- Shoe machine. L. E. Topham. 1,616,712-13; Feb. 8.
- Shoe machine. L. E. Topham. 1,616,720; Feb. 8.
- Shoe machine. L. E. Topham and A. R. Morrill. 1,616,714; Feb. 8.
- Shoe machine. L. E. Topham and A. R. Morrill. 1,616,719; Feb. 8.
- Shoe machine, Automatic. M. E. Fernald. 1,628,602; May 10.
- Shoe, Molder's. A. L. Rehrbacher, jr. 1,613,131; Jan. 4.
- Shoe or analogous article. M. H. Bates. Des. 73,896-7; Sept. 6.
- Shoe-ornament holder, Flapping. F. A. Muscente. 1,640,665; Aug. 30.
- Shoe, Orthopedic. J. McDonough. 1,649,173; Nov. 15.
- Shoe overall. T. Arnsberg. 1,620,935; Mar. 15.
- Shoe, Physical-development. A. L. Gordon. 1,637,565; Aug. 2.
- Shoe-polishing cabinet. A. L. Aste. 1,614,096; Jan. 11.
- Shoe-polishing machine. J. L. Thompson. 1,623,218; Apr. 5.
- Shoe protector. J. A. Reece. 1,616,281; Feb. 1.
- Shoe rack. C. S. Angers. 1,642,712; Sept. 20.
- Shoe rack. J. E. Hooper. 1,623,244; Apr. 5.
- Shoe racks, Tray for. F. E. Willis. 1,638,609; Aug. 9.
- Shoe-raising-plant device. C. Liberman. 1,630,191; May 24.
- Shoe-repair stand. E. F. Eichenberger. 1,628,130; May 10.
- Shoe, Reversible bearing. H. K. Wolfe. 1,616,479; Feb. 8.
- Shoe, Rubber-sole. D. A. Cutler. 1,622,860; Mar. 29.
- Shoe shank. M. Cherney. 1,651,184; Nov. 29.
- Shoe shank. C. Zerga. 1,625,345; Apr. 19.
- Shoe shank, Metal. C. H. Brown. 1,638,520; Aug. 9.
- Shoe-shank stiffener. J. F. Marshall. 1,613,401; Jan. 4.
- Shoe-shank stiffener and making the same. R. E. Bartels. 1,638,137; Aug. 9.
- Shoe-shaping machine. N. L. Gulliford. 1,641,968; Sept. 20.
- Shoe-shining machine. C. C. Carek. 1,647,393; Nov. 1.
- Shoe-shining machine. S. W. Croy. 1,648,578; Nov. 8.
- Shoe-shining stands, Adjustable foot rest for. M. Shear. 1,635,441; June 12.
- Shoe-shining stands, Foot rest for. R. J. Jauch. 1,622,352; Mar. 29.
- Shoe, Snow. O. J. Burgess. 1,613,576; Jan. 4.
- Shoe sole. E. Calvin. Des. 72,474; Apr. 19.
- Shoe sole. J. E. Grosjean. Des. 72,011; Feb. 15.
- Shoe sole. J. E. Grosjean. Des. 72,208; Mar. 15.
- Shoe sole. L. M. Oakley. Des. 73,143; July 26.
- Shoe-sole construction. G. W. Blair. 1,650,817; Nov. 29.
- Shoe-sole drier. L. H. Dastis. 1,639,592; Aug. 16.

- Shoe sole, Metal dancing. W. J. Haney. 1,636,909; July 26.
- Shoe sole, Pneumatic. G. Manelas. 1,639,381; Aug. 16.
- Shoe-sole presses, Band press for. C. L. Huntoon. 1,634,996; July 5.
- Shoe soles, Apparatus for locating shank stiffeners in. R. E. Bartels. 1,647,979; Nov. 8.
- Shoe soles, Machine for. G. A. Holmes. 1,625,026; Apr. 19.
- Shoe soles, Machine for operating upon. M. F. Brogan. 1,639,720; Apr. 23.
- Shoe, Sporting. L. Deschamps. 1,634,611; July 5.
- Shoe squeaking, Device for stopping. F. E. Buck. 1,642,099; Sept. 13.
- Shoe stiffener. A. L. Clapp. 1,617,375; Feb. 15.
- Shoe stiffeners, Manufacturing. J. J. Daly. 1,613,314; Jan. 4.
- Shoe stiffeners, Manufacturing. F. Ricks. 1,620,784; Mar. 15.
- Shoe stretcher. A. J. Quist and B. A. Mellander. 1,637,915; Aug. 2.
- Shoe-string fastener. P. A. De Haan. 1,629,684; May 24.
- Shoe support and stretcher. S. J. Campbell. 1,646,137; Oct. 18.
- Shoe-supporting-jack mechanism. L. E. Topham. 1,616,718; Feb. 8.
- Shoe, Swimming. J. Feinauer. 1,633,169; June 21.
- Shoe, Swimming. G. Neoske. 1,636,316; July 19.
- Shoe, Swimming. J. Zimmer. 1,626,175; Apr. 26.
- Shoe, Swimming and running. R. Menschel. 1,627,521; May 3.
- Shoe tempering machine. D. B. Heath. 1,619,724; Mar. 1.
- Shoe tip. E. Frank. 1,651,345; Nov. 29.
- Shoe-tip machine. G. E. Moynue. 1,644,938; Oct. 11.
- Shoe-tip stiffener. J. F. Jonas. 1,638,283; Aug. 9.
- Shoe tongue and fastener. B. C. McEntee and L. H. Constant. 1,624,145; Apr. 12.
- Shoe tread. N. H. Nelson. 1,653,059; Dec. 20.
- Shoe-tree. S. Battilani. 1,631,736; June 7.
- Shoe-tree. C. A. Elmstrom. 1,651,329; Nov. 29.
- Shoe-tree. A. Scimonelli. 1,651,001; Nov. 29.
- Shoe-tree. J. L. Sommer and B. Biehl, sr. 1,641,935; Sept. 6.
- Shoe, Turn. A. P. Wilder and A. P. Fay. 1,615,496; Jan. 25.
- Shoe-upper sections, Method of and apparatus for marking. C. E. Edwards. 1,639,332; Aug. 16.
- Shoe-upper support. S. A. Eddins. 1,637,896; Aug. 2.
- Shoe uppers, Closure for. M. E. Bendelari. 1,643,108; Sept. 20.
- Shoe uppers, Individual toe expander for. E. O. Young. 1,621,617; Mar. 22.
- Shoes and innersole therefor, Making. F. L. Mackenzie. 1,638,946; Aug. 16.
- Shoes and other apparel, Lace joint for. F. Koslowski. 1,629,713; May 24.
- Shoes and the like, Fastening device for. J. R. Gammeter. 1,632,064; June 14.
- Shoes, Apparatus for cementing soles to. L. P. Taylor. 1,628,861; May 17.
- Shoes, Apparatus for drying. J. W. Quinn. 1,636,195; July 19.
- Shoes, Apparatus for operating on parts of. E. E. Sabin. 1,621,519; Mar. 22.
- Shoes, Applying heels to. J. A. and J. F. Kelly. 1,647,625; Nov. 1.
- Shoes, Automatic arch support for. H. C. Mayers. 1,652,034; Dec. 6.
- Shoes, Curved corded-edge tape for. P. F. Hesse. 1,639,376; Aug. 16.
- Shoes, Cushion lift for. J. B. Righter. 1,650,466; Nov. 22.
- Shoes, Foot bearing for. W. H. Nickerson. 1,634,116; June 28.
- Shoes, Heel for. L. Lazzarri and D. Saudino. 1,631,741; June 7.
- Shoes, Heeling. J. H. Pope. 1,631,155; June 7.
- Shoes, Last making. J. J. Allen. 1,634,815; July 5.
- Shoes, Lasting. B. Jorgensen. 1,653,290; Dec. 20.
- Shoes, Machine for leveling. B. P. Cooper. 1,615,869; Feb. 1.
- Shoes, Machine for operating on. S. P. Lovell. 1,635,627; July 12.
- Shoes, Machine for use in lasting. B. Jorgensen. 1,653,289; Dec. 20.
- Shoes, Making. C. C. Blake. 1,632,944; June 21.
- Shoes, Making. M. F. Brogan. 1,639,721; Aug. 23.
- Shoes, Making. G. M. Ray. 1,641,782; Sept. 6.
- Shoes, Making. L. E. Topham. 1,616,716; Feb. 8.
- Shoes, Making. L. E. Topham. 1,646,434; Oct. 25.
- Shoes, Making welt. C. A. Morin. 1,617,132; Feb. 8.
- Shoes, Manufacture of. H. D. Hamilton. 1,620,018; Mar. 8.
- Shoes, Manufacture of. J. J. Mahler and H. D. Webb. 1,640,362; Mar. 30.
- Shoes, Manufacture of. G. E. Warren. 1,649,272; Nov. 15.
- Shoes, Manufacture of. E. E. Winkley and H. A. Davenport. 1,644,971; Oct. 11.
- Shoes, Manufacturing. A. Hess. 1,647,914; Nov. 1.
- Shoes, Manufacturing rubber. E. W. Dunbar and H. Westling. 1,641,128; Aug. 30.
- Shoes, Method of and apparatus for treating. R. Davis. 1,647,277; Nov. 1.
- Shoes of shoe skates, Cover for. N. J. Matthews. 1,649,840; Nov. 22.
- Shoes or boots, Device for tying on. C. Pfersdorf. 1,635,341; July 12.
- Shoes, Ornamentation for. F. A. Ballou and R. T. Stafford. 1,650,104; Aug. 23.
- Shoes, Outsole for. E. R. Connelly. 1,636,044; July 19.
- Shoes, Polishing. F. Kingsley. 1,638,097; Aug. 9.
- Shoes, Removable half sole for. A. S. Sinko. 1,627,465; May 3.
- Shoes, Resilient material for soles and heeling. C. Emanuele. 1,642,847; Sept. 20.
- Shoes, Shank stiffener for. G. A. Hurley. 1,624,001; Apr. 12.
- Shoes, Shank stiffener for. J. F. Jonas. 1,637,943; Aug. 2.
- Shoes, Snipping and attaching bindings to tops for. J. Wood. 1,651,745; Dec. 6.
- Shoes, Stand for supporting. B. B. Bodden. 1,618,264; Feb. 22.
- Shoek-sorting machine. J. N. Bratton and W. N. Bryant. 1,624,389; Apr. 12.
- Shooting device, Self-defense. M. Hofmann. 1,618,978; Mar. 1.
- Shooting strips, Attaching. W. Leriche. 1,636,098; July 19.
- Shoop fronts, doors, windows and the like, Blind for. L. Shapiro. 1,643,074; Sept. 20.
- Shopping bag. G. H. Worth. 1,618,854; Feb. 22.
- Shore, Adjustable. H. H. Lampert. 1,622,038; Mar. 22.
- Shore, Adjustable. F. P. Maerk. 1,648,817; Nov. 8.
- Shore, Adjustable. C. M. Markham. 1,651,610; Dec. 6.
- Shoring device. E. J. Langham. 1,639,510; Aug. 16.
- Short-circuiter. E. P. Larsh. 1,640,900; Aug. 30.
- Short-circuiting device. P. M. Hengstenberg. 1,642,070; Sept. 13.
- Short-circuiting device. W. J. Krause. 1,630,491; May 31.
- Short-wave radiation into space, Arrangement for improving. A. Esau. 1,647,283; Nov. 1.
- Short waves, Frequency changer for. M. Osnos. 1,624,065; Apr. 12.
- Shortening mixer. P. D. Merrill. 1,615,308; Jan. 25.
- Shot-firing device, Electric. A. J. Marshall. 1,644,843; Oct. 13.
- Shotgun, Repeating. G. Strickler. 1,643,831; Nov. 8.
- Shotguns, Sighting attachment for. A. MacNaughton. 1,612,877; Jan. 4.
- Shot loader. G. W. Abraham. 1,645,638; Oct. 18.
- Shot pad. H. B. Latina. 1,640,042; Aug. 23.
- Shoulder ad. G. Rick. 1,631,694; June 7.
- Shoulder strap. A. Oberstebrink. 1,637,201; July 26.
- Shoulder strap. J. M. Van Heusen. 1,650,916; Nov. 29.
- Shoulder-strap fastener. M. M. Malder. 1,620,372; Mar. 8.
- Shoulder-strap retainer. J. McOrlin. 1,648,776; Nov. 8.
- Shouldering attachment. C. B. Warren. 1,631,444; June 7.
- Shovel. See—
- Ash-sifting shovel. Snow shovel.
- Mechanical shovel. Steam shovel.
- Power shovel.
- Shovel. M. Hokanson. 1,644,881; Oct. 11.
- Shovel. H. H. Miller. 1,645,656; Oct. 18.
- Shovel and making the same. M. Hokanson. 1,614,956; Jan. 18.
- Shovel handgrip. M. Hokanson. 1,648,685; Nov. 8.
- Shovel handle. H. L. Bassett. 1,648,714; Nov. 8.
- Shovel handle. L. E. Webster. 1,652,076; Dec. 6.
- Shovel or crane. C. B. Zollinger. 1,653,247; Dec. 20.
- Shovelling machine. A. T. Kennedy. 1,615,284; Jan. 25.
- Shovelling machine, Fluid-pressure-operated. A. G. Liebmann. 1,622,456; Mar. 29.
- Shovels, Machine for making. J. M. Denning. 1,615,326; Jan. 25.
- Shovels, Making. A. Milligan. 1,616,273; Feb. 1.
- Shovels, Making. W. E. Skelton. 1,614,498; Jan. 18.
- Shovels, Method and apparatus for testing. J. W. Williams. 1,629,858; Mar. 24.
- Show case. C. J. Abeln. 1,639,875; Aug. 23.
- Show case. F. Davis. 1,622,771; Mar. 29.
- Show case. J. C. Johnson. 1,641,335; Sept. 6.
- Show case. J. E. Mullen. 1,613,187-8; Jan. 4.
- Show case. J. Williams. 1,634,732; July 5.
- Show case, Knockdown. P. M. Mabe. 1,638,863; Aug. 16.
- Show-case lock. H. G. Michaelson. 1,642,685; Sept. 20.
- Shower baths, Inclosure for. M. J. Tracy. 1,622,988; Mar. 29.
- Showers, Producing luminous. H. Guérard. 1,658,701; Dec. 27.
- Shredded wheat biscuit. Marking. G. M. Anderson; 1,621,863; Mar. 22.
- Shredder, Cornstalk. T. E. Burner. 1,639,837; Aug. 23.
- Shredding and cutting machine, Brush. W. E. Goble. 1,648,341; Nov. 8.
- Shrimp machine. A. R. Adamson. 1,629,138; May 17.
- Shrimp-shelling machine. F. C. Bucknam. 1,627,479; May 3.
- Shrinking and felting felt articles, Method of and apparatus for. H. A. Genest. 1,620,957; Mar. 15.
- Shuffleboard construction. M. J. Sherry. 1,636,535; July 19.
- Shunt. C. G. Brown. 1,617,145; Feb. 8.
- Shunt, Instrument. W. A. Atwood. 1,614,174; Jan. 11.
- Shut-off, Automatic. V. A. Burrows. 1,653,983; Dec. 27.

- Shut-off, Automatic. J. A. Lockhart. 1,640,947; Aug. 30.
Shutter-controlling-mechanism. Swell. J. T. Austin. 1,639,324; Aug. 16.
Shutter, Focal-plane. O. Barnack. 1,652,553; Dec. 13.
Shutter for measuring-machine charts. G. C. Hosch. 1,619,935; Mar. 8.
Shutter hook and spring. Combined. E. J. Sibley. Des. 73,874; Nov. 15.
Shutter opening and closing device. J. C. Poetz. 1,635,008; July 5.
Shutter-operating device. C. H. Veeder. 1,645,673; Oct. 18.
Shutter-operating means. W. A. Collins. 1,640,233; Aug. 23.
Shutter or door. H. M. Vetterlein. 1,636,200; July 19.
Shutter, Radiator. W. A. Allen. 1,616,781; Jan. 25.
Shutter, Radiator. H. M. Yeager. 1,643,192; Sept. 20.
Shutter-release holder. L. Page. 1,633,155; June 12.
Shutter silencer. L. W. Wheeler. 1,616,244; Feb. 1.
Shutter, Window. L. Kocher. 1,638,344; Aug. 9.
Shutters, Safety catch for. C. Bornmann. 1,637,513; Aug. 2.
Shutting-off device and valve. O. Roschaneck. 1,649,735; July 16.
Shuttle. R. N. Allen. 1,643,860; Sept. 27.
Shuttle. L. Pavia. 1,630,355; May 31.
Shuttle. P. L. Spencer. 1,624,516; Apr. 12.
Shuttle. L. P. Spencer and W. H. Wilson. 1,636,841; July 26.
Shuttle block. F. H. Stetson. 1,621,439; Mar. 15.
Shuttle-eye guide plate. I. Snow. 1,635,728; July 12.
Shuttle-feeler thread part and clamp. F. W. Mathis. 1,625,546; Apr. 26.
Shuttle for badminton and the like. A. T. Saunders. 1,620,922; Mar. 15.
Shuttle locking and releasing control. A. Gaulard. 1,649,302; Nov. 15.
Shuttle provided with a hand or automatic threading device. C. Bourgeois. 1,621,101; Mar. 15.
Shuttle, Self-threading. H. Poirier. 1,638,505; Aug. 9.
Shuttle, Self-threading. A. Schottland. 1,615,314; Jan. 25.
Shuttle-tension. G. Brabs. 1,631,305; June 7.
Shuttle-tension device. F. Renzo. 1,647,542; Nov. 1.
Shuttle-tension device. A. Templeton. 1,637,359; Aug. 2.
Shuttle-throwing device. C. C. Farwell. 1,641,882; Sept. 6.
Shuttle tip. G. M. Cheney and J. D. Clarke. 1,618,569; Feb. 22.
Shuttle tip. E. E. Royal. 1,620,234; Mar. 8.
Shuttles, Tension device for. H. A. Davol. 1,654,115; Dec. 27.
Shuttles, Thread guide for. I. Snow. 1,613,487; Jan. 4.
Shuttles, Threading device for. A. Bernier. 1,627,308; May 3.
Sickle. J. C. Zeller. 1,629,428; May 17.
Sickle blades and the like. Handle and shank for. P. Allen. 1,617,004; Feb. 8.
Sickle holder. C. G. Fristad. 1,623,536; Apr. 5.
Sickle, books. Manner of making. M. R. Berger. 1,632,327; Feb. 14.
Sickle or scythe. Double-cutting-edge golf. C. A. Hopwood. 1,638,807; Aug. 9.
Sick-room outfit. A. J. Spillane. 1,648,086; Nov. 15.
Sideboard. M. Antrobus. Des. 72,465; Apr. 19.
Side frame. D. S. Barrows. 1,637,724; Aug. 2.
Side frame. C. Hankins. 1,621,249; Mar. 15.
Side frame. C. Hankins. 1,637,696; Aug. 2.
Side frame. B. W. Kadel. 1,628,544; May 10.
Side frame. M. H. Martin. 1,644,071; Oct. 4.
Side frame. P. J. McCullough. 1,642,965; Sept. 20.
Side-slip feeler controlled by box motion. W. H. Wakefield. 1,651,109; Nov. 29.
Sidewalk elevator. Counterweighted. A. J. Rosell. 1,628,556; May 10.
Sieve, Rotary. A. J. Paynter. 1,633,126; June 21.
Sifter. Flour. A. Di Lorenzo. 1,617,797; Feb. 15.
Sifter. Flour. F. K. Lauterbach. 1,612,976; Jan. 4.
Sifter. Flour. P. J. Leonard and F. J. Connor. 1,630,853; May 31.
Sifter. Flour. T. O. Nall and E. J. Beauvais. 1,631,105; May 31.
Sifter-top can. J. M. Hotherhall. 1,649,230; Nov. 15.
Sifting device. W. Elmenthaler. 1,646,787; Oct. 25.
Siftproof bag. T. M. Avery. 1,619,177; Mar. 1.
Sighting device. B. Henderson. 1,628,776; May 17.
Sign. H. F. Anderson. 1,616,163; Feb. 1.
Sign. E. P. Arnold. 1,650,177; Nov. 22.
Sign. F. H. Auld. 1,628,349; May 10.
Sign. H. C. Bloomingdale. 1,653,033; Dec. 20.
Sign. W. A. Burns. 1,619,189; Mar. 1.
Sign. G. Clark. 1,651,084; Nov. 29.
Sign. P. D. Egan. 1,637,988; Aug. 2.
Sign. A. C. Elphinstone. 1,639,689; Aug. 23.
Sign. C. E. Faye. 1,623,588; Apr. 5.
Sign. C. A. Forsyth. 1,622,637; Mar. 29.
Sign. D. M. Goetschius. 1,654,370; Dec. 27.
Sign. J. R. Grob. 1,642,022; Dec. 13.
Sign. L. Hall. 1,652,476-7; Dec. 13.
Sign. A. H. Humphrey. 1,621,412; Mar. 15.
Sign. A. H. Humphrey. 1,627,437; May 3.
Sign. M. R. Leahy. 1,652,207; Dec. 13.
Sign. J. Lemke, jr. 1,625,216; Apr. 19.
Sign. L. R. Long. 1,637,579; Aug. 2.
Sign. H. G. Russell. Des. 74,123; Dec. 20.
Sign. E. Sharp, jr. 1,629,229; May 17.
Sign. W. H. Smith. 1,637,626; Aug. 2.
Sign. R. A. Thompson. 1,649,268; Nov. 15.
Sign. W. E. Schneider. 1,648,977; Nov. 15.
Sign. H. H. Wineburg. 1,651,429; Dec. 6.
Sign, Advertising. L. R. Anderson. 1,631,782; June 7.
Sign, Advertising. J. F. Boillot. 1,641,914; Sept. 6.
Sign, Advertising. J. E. Bollman. 1,634,568; July 5.
Sign, Advertising. S. A. Gill. Des. 72,148; Mar. 8.
Sign, Advertising. J. Sieber. 1,646,500; Oct. 25.
Sign, its manufacture. Perforated illuminated. H. Globus. 1,647,090; Oct. 25.
Sign and producing the same. Display. S. Cornett. 1,634,174; June 28.
Sign, Block-letter. W. G. Shelton. 1,654,350; Dec. 27.
Signboard. G. B. Cleveland. 1,639,129; Aug. 16.
Signboard. Aquatic. J. E. Cramer. 1,628,338; May 10.
Signboard or article of similar nature. P. D. Griggs. Des. 71,791; Jan. 4.
Sign, Changeable. H. H. Early. 1,620,450; Mar. 8.
Sign-changing exhibitor. A. G. and R. Mariolle. 1,617,308; Feb. 8.
Sign, Commercial. E. M. Clark. 1,638,564; Aug. 9.
Sign-composing device. L. A. Graham and C. L. Low. 1,626,815; May 3.
Sign control, Electric. F. E. J. Wilde. 1,626,000; May 3.
Sign controller, Electric. H. Hirsch. 1,651,275; Nov. 29.
Sign, Display. A. Bartolomucci. 1,650,055; Nov. 22.
Sign-display case. H. C. Chevalier. Des. 72,203; Mar. 15.
Sign, Electric. F. Archia. 1,629,467; May 24.
Sign, Electric. J. E. Long. 1,650,875; Nov. 29.
Sign, Electric. H. Mock. 1,648,957; Nov. 15.
Sign, Electric. J. Pedersen. 1,627,993; May 10.
Sign, Electric. F. E. J. Wilde. 1,626,893; May 3.
Sign, Electrically-illuminated. J. M. Gluchart. 1,651,883; Dec. 6.
Sign exhibitor, Movable. A. J. Gutierrez. 1,623,837; Apr. 5.
Sign, Hanging. J. E. Shippis. 1,618,312; Feb. 22.
Sign holder. M. Dyer. 1,634,744; July 5.
Sign holder. C. T. Marton. 1,646,414; Oct. 25.
Sign holder. S. Steinman. 1,627,350; May 3.
Sign, Illuminated. R. Austin. 1,644,663; Oct. 11.
Sign, Illuminated. E. Carraine. 1,625,708; Apr. 19.
Sign, Illuminated. J. Hotchner. 1,633,785; June 28.
Sign, Illuminated. C. G. Keenan. 1,626,286; Apr. 26.
Sign, Illuminated. E. J. and C. F. Kreiss. 1,620,472-3; May 3.
Sign, Illuminated. E. Lowinger. 1,654,337; Dec. 27.
Sign, Illuminated. E. P. MacNicol. 1,643,506; Sept. 27.
Sign, Illuminated. M. Norden. 1,626,958; May 3.
Sign, Illuminated. H. C. Osborn. 1,620,386; Mar. 8.
Sign, Illuminated. S. A. Rice. 1,628,312; May 10.
Sign, Illuminated. P. E. Schnormeier. 1,649,547; Nov. 15.
Sign, Interchangeable. F. Moynihan. 1,644,742; Oct. 11.
Sign, Luminous electric. F. H. Beles and H. M. Duchard. 1,616,309; Feb. 1.
Sign-making device. J. Kaji. 1,633,703; June 28.
Sign-making device. Electric advertising. R. E. Benham and H. B. Ross. 1,633,883; June 28.
Sign, Moving display. L. R. Ports. 1,649,075; Nov. 15.
Sign or advertising device. Changeable. S. Katz. 1,631,870; June 7.
Sign or signal, Illuminated. P. H. Schulz and C. Jessen. 1,635,835; Jul. 12.
Sign, Price. W. R. Brookins. 1,617,100; Feb. 8.
Sign, Revolving. A. E. Kline. 1,618,343; Feb. 22.
Sign, Road. D. M. Alexander. Des. 72,880; June 21.
Sign, Road. J. P. Gommels. Des. 73,694; Oct. 25.
Sign, Side-reading illuminated. E. P. Vincent. 1,627,528; May 3.
Sign, Spare-tire advertising. R. A. Taniel. 1,645,940; Oct. 18.
Sign, Street. H. C. Gatchell. 1,643,552; Sept. 27.
Sign support for temporary structures. E. Pitou. 1,643,585; Sept. 27.
Sign system, Advertising. W. F. Hendry. 1,654,255; Dec. 27.
Sign, Traveling. A. G. Sharkey. 1,650,659; Nov. 29.
Signs, Apparatus for producing series of. A. G. Damm. 1,644,239; Oct. 4.
Signs, Device for making. J. Bagnall and P. G. Cope-man. 1,647,824; Nov. 1.
Signs, the air and product, Producing advertising. J. Reid. 1,621,482; Mar. 15.
Signs, Making. A. E. Vaughn. 1,646,565; Oct. 25.
Signs, Receiver for heat. R. Mechau. 1,639,411; Aug. 16.
Signs to materials. Producing and affixing. F. Hart. 1,634,617; July 5.
Signal. See.
Alarm signal.
Auto signal.
Auto traffic signal.
Automobile safety signal.
Automobile semaphore sig-
Automobile signal.
Car signal.
Colored-vapor signal.
Crossing signal.
Danger signal.
Direction signal.
Electric audible signal.
Electric signal.
Hollow-arm signal.
Light signal.
Magnetically-operated signal.
Mail-box signal.
Rail-clamp signal.
Railway-crossing signal.
Railway signal.
Reflecting signal.

- Signal: See—
 Road signal.
 Roadside signal.
 Safety signal.
 Switchboard signal.
 Thermostatic signal.
- Signal. A. E. Ashleman and T. E. Haney. 1,646,675; Oct. 25.
- Signal. F. A. Brown. 1,626,913; May 3.
- Signal. J. L. Lamont. 1,641,855; Sept. 6.
- Signal. J. S. McLean. 1,642,934; Sept. 20.
- Signal. H. L. Nichol. 1,630,405; May 31.
- Signal. M. H. Peacock. 1,651,408; Dec. 6.
- Signal. E. C. Pomeroy. 1,630,802; May 31.
- Signal. J. A. D. Rosiers. 1,640,266; Aug. 23.
- Signal. C. Stiles. 1,639,907; Aug. 23.
- Signal. H. G. Tuthill. 1,627,925; May 10.
- Signal. T. F. Vest. 1,629,693; Apr. 19.
- Signal. A. D. Wagner. 1,635,912; July 12.
- Signal and stop light, Casing for a direction. J. C. Nordgran. Des. 72,329; Mar. 29.
- Signal and train-control system, Cab. M. H. Loughridge. 1,622,285; Mar. 29.
- Signal apparatus. R. W. Bursall. 1,624,923; Apr. 19.
- Signal apparatus, Automobile. M. S. Park. 1,651,540; Dec. 6.
- Signal apparatus for railways and highways. E. D. Scarborough. 1,645,875; Oct. 18.
- Signal arm. A. Sesto and J. Loiacono. Des. 73,210; Aug. 2.
- Signal ball. A. J. Rubin. 1,620,290; Mar. 8.
- Signal box. B. Edson. Des. 72,061; Feb. 22.
- Signal box. J. S. Moore. Des. 73,743; Oct. 4.
- Signal cas. T. A. Lumley and H. A. Butts. Des. 74,065; Dec. 13.
- Signal casing and radiator cap, Combined. P. McManaman and J. Namet. Des. 73,140; July 26.
- Signal casing and tag holder, Combined. P. McManaman and J. Namet. Des. 73,141; July 26.
- Signal casing, Combination. R. L. Barton. Des. 73,120; July 26.
- Signal casing, Direction-. J. W. Dunlap. Des. 72,476; Apr. 19.
- Signal control, Method and system of vibratory. J. P. Turbox. 1,628,077; May 10.
- Signal device. W. G. Keith. Des. 71,801; Jan. 4.
- Signal device. J. M. Mele. 1,624,963; Apr. 19.
- Signal device. E. H. Pitney. 1,630,633; May 31.
- Signal device. B. Watts. 1,653,325; Dec. 20.
- Signal device. W. W. Wingo. 1,617,000; Feb. 8.
- Signal device, Automatic. J. R. Tollinson. 1,630,144; May 24.
- Signal device, Motor-vehicle. O. R. Dinmore. 1,648,581; Nov. 8.
- Signal device, Order-. J. D. Kelly. 1,617,850; Feb. 15.
- Signal device, Reflecting-. T. L. Boyden. 1,652,138; Dec. 6.
- Signal device, Safety. N. W. Wainwright. 1,649,997; Nov. 22.
- Signal faceplate. J. Neu. Des. 73,413; Sept. 6.
- Signal for chokers and the like. E. B. Wilcox. 1,628,209; May 10.
- Signal for fuel-supply systems. J. D. Sartakoff. 1,633,008; June 28.
- Signal for motor cars. T. J. O'Leary. 1,620,385; Mar. 8.
- Signal for railway crossings, public highways, and the like. Electric. B. J. Shald. 1,625,873; Apr. 26.
- Signal lamp and supporting bracket for automobiles and other vehicles, Combined. C. Rittenhouse, jr. Des. 73,098; July 19.
- Signal lantern and lens therefor. A. H. Handlan. 1,627,895; May 10.
- Signal light. J. E. Wood. 1,626,710; May 3.
- Signal light, Auto. C. A. Cray. 1,651,554; Dec. 6.
- Signal-light casing. R. S. Hayes. Des. 74,107; Dec. 20.
- Signal-light casing. V. Scatena. Des. 73,805; Nov. 8.
- Signal-light casing, Vehicle. A. Swanson. Des. 73,150; July 26.
- Signal-light switch. C. J. Himel. 1,613,891; Jan. 11.
- Signal light, Telephone. W. H. Dillon. 1,650,699; Nov. 29.
- Signal lights to flicker, Device for causing vehicle. S. Gobos. 1,620,959; Mar. 15.
- Signal-operating means, Attachment for. H. L. Furr. 1,642,237; Sept. 13.
- Signal-operating mechanism. E. J. Cain. 1,638,827; Aug. 16.
- Signal plant, Mine. F. Scheffer. 1,614,257; Jan. 11.
- Signal-receiving circuits. E. L. Powell. 1,624,148; Apr. 12.
- Signal-receiving system. F. W. Dunmore. 1,635,117; July 5.
- Signal switch. H. J. Cohen. 1,617,376; Feb. 15.
- Signal switch. E. Miller. 1,644,538; Oct. 4.
- Signal switch. G. J. Tockwin. 1,634,347; July 5.
- Signal switch, Air-operated. W. L. Slayton. 1,615,853; Feb. 1.
- Signal switch, Automobile direction. S. Caminita. 1,624,828; Apr. 12.
- Signal switch, Collision-. O. C. and E. R. Stump. 1,625,505; Apr. 19.
- Signal switch, Traffic. J. M. Gallus and J. J. Scheits. 1,620,456; Mar. 8.
- Signal system. E. E. Salisbury. 1,645,353; Oct. 11.
- Signal system, Automatic. F. Gilday and W. J. Duffy. 1,627,380; May 3.
- Signal system, Coordinating. J. E. Robin. 1,645,024; Oct. 11.
- Signal system for railways. H. B. Worster. 1,650,858; Nov. 29.
- Signal system, Police. W. E. Frost. 1,631,368; June 7.
- Signal systems, Call switch for hospital. W. P. Crockett. 1,620,951; Mar. 15.
- Signal systems, Transformer for open and closed. W. F. Leather. 1,645,958; Oct. 18.
- Signal transmission system. A. H. Taylor. 1,628,009; May 10.
- Signal transmitter. F. Rizzo. 1,630,764; May 31.
- Signal transmitter, Electric. C. H. Kesses. 1,637,080; July 26.
- Signaling. R. C. Mathes. 1,631,976; June 14.
- Signaling and advertising device, Combined. E. H. Medén. 1,622,730; Mar. 29.
- Signaling apparatus. C. A. Hoxie. 1,653,099; Dec. 20.
- Signaling apparatus. W. G. Lamb. 1,640,129-30; Aug. 23.
- Signaling apparatus. R. B. Pollock. 1,647,663; Nov. 1.
- Signaling apparatus for road traffic. A. Cléret. 1,637,684; Aug. 2.
- Signaling apparatus, Railway. P. H. Gelger. 1,620,015; Mar. 8.
- Signaling apparatus, System of synchronizing. A. L. 1,641,600; Oct. 18.
- Signaling apparatus, Vehicle. A. M. Schick. 1,631,698; June 7.
- Signaling, Carrier-wave. R. C. Mathes. 1,624,495; Apr. 12.
- Signaling conductor, Loaded. J. G. Roberts. 1,623,555; Apr. 12.
- Signaling conductor system and operation. O. E. Buckley. 1,624,470; Apr. 12.
- Signaling current, Modulating. E. L. Chaffee. 1,625,296; Apr. 19.
- Signaling device. G. H. Daugherty. 1,630,730; May 31.
- Signaling device. M. Goldman and R. Karaban. 1,629,380; May 17.
- Signaling device. W. T. Marcott. 1,637,779; Aug. 2.
- Signaling device. C. E. Myers. 1,633,868; June 28.
- Signaling device. C. Taylor. 1,628,756; May 17.
- Signaling device. J. Weech. 1,620,147; Mar. 8.
- Signaling device, Railway. J. Bennewitz. 1,649,441; Nov. 15.
- Signaling device, Thermally-controlled. F. C. Leonard and V. Rietz. 1,636,698; July 26.
- Signaling. High-frequency. P. M. J. Boucherot. 1,624,208; Apr. 12.
- Signaling installation, Sound-. J. P. Northey. 1,619,585; Mar. 1.
- Signaling means. F. Satterstrom. 1,639,112; Aug. 16.
- Signaling means, Electrical. H. W. Slauson. 1,633,043; June 21.
- Signaling mechanism. R. A. Neuschotz. 1,640,286; Aug. 23.
- Signaling mechanism. H. Smith. 1,616,877; Feb. 8.
- Signaling mechanism. N. H. Suren. 1,616,879; Feb. 8.
- Signaling method and system. R. V. L. Hartley. 1,624,596; Apr. 12.
- Signaling, Multiplex. A. J. Kloneck. 1,623,479; Apr. 5.
- Signaling, Railway. R. M. Gilson. 1,646,401; Oct. 25.
- Signaling, Railway. L. O. Grundahl. Rel. 6,744; Sept. 27.
- Signaling, Secret. R. E. Goram. 1,632,058; June 14.
- Signaling, Secret. J. C. Schelleng. 1,632,099; June 14.
- Signaling system. E. Austin. 1,641,725; Sept. 6.
- Signaling system. C. E. Beach. 1,627,685; May 10.
- Signaling system. R. Brown. 1,637,404; Aug. 2.
- Signaling system. A. C. Burkholder. 1,624,579; Apr. 12.
- Signaling system. A. C. Cloyey. 1,616,807; Feb. 8.
- Signaling system. L. E. Cook. 1,632,507; June 14.
- Signaling system. A. M. Curtis. 1,624,395; Apr. 12.
- Signaling system. A. M. Curtis. 1,629,093; May 17.
- Signaling system. A. M. Curtis. 1,632,275; June 14.
- Signaling system. A. M. Curtis. 1,639,929; Aug. 23.
- Signaling system. J. C. Field. 1,618,844; Jan. 11.
- Signaling system. J. C. Field. 1,647,284; Nov. 1.
- Signaling system. E. M. Hewlett and W. W. Willard. 1,634,941; July 5.
- Signaling system. R. Hill. 1,634,287; July 5.
- Signaling system. J. S. Langmar. 1,632,078; June 14.
- Signaling system. I. Langmuir. 1,615,638; Jan. 25.
- Signaling system. G. A. Locke. 1,613,956; Jan. 11.
- Signaling system. G. A. Locke. 1,616,589; Feb. 8.
- Signaling system. G. A. Locke. 1,618,466; Feb. 22.
- Signaling system. F. A. Miller. 1,630,962; May 31.
- Signaling system. T. A. Mollard. 1,613,302; Jan. 11.
- Signaling system. H. W. O'Neill. 1,617,414; Feb. 15.
- Signaling system. E. F. Potter. 1,614,491; Jan. 18.
- Signaling system. H. E. Shreeve. Rel. 6,835; Dec. 27.
- Signaling system. J. F. Toomey. 1,644,761; Oct. 11.
- Signaling system. E. F. Watson. 1,629,559; May 24.
- Signaling system. C. G. Von Zastrow. 1,647,760; Nov. 1.
- Signaling system. F. Zogbaum. 1,632,106; June 14.
- Signaling system. F. Zogbaum. 1,638,559; Aug. 9.
- Signaling system. F. Zogbaum. 1,653,031; Dec. 20.
- Signaling system, Apparatus. A. F. F. Gilson. 1,653,898; Dec. 27.
- Signaling system, Carrier. R. A. Heising. 1,654,080; Dec. 27.

- Signaling system, Carrier-current. D. G. Little. 1,640,550; Aug. 30.
- Signaling system, Carrier-current. H. Nyquist. 1,619,085; Mar. 1.
- Signaling system, Carrier-wave. H. S. Black. 1,620,029; Mar. 15.
- Signaling system, Carrier-wave. R. A. Heising. 1,620,656; Mar. 15.
- Signaling system, Carrier-wave. J. W. Horton. 1,636,134; July 19.
- Signaling system, Carrier-wave. J. S. Jammer. 1,613,951; Jan. 11.
- Signaling system, Carrier-wave. H. M. Pruden. 1,624,506; Apr. 12.
- Signaling system, Electric. J. T. Donahoe. 1,628,493; May 10.
- Signaling system, High-frequency. H. A. Affel. 1,615,896; Feb. 1.
- Signaling system, High-frequency. E. F. W. Alexander-son. 1,648,711; Nov. 8.
- Signaling system, High-frequency. I. F. Byrnes. 1,631,670; June 7.
- Signaling system, High-frequency. L. M. Clement. 1,624,473; Apr. 12.
- Signaling system, High-frequency. L. Espenschied. 1,638,925; Aug. 16.
- Signaling system, High-frequency. H. Keyl. 1,645,956; Oct. 18.
- Signaling system, Multiplex. H. Nyquist. 1,620,735; Mar. 15.
- Signaling system, Selective. G. W. Flynn. 1,638,330; Aug. 9.
- Signaling system, Traffic. J. J. Ruddick. 1,641,694; Sept. 6.
- Signaling system, Trunk. L. L. Eagon. 1,632,826; June 21.
- Signaling system, Vacuum-tube. S. Lowe. 1,652,486; Dec. 13.
- Signaling system, Wave. L. A. Hazeltine. 1,649,589; Nov. 15.
- Signal transmitter. E. E. Kleinschmidt. 1,632,298; June 14.
- Signals, Apparatus for transmitting the position of. C. Bergfeld. 1,643,800; Sept. 27.
- Signals, Control means for light. J. A. Peabody. 1,627,463; May 3.
- Signals, Controlling apparatus for highway crossing. S. B. Young. 1,636,348; July 19.
- Signals for engine-temperature indicators, Device for producing flashing. F. G. Whittington. 1,653,685; Dec. 27.
- Signals in radio dynamic receiving systems, Changing the intensity of. J. H. Hammond, Jr., and E. L. Chaffee. 1,649,775; Nov. 15.
- Signals, Transmitting. J. W. Horton. 1,638,580; Aug. 9.
- Signature-feeding mechanism. M. Christensen. 1,614,715; Jan. 18.
- Signature-handling apparatus. M. Christensen. 1,614,717; Jan. 18.
- Signature machine. F. J. Greene. 1,641,482; Sept. 6.
- Signature-stitching machine. R. G. Hoffert. 1,651,122; Nov. 29.
- Silencer. H. P. Maxim. 1,636,238; July 19.
- Silencer. H. P. Maxim. 1,637,385; Aug. 2.
- Silencer. H. P. Maxim. 1,639,047; Aug. 16.
- Silencer for motor cars generally, Self-sucking. D. Moia. 1,651,145; Nov. 20.
- Silica articles, Process and apparatus for producing. H. L. Watson. 1,621,446; Mar. 15.
- Silica, Molding. L. B. Miller. 1,628,417; May 10.
- Silica, Producing high-grade vitreous. H. L. Watson. 1,645,080; Oct. 11.
- Silica, Producing vitreous. L. B. Miller. 1,628,468; May 10.
- Silica receptacle and process of manufacture. H. A. Wayringer. 1,624,699; Apr. 12.
- Siliceous composition of matter. H. A. Endres and L. Caldwell. 1,613,448; Jan. 4.
- Silicic acids and products thereof, Making. B. Gebauf and H. W. Walker. 1,617,708; Feb. 15.
- Silicon-carbide article and making same. R. H. Martin. 1,653,918; Dec. 27.
- Silicon-iron and aluminum-copper alloys, Production of. F. D. Shumaker. 1,644,000; Oct. 4.
- Silk and its production, Weighted artificial. G. Rivat. 1,631,062; May 31.
- Silk and the like, Apparatus for use in the manufacture of artificial. D. A. McKenzie. 1,648,619; Nov. 8.
- Silk and the like from viscose solutions, Manufacture of artificial. W. P. Dreaper. 1,626,454; Apr. 26.
- Silk and the like, Manufacture of artificial. F. C. Niederhauser and A. E. Sonderland. 1,625,562; Apr. 19.
- Silk and viscose, Centrifugal apparatus for spinning artificial. H. J. Eley. 1,651,683; Dec. 6.
- Silk and yarn thread tensioning and waxing device. W. Noga. 1,624,844; Apr. 12.
- Silk, Apparatus for use in the manufacture of artificial. F. V. Schubert. 1,619,769; Mar. 1.
- Silk, Decumming. L. Wallerstein. 1,644,764; Oct. 11.
- Silk-dressing machine. H. White. 1,634,476; July 5.
- Silk, Dyeing. E. L. Maupal. 1,635,761; July 12.
- Silk, Dyeing artificial. J. Raddley, P. Chorley and C. Butler. 1,653,757; Dec. 27.
- Silk, Dyeing or printing acetate. O. Spengler, P. Virck and R. Weidenhagen. 1,615,242; Jan. 25.
- Silk from viscose, Manufacture of artificial. W. Mendel. 1,645,625; Oct. 25.
- Silk, Manufacture of artificial. E. Elsaesser and A. Hartmann. 1,646,788; Oct. 25.
- Silk, Manufacture of artificial. C. C. Jessen. 1,621,590; Mar. 22.
- Silk, Manufacture of artificial. F. W. Schubert. 1,619,768; Mar. 1.
- Silk, Manufacture of artificial. F. W. Schubert. 1,631,835; June 7.
- Silk, Manufacturing artificial. M. Hölken, Jr. 1,641,588; Sept. 6.
- Silk or the like, Manufacture of artificial. J. O. Zdanovich. 1,630,285; May 31.
- Silk pieces, Goods and dyeing it, Washable. J. Seyer. 1,615,520; Jan. 25.
- Silk, Spinning artificial. H. P. Bassett and T. F. Bantgan. 1,642,291; Sept. 13.
- Silk-thread-making apparatus, Artificial. W. H. Furness. 1,647,791; Nov. 1.
- Silk, Treating artificial. F. W. Schubert. 1,651,229; Nov. 29.
- Silk, Treating tussah. W. H. Schweltzer. 1,634,757; July 5.
- Silk, yarn, or the like, Apparatus for drying artificial. E. S. Teed. 1,643,594; Sept. 27.
- Silks, Manufacture of artificial. D. A. McKenzie. 1,630,197; May 24.
- Sillimanite-bonded granular material and making the same, Article of. M. C. Booze. 1,616,525; Feb. 8.
- Silo. W. D. Bayley. 1,637,018; July 26.
- Silo. A. Vallentin. 1,617,555; Feb. 15.
- Silo. C. C. Woody. 1,642,003; Sept. 13.
- Silver extractor. I. K. Kreider. 1,634,585; July 5.
- Silver from photographer's spent hypophosphite solution, Process and apparatus for recovering. E. K. Giffen. 1,629,212; May 17.
- Silver, Preparing stable colloidal solutions of. W. Traxl. 1,633,466; June 21.
- Silver-tannin-albumen combination soluble in water, Producing colloidal. H. Cohn and C. Siebert. 1,653,087; Dec. 20.
- Silverware, etc., Shipping and display device for. J. L. Lee. 1,614,740; Jan. 18.
- Sine wave extractor. J. A. MacDonnell. 1,629,349; May 17.
- Singeing apparatus. E. J. Zlock. 1,644,808; Oct. 11.
- Single-chamber clearance unloader. W. Freilwitz. 1,625,691; Apr. 19.
- Sink. P. A. Gandillon. 1,614,358; Jan. 11.
- Sink and dishwashing machine, Combined. C. A. Murdoch. 1,645,815; Oct. 18.
- Sink and faucet, Combination. B. G. Stern. 1,651,104; Nov. 29.
- Sink and refrigerator, Combination. C. R. Carrick. Dec. 73,776; Nov. 8.
- Sink attachment. R. W. Borchard. 1,649,212; Nov. 15.
- Sink fixture. F. F. Burritt. 1,637,320; July 26.
- Sink, Foldable. W. N. Grover. 1,648,386; Nov. 8.
- Sink, stopple and soap dish, Combined. W. F. Schacht. 1,628,860; Mar. 29.
- Sink structure. I. Fuson. 1,635,361; July 12.
- Sink, washbasin, and the like. F. S. Corrigan. 1,635,311; July 12.
- Sinker. H. Lowry. 1,618,100; Feb. 15.
- Sinking shaft and bore holes. W. G. Minuth. 1,636,313; July 19.
- Sintering apparatus. T. M. Alexovits. 1,617,561; Feb. 15.
- Sintering machine. J. Knox. 1,618,205; Feb. 22.
- Siphon. C. R. Hall. 1,635,477; July 12.
- Siphon. J. H. Palmer. 1,627,451; May 3.
- Siphon and like recorder. J. Riddle. 1,628,913; May 17.
- Siphon, Automatic. J. F. Rottger. 1,634,518; July 5.
- Siphon device. W. F. Brown. 1,636,123; July 19.
- Siphon for flush tanks. D. W. Allman. 1,618,362; Feb. 22.
- Siphon holder. G. V. Gavazza. 1,627,734; May 10.
- Siphon recorder. E. Blakeney. 1,630,324; May 31.
- Siphon starter and automatic shut-off. J. Mohr. 1,623,260; Apr. 5.
- Siphons, Expansion and contraction anchorage for thermic. J. L. Nicholson. 1,643,128; Sept. 20.
- Siren. W. J. Cammack. 1,633,569; June 28.
- Siren. T. Decot. 1,624,587; Apr. 12.
- Siren. R. R. McClure. 1,618,210; Feb. 22.
- Slrup maker. F. B. Lomax. 1,649,834; Nov. 22.
- Slrup, Manufacturing. W. F. Cole. 1,647,082; Oct. 25.
- Slrup-pitcher attachment. W. I. Shockley. 1,648,068; Nov. 8.
- Slruping-off pan. J. C. Fox. 1,647,908; Nov. 1.
- Size-gauging machine. H. A. Seabright. 1,645,118; Oct. 11.
- Sizing apparatus. E. A. White. 1,652,460; Dec. 13.
- Sizing composition for coating purposes. F. R. M., and A. Hervé. 1,615,584; Jan. 25.
- Skate. J. Lunn. 1,650,222; Nov. 22.
- Skate. H. Ritow. 1,620,232; Apr. 8.
- Skate. S. Walslow. 1,646,843; Apr. 8.
- Skate, Bicycle. F. B. Fisher. 1,653,558; Dec. 20.
- Skate machine. W. K. Howe. 1,635,577; July 12.
- Skate, Roller. J. Biggio. 1,617,984; Feb. 15.
- Skate, Roller. J. Dahl. 1,616,952; Feb. 8.
- Skate, Roller. F. M. Dore. 1,618,069; Feb. 15.
- Skate, Roller. G. R. Salber. 1,640,134; Aug. 23.
- Skate, Roller. H. F. Whitcomb, Jr. 1,640,476; Aug. 30.

- Skate, Roller ball. E. G. de Festenburg and A. G. de Festenburg. 1,616,442; Feb. 8.
- Skate, Wheel. T. J. Connolly. 1,632,997; June 21.
- Skater's article. W. W. Warner. 1,634,061; June 28.
- Skating device. J. Stetson. 1,628,004; May 10.
- Skating-rink floor. G. C. Funk and M. J. Falson. Re-1,654,543; Feb. 8.
- Skating rink, Ice. G. C. Funk. 1,634,938; July 5.
- Skates and the like, Tie device for snow. J. C. Miller and R. H. Fayfield. 1,612,874; Jan. 4.
- Skein-winding machine. J. F. Schenck, sr. 1,631,893; June 7.
- Skew arch. D. B. Luten. 1,634,548; July 5.
- Skid. A. A. Casner. 1,613,309; Jan. 4.
- Ski binding. C. Seeborg. 1,654,272; Dec. 27.
- Ski harness. A. J. Palmquist. 1,615,032; Jan. 18.
- Ski tie. E. M. Eriksen. 1,626,521; Apr. 26.
- Skid. N. J. McMahon. 1,652,906; Dec. 13.
- Skid. C. H. Young. 1,618,257; Feb. 22.
- Skid chain. A. Betzinger. 1,613,922; Jan. 11.
- Skid-chain fastener. F. H. McBride. 1,615,845; Feb. 1.
- Skidding-preventing device. L. M. Crews. 1,627,768; May 10.
- Skin cleaner. M. Crawford. 1,651,085; Nov. 29.
- Skins and leather. Apparatus for stretching. I. M. Jones. 1,632,551; June 14.
- Skins, Degreasing. C. A. Brown and G. J. Esselen, jr. 1,640,478; Aug. 30.
- Skins in imitation of more expensive furs. Treating app. Nathan. 1,642,505; Sept. 13.
- Skins, leather, and other materials, Apparatus for stretching and drying. E. E. Kornitz. 1,620,821; Mar. 15.
- Skip-hoist and tram-car equipment. A. Warner. 1,633,299; June 21.
- Skirt gauge. J. B. Wells. 1,627,588; May 10.
- Skirt-length gauge. C. W. Hobbs, jr. 1,616,046; Feb. 1.
- Slaving apparatus. W. H. Ray and M. L. Strawn. 1,643,089; Sept. 20.
- Slaving machine. C. H. Ballard. 1,652,513; Dec. 13.
- Slaving machine. C. E. Thibaudau. 1,636,722; July 26.
- Slaving machines, Chip deflector for. L. B. Hooper. 1,638,933; Aug. 16.
- Skull-shaping means. B. Billet and S. Heilwell. 1,651,436; Dec. 6.
- Skylight. B. Goldman. 1,642,675; Sept. 20.
- Skylight. F. Hoefel. 1,634,288; July 5.
- Skylight. R. P. Holys. 1,651,391; Dec. 6.
- Skylight. I. C. Steinberg. 1,636,018; July 19.
- Skylight. S. Volk. 1,638,668; Aug. 9.
- Skylight construction, Collapsible. J. Sylvan. 1,612,995; Jan. 4.
- Skylight sections and the like, Actuating mechanism for. A. B. Blaski. 1,653,336; Dec. 20.
- Skirting, Apparatus for. E. Thoresen. 1,632,153; June 14.
- Slack adjuster. W. F. McCoy and P. W. Ripple. 1,652,077; Dec. 13.
- Slack adjuster. W. H. Sauvage. 1,618,783; Feb. 22.
- Slack adjuster. W. H. Sauvage. 1,645,777; Oct. 18.
- Slack adjuster, Automatic. H. A. Leonhauser. 1,631,969; June 14.
- Slag-casting apparatus. W. T. Hurst. 1,616,855; Feb. 8.
- Slag cement, Manufacturing. J. G. Harding. 1,627,237; Mar. 29.
- Slags by fluids under pressure, Treatment of. M. Maguet. 1,627,982; May 10.
- Sled. W. H. Elfreth and G. B. Weiss. Des. 73,225; Aug. 9.
- Sled. J. C. Robinson. 1,613,722; Jan. 11.
- Sled and wagon. E. H. and E. Kenney. 1,622,789; Mar. 29.
- Sled brake. J. V. Tobin. 1,628,693; May 17.
- Sled, Coaster. J. H. Seiter. 1,635,641; July 12.
- Sled, Motor. A. I. Sylvester. 1,649,873; Nov. 22.
- Sled, Push. M. O. Carlson. 1,633,362; June 21.
- Sleds, Brake for. D. R. Limbers. 1,614,137; Jan. 11.
- Sleds, Braking device for. H. Ruzicka. 1,630,970; May 31.
- Sleds, Wheel attachment for. P. Killinger. 1,637,999; Aug. 2.
- Sleeper anchor. W. E. White. Re1,657,2; Mar. 15.
- Sleeper anchor. W. E. White. 1,621,475; Mar. 15.
- Sleeping bag. M. B. Millar. 1,653,815; Dec. 27.
- Sleeping car. A. R. Rossman. 1,647,584; Nov. 1.
- Sleeping mat. S. C. Morehouse. 1,624,797; Apr. 12.
- Sleeve coupling, Boltless. F. W. Daniel, sr. 1,631,250; June 7.
- Sleeve extractor, Roller-bearing-. J. M. Reiter. 1,654,310; Dec. 27.
- Sleeve-finishing board, Dry-steam. W. W. Campbell. 1,623,091; Apr. 5.
- Sleeve-finishing board, Dry-steam. I. W. Cox. 1,625,935; Apr. 26.
- Sleeve-finishing board, Dry-steam. I. W. Cox. 1,636,590; July 19.
- Sleeve-holder fastener. H. P. Nissen. 1,621,680; Mar. 22.
- Sleeve holders, Fastener for. H. P. Nissen. 1,643,627; Sept. 27.
- Sleeve-pressing form. L. T. Chellis. 1,624,777; Apr. 12.
- Sleeves and associating them with articles, Apparatus for forming. G. L. Matthias and W. D. Kmentt. 1,629,170; May 17.
- Sleigh. M. Kundrat. 1,617,529; Feb. 15.
- Slicer and shredder, Vegetable. L. Pysher. 1,617,499; Feb. 15.
- Slicer, Bread. H. Stukart. 1,631,231; June 7.
- Slicer, Bread. H. Stukart. 1,645,551; Oct. 18.
- Slicer, Meat. J. J. Quinn. 1,622,609; Mar. 29.
- Slicer, Potato. F. H. Miller. 1,619,746; Mar. 1.
- Slicer, Vegetable. T. V. Mlecoch. 1,645,113; Oct. 11.
- Slicer, Vegetable and fruit. R. Cleary. 1,614,282; Jan. 11.
- Slicer, Vegetable and fruit. C. C. Hanks. 1,651,202; Nov. 29.
- Slicer, Vegetable and fruit. P. Sokolowski. 1,620,138; Mar. 8.
- Slicers, Stone catcher for beet. H. R. Tuttle. 1,642,705; Sept. 20.
- Sliding board. F. M. Dolan. 1,623,100; Apr. 5.
- Sliding board. G. E. Sandbeck. 1,623,498; Apr. 5.
- Sliding device. A. J. Carlson. 1,620,995; Mar. 15.
- Sliding machine. W. H. Donald. 1,636,811; July 28.
- Sliding machine. J. Eldridge and J. Schor. 1,648,583; Nov. 8.
- Sliding machine. I. G. Perrett and T. R. Lambert. 1,638,362; Aug. 9.
- Sliding machine. W. A. Van Berkel. 1,620,099; May 24.
- Sliding machine. M. W. Weiscope. 1,631,335; Nov. 29.
- Sliding-machine knives, Sharpening device for. P. J. Lucey. 1,632,088; June 14.
- Sliding machine, Vegetable and soap. E. Anderson and R. W. Adams. 1,619,557; Mar. 1.
- Sliding machine, Deflecting plate for. P. J. Lucey. 1,641,180; Sept. 6.
- Sliding machines, Portable power attachment for. H. Goldstein. 1,650,442; Nov. 22.
- Sliding rolls, Machine for. M. K. Halpin. 1,615,836; Feb. 1.
- Sliding wires, Tackle-spreading block for. D. E. Gordon. 1,648,803; Nov. 8.
- Slide. H. W. Falstrom. 1,643,767; Sept. 27.
- Slide. P. Held. 1,627,970; May 10.
- Slide. A. Montan. 1,643,746-7; Sept. 27.
- Slide, Children's. A. H. Daugherty. 1,622,093; Mar. 22.
- Slide, Base engine. E. L. Kasler. 1,639,918; May 24.
- Sliding bolt. E. R. Sargent. 1,626,482; Apr. 26.
- Sliding lock. J. Palacios. 1,622,804; Mar. 29.
- Sliding pad. M. G. Carey. 1,641,318; Sept. 6.
- Sliding shackle lock. W. P. Troast. 1,627,259; May 3.
- Slimes by rotation, Concentration of. G. A. Bragg. 1,619,100; Mar. 10.
- Sling hook. H. F. Ruggles. 1,621,604; Mar. 22.
- Slip. A. Fox. 1,643,884; Sept. 27.
- Slip cover, Seat-back. W. L. Fry. 1,653,501; Dec. 20.
- Slip handler. A. L. Segelhorst. 1,637,055; July 26.
- Slip handles, Shields for casing-. W. S. Pine. 1,625,152; Apr. 19.
- Slip joint. J. W. Gunn. 1,613,887; Jan. 11.
- Slip-joint coupling. P. Mueller and A. C. Schuermann. 1,626,952; May 3.
- Slipper. P. E. Giroux. 1,613,321; Jan. 4.
- Slipper. S. Roberts. Des. 72,036; Feb. 15.
- Slipper and making it, House. F. A. Bowe. 1,618,637; Feb. 22.
- Slipper, Bedroom. L. Goldberg. Des. 71,969; Feb. 8.
- Slipper, Foot-washing. J. M. Burnap. 1,645,688; Oct. 18.
- Slippers. Ice. J. Ruzcldo. 1,654,348; Dec. 27.
- Slipper, Toe. A. Gabriel. 1,619,665; Mar. 1.
- Slippers, Cover for ballet. B. S. Bonaventure. 1,621,455; Mar. 15.
- Sitting and winding machine. J. A. Cameron. 1,617,672; Feb. 15.
- Sitting machine. O. B. Zoline. 1,628,215; May 10.
- Sitting machines, Stripper for. E. W. Daykin. 1,650,193; Nov. 22.
- Sitting means. R. M. Johnstone. Re1,670,2; Aug. 9.
- Slot machine. J. E. Hutchins. 1,618,200; Feb. 22.
- Slot machine, Liquid. S. T. Evanov. 1,649,515; Nov. 15.
- Slot and scoring machine. L. H. Schroeder. 1,636,198; July 19.
- Slotting machine. E. H. Ehrman and W. D. Corlett. 1,615,638; Jan. 25.
- Slotting machine. A. W. Parkes. 1,640,719; Aug. 30.
- Slotting-machine attachment. A. L. Brumbach. 1,630,828; May 31.
- Slots in cylindrical bodies, Cutting elemental. A. T. Kasley. 1,614,558; Jan. 18.
- Stub catcher. L. B. Hasbrouck. 1,630,426; May 31.
- Sludge, Obtaining products from. L. Burgess. 1,642,060; Sept. 13.
- Sludging wheel. E. A. Chase. 1,618,057; Feb. 15.
- Slug case. H. D. Seibert. 1,625,285; Apr. 19.
- Slug-casting machine. A. L. Chalfonte. 1,649,811; Nov. 22.
- Slug-casting machine. J. G. McNamara. 1,620,978; Mar. 3.
- Slug-casting machine. I. T. Remas. 1,630,094; May 24.
- Slug-casting machine. A. G. Stevenson. 1,617,610; Feb. 15.
- Slug-casting machines, Mold for. R. R. Mead. 1,626,854; May 3.
- Slug holder. E. G. Magnus and H. C. Dosch. 1,627,398; Oct. 4.
- Sluice-gate construction. H. B. Pratt. 1,644,445; Oct. 4.
- Sluice, Roller. V. Mann. 1,618,545; Feb. 22.
- Sluiceway construction. F. B. Allen. 1,613,601; Jan. 11.

- Slumber bed, cooling board, and casket support. Combined undertaker's. M. C. Hoard. 1,624,950; Apr. 19.
- Slurry, etc., Apparatus for agitating. J. S. Fasting. 1,622,280; Mar. 29.
- Small arm. G. Norman. 1,637,233; July 26.
- Small arm. G. Norman. 1,637,236; July 26.
- Small movements, Apparatus for amplifying. F. G. Creed. 1,639,833; Aug. 23.
- Smash preventer. E. E. Lambert. 1,647,870; Nov. 1.
- Smelter spout. L. H. Williams and R. E. Watt. 1,625,755; Apr. 19.
- Smelting, Electric. F. Tharaldsen. 1,618,316; Feb. 22.
- Smelting furnace. F. W. Corsall. 1,647,608; Nov. 1.
- Smelting furnace. T. Lewin. 1,640,574; Aug. 30.
- Snock. H. Lewis. 1,633,447; June 27.
- Smoke and gas collector. J. W. Ebert. 1,630,927; May 31.
- Smoke, Apparatus for producing. H. M. Robertson. 1,644,693; Oct. 11.
- Smoke box, Locomotive. W. L. Bean. 1,639,792; Aug. 23.
- Smoke-box structure, Locomotive. W. L. Bean. 1,650,684; Nov. 29.
- Smoke cleaner. P. Hamel. 1,639,179; Aug. 16.
- Smoke consumer. F. D. Hoffman. 1,613,564; Jan. 4.
- Smoke consumer. F. D. Hoffman. 1,618,336; Feb. 22.
- Smoke consumer. J. T. Jones. 1,639,736; Aug. 23.
- Smoke consumer. W. C. Mitchell. 1,620,826; Mar. 15.
- Smokehouse trolley. A. N. Benn. 1,653,539; Dec. 20.
- Smoke separator. V. E. Lombard. 1,618,099; Feb. 15.
- Smoke-treating apparatus. C. J. Schobrone. 1,641,995; Sept. 13.
- Smoke washer. T. Thurchak. 1,641,018; Aug. 30.
- Smoker stand. F. A. Silaj. 1,719,32; Jan. 25.
- Smoker's appliance. M. T. Barker, jr. 1,650,973; Nov. 29.
- Smoker's article. G. Bessemer. 1,637,984; Aug. 2.
- Smoker's article. E. Caldwell. 1,628,114; May 10.
- Smoker's article. E. Caldwell. 1,631,467; June 7.
- Smoker's companion. B. C. Howell. 1,622,196; Mar. 22.
- Smoker's outfit. W. V. Leing. 1,613,661; Mar. 1.
- Smoker's pipe. J. A. Reiser. 1,619,090; Jan. 11.
- Smokers, Safety device for. J. S. Valero. 1,647,322; Nov. 1.
- Smoker's set. R. L. Blumenthal. 1,638,389; Aug. 9.
- Smoker's set. F. C. Hepsland. Des. 73,965; Nov. 29.
- Smoker's set. L. H. Herskovitz. Des. 72,210; Mar. 15.
- Smoker's set, Cigarette. H. R. Whittier. 1,616,001; Jan. 18.
- Smoker's stand. W. J. Barr. Des. 74,090-1; Dec. 20.
- Smoker's stand. C. E. Bardsley. Des. 73,596; Oct. 11.
- Smoker's stand. J. C. Cramer. Des. 73,281; Aug. 23.
- Smoker's stand. R. G. Fleming. 1,645,525; Oct. 18.
- Smoker's stand. H. F. La Rue and W. Zierlein. Des. 72,101; Mar. 1.
- Smoker's stand. R. C. Mitchell. 1,646,099; Oct. 18.
- Smoker's stand and magazine rack, Combined. F. B. Cushman. Des. 72,820; June 14.
- Smoker's stand and tilting table, Combined. F. B. Cushman. Des. 73,028; July 12.
- Smoker's stand or the like. C. P. Knapp. Des. 72,902; June 21.
- Smoking appliance. W. C. Dodge. 1,623,661; Apr. 5.
- Smoking meat. M. Britt. 1,631,463; June 1.
- Smoking pipe. J. F. Busbee. 1,620,438; Mar. 8.
- Smoking pipe. E. Hadley. 1,641,849; Sept. 18.
- Smoking pipe. H. H. Harrisberger. 1,622,585; Mar. 29.
- Smoking pipe. G. A. Hixfield. 1,652,572; Dec. 13.
- Smoking pipe. M. Pirc. 1,654,384; Dec. 27.
- Smoking pipe. C. F. Rodd. 1,646,876; Oct. 25.
- Smoking pipe. P. R. Schuman. 1,627,416; May 3.
- Smoking pipe. L. Shakal. 1,614,903; Jan. 18.
- Smoking pipe. E. W. Swartwout. 1,632,100; June 14.
- Smoking-pipe accessory. C. L. Congdon. 1,617,322; Feb. 15.
- Smoking-pipe attachment. F. J. J. Lechleider. 1,617,257; Feb. 8.
- Smoking-pipe holder. B. F. Mallory. 1,636,378; July 19.
- Smoking set. T. Bear. 1,641,657; Sept. 6.
- Smoking set or similar article. J. K. Raugstad. Des. 72,030; Feb. 15.
- Smoking stand. E. Schultz. Des. 72,286; Mar. 22.
- Smoking stand. P. C. Shapiro. Des. 72,455; Apr. 12.
- Smoking stand. M. C. Sturman. Des. 73,986; Nov. 29.
- Smoking utensil. L. R. Waugh. 1,619,387; Mar. 1.
- Snag. J. F. Carpmill and H. G. Hancock. 1,646,745; Oct. 25.
- Snag-action mechanism. G. A. Knaak. 1,618,963; Feb. 22.
- Snag fastener. G. Kollstede. 1,636,914; July 26.
- Snag fastener. J. C. Peterson. 1,631,602; June 7.
- Snag fastener. J. I. Reiter. 1,612,943; Jan. 4.
- Snag fastener. H. Spengler. 1,625,104; Apr. 19.
- Snag hook. A. E. Bergquist. 1,613,641; Jan. 11.
- Snag hook. H. S. Bilderback. 1,644,168; Oct. 4.
- Snag hook. J. E. Ellis. 1,643,881; Sept. 27.
- Snag hook. J. B. Freysinger. 1,648,016; Nov. 8.
- Snag. McLaughlin. 1,650,802; Nov. 29.
- Snag hook. J. M. Walsh. 1,615,605; Jan. 25.
- Snag link. O. C. Hill. 1,637,860; Aug. 2.
- Snag switch. T. A. Both. 1,634,822; July 5.
- Snag switch. P. H. Zimmer. 1,617,040; Feb. 8.
- Snag switch, Electric. A. Carling. 1,638,828; Aug. 16.
- Snag switch, Electric. C. Neil. 1,652,841; Dec. 13.
- Snag switch, Electric. A. E. Raque. 1,616,000; Feb. 1.
- Snag switch, Rotary. G. B. Thomas. 1,621,340; Mar. 15.
- Snare. J. Kleffman. 1,615,586; Jan. 25.
- Snare, Animal. E. C. Marlin. 1,624,003; Apr. 12.
- Snare drum. F. J. Bacon and D. L. Day. 1,630,461; May 31.
- Snare trap. A. Boerner. 1,643,602; Sept. 27.
- Snatch block. K. Berger. 1,630,517; May 31.
- Snow cleaner and digger. A. Zilbersher. 1,621,448; May 31.
- Snow-clearing apparatus for automobiles. J. B. Sewell. 1,624,809; Apr. 12.
- Snow elevator and remover. G. Heronimus. 1,617,111; Feb. 8.
- Snow fence. D. A. Sargent. 1,647,585; Nov. 1.
- Snow guard. K. D. Williams. 1,626,995; May 3.
- Snow guard, Sheet-metal. C. E. Douglas. 1,647,345; Nov. 1.
- Snow loader. A. L. Schwenke. 1,654,311; Dec. 27.
- Snow melter. J. F. Daly, G. A. Coats, and G. H. Lutz. 1,652,767; Dec. 13.
- Snow-melting apparatus. V. I. Heermance. 1,629,160; May 31.
- Snowplow. L. Isbell. 1,629,341; May 17.
- Snowplow. S. W. Lombard. 1,624,839; Apr. 12.
- Snowplow. L. Martin. 1,634,673; July 5.
- Snowplow. C. R. Newhaus. 1,622,338; Mar. 29.
- Snowplow. R. S. Pelette. 1,653,118; Dec. 20.
- Snowplow. J. Rockard. 1,619,514; Mar. 1.
- Snowplow. F. Saxon. 1,638,708; Aug. 9.
- Snowplow. J. T. Somnis. 1,647,550; Nov. 1.
- Snowplow. F. E. Thompson. 1,621,040; Mar. 15.
- Snowplow. D. Zinn. 1,641,723; Sept. 6.
- Snowplow, Automobile. J. Hojnowski. 1,635,043; July 5.
- Snow remover. H. D. Curtis. 1,623,910; Apr. 5.
- Snow remover. E. Eberhardt. 1,638,150; Aug. 8.
- Snow remover. J. E. Wagoner. 1,616,835; Feb. 8.
- Snow-removing machine. D. H. Lichtenberg. 1,615,461; Jan. 25.
- Snow-removing machine. C. B. Robinson and R. S. Carty. 1,642,895; Sept. 20.
- Snowshoe and manufacturing same. E. W. Vose. 1,630,041; May 24.
- Snow shovel. G. J. Janosko. 1,628,782; May 17.
- Snow shovel. F. Nims. 1,634,204; June 28.
- Snubber. J. Dixon. 1,643,927; Sept. 27.
- Snubber. J. I. Everest. 1,640,651; Aug. 30.
- Snubber. F. A. Huff. 1,643,016; Sept. 20.
- Snubber. A. C. Rippey. 1,614,392; Jan. 11.
- Snubber, Automobile. G. H. Bugenhan. 1,645,519; Oct. 18.
- Snubber hook and quick-fastener link. D. M. Bateson. 1,623,512; June 21.
- Snubber, Hydraulic. A. L. Poudrier. 1,632,041; June 14.
- Soap and water mixer. F. Y. McKenney and W. H. Cheney. Re16,797; Nov. 22.
- Soap compound and making the same. H. H. Hanson. 1,623,340; Apr. 5.
- Soap container. A. J. Eggan. 1,619,105; Mar. 1.
- Soap, Device for dispensing liquid. N. S. Hillyard. 1,648,811; Nov. 8.
- Soap dispenser. M. W. Levernier. Des. 73,185; Aug. 2.
- Soap dispenser, Liquid-. A. R. Goldrick. 1,624,231; Apr. 12.
- Soap dispenser, Liquid-. W. N. Lurcott. 1,633,448; June 21.
- Soap dispenser, Liquid-. W. C. Morrill. 1,647,245; Nov. 1.
- Soap-dispensing device, Powdered. H. Helberger. 1,637,189; July 26.
- Soap, Flaking. B. W. Coltmann. 1,653,390; Dec. 20.
- Soap-flaking device. H. B. Brougham. 1,615,558; Jan. 4.
- Soap, Floating. J. Stern. 1,615,244; Jan. 25.
- Soap holder with ring cup. S. D. Baker. Des. 73,734; Nov. 1.
- Soap-measuring device. J. P. Young. 1,643,828; Sept. 27.
- Soap, Mechanic's. C. Blomstrom. 1,618,323; Feb. 22.
- Soap, Product and manufacture. D. R. Lamont. 1,652,900; Dec. 13.
- Soap product, Manufacture of a finely-divided dry. R. L. Holliday. Re16,749; Sept. 27.
- Soap product, Manufacture of a finely-divided dry. E. L. Holliday. 1,621,508; Mar. 22.
- Soap-shed pack. F. J. Christman, Jr. 1,628,229; May 10.
- Soap, System for conveying and inspecting. H. C. Knowles. 1,636,235; July 19.
- Soap, Treating. A. P. Thal. 1,633,689; June 28.
- Soap with advertising matter. Providing cakes of. C. Schmidt. 1,636,709; July 26.
- Soaps, Float for bath. O. Tronstad. 1,617,466; Feb. 15.
- Soaps, Making perfume or medicated transparent. P. Villain. 1,626,708; May 3.
- Soapy water, Device for supplying. H. C. Smith. 1,632,806; June 21.
- Socket. E. L. Brenk. 1,646,609; Oct. 25.
- Socket. L. S. and R. C. Harwood. 1,618,428; Feb. 22.
- Socket. J. Nielsen. 1,653,869; Dec. 27.
- Socket. H. S. Taylor. 1,642,517; Sept. 13.
- Socket adapter. F. H. Weston. 1,640,434; Aug. 30.
- Socket and jar, Combined. H. R. Standice. 1,620,985; Mar. 15.
- Socket and plug connection. F. S. Hyatt. 1,629,160; May 31.
- Socket, Audion-bulb. A. Morton. 1,649,969; Nov. 22.
- Socket, Candle pull. H. Hubbell. 1,645,952; Oct. 18.

- Socket cap and making the same. E. G. Oakley. 1,623,067; Apr. 5.
- Socket casing. A. C. Recker. 1,637,874; Aug. 2.
- Socket closure, Swivel. J. J. Kearney. 1,620,029; Mar. 8.
- Socket, Double-pin. P. E. Fenton and P. de F. Warner. 1,645,500; Oct. 11.
- Socket, Electric. I. F. Giles. 1,643,655; Sept. 27.
- Socket, Electric. A. C. Saxe. 1,614,508; Jan. 18.
- Socket, Electric. H. Shapiro. 1,646,490; Oct. 25.
- Socket, Electric connecting. F. W. C. Neuner. 1,630,272; May 31.
- Socket, Electric-lamp. W. G. Chizlett. 1,627,631; May 10.
- Socket, Electric switch. C. S. Cross and C. A. Smith. 1,644,990; Oct. 11.
- Socket for scaffold trestles. J. B. Hect. 1,642,069; Sept. 13.
- Socket, Lamp. H. C. White. 1,647,100; Oct. 25.
- Socket member. W. W. Largent and C. A. Stiles. 1,620,217; May 17.
- Socket, Multiple sucker-rod. A. H. Neilson. 1,640,847; Aug. 30.
- Socket, Multiple sucker-rod. W. A. O'Bannon. 1,620,382; Mar. 8.
- Socket, Multiple sucker-rod. W. A. O'Bannon. 1,620,486; Mar. 8.
- Socket, Plug. L. Propp. 1,618,959; Jan. 11.
- Socket, Pull. E. C. Webster. 1,646,002; Oct. 18.
- Socket, Pull. B. C. Webster. 1,647,326; Nov. 1.
- Socket, Push-switch. E. H. Freeman. 1,645,130; Oct. 11.
- Socket, Radius and steering rod. G. F. Colley. 1,641,474; Sept. 6.
- Socket-seating and fuse-testing block, Combination. W. Wurdack. 1,631,178; June 7.
- Socket, Single-pin. P. E. Fenton. 1,625,303; Apr. 19.
- Socket, Single-pin. P. E. Fenton. 1,645,490; Oct. 11.
- Socket, Sucker-rod. W. A. O'Bannon. 1,620,383; Mar. 8.
- Socket, Switch. R. B. Benjamin. 1,635,170; July 12.
- Socket, Switching. W. Leschman. 1,644,419; Oct. 4.
- Socket, Swivel. M. Blair and C. O. Grove. 1,617,664; Feb. 15.
- Socket, Swivel rope. P. A. Schmuck. 1,641,690; Sept. 6.
- Socket, Tent-pole. S. T. Anderson. 1,622,273; Mar. 29.
- Socket terminal. F. C. Chadwick. 1,634,173; June 28.
- Socket, Three-way. W. Ile. 1,644,493; Oct. 4.
- Socket, Three-way cap pin-type. W. Ile. 1,645,240; Oct. 11.
- Socket, Twin. H. T. Paiste. 1,642,626; Sept. 13.
- Socket, Two-way. W. Ile. 1,641,277; Sept. 6.
- Socket, Vacuum tube. H. C. Davis. 1,651,257; Nov. 29.
- Socket, Vacuum tube. R. H. Manson. 1,642,084; Sept. 20.
- Socket, Vented electric. E. D. and H. A. Halliwell. 1,644,056; Oct. 4.
- Socket wrench. J. N. Fitzgerald, Jr. 1,638,252; Aug. 9.
- Socket wrench. H. F. Haynes. 1,619,255; Mar. 1.
- Socket wrench. H. F. Haynes. 1,626,730; May 8.
- Socket wrench. O. L. Kientz. 1,648,134; Nov. 8.
- Socket wrench. J. N. Peterson. 1,643,814; Sept. 27.
- Socket wrench. J. N. Peterson. 1,643,855; Sept. 27.
- Socket wrench. J. N. Peterson. 1,643,901; Sept. 27.
- Socket wrench. C. J. Sheel. 1,643,868; Sept. 27.
- Socket wrench. W. C. Stowe and F. M. Isaacs. 1,615,201; Jan. 18.
- Socket wrench, Automatic reversible double-acting. O. M. Naylor. 1,613,328; Jan. 4.
- Socket wrench, Multiple. G. J. C. and A. F. R. Lammers. 1,618,715; Feb. 22.
- Socket wrench sets, Holder for. H. G. Rice. 1,649,615; Nov. 15.
- Soda fountain. H. J. McCue. 1,621,846; Mar. 22.
- Sodamide, Producing. J. F. Watt. 1,646,372; Oct. 18.
- Sodium aluminate, Producing. J. B. Barnitt. 1,610,674; Feb. 8.
- Sodium and borax from brines, Recovery of carbonate compounds of. W. A. Kuhnert. 1,618,835; Feb. 22.
- Sodium azide, Manufacture of. F. Wilcoxon and B. Rott. 1,628,390; May 10.
- Sodium carbonate, Production of hydrated. C. Sundstrom and G. N. Terziev. 1,650,244; Nov. 22.
- Sodium compounds from waste sulphite liquors, Recovery of. C. H. Milligan. 1,652,725; Dec. 13.
- Sodium fluoride, Producing. E. P. Stevenson. 1,634,122; June 28.
- Sodium hydrosulphide and valuable by-products, Production of. E. B. Alvord. 1,650,106; Nov. 22.
- Sodium phosphates, Making. H. Howard. 1,642,244; Sept. 13.
- Sodium sesquicarbonate from brines, Recovery of. W. A. Kuhnert. 1,618,834; Feb. 22.
- Sodium sulphites and boric acid, Making. H. Blumenberg, Jr. 1,642,535; Sept. 13.
- Sodium thiocyanate, Recovery of. R. E. Hall. 1,648,224; Nov. 8.
- Sodium thiosulphate, Manufacture of. F. W. Sperr, Jr. and D. L. Jacobson. 1,639,905; Aug. 23.
- Sodium tungstate, Forming. W. B. Stoddard and I. Hochstadter. 1,652,646; Dec. 13.
- Sofa. L. Braus. Des. 73,825; Nov. 15.
- Softening water, Apparatus for. A. J. Dotterweich. 1,652,710; Dec. 15.
- Soil-breaking machine. J. A. Ayers. 1,637,290; July 28.
- Soil, Device for aerating and fertilizing. L. Lindsay. 1,650,081; Nov. 22.
- Soil fitting. D. L. Ernst. 1,629,208; May 17.
- Soil pulverizer, Sprocket-type. M. P. Ohlsen. 1,617,821; Feb. 15.
- Soil-vibrating apparatus. C. A. Brewer. 1,614,273; Jan. 11.
- Solder. J. L. Jones. 1,651,709; Dec. 6.
- Solder, Aluminio. M. Toril. 1,640,161; Aug. 23.
- Solder and producing same, Granular brazing. C. H. Davis. 1,617,285; Feb. 8.
- Solder, Flexible. J. Plant. 1,635,222; July 12.
- Solder for aluminum and its alloys. E. Conti. 1,619,852; Mar. 8.
- Solder in wire form, Manufacturing fluxed. T. E. Wales. 1,649,628; Nov. 15.
- Solder iron. J. M. Russell. 1,641,604; Sept. 6.
- Solder, Tape. E. B. Campbell. 1,653,546; Dec. 20.
- Solder, White-gold. T. P. Shields. 1,652,740; Dec. 13.
- Soldering. J. Wenz, J. Alvera, and G. Brunnhuber. 1,619,837; Mar. 8.
- Soldering articles. E. Thoma. 1,630,771; May 31.
- Soldering flux. C. J. Meier. 1,642,884; Sept. 20.
- Soldering iron. H. B. Brach. 1,626,911; May 3.
- Soldering iron. C. J. Goosmann. 1,648,222; Nov. 8.
- Soldering iron. P. H. Rognley. 1,631,063; May 31.
- Soldering iron. J. Sandberg. 1,639,537; Aug. 16.
- Soldering iron. F. S. Utenthal. 1,614,090; Jan. 11.
- Soldering iron. H. A. Wagg. 1,630,990; May 31.
- Soldering iron, Electrical. W. Emsdorf and J. Sandberg. 1,646,258; Oct. 13.
- Soldering iron, Fountain. W. E. Quillen. 1,626,552; Apr. 26.
- Soldering irons, Support or holder for. H. W. Vallin. 1,616,721; Feb. 8.
- Soldering machine. J. H. Murch. 1,639,955; Aug. 23.
- Soldering machine. G. W. Williams and A. M. Walstrom. 1,623,293-4; Apr. 5.
- Soldering machine, Armature-commutator-lead. R. J. Emmert. 1,619,406; Mar. 1.
- Soldering machine, Can. G. H. Casper and L. F. Dillon. 1,649,288; Nov. 15.
- Soldering machine, Can. W. J. Luxton and W. A. Green. 1,631,424; June 7.
- Soldering unit. J. W. Fay. 1,636,175; July 19.
- Sole and heel for use on shoes. Detachable. A. M. Antaramian. 1,654,445; Dec. 27.
- Sole, Composite rubber. A. L. Murray. 1,624,500; Apr. 12.
- Sole-cutting machine. P. J. McGowan. 1,645,441; Oct. 11.
- Sole-cutting machines, Brake construction for. H. K. Bayer and H. J. Epstein. 1,627,370; May 3.
- Sole-cutting machines, Sole-fudging attachment for. J. Zdvornak. 1,627,878; May 10.
- Sole-edge burnisher. E. L. McMurtrey. 1,646,655; Oct. 25.
- Sole for shoes, Exchangeable. A. Torchia. 1,640,301; Aug. 23.
- Sole-laying machine. A. C. Estey. 1,642,017; Sept. 13.
- Sole-laying machine, Pneumatic. A. Demnitz. 1,625,527; Apr. 15.
- Sole or heel, Shoe. L. E. Packard. 1,644,855; Oct. 11.
- Sole-pressing apparatus for use in the manufacture and repair of boots and shoes. T. E. Cann. 1,622,418; Mar. 29.
- Sole-pressing machine. R. B. Woodcock. 1,637,506; Aug. 2.
- Sole-rounding machine. G. Julian. 1,620,027; Mar. 8.
- Sole treading surface when the foot is under load and not under load, Apparatus for observing the variation of the. J. May. 1,643,628; Sept. 27.
- Soles and analogous articles, Manufacture of rubber. J. A. Howard. 1,654,001; Dec. 27.
- Soles, Machine for pressing. A. B. Fowler. 1,640,353; Aug. 30.
- Soles for shoe uppers, Apparatus for cementing. W. F. Toud. 1,627,358; Mar. 3.
- Solenoid, Electric. T. L. Lee. 1,650,799; Nov. 29.
- Solenoid motor. A. G. Godefroy. 1,635,935; July 12.
- Solenoids and the like, Testing apparatus for. H. J. Taylor. 1,637,062; July 26.
- Solid materials, Method of and apparatus for grading. G. R. Baker, W. B. Prescott, and C. W. Gilderale. 1,623,040; Apr. 5.
- Solid matter from rotary mud, Apparatus for removing. C. C. Richardson. 1,647,310; Nov. 1.
- Solids from liquids or liquids from liquids, Machine for separating. W. C. Laughlin. 1,640,707; Aug. 30.
- Solids from liquids, Separation of. F. Bachmann. 1,627,550; May 10.
- Solids from liquids, Separation of. S. Symington. 1,641,708; Sept. 6.
- Solids from press liquids, Apparatus for recovering. H. E. Bergen. 1,624,385; Apr. 12.
- Solution, Noncorrosive. M. R. Sberbino. 1,638,710-11; Aug. 9.
- Solutions and the like, Filtration of. J. Blumenfeld. 1,633,621; June 28.
- Solutions and the product, Making aqueous. A. M. Shook. 1,616,202; Feb. 1.
- Solutions containing organic phosphorus and complex amino compounds, Stable and sterilizable. L. Benda. 1,635,169; July 12.
- Solvent. R. C. Culy. 1,648,314; Nov. 8.

- Solvent-recovery apparatus. A. Zimmerli. 1,613,073; Jan. 4.
- Solvents and method of using it. Agent for recovery of volatile. W. Runge. 1,601,155; Nov. 29.
- Soot blower. F. Bowers. 1,637,516; Aug. 2.
- Soot blower. A. H. Loucks. 1,623,220; Dec. 20.
- Soot blower. J. H. Reedy and W. J. Lickert. Re16,714; Aug. 23.
- Soot blower. E. P. Stroup and W. A. Cook. 1,649,001; Nov. 15.
- Soot-blower connection. C. W. E. Clarke. 1,624,927; Apr. 19.
- Soot-blower element. N. L. Snow. 1,644,286; Oct. 4.
- Soot-blowing system. G. C. Vennum. 1,652,845; Dec. 13.
- Soot receptacle. P. W. Thayer. 1,628,521; May 10.
- Soot, Removing. J. L. Bresse jr. 1,628,643; May 17.
- Soot and grading device. F. W. Cutler. 1,644,052; Oct. 4.
- Sorting case. S. B. Tulloss. 1,626,126; Apr. 26.
- Sorting device. G. W. Cox, jr. 1,625,711; Apr. 19.
- Sorting machine. J. W. Bryce. 1,651,180; Nov. 29.
- Sorting machine. L. A. Medcalf. 1,636,477; July 19.
- Sorting machine. E. Vosburgh. 1,625,438; Apr. 19.
- Sorting machine, Centrifugal. R. V. Judson. 1,650,218; Nov. 22.
- Sorting machines and the like. Perforation-reading device for. E. A. Ford. 1,633,936; June 28.
- Sound amplifier. F. D. Arnold. 1,635,303; July 12.
- Sound amplifier. J. S. Bach. 1,653,144; Dec. 20.
- Sound amplifier. G. L. Bailey. Des. 72,304; Mar. 29.
- Sound amplifier. C. Bieberger. 1,643,254; Sept. 20.
- Sound amplifier. H. Fischer. 1,633,326; June 21.
- Sound amplifier. H. Kanders. 1,645,329; Oct. 11.
- Sound amplifier. H. D. Penney. 1,631,221; June 7.
- Sound amplifier. H. S. Satterlee. 1,647,253; Nov. 1.
- Sound amplifier. L. Stevens. 1,644,795; Oct. 11.
- Sound amplifier. C. W. Taylor. 1,628,010; May 10.
- Sound amplifier. G. C. Wilhelm. 1,639,359; Aug. 16.
- Sound amplifier or megaphone tone box. J. L. Wright. 1,614,582; Jan. 18.
- Sound-amplifying construction. J. Kersten. 1,639,656; Aug. 23.
- Sound-amplifying device. P. H. Fuller. 1,614,983; Jan. 18.
- Sound-amplifying device. B. F. Miessner. 1,639,048; Aug. 16.
- Sound-amplifying instrument. R. Rodriguez. 1,634,340; July 5.
- Sound apparatus. A. du Bois-Reymond. 1,640,538; Aug. 30.
- Sound, Apparatus for and reproducing. F. W. Lee. 1,622,039; Mar. 22.
- Sound boxes, Stylus mounting for. C. Scrabie. 1,636,715; July 26.
- Sound collecting and transmitting. C. K. Woodbridge. 1,630,367; May 31.
- Sound Combination recorder and reproducer of. C. Scrabie. 1,636,716; July 26.
- Sound damper. H. W. K. De Brey. 1,631,924; June 7.
- Sound deadener. W. A. Scott. 1,622,469; Mar. 29.
- Sound-detection-training device. L. H. Richmond. 1,646,874; Oct. 25.
- Sound device for recording and reproducing. E. Kramer. 1,629,911; Oct. 18.
- Sound, Device for transmitting or reproducing. S. G. Brown. 1,639,924; Aug. 23.
- Sound-direction finder. W. Rudolph and A. du Bois-Reymond. 1,636,576; July 19.
- Sound director. W. S. Dickson. 1,647,439; Nov. 1.
- Sound distributing and transmitting means and method. C. K. Woodbridge. 1,625,970; Apr. 26.
- Sound duct, Combined gramophone and telephonic. E. A. Graham. 1,613,512; Jan. 4.
- Sound from graphical records, Photo-electric means for reproducing. R. Hart. 1,647,353; Nov. 1.
- Sound-insulating plate, sheet, or slab. J. Weiss. 1,623,090; May 10.
- Sound-locating apparatus. I. Langmuir. 1,622,594; Mar. 29.
- Sound magnifier. S. P. Knut. 1,619,981; Mar. 8.
- Sound, Method of and apparatus for electrically producing. T. Bodde. 1,640,140; Aug. 23.
- Sound, Method of and apparatus for electrically producing. 1,640,141; Aug. 23.
- Sound modifier. A. V. Bodine. 1,645,037; Oct. 11.
- Sound-modifying means for sound transmitting and reproducing machines. W. Orr. 1,639,308; Aug. 16.
- Sound or like vibrations, Production or reproduction of. S. G. Brown. 1,624,823; Apr. 12.
- Sound producer comprising a vibratory system coupled with a resonator. W. Hahnemann, E. Wilekens, and H. Lichte. 1,616,185; Feb. 1.
- Sound producing and controlling device. L. A. Nemcovsky. 1,645,657; Oct. 18.
- Sound-producing apparatus. T. W. Case. 1,647,504; Nov. 1.
- Sound-producing device. A. L. Grubman. 1,619,203; Mar. 1.
- Sound-producing device. A. L. Grubman. 1,654,490; Dec. 27.
- Sound-producing device. L. J. Grubman. 1,619,204; Mar. 1.
- Sound-producing device. L. J. Grubman. 1,627,384-5; May 8.
- Sound-producing device. L. J. Grubman. 1,654,497-8; Dec. 27.
- Sound-producing device. L. J. Grubman. 1,654,500; Dec. 27.
- Sound-producing device. F. J. and W. L. Kaehni. 1,632,408; June 14.
- Sound-producing device. B. E. Lloyd. 1,649,242; Nov. 15.
- Sound-producing device. H. W. May. 1,653,221; Dec. 20.
- Sound-producing device. G. Ramsey. 1,651,150; Nov. 29.
- Sound-producing device. O. A. Shann and F. A. Kuntz. 1,645,823; Oct. 18.
- Sound-purifying device. H. Lion. 1,620,367; Mar. 8.
- Sound rays, Receiving and sending directional. M. Maurer and E. Haschek. 1,649,538; Nov. 15.
- Sound receiver and transmitter. F. W. Hochstetter and W. W. Thorpe. 1,629,869; May 24.
- Sound-receiving earpiece. H. J. Mathieu. 1,624,144; Apr. 12.
- Sound-reception system. J. E. Aiken. 1,635,568; July 12.
- Sound record. F. C. Hinckley. 1,625,705; Apr. 19.
- Sound record. F. W. Stone. 1,623,285; Apr. 5.
- Sound record and making the same, Duplicate. R. Quait, jr. 1,621,749; Mar. 22.
- Sound, Recording. L. de Forest. 1,618,641; Feb. 22.
- Sound, Recording. V. C. J. Nightingall. 1,649,847; Nov. 22.
- Sound recording and reproducing machine. H. A. Rogers. 1,618,688; Feb. 22.
- Sound-recording device. H. W. Webb. 1,638,424; Aug. 9.
- Sound-recording mechanism. F. Pucek. 1,638,059; Aug. 9.
- Sound-recording method. J. P. Maxfield. 1,637,082; July 26.
- Sound reflector. J. A. Landis. 1,624,873; Apr. 12.
- Sound reproducer. W. C. Brunow. 1,630,742; May 31.
- Sound reproducer. M. Well. 1,637,322; July 26.
- Sound reproducer, Electric. A. A. Thomas. 1,630,641-2; May 31.
- Sound reproducer, Electric. A. A. Thomas. 1,635,390; July 12.
- Sound reproducer, Electromagnetic. F. Dietrich and W. H. Gerns. 1,645,231; Oct. 11.
- Sound reproducer, Electromagnetic. H. C. Hayes. 1,632,332; June 14.
- Sound reproducer, Electromagnetic. F. A. Kolster and S. A. Solie. 1,637,119; July 26.
- Sound reproducer, Electromagnetic. C. D. White. 1,613,775; Jan. 11.
- Sound reproducer, Loud-speaking. G. R. Lum. Des. 74,114; Dec. 20.
- Sound-reproducer mounting. G. A. Gillen. 1,623,785; Apr. 6.
- Sound reproducers, Machine for testing electromagnetic. E. H. Stacy. 1,645,428; Nov. 8.
- Sound reproducers, Suspension for armatures of electromagnetic. C. E. Rowe and W. H. Gerns. 1,649,257; Nov. 15.
- Sound, Reproducing. H. J. Round. 1,635,959; July 12.
- Sound-reproducing apparatus. C. M. Boudette. Re16,743; Sept. 27.
- Sound-reproducing apparatus. C. A. Brigham. 1,625,844; Apr. 28.
- Sound-reproducing apparatus. C. A. Brigham. 1,638,320; Aug. 9.
- Sound-reproducing apparatus. M. M. Gruber. 1,634,662; July 5.
- Sound-reproducing apparatus. C. W. Rice. 1,631,646; June 7.
- Sound-reproducing apparatus. C. K. Sugden. 1,642,905; Sept. 20.
- Sound-reproducing device. M. De Cesare. 1,642,767; Sept. 20.
- Sound-reproducing device. P. Y. Hodge. 1,645,051; Oct. 15.
- Sound-reproducing device. E. U. Iwwerks. 1,646,201; Oct. 18.
- Sound-reproducing device construction. J. B. Elen-schneider. 1,641,667; Sept. 6.
- Sound-reproducing diaphragm. M. C. Rypinski. 1,616,553; Feb. 28.
- Sound-reproducing instrument. T. Brewin. 1,633,760; July 28.
- Sound-reproducing instrument. A. W. Harris. 1,648,226; Nov. 8.
- Sound-reproducing instrument. H. B. Rook. 1,629,971; May 24.
- Sound-reproducing instrument. J. Roston. 1,621,278; Mar. 15.
- Sound-reproducing machine. H. L. T. Buckle. 1,624,578; Apr. 12.
- Sound-reproducing machine. H. J. Küchenmeister. 1,649,477; Nov. 15.
- Sound-reproducing machine. J. R. O'Brien and W. Revell. 1,645,922; Oct. 18.
- Sound-reproducing machines. Repeating attachment for. C. Crooke and J. A. Remle. 1,631,797; June 7.
- Sound-reproducing means. Combined gramophone and wireless. E. A. Graham. 1,650,344; Nov. 22.
- Sound-reproducing mechanism. Adjusting means for. C. E. Pearson. 1,632,416; June 14.
- Sound-reproducing records, Shipping container for. R. S. Blair and B. D. Wells. 1,628,106; May 10.

- Sound, Reproduction of. A. F. Sykes. 1,639,713; Aug. 23.
- Sound reproductions, Apparatus for. J. J. Jakosky. 1,626,082; Apr. 26.
- Sound resonator, Musical. S. Cabot. 1,620,869; Mar. 15.
- Sound-translating device. J. Slepian and C. R. Hanna. 1,645,305; Oct. 11.
- Sound transmission, Directive. H. C. Hayes and M. Mason. 1,636,510; July 19.
- Sound, Transmission of. K. M. Lederer. 1,634,292; July 5.
- Sound transmitter, Submarine. H. C. Hayes. 1,649,113; Nov. 15.
- Sound, Transmitting, recording, and reproducing. J. Skocinski-Tykociner. 1,640,557; Aug. 30.
- Sound vibration translating device. E. Grissinger. 1,628,242; May 10.
- Sound vibrations, System for location of a source of. J. Mills. 1,628,992; May 17.
- Sound waves, Means and apparatus for recording. C. J. Lapp. 1,633,355; June 21.
- Sounding figure, A. Werlitz. 1,627,365; May 3.
- Sounding line. E. J. Haynes. 1,633,701; June 28.
- Sounds on sensitized traveling film bands, System for producing records of. S. O. F. A. son Berglund. 1,653,836; Dec. 27.
- Sounds, Recording and reproducing of. C. F. Sacia. 1,623,756; Apr. 5.
- Space-adjusting means for ground-engaging implements. J. Spence. 1,620,697; Mar. 15.
- Space band. J. M. Lobit. 1,626,003; Apr. 26.
- Space closure, Automatic threshold-. L. H. Woodcock. 1,651,570; Dec. 6.
- Space-discharge system. H. J. van der Bijl. 1,613,626; Jan. 11.
- Spacer, Multiple. F. S. Thompson. 1,643,968; Oct. 4.
- Spacer or space band, Justifying. J. L. Rousseau. 1,635,960; July 12.
- Speech story pole, Combination. C. S. Tetrick. 1,614,577; Jan. 18.
- Spacing table. W. A. Lacke. 1,625,215; Apr. 19.
- Spade, Motor. W. Hejma. 1,636,418; July 19.
- Spade, Trench. R. C. Botsford. 1,635,308; July 12.
- Spading device. O. A. Matson. 1,624,610; Apr. 12.
- Spading tool. P. Eckler. 1,621,715; Mar. 22.
- Spaggetti and similar foods, Cooking. J. McGowan, jr. 1,634,332; July 5.
- Spanner. A. E. Thomas. 1,640,383; Aug. 30.
- Spare-tire lock. K. Scherer. 1,619,044; Mar. 1.
- Spare-wheel lock. C. H. Willis. 1,639,069; Aug. 16.
- Spark and gas control, Combined safety. I. E. McCabe. 1,648,389; Nov. 8.
- Spark arrester. C. S. Calhoun. 1,641,022; Aug. 30.
- Spark arrester. T. M. Nixon. 1,638,451; Aug. 9.
- Spark-arresting device. J. Slocum. 1,641,102; Aug. 30.
- Spark consumer. C. F. Geringer. 1,650,120; Aug. 23.
- Spark gap. H. H. Osborn. 1,634,627; July 5.
- Spark-gap device. J. H. Eastman. 1,626,030; Apr. 26.
- Spark plug. A. Bourrien. 1,622,760; Mar. 29.
- Spark plug. P. Challis. 1,619,653; Mar. 1.
- Spark plug. A. Champion. 1,619,969; Mar. 8.
- Spark plug. W. C. Clayton. 1,628,825; May 17.
- Spark plug. E. Dietzel. 1,648,449; Nov. 8.
- Spark plug. L. S. Ellett. 1,623,466; Apr. 5.
- Spark plug. D. G. Fuchs. 1,624,785; Apr. 12.
- Spark plug. G. W. Gardner. 1,620,341; Mar. 8.
- Spark plug. G. Hadrick. 1,626,081; Apr. 26.
- Spark plug. M. Jacobs. 1,648,770; Nov. 8.
- Spark plug. J. T. Littleton. 1,635,186; July 12.
- Spark plug. A. E. MacDonald. 1,647,099; Oct. 25.
- Spark plug. R. C. Myers. 1,623,432; Apr. 5.
- Spark plug. E. B. Nowoselski. 1,623,129; Apr. 5.
- Spark plug. O. C. Rhode. 1,636,197; July 19.
- Spark plug. E. A. Schneider and M. Hertz. 1,646,318; Oct. 18.
- Spark-plug attachment. R. C. Floyd. 1,624,937; Apr. 19.
- Spark-plug cleaner. M. Itjen. 1,643,606; Sept. 27.
- Spark-plug-cleaning apparatus. G. Browning. 1,641,731; Sept. 6.
- Spark-plug protector. J. D. Moore. 1,615,289; Jan. 25.
- Spark-plug protector, Combustion-engine. A. Manchester. 1,619,524; Mar. 1.
- Spark plug, Self-cleaning. E. W. Lockenvitz. 1,645,708; Oct. 18.
- Spark-plug tester. W. G. Williams. 1,628,942; May 17.
- Spark-plug-testing device. F. W. Gowland. 1,639,603; Aug. 16.
- Spark plugs, Terminal connector for. A. Champion. 1,631,191; June 7.
- Spark plugs, Terminal connector for. A. Champion. 1,651,374; Dec. 6.
- Spark plugs, Terminal testing unit for. H. J. Strahan. 1,650,546; Nov. 22.
- Spark plugs, Tool for adjusting points of. V. P. Rumely. 1,629,000; July 1.
- Spark timing, Preventing detonation and increasing variations of. H. L. Horning. 1,652,122; Dec. 6.
- Spark unit, Film-piercing. C. F. Jenkins. 1,639,775; Aug. 23.
- Sparklers and analogous lights, Color changer for. K. Kohn. 1,620,560; Mar. 8.
- Spat. D. Karver. 1,648,018; Nov. 8.
- Spattee. L. Goldner. 1,650,509; Nov. 22.
- Spatulating machine. T. J. Lewis. 1,622,333; Mar. 29.
- Spear. C. Hart. 1,619,254; Mar. 1.
- Spear for oil-well casings or tubing. J. L. Cameron. 1,653,547; Dec. 20.
- Spear, Prog. C. T. Pfueger. 1,621,082; Mar. 15.
- Specific-gravity balance. T. F. Manns. 1,643,343; Sept. 27.
- Specific-gravity-determining apparatus. G. B. Linderman, Jr. 1,644,634; Oct. 11.
- Spectacle and eyeglass frame, Combination metal and nonmetal. E. R. Durgin. 1,640,824; Aug. 30.
- Spectacle case. H. M. Dadourian. 1,638,727; Aug. 9.
- Spectacle case. G. H. Day. Des. 74,101; Dec. 20.
- Spectacle, Electric. L. Zachara. Re16,521; Jan. 4.
- Spectacle frame. L. Dunkelsberg. Des. 71,864; Jan. 18.
- Spectacle frame. E. Pappert. Des. 73,144; July 26.
- Spectacle frame. E. Pappert. Des. 73,578; Oct. 4.
- Spectacle-frame blanks, Manufacturing compressed. W. P. Devine. 1,645,516; Nov. 15.
- Spectacle or eyeglass case. F. Robinson. 1,640,255; Nov. 15.
- Spectacle temple. J. N. Nelson. 1,630,964; May 31.
- Spectacle temple. J. W. Welsh. 1,636,340; July 19.
- Spectacle temple and making the same. F. A. Stevens. 1,649,787; Nov. 15.
- Spectacle temple and making the same. J. W. Welsh. 1,642,333; Sept. 20.
- Spectacle temple and making the same. J. W. Welsh. 1,642,333; Sept. 20.
- Spectacle temple, Extendible. L. A. Page. 1,625,050; Apr. 19.
- Spectacles. J. S. Galeski. 1,644,776; Oct. 11.
- Spectacles. D. E. Hickey. 1,636,740; July 26.
- Spectacles. L. C. King. 1,625,614; Apr. 19.
- Spectacle. Nose bridge of. O. Juch. 1,651,062; Nov. 29.
- Speculum, Vaginal. E. Guttman. 1,614,065; Jan. 11.
- Speech and music, Apparatus for the visual interpretation of. D. G. Blattner. 1,634,068; Dec. 27.
- Speech recording or reproducing machines, Record cylinder carrier of. W. Greenbaum. 1,644,335; Oct. 4.
- Speed-accelerating mechanism. T. J. Butler. 1,638,084; Aug. 9.
- Speed and direction indicator. C. Cobb and C. C. Marshall. 1,632,643; June 14.
- Speed-change mechanism. W. M. Mitchell. 1,623,695; Aug. 9.
- Speed changer. H. J. Smith. 1,629,180; May 17.
- Speed-changing mechanism. E. G. Kesling. 1,635,483; July 12.
- Speed-changing mechanism, Friction. R. E. Winters. 1,645,270; Oct. 11.
- Speed-control device. F. Kuehnel. 1,628,606; May 10.
- Speed-control equipment. C. C. Farmer and T. H. Thomas. Re16,814; Dec. 13.
- Speed-control mechanism. J. E. Renholdt. 1,625,093; Apr. 19.
- Speed-control system. L. Schombourger. 1,632,627; Aug. 9.
- Speed-control system. W. Selz. 1,632,632; June 14.
- Speed-controlling device. B. F. Puls. 1,647,580; Nov. 1.
- Speed device, Progressive change-. R. Esnault-Pelterie. 1,616,311; Feb. 1.
- Speed device, Variable. M. T. Weston. 1,621,915; Mar. 22.
- Speed-governing device. E. F. Brown. 1,623,655; Apr. 5.
- Speed governor. J. A. Miller. 1,639,265; Aug. 16.
- Speed governor. R. G. Richardson. 1,653,660; Dec. 27.
- Speed governor. G. Von Arco. 1,645,556; Oct. 18.
- Speed-indicating apparatus. P. A. Kourtzman. 1,632,976; June 21.
- Speed-indicating apparatus. G. Mombur. 1,651,347; Nov. 29.
- Speed-indicating device. A. P. Brant and C. M. Derby. 1,647,500; Nov. 1.
- Speed indicator. T. Collins, jr. 1,631,796; June 7.
- Speed indicator. G. H. Lang. 1,640,197; Aug. 23.
- Speed indicator. M. Marcus. 1,642,617; Sept. 13.
- Speed indicator. F. Mortensen. 1,630,963; May 31.
- Speed indicator, Electric. R. E. Woolley. 1,650,679; Nov. 29.
- Speed indicator, Ground-. R. Kauch. 1,635,045; July 5.
- Speed indicators, Construction of. C. H. H. Rodanet. 1,626,697; May 3.
- Speed indicators or the like by one of the steering wheels of a motor vehicle, Control for. C. H. H. Rodanet. 1,621,433; Mar. 15.
- Speed indicators or the like, Mechanism for controlling. C. H. H. Rodanet. 1,636,074; July 19.
- Speed induction-motor set, Variable-. C. W. Kincaid. 1,640,547; Aug. 30.
- Speed mechanism, Variable. W. C. De Roo and J. E. Larsh. 1,647,087; Oct. 25.
- Speed mechanism Variable. J. H. Wells. 1,628,939; May 17.
- Speed of driven members, Controlling the. P. B. Reeves. 1,626,584; Apr. 26.
- Speed reducer. A. Laukhuff. 1,641,766; Sept. 6.
- Speed-reducing apparatus. A. Barbier. 1,622,217; Mar. 22.
- Speed-reduction mechanism. A. J. Krause. 1,631,739; June 7.
- Speed-regulating system. K. Schmidt. 1,647,020; Oct. 25.
- Speed regulation. C. E. Carpenter. 1,627,832; May 10.
- Speed regulator. W. M. Bradshaw and J. H. Ashbaugh. 1,647,337; Nov. 1.
- Speed regulator. C. A. Hoxie. 1,618,757; Feb. 22.

- Speed regulator. K. Schmidt. 1,632,565; June 14.
 Speed regulator. H. E. Warren. 1,646,269; Oct. 18.
 Speed repeating mechanism. Variable. A. D. Trenor. 1,631,852; Dec. 6.
 Speed-responsive device. E. C. Vroman. 1,638,718; Aug. 9.
 Speed-responsive instruments. Drive for. A. F. Wallbillich. 1,634,565; July 5.
 Speed-selecting device. V. W. Balzer and J. M. Ballou. 1,644,872; Aug. 30.
 Speed transmission apparatus. Automatic change. T. Gensmer. 1,624,097; Apr. 12.
 Speed transmission. Automatic variable. S. E. Sander-son. 1,644,614; Oct. 4.
 Speed transmission. Change. G. J. Rackham. 1,631,338; June 7.
 Speed transmission. Controller for variable. M. O. Reeves. 1,626,299; Apr. 26.
 Speed-transmission mechanism. Multiple. H. G. Altwater. 1,616,342; Feb. 1.
 Speed transmission. Positive variable. M. Jaeger. 1,650,449; Nov. 22.
 Speed transmission. Variable. R. Lee. 1,648,000; Nov. 8.
 Speed transmission. Variable. R. H. Pratt. 1,641,692; Sept. 6.
 Speed transmissions. Controlling mechanism for variable. L. W. Melcher. 1,629,804; May 24.
 Speed variator. E. Cheshire. 1,616,027; Feb. 1.
 Speedway. A. Avery. 1,613,666; Jan. 11.
 Speed wrench. C. Callison. 1,626,719; May 3.
 Speeding reactions. Apparatus for. H. B. Kipper. 1,632,340; June 14.
 Speedometer. A. H. Joseph. 1,649,830; Nov. 22.
 Speedometer. G. Ramsey. 1,628,271; May 10.
 Speedometer. A. Seguin. 1,613,249; Jan. 4.
 Speedometer. A. Seguin. 1,618,310; Feb. 22.
 Speedometer and road indicator. J. L. Blanchard. 1,618,049; Feb. 15.
 Speedometer construction. J. M. Lea. 1,645,331; Oct. 11.
 Speedometer drive. D. H. Nash. 1,627,616; May 10.
 Speedometer-drive mechanism. E. L. McIntyre. 1,644,888; Oct. 11.
 Speedometer-driving mechanism. F. H. Lundgren. 1,648,489; Nov. 8.
 Speedometer-fastening means. T. D. Adair, jr. 1,622,897; Mar. 29.
 Speedometer for automobiles and the like. Indicating. T. E. Petersen and J. and E. Rasmussen. 1,615,553; Jan. 25.
 Speedometer-magnet compensator. F. G. Schwelthal. 1,623,558; Apr. 5.
 Speedometer. Magnetic. J. K. Olsen. 1,620,034; Mar. 8.
 Speedometer. Magnetic. J. K. Olsen. 1,623,550; Apr. 5.
 Speedometer. Magnetic. J. K. Olsen. 1,625,142; Apr. 19.
 Speedometer transmission drive. E. Gustafson. 1,650,125; Nov. 22.
 Sphygmomanometer. G. F. Beachler. 1,640,920; Aug. 30.
 Spigot. M. Shore. Des. 72,243; Mar. 15.
 Spike. P. C. Azzara. 1,642,066; Sept. 13.
 Spike-forming machine. F. C. Olin. 1,623,264; Apr. 5.
 Spike holder and driver. L. Viazzi. 1,652,851; Dec. 13.
 Spike machine. Automatic. G. Weber. 1,634,567; July 5.
 Spike. Railway. C. W. Jones and R. R. Gordon. 1,632,294; June 14.
 Spike retainer. H. O. Crippen. 1,621,768; Mar. 22.
 Spike retainer. H. O. Crippen. 1,628,656; May 17.
 Spinal-adjustment device. J. Kubista. 1,642,158; Sept. 13.
 Spinal brace. H. Pleper. 1,650,650; Nov. 29.
 Spindle: See—
 Door-knob spindle. Textile spindle.
 Lock spindle. Tool-driving spindle.
 Spindle. J. J. Flanagan. 1,633,084; June 21.
 Spindle and base. F. H. Chapman. 1,642,486; Sept. 13.
 Spindle attachment. A. M. Drake. 1,622,234; Mar. 22.
 Spindle attachment. Surfacing-machine. A. E. Maynard. 1,634,952; July 5.
 Spindle automatic machine. Multiple. R. M. Mero and R. J. Mullin. 1,650,374; Nov. 22.
 Spindle bolt. Adjustable. E. H. Rehn. 1,620,688; Apr. 15.
 Spindle carriage and clutch. M. Walker. 1,620,844; Mar. 15.
 Spindle. Extensible. J. Prokop. 1,647,747; Nov. 1.
 Spindle guard. Clear-vision. H. Hokmer and L. T. Johnson. 1,652,609; Dec. 13.
 Spindle machine. Multiple-tool. S. W. Fish. 1,625,116; Apr. 19.
 Spindle mounting. A. Turner and A. P. Burns. 1,619,995; Mar. 8.
 Spindle mounting for variable condensers. Rotor plate. E. Ross. 1,630,075; May 24.
 Spindle of fiber spinning. Roving and analogous machines. W. Prince-Smith and J. Robinson. 1,629,365; May 17.
 Spindle retainer. R. Lee. 1,626,252; Apr. 26.
 Spindle-stock guide. Head. J. Dahmen. 1,622,375; Mar. 29.
 Spindles and bobbins or spools. Friction connection for. E. J. Emery. 1,640,760; Aug. 30.
 Spindles. Bobbin-clutching means for rotatable. H. H. Burdett. 1,647,106; Oct. 25.
 Spindles. Bobbin-clutching means for rotatable. J. A. Miller. 1,647,103; Oct. 25.
 Spindles. Driving. J. Kirner. 1,642,815; Sept. 20.
 Spindles of deep-well rotary cutters. Retaining means for. P. K. Blauvelt. 1,636,689; July 19.
 Spine stretcher. J. R. Anderson. 1,614,641; Jan. 18.
 Spinnerette. R. V. Williams. 1,647,322; Nov. 1.
 Spinning. H. L. J. Chavassien. 1,622,368; Mar. 29.
 Spinning. H. L. J. Chavassien. 1,614,879; Jan. 18.
 Spinning and analogous machines. Driving mechanism of. W. Prince-Smith and D. Waterhouse. 1,649,761; Nov. 15.
 Spinning and like machines. Overhead gear-driven spindle mechanism for. O. Lambert. 1,654,876; Dec. 27.
 Spinning and twisting machine. E. E. Bradley. 1,631,949; Feb. 8.
 Spinning and twisting rings. Tool for removing travelers from. A. E. Whipple. 1,636,448; July 19.
 Spinning apparatus. F. Perutz. 1,649,322; Nov. 15.
 Spinning device. S. Gjakovich. 1,639,844; Aug. 23.
 Spinning device. A. T. Pettie. 1,623,133; Apr. 5.
 Spinning, doubling, and the like machines. Driving mechanism for. J. G. Barke and F. Hardman. 1,622,698; Mar. 29.
 Spinning, doubling, twisting, and like machines. Doffing mechanism for. A. and C. Rhodes. 1,639,968; Aug. 23.
 Spinning frame. L. B. Hasbrouck. 1,614,298; Jan. 11.
 Spinning frame. C. Morton. 1,619,985; Mar. 8.
 Spinning frame. Ring. E. Stubbs. 1,629,366; May 17.
 Spinning frames. Bunch-building mechanism for. W. T. Morgan. 1,627,615; May 10.
 Spinning frames. Leveling apparatus for spindles in. W. H. Fry. 1,616,686; Feb. 8.
 Spinning frames. Means for leveling and lining. A. M. Gullet. 1,616,084; Feb. 1.
 Spinning frames. Oiling traveler of. C. A. Pierce. 1,639,749; Aug. 23.
 Spinning frames. Pneumatic separator for. I. Linon and J. Dethier. 1,643,717; Sept. 27.
 Spinning frames. Stop-motion device for. J. P. Garey and L. B. Hasbrouck. 1,634,614; July 5.
 Spinning frames. Stop-motion device for. H. E. Van Ness. 1,636,945; July 28.
 Spinning frames. Underclearer for. W. A. Carpenter. 1,635,205; July 12.
 Spinning machine. H. D. Colman and B. A. Peterson. 1,614,718; Jan. 18.
 Spinning machine. O. Edelmann. 1,621,158; Mar. 15.
 Spinning machine. F. K. Hendrickson. 1,628,778; May 17.
 Spinning machine. A. Hirschmüller. 1,623,008; Mar. 29.
 Spinning machine. C. C. Jessen. 1,617,118; Feb. 8.
 Spinning machine. A. Lehner. 1,618,539; Feb. 22.
 Spinning machine. H. Schmid. 1,649,491; Nov. 15.
 Spinning machine. W. Stahlecker. 1,643,685; Sept. 27.
 Spinning-machine guide. H. Schneider. 1,613,247; Jan. 4.
 Spinning machines and the like. Filer for. H. C. Herr. 1,613,518; Jan. 4.
 Spinning machines and the like. Filer for. H. E. Herr. 1,614,652; Jan. 18.
 Spinning machines. Bobbin for. P. Sharp. 1,642,972; Sept. 20.
 Spinning machines. Oiler for. J. R. Milson. 1,625,488; Apr. 19.
 Spinning machines. Stop motion for. P. S. Giroux. 1,623,964; Apr. 12.
 Spinning machines. Support and brake for bobbins for. H. Deppermann. 1,630,610; May 31.
 Spinning machines. Twist tube for use in ring. J. E. Wenzel. 1,616,015; Feb. 1.
 Spinning machines. Twisting head for. S. H. Helland. 1,628,775; May 17.
 Spinning mechanisms. Lubricating and protecting means for. G. F. MacFarlane. 1,631,973; June 14.
 Spinning or doubling spindle. K. Meyer-Gaus. 1,645,960; Oct. 18.
 Spinning or winding machines. Builder mechanism for. J. A. Skedgel. 1,646,561; Oct. 25.
 Spinning or winding machines. Builder mechanism for yarn. H. H. Burdett. 1,644,643; Oct. 4.
 Spinning ring and traveler. C. F. Merrill. 1,646,063; Oct. 18.
 Spinning spindles. Bearing for. J. Kirner. 1,631,736; June 7.
 Spinning, twisting, and like frame. T. A. H. A., and J. Boyd. 1,639,794; Aug. 23.
 Spinning, twisting, and like frames. Self-doffing mechanism for. O. Lambert. 1,652,721; Dec. 13.
 Spinning, twisting and like frames. Spindle of. T. A. and H. A. Boyd. 1,624,713; Apr. 12.
 Spinning, twisting, and like machines. Actuating device for the ends of. J. J. Keyser. 1,646,542; Oct. 25.
 Spinning, twisting, and like machines. Doffing mechanism for. H. Schneider. 1,622,812; Mar. 29.
 Spinning, twisting, and like machines. Lappet and thread guide of. N. Cook. 1,629,069; May 17.
 Spinning, twisting, and winding machinery. Thread guide for the ends of. J. J. Keyser. 1,646,542; Oct. 25.
 Spinning wheel. Pyrotechnic. J. H. Shunk. 1,613,853; Jan. 11.
 Spiral baffle. M. F. Waters. 1,649,556; Nov. 15.
 Spiral bar. A. L. Bolton. 1,633,308; June 21.
 Spiral-forming machine. R. C. Pierce. 1,630,716; May 31.
 Spiral pull jack. G. Osanni. 1,654,011; Dec. 27.

- Spiral separator. F. Pardee. 1,617,345; Feb. 15.
 Spirit level. V. E. Ivarson. 1,630,122; May 24.
 Spilloons, Flushing and disinfecting apparatus for. F. Kaser. 1,614,069; Jan. 11.
 Splashboard. F. Wilkes. 1,618,032; Feb. 15.
 Splint. S. E. Carney. 1,651,339; Nov. 29.
 Splint. A. W. Jones. 1,643,850; Sept. 27.
 Splint. C. R. Spicer. 1,635,230; July 12.
 Splint, Arm. J. R. Sietland. 1,639,315; Aug. 23.
 Splint cutter. O. G. Simmons. 1,643,474; Sept. 27.
 Splint, Finger. R. D. Foulke. 1,617,942; Feb. 15.
 Splint, Fracture. H. Aderer. 1,638,006; Aug. 9.
 Splitting buck. E. Rolland. 1,652,959; Dec. 13.
 Splitting machine. D. W. Bunker and K. W. Cummings. 1,638,915; Aug. 16.
 Splitting machine. J. Gouldbourn and W. T. Minett. 1,638,929; Aug. 16.
 Splitting machine. A. E. Suttis and D. Edgar. 1,644,961; Oct. 11.
 Splitting machine, Veneer-. R. M. Barron. 1,640,023; Aug. 23.
 Splitting machines, Knife for. J. J. Heys and A. R. Braden. 1,628,840; May 17.
 Spoke, Adjustable. E. H. Madsen. 1,620,905; Mar. 15.
 Spoked wheel. H. B. Sankey. 1,614,901; Jan. 18.
 Spoked wheels constructed of pressed or stamped metal. C. Ayer. 1,613,127; Jan. 4.
 Spokes, Making and finishing. G. F. Scherer. 1,640,377; Aug. 30.
 Spokes, Method and apparatus for bending. T. F. Rainsford. 1,634,913; July 5.
 Spunge rubber. W. C. Snelling. 1,630,721; May 31.
 Spunge rubber and fabric articles, Making compound. M. S. Lower. 1,645,604; Oct. 18.
 Spunge-rubber articles, Continuous producing. F. V. Wedlock. 1,629,013; May 17.
 Spunge-rubber articles, Utilizing flexible molds for producing. H. M. Hood. 1,628,979; May 17.
 Spool. S. L. Schleppey and A. A. Bureau. 1,617,421; Feb. 15.
 Spool. H. H. Wermline. 1,629,562; May 24.
 Spool and making the same. S. R. Gleason. 1,630,791; May 31.
 Spool and pin cushion holder, Combination. F. Laftn. 1,642,860; Sept. 20.
 Spool, Carpet. W. H. Wilson. 1,630,155; May 24.
 Spool, Electromagnet. J. W. Wardell. 1,616,207; Feb. 1.
 Spool, Fiber head. C. E. Cundey. 1,630,058; May 24.
 Spool holder. F. J. Lederer. 1,652,310; Dec. 13.
 Spool, Metallic. V. Odquist. 1,635,495; July 12.
 Spool or reel. H. E. Bryant. 1,628,264; Apr. 26.
 Spool, Paper. B. E. Franke. 1,628,040; May 10.
 Spool, Ribbon. J. S. Duncan and H. E. Hubbard. 1,638,989; Aug. 16.
 Spool-stripping machine, Jack-. G. Crossland. 1,631,920; Nov. 13.
 Spool support. G. Crossland. 1,631,921; June 7.
 Spooler-bobbin holder. H. H. Burton. 1,621,059; Mar. 15.
 Spooling machine. H. S. Busey and W. A. Hallstrom. 1,627,831; May 10.
 Spooling mechanism and method. F. Honig. 1,627,239; May 8.
 Spooling process. B. A. Peterson. 1,646,833; Oct. 25.
 Spools, Making. A. C. Hopkins. 1,645,701; Oct. 18.
 Spools, reels, bobbins, and the like, Core for. H. W. Aderer. 1,625,585; Apr. 19.
 Spoon. T. L. Bear. Des. 73,475; Sept. 20.
 Spoon. S. V. James. Des. 72,769; May 31.
 Spoon. L. R. Zifferer. 1,614,270; Jan. 11.
 Spoon, Baby. M. W. Walker. 1,625,003; Apr. 19.
 Spoon, Baby medicine. R. E. Hodgman. 1,648,128; Nov. 8.
 Spoon, Dosage. H. D. Morgan and F. P. Bushey. 1,619,878; Mar. 8.
 Spoon hook. W. D. Elwood. 1,636,904; July 26.
 Spoon or analogous article. A. L. Barney. Des. 73,685; Oct. 25.
 Spoon or analogous article. A. L. Barney. Des. 73,735; Nov. 1.
 Spoon or similar article. G. N. Allen. Des. 72,657; May 17.
 Spoon or similar article. G. N. Allen. Des. 72,747; May 31.
 Spoon or similar article. E. T. Beck. Des. 72,786; June 7.
 Spoon or similar article. W. T. Brown. Des. 73,279; Aug. 23.
 Spoon or similar article. R. L. Danks and M. L. Baker. Des. 72,669; May 17.
 Spoon or similar article. R. L. Danks and M. L. Baker. Des. 73,282; Aug. 23.
 Spoon or similar article. H. C. Kirk. Des. 72,999; July 5.
 Spoon or similar article. J. Leach. Des. 73,384; Aug. 30.
 Spoon or similar article. J. Rothlis. Des. 74,026; Dec. 6.
 Spoon or similar article. A. H. Staf. Des. 73,149; July 26.
 Spoon or similar article. A. H. Staf. Des. 74,030; Dec. 6.
 Spoon or similar article. F. W. Stark. Des. 73,588; Oct. 4.
 Spoon or similar article. F. S. Trumbull. Des. 71,816; Jan. 4.
 Spoon or similar article. F. S. Trumbull. Des. 72,877; June 14.
 Spoon or similar article. W. S. Warren. Des. 72,048; Feb. 15.
 Spoon or similar article. W. S. Warren. Des. 72,920; June 21.
 Spoon, Tea-making. G. Lubrano. 1,648,906; Nov. 15.
 Sporting device and life preserver. A. L. Weeks. 1,647,677; Nov. 1.
 Spotlight. M. E. Anderson. 1,612,960; Jan. 4.
 Spotlight. F. C. Howe. 1,619,936; Mar. 8.
 Spotlight. J. M. Johnson. 1,614,744; Jan. 18.
 Spotlight. H. E. Montgomery. 1,652,452; Dec. 13.
 Spotlight. F. O. Rasor. 1,630,217; May 24.
 Spotlight. L. O. Surles. 1,638,718; Aug. 9.
 Spotlight. J. B. Tomlinson. 1,614,904; Jan. 18.
 Spotlight. C. A. Whitsett. 1,633,148; June 21.
 Spotlight, Adjustable. W. W. Gehersky. 1,612,806; Jan. 4.
 Spotlight, Adjustable. J. M. Johnson. 1,614,743; Jan. 18.
 Spotlight and cigar lighter, Combined. R. F. Schiele. 1,638,642; Aug. 9.
 Spotlight, Corner-post. H. Hansen. Des. 71,970; Feb. 8.
 Spotlight, Dirigible. T. P. Burton and S. W. Ford. 1,618,842; Jan. 11.
 Spotlight, Dirigible. W. C. Williams. 1,624,818; Apr. 12.
 Spotlight mounting. R. M. Freund. 1,625,413; Apr. 19.
 Spotlight mounting. J. E. Johnson. 1,614,745; Jan. 18.
 Spotlights and the like, Controlling switch for. E. G. K. Anderson. 1,632,754; June 14.
 Spotlights, Support for. H. J. Mescher. 1,649,175; Nov. 15.
 Spotting and labeling machine. C. H. Oslund and J. E. Johnson. 1,641,045; Aug. 30.
 Spot-welded point and point retainer. B. P. Lloyd. 1,618,353; Feb. 22.
 Spout. H. Piquet. 1,617,273; Feb. 8.
 Spout and spray fixture, Combination. M. J. Glauber. 1,653,956; Dec. 27.
 Spout, Chipper. W. J. White. 1,615,530; Jan. 25.
 Spout, Collapsible. B. A. McAnsh. 1,631,951; June 7.
 Spout, delivering gas under pressure. M. Zack. 1,615,562; Jan. 25.
 Spout, Portable foam-injection. T. S. Park. 1,650,647; Nov. 29.
 Spout, Pouring. J. M. Hotherhall. 1,620,024; Mar. 8.
 Spouts, Locking device for. V. De Lain. 1,641,881; Sep. 13.
 Spray appliance. M. Ascherl. 1,652,422; Dec. 13.
 Spray cooling. B. R. Sausen and H. D. Binks. 1,626,360; Apr. 26.
 Spray drying. A. B. Jones. 1,624,739; Apr. 12.
 Spray-drying apparatus. W. H. Dickerson. 1,648,937; Nov. 13.
 Spray-forming device. J. and E. A. Isenhardt and W. E. Johnson. 1,640,546; Aug. 30.
 Spray gun. W. F. Gradolph and G. Mueller. 1,613,823; Jan. 11.
 Spray gun. C. L. Reichenbach. 1,626,096; Apr. 26.
 Spray gun. B. R. Sausen and E. E. Olsen. 1,633,291; June 21.
 Spray, Hog. A. H. Eckerman. 1,620,013; Mar. 8.
 Spray marker. W. H. Cannard. 1,628,305; May 10.
 Spray nozzle. M. W. McCardle. 1,625,042; Apr. 19.
 Spray-painting. L. T. Mart. 1,614,430; Jan. 11.
 Spray processing apparatus. F. T. Zizina. 1,634,640; July 5.
 Spray, Vegetable. A. J. Lane. 1,653,809; Dec. 27.
 Spray, Water and soap. R. Swimmer. 1,616,514; Feb. 8.
 Sprayer. A. G. Bulle. 1,635,069; July 5.
 Sprayer. H. A. Chaffin and F. C. Holmes. 1,632,218; June 14.
 Sprayer. R. J. Coffey. 1,641,023; Aug. 30.
 Sprayer. H. D. Hudson. 1,639,294; Aug. 16.
 Sprayer. A. W. Kegler. 1,639,297; Aug. 16.
 Sprayer. W. M. Smith. 1,632,515; June 14.
 Sprayer, Liquid. F. T. and W. W. Stewart. 1,622,213; Mar. 22.
 Sprayer, Paint. H. O. Norris. 1,651,466; Dec. 6.
 Sprayers, Liquid strainer for orchard. L. W. Weaver. 1,645,364; Oct. 11.
 Spraying apparatus. E. M. Bassler. 1,636,949; July 26.
 Spraying apparatus. C. L. Burdick. 1,629,144; May 17.
 Spraying apparatus. W. Clauson. 1,640,111; Aug. 23.
 Spraying apparatus. F. C. Noel. 1,644,486; Oct. 4.
 Spraying apparatus. J. W. Williams. 1,634,701; July 5.
 Spraying apparatus, Molten material. L. P. Kovanda and J. H. Hubbell. 1,642,418; Sept. 13.
 Spraying apparatus, Plant-. J. B. Boyett. 1,638,758; Aug. 9.
 Spraying cabinet and apparatus. H. C. Bartling. 1,633,306; June 21.
 Spraying device. J. A. Brooks. 1,639,162; Aug. 16.
 Spraying device. J. A. Brown. 1,614,520; Jan. 18.
 Spraying device. S. Dellagala. 1,614,777; Jan. 18.
 Spraying device. J. W. Frazier and F. E. Hansen. 1,616,685; Feb. 8.
 Spraying device. N. W. Kreuder. 1,647,918; Nov. 1.
 Spraying device. J. H. Overton. 1,641,778; Sep. 6.
 Spraying device. A. B. Pickell. 1,636,070; July 19.
 Spraying device, Dust-laying. T. French. 1,628,458; May 10.
 Spraying device, Medicinal. J. F. Morgan, and W. A. Jones. 1,650,460; Nov. 22.

- Spraying device, Mouth. L. L. Tuorto. 1,646,942; Oct. 25.
- Spraying, Light motor-truck attachment for high-pressure. A. F. Burgess. 1,620,946; Mar. 15.
- Spraying machine. P. W. Ramer. 1,623,702; Apr. 5.
- Spraying machine. D. W. Smith. 1,632,047; June 14.
- Spraying machine. J. J. Steiger. 1,648,154; Nov. 8.
- Spraying machine. A. F. Stubenberg. 1,633,294; June 21.
- Spraying machine. G. A. Urbach. 1,654,059; Dec. 27.
- Spraying machine, Liquid. L. Rathiff. 1,643,518; Sept. 27.
- Spreader, H. Bussey. 1,637,601; Aug. 22.
- Spreader, S. W. Varnado. 1,639,203; Aug. 16.
- Spreader, Straw. E. F. Anderson. 1,639,447; Aug. 16.
- Spreader, Tire. V. R. Goeller. 1,626,460; Apr. 26.
- Spreader tool. J. L. Buchanan. 1,628,650; May 17.
- Spreading device, Portable. W. P. Tarrant. 1,639,238; Aug. 16.
- Spreading or sowing machine for root planting. H. C. Toomey. 1,636,536; July 19.
- Spring: See—
- Air spring. Lubricating spring.
- Bed spring. Machine spring.
- Car-truck spring. Multiple spring.
- Carburetor-choke-valve spring. Power spring.
- Ironing spring. Rail-joint spring.
- Laminated spring. Tube spring.
- Lubricating and internal-pressure spring. Vehicle spring.
- Lubricating and internal-pressure spring. Vehicular leaf spring.
- Spring. W. M. Bolt. 1,642,638; Sept. 13.
- Spring. J. W. Fryer. 1,622,711; Mar. 29.
- Spring. E. A. Laughlin. 1,643,073; Sept. 20.
- Spring. F. J. Smith. 1,628,561; May 10.
- Spring. C. I. Ware. 1,638,516; Aug. 9.
- Spring action. M. Stringer. 1,621,962; Mar. 22.
- Spring-anchoring means. D. Hanauer. 1,649,227; Nov. 15.
- Spring and manufacturing the same. E. B. Utter. 1,621,095; Mar. 15.
- Spring and recoil check. A. S. Samuels. 1,628,749; May 17.
- Springboard. F. Albach. 1,639,323; Aug. 16.
- Spring bottom. J. B. Brown. 1,642,225; Sept. 13.
- Spring bracket. E. B. Gurney. 1,613,750; Jan. 11.
- Spring bracket, Automatically-adjustable. N. Alikakos. 1,629,671; May 24.
- Spring clip. L. Mallette. 1,617,070; Feb. 8.
- Spring-clip hanger. J. R. Tate. 1,623,568; Apr. 5.
- Spring clips, Making. J. A. Hoffman. 1,641,631; Sept. 6.
- Spring clutch, Multiple. W. C. Starkey. 1,620,420; May 17.
- Spring compressor. D. C. Feather. 1,630,334; May 31.
- Spring compressor and replacer. J. E. Walnwright. 1,614,218; Jan. 11.
- Spring connection, Flexible. E. H. Belden. 1,616,842; Feb. 8.
- Spring construction. F. P. D'Arcy. 1,618,579; Feb. 22.
- Spring construction. H. G. Lord. 1,629,399; May 17.
- Spring construction, Rear. H. Athons. 1,629,672; May 24.
- Spring control. K. O. Schauman, S. R. Yancey, and J. L. Hild. 1,650,963; Nov. 29.
- Spring cover. F. D. Madge. 1,625,861; Apr. 26.
- Spring cover. H. C. Paul. 1,614,150; Jan. 11.
- Spring cover. F. Schlessor. 1,648,742; Nov. 8.
- Spring cover or wrapper, Leaf. S. L. Young. 1,645,493; Oct. 11.
- Spring-cross yieldable coupling. J. J. Serrell. 1,635,150; July 5.
- Spring-cushion construction. S. Suekoff. 1,621,091; Mar. 15.
- Spring cushion structure. P. Krakauer. 1,649,832; Nov. 22.
- Spring device. W. P. Albert. 1,649,643; Nov. 15.
- Spring equalizer. C. C. Goodrich. 1,615,376; Jan. 25.
- Spring-eye bender. J. O. Parrish. 1,619,537; Mar. 1.
- Spring for shock absorber. S. H. Bishop and N. F. McNaught. 1,642,058; Sept. 13.
- Spring governor. T. F. Williams. 1,632,257; June 14.
- Spring handle. W. Frellwitz. 1,649,730; Nov. 15.
- Spring hanger. W. T. Sandifer. 1,645,521; Oct. 18.
- Spring jack. R. A. Clarke. 1,617,477; Feb. 15.
- Spring jack. E. E. Yaxley. 1,653,029; Dec. 20.
- Spring lock. W. De Groot. 1,636,809; July 26.
- Spring lubricator. E. F. Blackburn. 1,615,065; Jan. 18.
- Spring lubricator. G. Kehler. 1,635,327; July 12.
- Spring manufacture. B. F. Hopkins. 1,650,941; Nov. 29.
- Spring motor. A. M. Babcock. 1,634,364; July 5.
- Spring motor. J. Buttigieg. 1,632,693; June 14.
- Spring motor. L. S. Gundersman. 1,649,826; Nov. 22.
- Spring motor. W. Rotter and E. J. Panish. 1,616,142; Feb. 1.
- Spring motor. J. Wolff. 1,616,731; Feb. 8.
- Spring roller. F. G. Withrow. 1,620,150; Mar. 8.
- Spring-rolling clip. J. M. Jackson. 1,616,805; Feb. 8.
- Spring-pad construction. A. B. Clisson. 1,630,655; May 31.
- Spring-pad construction. A. D. Maury. 1,630,665; May 31.
- Spring-pad construction. G. E. Ryan. 1,628,196; May 10.
- Spring plates, Apparatus for forming. W. H. Frater. 1,654,251; Dec. 27.
- Spring reel. B. G. Johnson. 1,648,948; Nov. 15.
- Spring seat. H. J. Pierson. 1,616,546; Feb. 8.
- Spring shackle and shock absorber, Combined. N. Skillman. 1,646,884; Oct. 25.
- Spring-shackle structure. W. A. J. Rieck. 1,621,028; Mar. 15.
- Spring stabilizer. C. Hlavacek. 1,615,874; Feb. 1.
- Spring stabilizer. A. J. Hollfield. 1,639,944; Aug. 23.
- Spring structure. D. Hanauer. 1,633,545; June 21.
- Spring structure. H. J. Tiffany. 1,618,852; Feb. 22.
- Spring structure. D. H. Van Hove. 1,632,936; June 21.
- Spring structure. Upholstered box. E. H. Hebenstreit. 1,629,977; May 17.
- Spring structures, Base frame for. G. Kolsmith. 1,650,284; Nov. 22.
- Spring structures, Base frame for. H. A. Palmer. 1,650,294; Nov. 22.
- Spring support. S. P. Bush. 1,629,475-6; May 24.
- Spring support. E. L. Schellens and J. S. Coffin, jr. 1,620,491-2; Mar. 8.
- Spring support, Fabricated. P. W. Johnson. 1,621,415; Mar. 15.
- Spring-supporting means and the like. E. Kreissig. 1,633,027; June 21.
- Spring surface bolt. S. S. Gold. 1,632,332; June 21.
- Spring-suspended sleeve. D. C. Klausmeyer. 1,650,756; Nov. 29.
- Spring suspension. C. H. Buckler. 1,620,070; Mar. 8.
- Spring suspension. A. F. Masury. 1,621,677; Mar. 22.
- Spring suspension and braking device. E. J. Piblad. 1,647,470; Nov. 1.
- Spring suspension device. D. B. Whitehill. 1,619,452; Mar. 1.
- Spring suspension device or shock absorber. E. J. Piblad. 1,626,966; May 3.
- Spring suspension means. L. A. Tussing. 1,616,559; Feb. 8.
- Spring suspension of motor and other vehicle bodies. J. M. Strachan. 1,632,841; Dec. 13.
- Spring-tension neutralizer. G. M. Cross. 1,618,516; Feb. 22.
- Spring terminal clip. A. P. Fahnestock. 1,622,631-2; Mar. 29.
- Spring tool. A. O. Erickson. 1,623,401; Apr. 5.
- Spring washer. C. H. Loutrel. 1,613,232; Jan. 4.
- Spring wheel. W. J. Beisel. 1,625,518; Apr. 19.
- Spring wheel. R. Chilton. 1,646,991; Oct. 25.
- Spring wheel. F. W. Decker. 1,622,905; Mar. 29.
- Spring wheel. J. R. Eid. 1,617,441; Feb. 15.
- Spring wheel. O. Hines. 1,625,025; Apr. 19.
- Spring wheel. G. H. Martin. 1,637,293; July 26.
- Spring wheel. C. F. Mendez. 1,625,270-1; Apr. 19.
- Spring wheel. W. W. Tew. 1,618,689; Feb. 22.
- Spring wheel. R. W. Wood. 1,616,734; Feb. 8.
- Spring winding machine. F. S. Folger and H. W. Altman. 1,636,747; July 12.
- Spring-winding machine. J. A. Hittle. 1,627,604; Apr. 12.
- Springs, Apparatus for winding. S. H. Hartshorn. 1,636,689; July 26.
- Springs, Device for gauging and adjusting. C. B. Emery. 1,615,117; Jan. 18.
- Springs, Machine for knotting. F. G. Fencil. 1,651,518; Dec. 1.
- Springs, Machine for shortening. J. A. Findora. 1,638,010; June 21.
- Springs, Manufacture of compound helical. J. F. Gall. 1,627,600; May 10.
- Springs, Metal casing for leaf. L. Skok. 1,624,683; Dec. 1.
- Springs, Protecting device for. B. Lowy. 1,616,133; Feb. 1.
- Springs used in hydrostatic logs for balancing the pressure, Adjusting arrangement for. K. G. Lissel. 1,644,783; Oct. 11.
- Sprinkler: See—
- Automatic sprinkler. Rotating sprinkler.
- Lawn sprinkler. Travelling lawn sprinkler.
- Sprinkler. C. A. Brewer. 1,612,964; Jan. 4.
- Sprinkler. W. A. Buckner. 1,651,582; Dec. 6.
- Sprinkler. G. Buelna. 1,640,751; Aug. 30.
- Sprinkler. F. A. Gerding. 1,615,010; Jan. 18.
- Sprinkler. W. L. Hawes. 1,651,837; Dec. 6.
- Sprinkler. C. F. Humphrey. 1,621,204; Mar. 15.
- Sprinkler. M. W. McArdle. Dec. 73,327; Aug. 23.
- Sprinkler. L. R. Nelson. 1,631,381; June 7.
- Sprinkler. E. W. Roberts. 1,647,582; Nov. 1.
- Sprinkler and rotor element therefor. L. Olschewski. 1,622,993; May 17.
- Sprinkler apparatus for fire extinguisher, Valve for automatic. S. Horton. 1,614,002; Jan. 11.
- Sprinkler bearing assembly, Lawn. G. Zint. 1,633,579; June 28.
- Sprinkler or fire extinguisher, Automatic. J. Taylor. 1,639,311; Aug. 23.
- Sprinkler stand. E. C. Bank. 1,649,649; Nov. 15.
- Sprinkler system. M. F. Silva. 1,636,444; July 19.
- Sprinkler system. J. P. Swan. 1,651,563; Dec. 6.
- Sprinkler system, Dry-pipe. A. J. Loepsinger. 1,644,534; Oct. 4.
- Sprinkler taps, Reinforcement for. E. H. Barker. 1,625,016; Apr. 19.
- Sprinkler with resistance motor. W. V. E. Thompson. 1,642,910; Sept. 20.
- Sprinklers, Automatic shut-off device for lawn. J. M. Noble. 1,642,821; Sept. 20.

- Sprinkling device. F. C. Orr. 1,649,179; Nov. 15.
 Sprinkling device, Lawn. W. H. Coles. 1,628,118; May 10.
 Sprinkling system, Automatic. J. A. Brooks. 1,638,519; Aug. 9.
 Sprinkling systems, Automatic sprinkler head for. H. M. Nacey. 1,626,863; May 3.
 Sprocket. M. P. Holmes. 1,642,856; Sept. 20.
 Sprocket chain and link therefor. W. F. Hall. 1,641,536; Sept. 6.
 Sprocket, Split. N. H. Scott. 1,623,814; Apr. 5.
 Sprocket, Traveling track. E. J. Armstrong. 1,643,598; Sept. 27.
 Sprocket wheel. C. Roraback. 1,630,313; May 31.
 Sprocket wheel, Expandible. W. H. Tschappat. 1,614,266; Jan. 11.
 Sprocket wheel, Renewable-rim. C. Roraback. 1,643,472; Sept. 27.
 Sprouter, Grain. C. W. Ashing. 1,637,250; July 26.
 Spudding shoe. J. A. Bellman. 1,647,772; Oct. 1.
 Spudding shoe. C. E. Gallman and F. Haire. 1,634,939; July 5.
 Spudding wheel. C. M. Heeter. 1,639,554; Aug. 23.
 Spuds, Making. C. P. Wetmore. 1,623,325; Apr. 5.
 Spur-hobbing machine. W. F. Zimmermann. 1,625,580; Apr. 19.
 Spur or prod for horses. W. R. Hill. 1,653,768; Dec. 27.
 Sputum-cup holder. M. M. Andrews. 1,647,427; Nov. 1.
 Square. E. W. Delph. 1,615,745; Jan. 25.
 Square, Adjustable framing, drafting, and bevel. S. J. Meester. 1,638,200; Aug. 9.
 Square and bevel, Combination. R. A. Dyke. 1,621,192; Mar. 15.
 Square and gauge, Frame. J. Bunker. 1,643,695; Sept. 27.
 Square and level, Combination. D. G. Gray. 1,653,561; Dec. 20.
 Square and protractor, Folding steel. G. S. Schvetz. 1,643,033; Sept. 20.
 Square, Combination. R. K. Collins. 1,618,862; Feb. 22.
 Square, Combination. R. W. Hauber. 1,640,804; Aug. 30.
 Square, Combination cut-off scriber and bevel. K. A. Wykooop. 1,635,374; July 12.
 Square, Foldable. J. A. McWilliams. 1,616,457; Feb. 27.
 Square, Hinged folding. E. J. Elsas. 1,653,993; Dec. 28.
 Square, Plotting. F. Holland. 1,623,117; Apr. 5.
 Square, plumb, level, and measure. A. Faell. 1,646,958; Oct. 25.
 Square, Taken-down. F. I. Kimball. 1,615,013; Jan. 18.
 Squares, Attachment for. J. L. Grass. 1,648,266; Nov. 8.
 Squares, Attachment for combination. A. Millemann. 1,617,453; Feb. 15.
 Squash-ball tester. P. G. Cole. 1,630,110; May 24.
 Squeezer, Fruit and vegetable. G. Alfisi. 1,615,734; Jan. 25.
 Squirrel-cage motor, Variable-speed. H. D. Hineline. 1,627,330; May 3.
 Stabilizer. A. N. Lucian. 1,634,950; July 5.
 Stabilizer. R. T. Newton. 1,616,327; Feb. 1.
 Stabilizer. J. M. Seawell. 1,625,224; Apr. 19.
 Stabilizer. M. M. Titterton. 1,645,079; Oct. 11.
 Stabilizing device. A. A. Ewald. 1,629,265; May 17.
 Stable peroxidized composition and making same. J. A. L. Van der Lande. 1,631,903; June 7.
 Stack forming and feeding mechanism. E. L. Smith and E. E. Phelon. 1,645,408; Oct. 1.
 Stacker. P. B. Johnson. 1,628,725; May 17.
 Stacker, Article. J. Dreger. 1,617,149; Feb. 8.
 Stacking and conveying mechanism. F. B. Roberts. 1,646,067; Oct. 18.
 Stacking and conveying mechanism. F. B. Roberts. 1,646,381; Oct. 18.
 Stacking device. G. A. Bell and J. H. Carson. 1,620,058; Mar. 8.
 Stacking device. W. F. Boettger. 1,652,698; Dec. 13.
 Stacking device or standard. I. N. Spencer. 1,619,641; Mar. 1.
 Stacking machine. G. Wilcox. 1,615,250; Jan. 25.
 Stacking machine, Portable. W. S. Young. 1,629,771; May 24.
 Staff base. E. E. See. 1,631,227; June 7.
 Staff support. H. G. Hays. 1,632,965; June 21.
 Staging book. C. C. Burmeister. 1,620,436; Mar. 8.
 Stair cleaner. L. E. Mackay. 1,635,119; June 21.
 Stair, Concrete. A. E. Schlager and B. M. Grossier. 1,613,774; Jan. 11.
 Stair covering, Reversible folded. E. Hyman. 1,635,084; July 5.
 Stair, Metallic. J. Lehman. 1,643,342; Sept. 27.
 Stair plate. H. Rosenblum and M. Schneider. 1,622,739; Mar. 29.
 Stair rod. J. Gronroos. 1,628,662; May 17.
 Stair square. C. A. Christianson. 1,624,535; Apr. 12.
 Stair tread. H. Frood. 1,624,405; Apr. 12.
 Stair-tread carrier. H. H. Bunker. 1,613,604; Jan. 11.
 Stairway, Concealed. B. Frazier. 1,633,321; June 21.
 Stairway, Disappearing. E. C. Loetscher. 1,614,006; Jan. 11.
 Stairway, Movable. F. E. Bessler. 1,636,280-1; July 19.
 Stake. W. E. White. 1,629,754; May 24.
 Stake, Anchoring. N. E. Bray. 1,635,923; July 12.
 Stake holder. C. Trevani. 1,634,762; July 5.
 Stalk cutter. J. A. McKay and P. H. Lynch. 1,628,730; May 17.
 Stalk cutter. O. T. Walters. 1,652,347; Dec. 13.
 Stalk cutter, Three-row. T. J. Smith. 1,650,472; Nov. 22.
 Stalk cutters and other wheeled agricultural implements, Lock for the wheeled axles of. J. A. McKay and P. H. Lynch. 1,620,369; Mar. 8.
 Stall and stanchion. A. Quade and A. H. Klumb. 1,631,337; June 7.
 Stall for animals, Operating. O. Stader and J. B. Olson. 1,621,760; Mar. 22.
 Stamp-affixing machine. W. F. Schweiger. 1,645,073; June 14.
 Stamp-canceling machine. J. W. Eskholme. 1,632,281; June 14.
 Stamp-canceling machine. J. W. Eskholme. 1,633,245-6; June 21.
 Stamp, Christmas-club saving. J. J. Hickey. Des. 72,533; Mar. 29.
 Stamp-dispensing machine. W. F. Schweiger. 1,625,827; Apr. 26.
 Stamp, Flexible hand. F. L. Lake. 1,640,414; Aug. 30.
 Stamp, Hand. H. Reichel. Des. 72,276; Mar. 22.
 Stamp, Hand. C. I. Stage. 1,641,507; Sept. 6.
 Stamp, Hand. A. C. Walker. 1,645,267; Oct. 11.
 Stamp pad. S. B. McCulloch. 1,636,311; July 19.
 Stamp, Pocket. E. L. Terry. 1,651,302; Nov. 29.
 Stamp, Printing. W. J. Pannier, Jr. 1,620,685; Mar. 15.
 Stamp, Rubber. M. L. Willard. 1,651,568; Dec. 6.
 Stamps, Figures, Production of. J. McGrevy. 1,632,305; June 14.
 Stampers in stamping mills, Lifting mechanism for. C. Dorn. 1,617,379; Feb. 15.
 Stamping and registering apparatus. J. T. F. Conti and P. H. L. Tiranty. 1,631,624; June 7.
 Stamping machine. S. Anthony. 1,649,438; Nov. 15.
 Stamping machine. J. F. Bochner. 1,630,824; May 31.
 Stamping machine. L. M. Krause. 1,613,463; Jan. 4.
 Stamping or printing device. A. C. de Waart. 1,652,709; Dec. 13.
 Stamping with full automatic presses, Method and apparatus for. J. J. Toppert. 1,650,669; Nov. 29.
 Stampings, Method and machine for separating danged nested. C. C. Manchester. 1,652,786; Dec. 13.
 Stamps, etc., Exhibit mount for. A. S. Traub. 1,627,624; May 10.
 Stanchion. W. Gutenkunst. 1,641,810; Sept. 6.
 Stanchion. E. J. Langer. 1,621,209; Mar. 15.
 Stanchion. G. Obelo. 1,627,527; May 3.
 Stanchion. A. Quade and A. H. Klumb. 1,636,072; July 19.
 Stand: See—
 Advertising stand. Pocket stand.
 Ash stand. Radiator-repair stand.
 Automobile stand. Receptacle stand.
 Boiler stand. Referee's stand.
 Card-drying stand. Service stand.
 Crane and motor stand. Shaft-driving stand.
 Creel stand. Shaving-cup stand.
 Dish stand. Shine stand.
 Disposing stand. Shoe-display stand.
 Display stand. Shoe-repair stand.
 Flapwort stand. Smoker's stand.
 Folding stand. Sprinkler stand.
 Gasoline-dispensing stand. Swing stand.
 Knockdown stand. Switch stand.
 Lamp stand. Telephone stand.
 Meter stand. Transport stand.
 Motor-cycle stand. Tub stand.
 Music stand. Typewriter stand.
 Nozzle stand. Vise stand.
 Plant stand. Votive stand.
 Stand. E. Kneche. 1,653,772; Dec. 27.
 Stand for a drinking set or similar article. P. Scheiner. Des. 72,499; Apr. 19.
 Stand for crocks, Tilting. J. Disibio. 1,627,490; May 3.
 Stand for fitting shoes. W. H. White. 1,646,717; Oct. 25.
 Stand for radio loud speakers or similar articles. F. Schwartz. Des. 73,760-1; Nov. 29.
 Standee. P. Barney. Des. 73,955; Nov. 29.
 Standing board. C. V. Jonasson and H. J. Boal. 1,640,326; Aug. 23.
 Standing boom. R. Johnston. 1,645,910; Oct. 18.
 Staple. J. B. Crofoot. 1,614,831; Jan. 18.
 Staple. M. De Bonis. 1,623,335; Apr. 5.
 Staple. C. B. Goodstein. 1,654,371; Dec. 27.
 Staple. E. B. Payson. 1,639,530; Aug. 16.
 Staple, Furring. G. F. Voight. 1,648,666; Nov. 8.
 Stapler. J. B. Crofoot. 1,621,496; Mar. 22.
 Stapler. J. B. Crofoot. 1,638,831; Aug. 16.
 Stapling and other machines. Feed attachment for. L. Tacke. 1,652,383; Dec. 13.
 Stapling device. J. D. Clemence. 1,644,176; Oct. 4.
 Stapling device. J. H. Routson. 1,622,293; Mar. 29.
 Stapling machine. W. Foley. 1,639,117; Aug. 9.
 Stapling machine. A. Fremont. 1,645,727; Nov. 8.
 Stapling machine. F. G. Hubbard. 1,635,470; Dec. 27.
 Stapling machine. J. H. Reed. 1,625,958; Apr. 26.
 Stapling machine or tacker. A. H. Maynard. 1,634,840; July 5.
 Stapling machines, Gauge mechanism for. H. G. Allen. 1,614,911; Jan. 18.

- Stapling mechanism. I. W. Litchfield. 1,653,052; Dec. 20.
- Stapling tags to articles. R. B. Kingman. 1,628,848; May 17.
- Stapling tool. C. J. Westin. 1,630,877; May 31.
- Staples, Clamping tool for wire-fence. J. A. Gaffney and M. J. Hanson. 1,621,631; Mar. 22.
- Starch-molding apparatus. A. L. Eausman. 1,627,138; May 3.
- Starch of esters, of the higher fatty acids, soluble in hydrocarbons of the aromatic series, Preparation from. P. Berthon. 1,651,366; Dec. 6.
- Starch system, Closed wet-. R. O. McCoy. 1,651,611; Dec. 6.
- Stars, Device for projecting. W. Bauersfeld. 1,616,736; Feb. 8.
- Starter, Engine. W. L. McGrath. 1,650,637; Nov. 29.
- Starting and stopping mechanism. M. H. Ballard. 1,640,871; Aug. 30.
- Starting device. U. S. Geiger. 1,632,399; June 14.
- Starting mechanism. J. P. Johnson. 1,646,202; Oct. 18.
- Statement and ledger sheet, Combined. G. O. Mobley. 1,624,618; Apr. 12.
- Static electricity from extractors. Conducting. J. Zimmerman and F. A. Glock. 1,651,983; Dec. 6.
- Static eliminator. J. Astrom and V. L. Tannehill. 1,625,445; Apr. 19.
- Station, Automatic. C. A. Butcher. 1,619,459; Mar. 1.
- Station, Automatic. C. E. Carey. 1,635,574; July 12.
- Station, Automatic. S. G. Leonard. 1,654,505; Dec. 27.
- Station, Automatic. C. M. Moss. 1,649,038; Nov. 15.
- Station, Automatic. W. L. Newmeyer. 1,626,688; May 3.
- Station, Automatic. W. L. Newmeyer. 1,638,872; Aug. 16.
- Station, Automatic. R. J. Wensley. 1,650,970; Nov. 29.
- Station-indicating device. W. B. Peeley and W. Danmar. 1,642,234; Sept. 13.
- Station indicator. E. Alessio. 1,615,153; Jan. 18.
- Station indicator. G. W. Farmer. 1,632,465; June 14.
- Station indicator. D. Friedman. 1,653,455; Dec. 20.
- Stations, Transfer system for automatic. R. J. Wensley and S. G. Leonard. 1,649,048; Nov. 15.
- Stationery and office-appliance assembler. F. A. Warren. 1,643,477; Sept. 27.
- Stationery holder. B. Suvan. 1,623,604; Apr. 5.
- Statuette. S. I. Berger. Des. 71,774; Jan. 4.
- Statuette. S. I. Berger. Des. 73,223; Aug. 9.
- Statuette. S. I. Berger. Des. 73,277; Aug. 23.
- Statuette. E. S. K. God. Des. 73,695; Oct. 25.
- Statuette. H. L. Kratz. Des. 72,099; Mar. 1.
- Statuette or similar article. W. H. Fulper. Des. 72,605; May 10.
- Stave-finishing machine. O. A. Melang. 1,645,015; Oct. 11.
- Stays bolts, Manufacture of steam-boiler. A. F. Pitkin. 1,628,063; May 10.
- Stay-out parking brake. E. C. Petsch. 1,633,348; June 21.
- Stays to box corners, Apparatus for applying. R. G. Clark. 1,617,321; Feb. 15.
- Steam accumulator plant. F. Wettstein. 1,637,066; July 26.
- Steam, air and signal line connection. C. E. Sullivan and L. Zabolitzky. 1,643,229; Sept. 20.
- Steam and air blower, High-speed. T. M. Eynon. 1,647,402; Nov. 1.
- Steam-applying device. S. A. Gott. 1,617,755; Feb. 15.
- Steam, Arrangement or system for the generation of. W. Wendroth. 1,632,575; June 14.
- Steam board. H. Betke. 1,620,753; Mar. 15.
- Steam boards, Attachment for. R. W. Dawn. 1,624,829; Apr. 12.
- Steamboat construction. H. Culp. 1,622,994; Mar. 29.
- Steamboat rudders, Suspension apparatus for. L. W. Cook. 1,618,175; Feb. 22.
- Steam boiler. C. J. Carlson and O. M. Elton. 1,637,929; Aug. 2.
- Steam boiler. L. D. Copeland. 1,640,535; Aug. 30.
- Steam boiler. C. W. Crowell. 1,634,020; June 28.
- Steam boiler. L. Glasgow. 1,641,162; Sept. 6.
- Steam boiler. C. H. Haas and L. J. Mitchell. 1,640,317; Aug. 28.
- Steam boiler. P. John. sr. 1,622,736; Mar. 29.
- Steam boiler. E. Kidwell. 1,629,954-5; May 24.
- Steam boiler. E. Kidwell. 1,647,638; Nov. 1.
- Steam boiler. F. W. Kronenberg. 1,625,549; Apr. 19.
- Steam boiler. P. N. F. Langen. 1,614,064; Oct. 4.
- Steam boiler. J. R. Magarvey. 1,634,787; July 5.
- Steam boiler. C. W. Oert. 1,642,692; Sept. 20.
- Steam boiler. E. G. Oldfield. 1,653,505; Dec. 20.
- Steam boiler. W. Siegerist. 1,631,344; June 7.
- Steam boiler. J. H. Taylor. 1,634,056; June 28.
- Steam boiler. P. Thomsen. 1,619,447; Mar. 1.
- Steam boiler. C. Uebelmesser. 1,653,828; Dec. 27.
- Steam boiler, Electrode. S. Kowalik. 1,650,632; Nov. 20.
- Steam-boiler feed. N. E. Lewis. 1,632,301; June 14.
- Steam boiler, High-pressure. J. Puchil. 1,636,985; July 26.
- Steam boiler, High-pressure. E. A. Hardison. 1,633,663; June 28.
- Steam boiler, Sectional. C. Z. and E. S. Alexander. 1,627,530; May 3.
- Steam-boiler water, Testing. R. E. Hall. 1,613,656; Jan. 11.
- Steam boilers, Apparatus for removing soot from. N. E. McClelland. 1,653,503; Dec. 20.
- Steam boilers, Composition for removing scales from. W. F. Stafford. 1,638,373; Aug. 9.
- Steam chambers, Drainage of. C. H. Atkins. 1,637,327; Aug. 2.
- Steam-circulating fitting. J. O. Woodsome. 1,628,382; May 10.
- Steam connection. C. W. Daughes. 1,650,787; Nov. 29.
- Steam engine. J. V. Giesler. 1,628,138; May 10.
- Steam engine. W. B. Lipscomb. 1,631,743; June 7.
- Steam engine. N. M. Lower. 1,643,671; Sept. 27.
- Steam engine. H. G. Mueller. 1,650,642-3; Nov. 29.
- Steam engine, Rotary. W. G. Parmele. 1,647,464; May 8.
- Steam-fitter's appliance. W. L. Graves. 1,622,506; Mar. 29.
- Steam generating and discharging device. E. E. Hodshon. 1,646,912; Oct. 25.
- Steam-generating apparatus. H. H. Mercer. 1,626,950; May 8.
- Steam-generating apparatus, Domestic. F. L. Middleton. 1,621,736; Mar. 22.
- Steam generator. H. S. Anderson. 1,634,604; July 5.
- Steam generator. W. Bey. 1,642,098; Sept. 13.
- Steam generator. G. A. Bryan. 1,634,351; July 5.
- Steam generator. T. Clarkson. 1,637,682; Aug. 2.
- Steam generator. C. Duquesne. 1,624,451; Apr. 12.
- Steam generator. J. R. Evans. 1,644,715; Oct. 11.
- Steam generator. W. B. Ewing. 1,632,438; June 14.
- Steam generator. O. H. Hartmann and A. Hermanuz. 1,621,505; Mar. 22.
- Steam generator. P. J. O. Miller. 1,639,953; Aug. 23.
- Steam generator. J. F. Oils. 1,627,450; May 3.
- Steam generator. E. B. Petrie. 1,652,252; Dec. 13.
- Steam generator. M. Robbins. 1,627,688; May 10.
- Steam generator. H. Swartz and P. C. Mulligan. 1,630,546; May 31.
- Steam generator. R. A. and J. Thom. 1,623,944; Apr. 5.
- Steam generator, Continuous-water-tube flash-type. J. H. O'Neil. 1,644,078; Oct. 4.
- Steam generator, Electric. E. J. Carroll. 1,646,746; Oct. 25.
- Steam generator for portable plants. W. Höjer. 1,619,671; Mar. 1.
- Steam generators, Steam-separating apparatus for. T. A. Peebles. 1,628,255; May 3.
- Steam-heated iron. A. Graf. 1,625,535; Apr. 19.
- Steam-heated iron. L. Swenson. 1,629,553; May 24.
- Steam hydraulic system. W. H. Ridgway. 1,626,556; Apr. 26.
- Steam-impelled motive apparatus. C. V. Haynes. 1,625,243; Apr. 5.
- Steam in an inclosed cycle, Method and apparatus for the generation and utilization of. W. P. Calne. 1,616,526; Feb. 8.
- Steam injector, Exhaust-. L. Friedmann and H. Deutsch. 1,653,954; Dec. 27.
- Steam injector, Exhaust-. N. T. McKee. 1,618,135; Feb. 15.
- Steam joint. F. W. Lindemann. 1,614,794; Jan. 18.
- Steam mangles, Safety device for. E. Rumsch. 1,639,386; Aug. 16.
- Steam plant. E. Constam. 1,634,609; July 5.
- Steam plant. G. Forner. 1,617,047; Feb. 8.
- Steam plant. J. Rutis. 1,622,875; Mar. 29.
- Steam plants, Automatic regulating means for. C. M. Terry. 1,653,324; Dec. 20.
- Steam power and heating plants, Regulating. O. H. Hartmann. 1,648,343; Nov. 8.
- Steam-power plants, Boiler for movable. O. H. Hartmann. 1,639,088; Aug. 16.
- Steam-power plants, Steam-condensing and boiler-water-supply apparatus of. H. Fothergill and H. Hillier. 1,629,028; May 17.
- Steam-power system. B. Schroeder. 1,625,336; Apr. 19.
- Steam press. M. M. Titterton. 1,654,353; Dec. 27.
- Steam pressing apparatus. N. Benacati. 1,641,876; Sept. 8.
- Steam separator. F. F. Emory. 1,632,280; June 14.
- Steamship-driving mechanism. A. Fletcher, jr., and J. A. Capstaff. 1,632,543; June 14.
- Steam shovel. H. J. Barnhart. 1,639,421; Aug. 16.
- Steam shovel. H. J. Barnhart. 1,646,781; Oct. 25.
- Steam shovel. J. E. Enderby. 1,637,689; Aug. 2.
- Steam shovels, Frame for. A. E. Rudy. 1,619,156; Mar. 1.
- Steam, Stopping leakage of. L. S. Watres. 1,640,062; Aug. 23.
- Steam superheater. H. E. Yarrow. 1,625,759; Apr. 19.
- Steam superheating unit. T. Carey. 1,634,670; July 5.
- Steam, System or arrangement for tapping or bleeding. H. Gleichmann. 1,653,560; Dec. 20.
- Steam through long-distance pipe lines, Conveying. O. H. Hartmann. 1,636,775; July 26.
- Steam trap. F. Basenau. 1,639,208; Aug. 16.
- Steam trap. F. A. Burrows. 1,627,271; May 8.
- Steam trap. H. C. Davis. 1,633,465; June 21.
- Steam trap. A. L. Grandstaff. 1,618,081; Feb. 15.
- Steam trap. A. L. Grandstaff. 1,623,003; Mar. 29.
- Steam trap. T. Haight. 1,642,023; Sept. 13.
- Steam trap. H. C. Macaulay. 1,631,876; June 7.
- Steam trap. F. Thomas. 1,619,898; Mar. 8.

- Steam trap, Expansion. R. J. Burns. 1,621,623; Mar. 22.
- Steam with a chemical constituent, Generating and impregnating. C. A. Brewer. 1,633,568; June 28.
- Steaming apparatus, Facial. A. E. Herrera. 1,637,077; July 28.
- Steaming device. T. E. Fitzstad. 1,616,036; Feb. 1.
- Steaming device. N. M. Homer. 1,653,569; Dec. 20.
- Steel. O. Pattermann. 1,625,741; Apr. 19.
- Steel. Alloy. W. H. Keen. 1,621,836; Mar. 22.
- Steel, Alloy impact-tool. F. A. E. Armstrong. 1,645,213; Oct. 11.
- Steel, Apparatus for treating. W. W. Hill. 1,623,537; Apr. 6.
- Steel articles, Case-hardening process for. F. Pacher. 1,635,384; July 12.
- Steel articles, Hardening. D. S. O'Donovan. 1,620,779; Mar. 15.
- Steel articles, Method and apparatus for heat-treating. J. P. Wyzalek. 1,627,682; May 10.
- Steel bar, Composite. P. J. Pauly. 1,630,631; May 31.
- Steel, Channeler. C. C. Hansen. 1,636,604; July 19.
- Steel chill, Rolled. W. W. Leck. 1,618,016; Feb. 15.
- Steel cross-tie, Twin. J. Ashman. 1,620,181; Mar. 8.
- Steel die and plate presses, Attachment for. E. O'Hara. 1,640,553; Aug. 30.
- Steel, Finishing cold-rolled. J. D. Crosby. 1,623,048; Apr. 6.
- Steel, Heat treatment of. E. F. Kenney. 1,619,025; Mar. 1.
- Steel, Making. J. K. Smith. 1,651,638; Dec. 6.
- Steel, Making basic, open hearth. J. L. Schueler. 1,628,281; May 10.
- Steel, Making molybdenum. F. M. Becket. 1,613,571; Jan. 4.
- Steel, Making molybdenum. F. M. Becket. 1,615,501; Jan. 25.
- Steel, Manufacture of. F. N. Speller. 1,617,726; Feb. 15.
- Steel of high-temperature stability. W. R. Shimer. 1,616,683; July 19.
- Steel of high-temperature stability. W. R. Shimer. 1,624,075; Apr. 12.
- Steel or other metals, Annealing or heat treating. F. W. Guilbert. 1,644,828; Oct. 11.
- Steel, Process and compound for tempering. J. F. Edwards. 1,648,044; Nov. 8.
- Steel, Production of thin. P. H. Brace. 1,619,399; Mar. 1.
- Steel railing. F. Cerny. 1,633,659; June 28.
- Steel retainer. C. C. Hansen. 1,632,373; June 14.
- Steel retainer. C. C. Hansen. 1,632,637; June 21.
- Steel retainer. C. C. Hansen. 1,646,091; Oct. 18.
- Steel retainer. F. M. Slater. 1,646,773; Oct. 25.
- Steel, Rustless alloy. J. T. Whiteley. 1,647,491; Nov. 1.
- Steel sash, Welding. C. J. McIntosh. 1,648,416; Nov. 8.
- Steel sheets, Manufacture of. W. E. Caugherty. 1,625,524; Apr. 19.
- Steel stock rack. H. S. Jones. 1,619,476; Mar. 1.
- Steel structural units, Machine for assembling. S. McComber. 1,615,335; Jan. 25.
- Steel tread, Adjustable safety. E. G. Patton. 1,617,346; Feb. 15.
- Steel tubing, Hook for forming. J. Fentress. 1,643,008; Sept. 20.
- Steel-wool buffer. W. H. Robbins. 1,636,196; July 19.
- Steel-wool holder. S. Gundersen. 1,633,702; Dec. 27.
- Steel-wool holder. B. G. Lance. 1,620,903; Mar. 15.
- Steel-wool machine. W. H. Robbins. 1,625,158; Apr. 19.
- Steel-wool-removing machine. W. H. Robbins. 1,625,159; Apr. 19.
- Steels for rock-drilling purposes, Opening the bores of. G. M. Nell. 1,651,930; Dec. 6.
- Steelyards, Flexible-beam connection for. L. S. Shively. 1,635,608; July 12.
- Steering apparatus, Motor-vehicle. G. N. Hill. 1,654,217; Dec. 27.
- Steering columns, Bushing for F. C. Morris. 1,636,528; July 19.
- Steering device. A. Kacziba. 1,621,206; Mar. 15.
- Steering device. H. Schroder. 1,620,237; Mar. 8.
- Steering device. O. D. Schwartz. 1,648,917; Nov. 15.
- Steering device, Trailer. J. E. Becker. 1,645,892; Oct. 18.
- Steering drive wheel. R. S. Trott. 1,613,065; Jan. 4.
- Steering gear. W. C. Anthony and W. B. Mackintosh. 1,630,046; May 24.
- Steering gear. L. W. Chase. 1,647,034; Oct. 25.
- Steering gear. H. M. Denyes and W. A. Kull. 1,627,839; May 10.
- Steering gear. C. W. Kelsey. 1,619,980; Mar. 8.
- Steering gear. H. Marles. 1,642,164; Sept. 13.
- Steering gear. W. Overdick. 1,633,415; June 21.
- Steering gear. B. Williams. 1,640,388; Aug. 30.
- Steering-gear attachment. A. G. Proulx. 1,623,751; Apr. 6.
- Steering-gear brake. N. C. Frikke. 1,635,210; July 12.
- Steering-gear-centering device. G. F. Colley. 1,633,695; June 28.
- Steering gear, Coaster-wagon. F. A. Pearl. 1,625,421; Apr. 19.
- Steering gear for automobile vehicles. A. B. Henninger. 1,633,209; June 21.
- Steering gear for road graders. E. C. Gledhill. 1,629,573; May 24.
- Steering gear, Hydraulic. C. H. Williams and M. L. Tucker. 1,621,916; Mar. 22.
- Steering-gear mechanism. E. Hassig. 1,618,588; Feb. 22.
- Steering-gear reduction. H. Ford. 1,633,890; June 28.
- Steering-gear stabilizer. J. F. Cavanagh. 1,636,588; July 19.
- Steering knuckle. R. Sirl. 1,643,034; Sept. 20.
- Steering knuckle, Adjustable. E. Bouch and T. R. Shriver. 1,642,640; Sept. 13.
- Steering mechanism. G. Cattaneo. 1,617,666; Feb. 15.
- Steering mechanism for vehicles. H. L. Weyers. 1,645,408; Oct. 11.
- Steering mechanism, Hydraulic. R. L. Francis. 1,615,075; Jan. 18.
- Steering mechanism, Road-vehicle. J. M. Larsh. 1,628,861; May 17.
- Steering-mechanism stabilizer for trailers. W. E. Plank. 1,631,332; June 7.
- Steering post, Adjustable. C. E. Postlethwait. 1,623,493; Apr. 5.
- Steering-post control. F. F. Chandler and R. E. Young. 1,631,795; June 7.
- Steering-post control-lever assembly. E. J. Gruenewald and D. E. Ross. 1,631,809; June 7.
- Steering-post guard. G. W. Cook. 1,647,903; Nov. 1.
- Steering posts, Horn button for. J. H. Dennis. 1,627,769; May 10.
- Steering posts of automobiles, Mail receptacle for. J. Rogers. 1,618,227; Feb. 22.
- Steering wheel. R. H. Chilton. 1,616,681; Feb. 8.
- Steering wheel. J. B. La Pierre. 1,646,410; Oct. 25.
- Steering wheel. J. B. La Pierre. 1,646,411; Oct. 25.
- Steering wheel. W. K. McQuown. 1,649,359; Nov. 15.
- Steering wheel. C. P. Nellis and A. W. Scott. 1,645,446; Oct. 11.
- Steering wheel. A. L. Roebuck. 1,618,137; Feb. 15.
- Steering wheel. G. M. Schwieman. 1,637,284; July 26.
- Steering wheel. H. J. Sewell and L. C. Wilking. 1,646,172; Oct. 18.
- Steering wheel, Armored. A. E. Bronson and E. F. Tobold. 1,652,234; Dec. 13.
- Steering-wheel attachment, Vehicle. H. R. East. 1,643,706; Sept. 27.
- Steering-wheel brake. A. P. Brush. 1,616,538; Jan. 18.
- Steering-wheel brake. E. G. Heinzelman. 1,624,598; Apr. 12.
- Steering-wheel handles of motor vehicles and the like, Cover for application to. A. G. Barrett and H. H. Burton. 1,641,311; Sept. 6.
- Steering wheel, Heating. S. Kuno. 1,615,635; Jan. 25.
- Steering-wheel holding device. J. W. Hoffman. 1,622,586; Mar. 29.
- Steering-wheel knob. D. E. Norcross. 1,620,223; Mar. 8.
- Steering-wheel lock. H. F. Ayoub. 1,621,051; Mar. 15.
- Steering-wheel lock. L. J. Hughes. 1,613,797; Jan. 11.
- Steering-wheel lock. L. Laxton and C. L. Trosper. 1,622,454; Mar. 29.
- Steering-wheel lock mechanism. D. J. Dolan. 1,622,575; Mar. 29.
- Steering wheel, Locking. H. D. Geyer and A. W. Scott. 1,640,763; Aug. 30.
- Steering-wheel reminder. H. E. Hodgson. 1,621,882; Mar. 22.
- Steering-wheel switch. E. H. Vincent. 1,646,074; Oct. 18.
- Steering-wheel warmer. A. D. White and J. B. Riley. 1,617,226; Feb. 8.
- Steering wheel, Wood-spoked. A. G. Jones. 1,642,029; Sept. 13.
- Steering wheels, Auxiliary hand grip for. J. V. H. Whipple. 1,614,417; Jan. 11.
- Steering wheels, Brake mechanism for. N. E. Wahlberg. 1,634,474; July 5.
- Steering wheels in vehicles, Arrangement for indication of position or direction of the. K. Stensaecker. 1,653,744; Dec. 27.
- Steering wheels, Lock for. L. Stabile. 1,630,979; May 31.
- Steering wheels, Lock for automobile. J. Coufal. 1,654,456; Dec. 27.
- Steering wheels, Signaling attachment for. M. B. Holstein. 1,621,408; Mar. 15.
- Stem-forming machine. A. Raus and E. B. Isaac. 1,646,258; Oct. 18.
- Stem-making machine. H. De Jong. 1,640,442; Aug. 30.
- Stemming machine. G. R. Cornwall. 1,641,120; Aug. 30.
- Stems of tobacco pipes, cigar holders, etc., Sanitary protector for. S. Ellis. 1,617,580; Feb. 15.
- Stencil and making same, Printing. S. S. Bendick. 1,626,323; Apr. 26.
- Stencil and making the same. A. M. Bates and J. E. Dancker. 1,636,546; July 19.
- Stencil and work holder, Magnetic. H. G. Crain. 1,624,538; Apr. 12.
- Stencil card, Colored. E. A. Geiger. 1,645,593; Oct. 18.
- Stencil-cylinder machine, Revolving. V. Rosato. 1,625,054; Apr. 19.
- Stencil device for electric-light bulbs. J. G. Niederer. 1,648,993; Nov. 15.
- Stencil duplicating device. E. E. Morlan. 1,643,028; Sept. 20.
- Stencil for convex surfaces. J. G. Niederer. 1,618,216; Feb. 22.
- Stencil machine and stencil therefor. H. P. Elliott. 1,637,443; Aug. 2.
- Stencil sheet. A. B. Davis. 1,633,072; June 21.

- Stencil sheet. A. B. Davis. 1,633,696; June 28.
 Stencil sheet. S. Horli. 1,645,141; Oct. 11.
 Stencil sheet. C. F. Kumli. 1,642,159; Sept. 13.
 Stencil sheet. W. H. Kurth. 1,643,019; Sept. 20.
 Stencil sheet and producing the same. A. B. Davis. 1,640,055; Nov. 15.
 Stencil sheet and stencil adapted for use in duplicating. S. Gestetter. 1,614,549; Jan. 18.
 Stencil sheets, Manufacture of. A. B. Davis. 1,639,080; Aug. 16.
 Stencil sheets, Process of and apparatus for making. J. D. Grange and E. F. Vosska. 1,614,609; Jan. 18.
 Stencilings. S. W. Fuert. 1,617,386; Feb. 15.
 Stencilling apparatus. W. H. Schoger. 1,619,587; Mar. 1.
 Stencilling machine. E. G. Rowley. 1,618,309; Feb. 22.
 Stencilling machine. E. G. Rowley. 1,638,461; Aug. 9.
 Stencils for duplicating apparatus, Manufacture of. P. Campion. 1,626,113; Apr. 26.
 Stencils, Making cloth. R. Tull. 1,622,747; Mar. 29.
 Step and repeat machine. O. Fournier. 1,620,336; Mar. 8.
 Step, Extension. E. R. Lundquist. 1,628,505; May 10.
 Stepladder. O. Frisk. 1,648,844; Nov. 8.
 Stepladder. J. E. Kalgren. 1,641,591; Sept. 6.
 Stepladder. G. E. Olson and A. J. Williams. 1,633,902; June 28.
 Stepladder. B. E. Willett. 1,624,569; Apr. 12.
 Stepladder. F. G. Yawman. 1,649,206; Nov. 15.
 Stepladder and chair, Combination. A. I. Johnson. 1,630,747; May 31.
 Stepladder-assembling machine. J. E. Kalgren. 1,645,414; Oct. 11.
 Stepladder, Combination. E. A. Cardarelli. 1,635,705; July 12.
 Step plate and luggage carrier, Combination. A. Sundborg. 1,641,510; Sept. 6.
 Stepping mechanism. M. P. Chaplin. 1,636,170; July 19.
 Stepping mechanism. M. P. Chaplin. 1,653,888; Dec. 27.
 Stepping switch. H. W. Goff. 1,614,953; Jan. 18.
 Stereopticon-control device. G. S. Vernam. 1,650,671; Nov. 29.
 Stereopticon views and cinematographic films, Projection apparatus for. C. M. Fox. 1,641,956; Mar. 15.
 Stereoscope. J. B. Wantz. 1,649,878; Nov. 22.
 Stereoscopic projection. A. Chessin. 1,652,558; Dec. 13.
 Stereotype plate mechanism. A. A. Henzi. 1,637,041; Aug. 2.
 Stereotype plates, Apparatus for casting curved. S. Werbner. 1,631,944; June 7.
 Stereotype plates, Casting curved and flat. J. P. Catlin. 1,623,997; Apr. 12.
 Stereotype plates, Conveyor for segmental. W. Hall. 1,652,939; Dec. 13.
 Stereotype plates, Machine for finishing curved. C. E. Hopkins. 1,652,717; Dec. 13.
 Stereotype plates, Machine for operating upon. W. Evensen. 1,614,290; Jan. 11.
 Sterilization of liquids, Process and material for. A. Schreier. 1,642,089; Sept. 13.
 Sterilizer. T. R. Kragen and T. A. Errett. 1,620,360; Mar. 8.
 Sterilizer. J. H. Woolsey. 1,618,622; Feb. 22.
 Sterilizer, Dental hand-piece. J. E. Keefe. 1,647,637; Nov. 1.
 Sterilizer, Instrument. A. Amann. 1,647,070; Oct. 25.
 Sterilizer, Receptacle. C. Braun. 1,632,588; June 14.
 Sterilizing and washing machine. L. F. Utz. 1,624,026; Apr. 12.
 Sterilizing apparatus. J. O. Golden. 1,651,346; Nov. 29.
 Sterilizing apparatus. B. E. Taylor. 1,646,713; Oct. 25.
 Sterilizing apparatus. B. E. Taylor. 1,646,715; Oct. 25.
 Sterilizing cotton and other seeds. P. H. Rylander. 1,641,097; Aug. 30.
 Sterilizing device. A. Fischer. 1,614,950; Jan. 18.
 Stereoscope. S. Sato. 1,617,652; Feb. 15.
 Stewpots or similar article. S. Dachman. Des. 73,070; July 19.
 Stiletto. C. E. Winkler. 1,631,175; June 7.
 Still. H. E. Gilbert. 1,621,319; Mar. 15.
 Still. H. M. Lasher. 1,622,452; Mar. 29.
 Still cleaner. J. W. Booth. 1,616,777; Feb. 8.
 Still, Cracking. A. A. Phelan. 1,649,929; Oct. 25.
 Still, Coking. R. Cross. 1,622,673; Mar. 29.
 Still control, Tube. F. M. Poole. 1,615,481; Jan. 25.
 Still, Household. W. J. Carlson and J. J. Lanahan. 1,635,112; July 5.
 Still, Oil. J. Primrose. 1,614,689; Jan. 18.
 Still, Oil-cracking. E. C. Horli. 1,615,583; Jan. 25.
 Still regulation, Tube. F. M. Poole. 1,615,480; Jan. 25.
 Still, Steam-jacketed. W. Knapp. 1,639,189; Aug. 16.
 Still, Water. E. V. Oliver. 1,625,223; Apr. 19.
 Stills, Apparatus for heating. G. D. White. 1,621,298; Mar. 15.
 Still, Carbon-removing mechanism for. J. M. Wadsworth. 1,624,083; Apr. 12.
 Stills, Chain brush for. W. Knapp. 1,621,417; Mar. 15.
 Stills, Condenser for. E. V. Oliver. 1,628,736-7; May 17.
 Still, L. R. Root. 1,613,535; Jan. 4.
 Still, and hook. Disconnecting. T. F. Johnson, jr. 1,613,525; Jan. 4.
 Stirrup pad. H. F. Berbaum. 1,639,073; Aug. 16.
 Stitch pick. H. A. Rowlett. 1,642,510; Sept. 13.
 Stitch-picking device. O. Peterson. 1,644,444; Oct. 4.
 Stitch remover. J. Schildknecht. 1,624,013; Apr. 12.
 Stitch remover. C. F. Wilber. 1,638,899; Aug. 16.
 Stitching. D. E. Hennessy. 1,633,326; June 21.
 Stitching machine. E. Leschhorn. 1,612,870; Jan. 4.
 Stitching machines, Feeding mechanism for. J. A. Jacobson. 1,618,591; Feb. 22.
 Stock beater. C. W. Shartie. 1,624,875; Apr. 12.
 Stock-fitting machine. J. E. Jackson. 1,632,232; June 14.
 Stock-fitting machine. H. A. Rising. 1,649,253; Nov. 15.
 Stock fountain. G. H. Brechtbill. 1,650,489; Nov. 22.
 Stock guard. I. E. Cumpston and L. N. Fyzer. 1,646,476; Oct. 25.
 Stock guard and pass way, Combined. F. Frnka. 1,616,361; Feb. 1.
 Stock guard and passway, Combined. F. Frnka. 1,653,357; Dec. 20.
 Stock waterer. J. W. Kirby. 1,616,532; Feb. 8.
 Stocking. B. Breyer. Des. 72,143; Mar. 8.
 Stocking. W. D. Butz. 1,625,523; Apr. 19.
 Stocking. J. E. Fitzgibbon. Des. 73,561; Oct. 4.
 Stocking. R. F. Friedrich. Des. 72,365; Apr. 5.
 Stocking. J. Greco. Des. 71,790; Jan. 4.
 Stocking. E. B. Mosser. Des. 74,118; Dec. 20.
 Stocking. E. O. Nebel. Des. 72,392; Mar. 22.
 Stocking. E. O. Nebel. Des. 73,620; Oct. 11.
 Stocking. I. Patterson. Des. 72,865; June 14.
 Stocking. W. E. Zander. Des. 73,274; Aug. 16.
 Stocking and method of making same, Seamless knit, clocked. C. H. Taubel. 1,619,788; Mar. 1.
 Socking and sock. A. M. S. Schrieber. 1,640,255; Aug. 2.
 Stocking and the like and finishing the same. C. S. McMaster. 1,616,537; Feb. 8.
 Stocking and the manufacture thereof. R. W. Scott. 1,616,795; Nov. 22.
 Stocking and the manufacture thereof. R. W. Scott. 1,616,744; July 26.
 Stocking, Infant's. M. Heilman. 1,621,200; Mar. 15.
 Stocking, Knitted. R. Hinchliff. 1,640,199; Oct. 18.
 Stocking or similar article. S. Silverman. Des. 73,714; Oct. 25.
 Stocking protector. C. H. Willette. 1,635,298; July 12.
 Stocking for use. E. Sanborn. 1,616,003; Feb. 1.
 Stocking with longitudinal and transverse reinforcements. O. Rottloff. 1,621,133; Mar. 15.
 Stockings, Making. P. Weissbach. 1,652,849; Dec. 13.
 Stockings, Rubber protector for. A. Henderson. 1,619,934; Mar. 8.
 Stoker. O. Aram. 1,624,651; Apr. 12.
 Stoker. C. L. Davidson. 1,626,791; May 3.
 Stoker. J. Harrington. 1,613,324; Jan. 4.
 Stoker. E. Lundgren. 1,623,424; Apr. 5.
 Stoker. E. Lundgren. 1,636,376; July 19.
 Stoker. D. J. Mosshart. 1,619,480; Mar. 1.
 Stoker. L. R. Stowe. 1,627,715; May 10.
 Stoker, Air control. O. O. Nygaard. 1,625,276; Apr. 19.
 Stoker, Automatic. E. Lundgren. 1,623,060; Apr. 5.
 Stoker, Automatic. E. Lundgren. 1,636,375; July 19.
 Stoker, Automatic. M. Ratel. 1,635,501; July 12.
 Stoker, Forced-draft. A. P. Strong. 1,632,423; June 14.
 Stoker furnace. T. A. Marsh. 1,620,270; Mar. 8.
 Stoker, Locomotive. W. T. Capps and H. G. Mastin. 1,642,299; Sept. 13.
 Stoker, Locomotive. N. M. Lower. 1,634,467; July 5.
 Stoker, Locomotive. N. M. Lower. 1,637,491; Aug. 2.
 Stoker, Mechanical. W. M. Duncan. 1,625,077-9; Apr. 19.
 Stoker, Mechanical. A. B. Fahnstock. 1,647,126; Nov. 1.
 Stoker, Mechanical. C. F. Miller. 1,624,004; Apr. 12.
 Stoker-ram drive. D. F. Grahame. 1,632,401; June 14.
 Stoker, Underfeed. O. Aram. 1,630,774; May 31.
 Stoker, Underfeed. R. L. Beers. 1,625,975; Apr. 26.
 Stoker, Underfeed. E. Lundgren. 1,623,423; Apr. 5.
 Stoker, Underfeed. E. Lundgren. 1,629,282-3; May 17.
 Stoker, Underfeed. W. F. Trotter. 1,640,164; Aug. 23.
 Stoker, Air box for. R. A. Foresman. 1,617,479; Feb. 15.
 Stokers, Air-control means for mechanical. C. F. Miller. 1,620,672; Mar. 15.
 Stokers, Ash-discharge mechanism for mechanical. I. A. Taylor and C. H. Rich. 1,651,484; Dec. 6.
 Stokers, Automatic feed-controlling system for mechanical. D. J. MacLean. 1,649,537; Nov. 15.
 Stokers, Conveyor for. A. M. Hunt. 1,640,704; Aug. 30.
 Stokers, Delivering coal to hoppers of continuous fuel-feed. A. F. Strouse. 1,624,079; Apr. 12.
 Stokers, Distributor tube for. N. M. Lower and A. R. Chalker. 1,616,076; Sept. 13.
 Stokers, Drive for. D. F. Grahame. 1,639,087; Aug. 16.
 Stokers, Dumping mechanism for mechanical. R. S. Riley. 1,651,468; Dec. 6.
 Stokers, Fuel-distributing means for underfeed. R. L. Beers. 1,620,509; Mar. 8.
 Stokers, Fuel-distributing mechanism for underfeed. I. A. Taylor. 1,635,234; July 12.
 Stokers, Lower ram for. C. F. Miller. 1,616,865; Feb. 8.
 Stokers, Rear-end structure for rear-dump. R. L. Beers. 1,630,464; May 31.
 Stokers, Retort unit for. R. A. Foresman. 1,630,738; May 31.
 Stokers and other stone or rock products, Preparing a material for the manufacture of artificial. R. Schoenhoefer. 1,633,132; June 21.

- Stone crusher. E. F. Cookinham. 1,620,078; Mar. 8.
 Stone crushers and the like, Jaw or breaker plate for
 P. Bechgaard. 1,643,048; Sept. 20.
 Stone, Curling. P. McLeod. 1,637,754; Aug. 2.
 Stone-cutting machine. E. and F. D. Bolton. 1,627,142;
 May 3.
 Stone-dressing tool. G. Maehl. 1,622,915; Mar. 29.
 Stone-dressing tool. E. Romazzi. 1,628,352; May 10.
 Stone in coal mines, Unit for crushing and distributing
 powdered. S. Tescher. 1,631,233; June 7.
 Stone, Manufacturing artificial. O. A. Tanner. 1,617,927;
 Feb. 15.
 Stone or marble, Artificial. L. E. Welch. 1,626,577;
 Apr. 26.
 Stone picker. H. Morris. 1,625,560; Apr. 19.
 Stone, blocks, bricks, or the like, Press for the manu-
 facturing of artificial. H. Ackermann. 1,652,884; Dec.
 13.
 Stones or the like, Machine for splitting of. C. G. Smith.
 1,651,973; Dec. 6.
 Stooking machine. J. F. Willows. 1,639,123; Aug. 16.
 Stool, Adjustable. E. H. Irvine. 1,615,273; Jan. 25.
 Stool and chair construction. W. Edwards. 1,641,129;
 Aug. 30.
 Stool, Camp. R. F. Franzdorf. 1,635,828; July 12.
 Stool, Camp. W. Witkowski. 1,619,686; Mar. 1.
 Stool, Foldable. A. P. Ables. 1,652,922; Dec. 13.
 Stool, Knapsacklike carrying frame and camp. J. J.
 Bönner. 1,615,159; Jan. 18.
 Stool, Lunch-counter. J. F. Huckel. Des. 72,015;
 Feb. 15.
 Stool, Lunch-counter. J. F. Huckel. 1,626,832; May 3.
 Stool, Milking. J. G. Rief. 1,652,639; Dec. 13.
 Stool or table, Folding. E. F. James. 1,652,942; Dec. 13.
 Stool, Stepladder. E. L. Reed. 1,644,856; Oct. 11.
 Stool, steps, and tool box, Combined. A. A. Jeannotte.
 1,635,183; July 12.
 Stools, stands, and the like, Construction for metal.
 S. A. Flowers. 1,621,245; Mar. 15.
 Stop bar. R. J. Langer. 1,621,210; Mar. 15.
 Stopcock. M. Himmerich. 1,627,974; May 10.
 Stopcock, Self-closing. E. V. Sprague. 1,631,166; June 7.
 Stop device. J. Manofsky. 1,642,422; Sept. 13.
 Stop device, Safety. J. Reid. 1,628,332; May 10.
 Stop for rotating parts. E. M. Shinkle. 1,625,571;
 Apr. 19.
 Stop indicator. M. Schlesinger. 1,648,327; Nov. 8.
 Stop mechanism. S. Magnano. 1,630,708; May 31.
 Stop mechanism. J. H. Reed. 1,636,324; July 19.
 Stop mechanism, Safety. J. W. Thropp. 1,621,442;
 Mar. 15.
 Stop mechanism. C. C. Wilson. 1,653,076; Dec. 20.
 Stop motion. H. Doherty, Jr. 1,646,642; Oct. 25.
 Stop motion, Automatic. A. J. Gallant. 1,651,761;
 Dec. 6.
 Stop-motion apparatus for use in machines employing
 conveyed trays or equivalents. W. E. Prescott.
 1,613,330; Jan. 4.
 Stop signal, Safety. M. D. Smith. 1,653,441; Dec. 20.
 Stopper: See—
 Bottle stopper. Gas-main stopper.
 Crown stopper. Pipe stopper.
 Plug stopper.
 Stopper for containers. F. Lobl. 1,650,760; Nov. 29.
 Stopper for the discharge opening of traps. B. J. Bengt-
 son. 1,654,448; Dec. 27.
 Stopper made of pasteboard, Waxed milk-bottle. C. and
 L. M. Bradley. 1,625,706; Apr. 19.
 Stopper or closure member for containers. E. Druiff.
 1,614,236; Jan. 11.
 Stoppers and the like, Attachment for. J. D. Coughlin.
 1,650,264; Nov. 22.
 Stopple. W. F. Schacht. 1,646,112; Oct. 18.
 Storage and conveying apparatus, Motion. E. A. White.
 1,619,906; Mar. 3.
 Storage and filter tank, Water. H. O. Dahlin.
 1,653,204; Dec. 20.
 Storage and handling system, Material. R. H. Beaumont.
 1,622,566; Mar. 29.
 Storage apparatus. W. Laird. 1,628,635; May 10.
 Storage-battery separator. R. C. Benner. 1,653,614;
 Dec. 27.
 Storage-battery separator. P. E. Norris. 1,644,853;
 Oct. 11.
 Storage batteries, Indicator for. R. D. Mowry.
 1,625,047; Apr. 19.
 Storage batteries, Manufacturing. C. M. Angell.
 1,622,304; Mar. 29.
 Storage battery. R. C. Benner. 1,631,511; June 7.
 Storage battery. S. A. Breuls. 1,639,922; Aug. 23.
 Storage battery. C. L. Dickerson. 1,652,097; Dec. 6.
 Storage battery. T. A. Edison. Re16,614; May 3.
 Storage battery. T. A. Edison. 1,651,196; Nov. 29.
 Storage battery. A. D. and C. Gritman. 1,645,698;
 Oct. 18.
 Storage battery. W. E. Holland and W. H. Grinditch.
 1,644,590; Oct. 4.
 Storage battery. F. T. Lahey. 1,633,257; June 21.
 Storage battery. H. Lesley. 1,613,955; Jan. 11.
 Storage battery. A. Miller. 1,613,617; Jan. 11.
 Storage battery. C. E. Ordén. 1,633,224; June 21.
 Storage battery. G. V. Poillon. 1,622,230; Mar. 22.
 Storage battery. A. Setzer. 1,618,112; Feb. 15.
 Storage battery. W. H. Wood. 1,634,527; July 5.
 Storage battery, Automobile. O. C. Towle. 1,622,550;
 Mar. 29.
 Storage-battery cell and the like. J. Waddell. Re-
 16,848; Feb. 8.
 Storage-battery container. C. J. Dunzweller. 1,639,492;
 Aug. 16.
 Storage-battery container. L. O. Percy. 1,635,976;
 July 12.
 Storage-battery cover. D. Grill. 1,618,528; Feb. 22.
 Storage battery, Electric. J. L. Woodbridge. 1,638,427;
 Aug. 9.
 Storage-battery elements, Making. L. C. Werking.
 1,613,211; Jan. 4.
 Storage battery grids, Apparatus for and method of
 forming. J. Prachar. 1,636,242; July 19.
 Storage-battery manufacture. J. M. Lea. 1,616,585;
 Feb. 8.
 Storage-battery-plate separator. J. H. Meyer. 1,622,961;
 Mar. 29.
 Storage-battery plates and separators, Insulating means
 for. E. W. Fletcher. 1,641,842; Sept. 6.
 Storage-battery plates, Machine for coating, Electric.
 W. H. Nordhaus. 1,637,426; Aug. 2.
 Storage battery plates, Manufacturing. W. J. Plews.
 1,629,636; May 24.
 Storage-battery separator. W. T. Foley. 1,641,379;
 Sept. 6.
 Storage-battery system. O. C. Wiederhold. 1,626,488;
 Apr. 26.
 Storage-battery terminal. R. R. Beasley. 1,623,332;
 Apr. 5.
 Storage-battery terminal. M. E. Rutherford. 1,630,218;
 May 24.
 Storage-battery terminal connection. G. Spurgeon.
 1,635,351; July 12.
 Storage-battery terminal, Connection for. A. C. Collins.
 1,614,880; Jan. 18.
 Storage building. F. E. d'Humy. Re16,738; Sept. 20.
 Storage cell and electrode therefor. R. C. Benner and
 H. F. French. 1,639,280; Aug. 16.
 Storage-cell cover. W. K. Fleming and A. M. Baehr.
 1,616,615; Feb. 8.
 Storage cells, Active-material support for. R. C. Ben-
 ner. 1,651,989; Dec. 6.
 Storage conveyor. C. E. Fuller. 1,642,992; Sept. 20.
 Storage plant, to preserve by nature. J. B. Killion.
 1,629,392; May 17.
 Storage system for and storing and removing from stor-
 age a liquid. M. B. Anfenger. 1,626,066; Apr. 26.
 Storage tank. E. M. Clark. 1,643,924; Sept. 27.
 Storage tank. B. S. Snow. 1,621,959; Mar. 22.
 Storage vessels, Testing pressure. G. Schworetzky.
 1,613,962; Jan. 11.
 Store equipment, Self-serving. R. T. Morris. 1,625,490;
 Apr. 19.
 Store fixture, Revolving. F. B. Mitchell. 1,635,334;
 Apr. 12.
 Store fixtures, Arrangement and construction of. C.
 Saunders. 1,647,889; Nov. 1.
 Store-front construction. E. Michaels. 1,621,375;
 Mar. 15.
 Store-front construction. B. E. Myers. 1,624,620;
 Apr. 12.
 Store, Self-serving. J. R. Duffin. 1,633,886; June 28.
 Store structure Rotary. T. A. Taylor. 1,653,323;
 Dec. 20.
 Storing drying oils. E. M. S. Chandler. 1,631,999;
 June 14.
 Storing or storing and filling tailors' patterns and the
 like, Apparatus for. W. Miller. 1,652,450; Dec. 13.
 Stove. A. Ahlberg. 1,653,532; Dec. 20.
 Stove. H. M. Britan. 1,641,064; Aug. 30.
 Stove. E. V. Coulston. 1,653,003; Dec. 20.
 Stove. J. Crain. 1,632,176; Jan. 14.
 Stove. L. Dugan. 1,617,048; Feb. 8.
 Stove. E. G. Germer. Des. 72,206; Mar. 15.
 Stove. M. G. Klemme. 1,645,244; Oct. 11.
 Stove. M. R. Lehman. Des. 72,158; Mar. 8.
 Stove. H. Prell. 1,648,192; Nov. 8.
 Stove. H. P. Smith. 1,639,115; Apr. 16.
 Stove. A. D. Sperry. 1,644,900; Oct. 11.
 Stove. W. E. Toler. 1,619,166; Mar. 1.
 Stove. O. White. 1,624,298; Apr. 12.
 Stove, Air-heating oil. C. Davis. 1,622,184; Mar. 22.
 Stove and burner therefor, Hydrocarbon. L. Stockstrom.
 1,614,854; Jan. 18.
 Stove and electrical igniting means, Oil. D. R. Price.
 1,620,489; Mar. 8.
 Stove and furnace. E. Wagner. 1,648,976; Nov. 15.
 Stove and valve therefor, Closed gas. F. G. Nicolaus.
 1,637,870; Aug. 2.
 Stove attachment. F. Anderson. 1,650,859; Nov. 29.
 Stove attachment, Gas. E. L. Jean. 1,653,101; Dec. 20.
 Stove, Brooder. J. B. Smith. 1,642,565; Sept. 13.
 Stove burner, Gas. H. W. O'Dowd. 1,625,623; Apr. 19.
 Stove, Camp. T. Johnson. 1,627,513; May 3.
 Stove, Camp. G. F. Miller and F. Keith. 1,633,707;
 June 28.
 Stove, Camper's. L. W. Montgomery. 1,650,529; Nov. 22.
 Stove, Combination. H. Lange. Des. 72,520; Apr. 26.
 Stove construction. C. M. Dibble. 1,619,243; Mar. 1.
 Stove construction. A. G. Sherman. 1,649,987; Nov. 22.
 Stove, Cook and heat. A. L. Smith. 1,615,960; Feb.
 8.
 Stove-door construction. A. J. Reedy. 1,624,976;
 Apr. 19.

- Stove-door mounting. C. Herwig, jr., and H. E. Mills. 1,653,280; Dec. 20.
- Stove, Electric. E. D. Brand. 1,653,797; Dec. 27.
- Stove, Electric. J. E. Marsden. 1,637,155; July 26.
- Stove, Electric. C. A. Pierson. 1,640,371; Aug. 30.
- Stove, Fireplace. G. W. Brown. 1,615,741; Jan. 25.
- Stove, Fireplace. J. C. Williamson. 1,649,881; Nov. 22.
- Stove, Gas. J. Copilovich. 1,625,298; Apr. 19.
- Stove, Gas. A. E. Moores. Re16,530; Jan. 11.
- Stove, Gas. G. S. Morley. 1,626,047; Apr. 26.
- Stove, Gas. H. W. O'Dowd. 1,630,966; May 31.
- Stove, Gas. J. M. Olinger. 74,120; Dec. 20.
- Stove, Gas-burner cook. A. F. Thompson. 1,640,861; Aug. 30.
- Stove, Gas heating. H. B. Humphrey. 1,647,995; Nov. 8.
- Stove, Gasoline camp. L. B. N. W., and J. M. Goldberg. 1,620,095; Mar. 8.
- Stove, Heating. W. C. Coleman. 1,637,554; Aug. 2.
- Stove, Heating. L. W. Mitchell. Des. 73,799; Nov. 8.
- Stove, Heating. P. Scully. 1,630,674; May 31.
- Stove, Hot-air. H. de Boischaevier. 1,631,721; June 7.
- Stove, Hot-blast. F. E. Kling. 1,647,570; Nov. 1.
- Stove, Knockdown camp. M. Rotstein and R. Nicholson. 1,634,517; July 5.
- Stove, Plug connection. A. H. Tinnerman. 1,646,267; Oct. 18.
- Stove lock, Safety gas. G. Bevilacqua. 1,632,111; June 14.
- Stove, Magazine and slow-burning. J. Vokac. 1,648,517; Nov. 8.
- Stove, Oil. P. W. Coppock. 1,641,475; Sept. 6.
- Stove, Oil. R. Hoffman. 1,630,358; May 31.
- Stove, Oil-burning. A. E. James. 1,632,971; June 21.
- Stove or furnace. C. E. C. Edey. 1,618,276; Feb. 22.
- Stove or range. A. F. Harter. 1,624,550; Apr. 12.
- Stove or range. J. J. Toomey. 1,621,141; Mar. 15.
- Stovepipe and similar pipe. A. C. and J. Sladky. 1,651,044; Nov. 29.
- Stovepipe blanks. Machine for folding. J. M. Brown. 1,636,803; July 26.
- Stovepipe casings, Joint for. M. R. Shipley. 1,639,315; Aug. 16.
- Stovepipe holder. H. T. Chinn. 1,647,081; Oct. 25.
- Stovepipe lock. F. X. Gries. 1,651,027; May 31.
- Stovepipe seam. M. Osborn. 1,616,331; Feb. 1.
- Stovepipe, Split. A. O. Patenaude. 1,642,215; Sept. 13.
- Stove, Portable. W. T. Bishop. 1,622,176; Mar. 22.
- Stove, Portable. T. A. Taylor and A. J. Yeager. 1,638,223; Aug. 9.
- Stove, Portable charcoal. W. D. Fraser. 1,614,785; Jan. 18.
- Stove, Rotary combination. R. G. Williams. 1,643,650; Sept. 27.
- Stove, Spirit. P. G. J. Colbourne. 1,622,180; Mar. 22.
- Stove structure. E. W. Pittman. 1,651,542; Dec. 6.
- Stove-top attachment, Insulated. A. C. Jones. 1,638,770; Aug. 9.
- Stove top, Nonwarping. G. Douglas. 1,632,060; June 14.
- Stove using liquid vaporizing fuel, Heating. H. C. Hanson. 1,615,378; Jan. 25.
- Stove valve-locking device. Gas. E. N. Trotter. 1,652,916; Dec. 13.
- Stove with thermoelectric storage, Cooking. S. Sacerdote. 1,643,434; June 21.
- Stoves, Air-circulation control for inclosed. E. W. Pape. 1,623,634; Apr. 5.
- Stoves, Air-deflecting means for closed-top-burner chambers of gas. J. C. Weisman. 1,628,701; May 17.
- Stoves and ovens, Support for folding camp. H. C. Hanson. 1,617,806; Feb. 15.
- Stoves and the like, Door-operating device for. J. C. Boylan. 1,635,777; July 12.
- Stoves and the like, Oven door for. H. H. Wolverton. 1,617,431; Feb. 15.
- Stoves, Automatic lighting means for gas. J. Copilovich. 1,625,297; Apr. 19.
- Stoves, Cooking top for. G. Hammer. 1,647,692; Nov. 1.
- Stoves, Electrical lighter for gas. E. P. Bogan. 1,644,230; Oct. 4.
- Stoves, Grate for oil and gas. L. T. Wilcox. 1,644,502; Oct. 4.
- Stoves, Heater for gas and oil. M. J. Walther. 1,643,434; Sept. 27.
- Stoves, Leg attachment for. B. E. Meacham. 1,647,777; Nov. 8.
- Stoves, Oil pan for oil. T. Morris. 1,642,592; Sept. 13.
- Stoves, Oil-reservoir alarm for cook. J. H. Allen. 1,646,337; Oct. 18.
- Stoves or the like, Section for. G. A. Aronson. 1,629,245; May 17.
- Stoves, Oven for camp. H. C. Hanson. 1,626,035; Apr. 26.
- Stoves, Pan-turning device for cooking. L. G. Randolph. 1,638,745; Aug. 9.
- Stoves, Protective top for. J. F. Helman. 1,613,999; Jan. 11.
- Stoves, Safety lighter for gas. W. F. Dester. 1,618,979; Mar. 1.
- Stoves, Splasher back for. F. A. Gerclch. 1,633,089; June 21.
- Stoves, Wick for cooking and heating. W. A. Jones. 1,651,209; Nov. 29.
- Stoves, Wick for oil. R. M. Thorley. 1,633,353; June 21.
- Straightedge instrument. G. Lee. 1,625,949; Apr. 26.
- Straightening machine. G. A. Wise. 1,629,759; May 24.
- Straightening press and method of straightening. B. P. Schiltz. 1,646,260; Oct. 18.
- Straightening roll. G. A. Wise. 1,649,240; Nov. 15.
- Strain gauge. H. L. Whittemore. 1,638,425; Aug. 9.
- Strainer. C. J. Coberly. 1,629,018; May 17.
- Strainer. G. P. Gregory. 1,613,106; Jan. 4.
- Strainer. G. P. Gregory. 1,617,048; Feb. 8.
- Strainer. F. L. Hammer. 1,647,799; Nov. 1.
- Strainer. J. T. Janette. 1,616,577; Feb. 8.
- Strainer. P. Kemper. 1,653,214; Dec. 20.
- Strainer. N. A. McMahon. 1,630,198; May 24.
- Strainer. E. E. Partridge. 1,636,240; July 19.
- Strainer. E. M. Scoville. 1,634,085; Jan. 28.
- Strainer. J. Wilkinson. 1,617,977; Feb. 15.
- Strainer and dirt collector. M. Denney. 1,632,699; June 14.
- Strainer-cloth fastener. C. M. Hubbard. 1,618,433; Feb. 22.
- Strainer, Detachable. M. E. Wedge. 1,616,644; Feb. 8.
- Strainer, Digestor. P. R. Panzi. 1,625,373; Apr. 19.
- Strainer, Drain. A. Izquierdo. 1,621,015; Mar. 15.
- Strainer, Duplex. F. Hall. 1,625,024; Apr. 19.
- Strainer for automobiles, Gasoline. T. A. Smythe. 1,638,066; Aug. 9.
- Strainer for sugar juices and the like. S. S. Peck. 1,619,484; Mar. 1.
- Strainer for sugar juices and the like. S. S. Peck. 1,646,556; Oct. 25.
- Strainer for tube wells or the like. S. Leggett. 1,618,837; Feb. 22.
- Strainer, Gasoline. M. Varzo. 1,654,438; Dec. 27.
- Strainer, Jelly. I. M. Munich. 1,622,800; Mar. 29.
- Strainer, Liquid. L. F. Stiehm. 1,630,223; May 24.
- Strainer, Milk. J. Drew. 1,647,562; Nov. 1.
- Strainer, Outlet. J. Schifter. 1,618,679; Feb. 22.
- Strainer, Pipe-line. E. J. Drexler. 1,640,070; Aug. 23.
- Strainer, Well. J. M. Losack. 1,634,547; July 5.
- Strainer, Tasting well. J. P. Lawlor and J. I. Seay. 1,619,521; Mar. 1.
- Strand gauge. C. H. Hitchcock. 1,614,553; Jan. 18.
- Strand-handling apparatus. G. A. Bouvier. 1,632,875; June 21.
- Strand holder. A. E. Schulz. 1,612,988; Jan. 4.
- Strand-manipulating device. S. Magnano. 1,650,287; Nov. 22.
- Strand material, Apparatus for working. E. C. Wegman and W. A. Southwick. 1,617,427; Feb. 15.
- Strand package. J. E. Barbour. 1,613,431; Jan. 4.
- Strand-tensioning device. G. A. Bouvier. 1,632,876; June 21.
- Strand tightener. N. D. Connors. 1,633,432; Aug. 9.
- Strand-working machine. A. H. Adams. 1,618,402; Feb. 22.
- Strands, Coated. W. F. Hosford. 1,627,740; May 10.
- Strands, Coating. W. F. Hosford. 1,627,739; May 10.
- Strands, Method of and apparatus for determining the pliability of. G. A. Bouvier. 1,617,935; Feb. 15.
- Strands or yarns, Instrument for manipulating. R. W. Barker. 1,612,797; Jan. 4.
- Strands or yarns, Manipulating. R. W. Barker. 1,612,798; Jan. 4.
- Strap—See—
- Doorcheck strap. Watch strap.
- Door-post strap. Wheel-shipping strap.
- Fixture-attaching strap. Wrist-watch strap.
- Shoulder strap.
- Strap. J. E. Johannessen. 1,613,516; Jan. 4.
- Strap and connector, Martingale. J. M. Walsh. 1,630,067; Aug. 16.
- Strap connector, Throat. J. M. Walsh. 1,639,066; Aug. 16.
- Strap fastener, Wire. E. F. Murdock. 1,622,878; Mar. 29.
- Strap fastening. J. H. Vineberg. 1,617,556; Feb. 15.
- Strap for personal wear. G. Kollstedt. 1,619,138; Mar. 1.
- Strap use in bending wood to form parts of curved shape. T. R. C. Wilson. 1,642,186; Sept. 13.
- Strap holder, Check. A. C. Hudgens. 1,620,463; Mar. 8.
- Strap holder, Shoulder. G. Orlov. 1,647,811; Nov. 1.
- Strap hook. A. Eklund. 1,641,255; Sept. 6.
- Strap slide, Breast. J. M. Walsh. 1,619,225; Mar. 1.
- Straps, Holding means for detachable. D. Bonhajo. 1,653,535; Dec. 20.
- Straps, Making. S. Shapiro. 1,634,562; July 5.
- Strawboard, Manufacture of. M. E. Pennington and A. B. Davis. 1,625,090; Apr. 19.
- Strawboard, Manufacture of. M. E. Pennington and A. B. Davis. 1,645,997; Oct. 18.
- Straw press. J. F. Murray. 1,631,881; June 7.
- Straw spreader. T. Dugan. 1,625,353; Apr. 19.
- Straw spreader. W. C. Itzen. 1,613,892; Jan. 11.
- Stream deflector and river-bank protector. H. M. Smith. 1,627,623; May 10.
- Street and road paving and the like, Measuring device for. R. C. Stubbs. 1,638,715; Aug. 9.
- Street and station indicator. T. B. Fotheringham and M. McIntyre. 1,638,661; Aug. 9.
- Street barrier. G. L. Culver. 1,633,000; June 21.
- Street-cleaning machine. A. Schroeder. 1,615,348; Jan. 25.
- Street-cleaning machine. A. Schroeder. 1,630,719; May 31.
- Street-curb structure and advertising means, Combined. S. Mendoza. 1,648,459; Nov. 8.

- Street flusher. W. H. Cooke, 1,623,778; Apr. 5.
Street occurrences, Investigating. G. E. Marshall, 1,625,041; Apr. 19.
Street or road cleaning apparatus. J. W. Weismantel, 1,642,000; Sept. 13.
Strength of articles, Process and apparatus for increasing the. A. Mauser, 1,628,259; May 10.
Stretchers. J. G. Blaine and C. B. Patton, 1,624,000; Apr. 12.
Stretchers. W. H. Heise, 1,639,801; Aug. 23.
Stretchers. Boot and shoe. C. Gregory, 1,630,295; May 31.
Stretching machines, Driving gear for paper-sieve. R. Engler, 1,614,002; Jan. 11.
Strike plate. J. H. Shaw, 1,626,432; Apr. 26.
Striker plate, Adjustable. E. E. Lundberg, 1,630,533; May 31.
Striker plate, Adjustable. F. J. Westrope, 1,624,568; Apr. 12.
Striker plate, Adjustable. C. J. Williams, 1,634,814; July 6.
Striker-plate assembly. L. A. McDowell, 1,646,588; Oct. 25.
String fastener. C. J. Lippold, 1,635,283; July 12.
String instrument. C. L. Dewey, 1,633,574; June 28.
String-tuning device. J. Bernardini, 1,629,855; May 24.
Stringed instrument. R. A. Carucci, 1,631,704; June 7.
Stringed instrument. E. A. Franck, 1,637,559; Aug. 2.
Stringed instrument. R. P. Norwood, 1,642,126; Sept. 13.
Stringed instrument, Musical. W. and B. H. Christian, 1,653,496; Dec. 20.
Stringed instruments, Improving the tone of. P. Bamberger, 1,622,484; Mar. 29.
Stringed instruments, Playing attachment for. J. S. Conner, 1,635,542; July 12.
Stringed instruments, Tuning peg for. U. S. Avery and A. C. Trout, 1,626,380; Apr. 26.
Strip. C. A. McManaway, 1,622,959; Mar. 29.
Strip-applying machines, Viper for. E. M. Brackett and F. M. Brackett, 1,629,473; May 24.
Strip-attaching means. M. H. Ballard, 1,645,641; Oct. 18.
Strip cutter. W. J. Knoll, 1,647,233; Nov. 1.
Strip-edge folder. J. Derry, 1,650,196; Nov. 22.
Strip for rubber-board treads, Binding. R. Beringer, 1,617,367; Feb. 15.
Strip material, Apparatus for coating. B. A. Evans, 1,654,214; Dec. 27.
Strip material, Apparatus for reeling. C. M. Richardson and Z. E. Sargison, 1,624,183; Apr. 12.
Strip material, Apparatus for vulcanizing. J. R. Gammeter, 1,619,020; Mar. 1.
Strip material, Controlling the feed of continuous. F. Grover, 1,617,947; Feb. 15.
Strip material, Method and apparatus for producing elastic. J. R. Gammeter, 1,619,342; Mar. 1.
Strip-serving apparatus. L. J. Peters, 1,647,305; Nov. 1.
Strip sheets, Making. H. M. Naugle and A. J. Townsend, Re16,652; June 14.
Strip shingle. L. Busha, 1,633,474; June 21.
Strip-vulcanizing apparatus and method. T. J. Mell, 1,626,410; Apr. 26.
Stripper-block machine. F. J. Straub, 1,652,381; Dec. 13.
Stripping device. M. A. Marquette, 1,642,455; Sept. 13.
Stripping machine. S. Coe, 1,623,577; Apr. 5.
Stripping machine. H. I. Morris, 1,650,147; Nov. 22.
Strips, Forming. J. C. De Penning, 1,614,720; Jan. 18.
Strips, Machine for making grooved. J. H. Killion, 1,615,984; Feb. 1.
Strips of material, Process and apparatus for uniting. H. E. Van Derhoeft, 1,641,403; Sept. 6.
Strips to shoe parts, Machine for preparing and securing. W. R. Barclay and F. B. Keall, 1,618,162; Feb. 22.
Stroboscope with vibrating cord. A. V. J. Guillet, 1,639,178; Aug. 16.
Strop, Razor. M. W. McArdle, 1,652,176; Dec. 13.
Strop and the like, Razor. C. E. Carpenter, 1,613,643; Jan. 11.
Stropping device, Blade. G. D. Gallagher, 1,624,592; Apr. 12.
Structural element. J. H. Swedborg, 1,648,971; Nov. 15.
Structural element, Built-up. W. E. White, 1,621,299; Mar. 15.
Structural members, Connecting means for. S. Macomber, 1,614,249; Jan. 11.
Structural members, Device for use in and process of incasing. J. M. Crom, 1,640,993; Aug. 30.
Structural surfaces, Coating. J. H. Wootton, 1,632,752; June 14.
Structural unit. D. H. Bitney, 1,636,163; July 19.
Structural unit. S. Macomber, 1,614,247; Jan. 11.
Structural unit. S. Macomber, 1,651,032; Nov. 29.
Structural unit and producing the same, Molded. H. E. Brookby, 1,652,162; Dec. 13.
Structural units, Rolling. A. W. Heinle, 1,652,860; Dec. 13.
Stubble burner. S. J. Goodfellow, 1,618,332; Feb. 22.
Stubble burner. C. C. Howell, 1,619,516; Mar. 1.
Stucco bases, Joint for. C. N. Forrest, 1,637,994; Aug. 2.
Stucco blocks and the like, Making gypsum. C. Payne, 1,630,579; May 31.
Stucco jointer. E. J. Kennedy, 1,646,150; Oct. 18.
Stud. M. F. Carr, Re16,561; Mar. 1.
Stud-and-socket-type fastening. T. Morton, 1,631,880; June 7.
Stud, Fastener. M. F. Carr, 1,634,230; June 28.
Stud, Fastener. W. H. Pierce, 1,634,234; June 28.
Studs, Making. C. Kaufman, 1,617,121; Feb. 8.
Study chair. E. O. Klemm, Des. 73,039; July 12.
Stuffing box. S. L. Calvert, 1,649,662; Nov. 15.
Stuffing box. J. G. Johnson, 1,632,293; June 14.
Stuffing box. W. L. Marden, 1,649,314; Nov. 15.
Stuffing box. A. C. Pitman, 1,644,439; Oct. 4.
Stuffing box. F. I. Raymond, 1,621,272; Mar. 15.
Stuffing box. A. A. Schramm, 1,617,549; Feb. 15.
Stuffing box. W. Wishart, 1,643,971; Oct. 4.
Stuffing box, Lubricating. W. L. McLaine and W. L. Borough, 1,630,444; May 31.
Stuffing-box vent. R. C. Enyart, 1,637,371; Aug. 2.
Stuffing machine. O. C. Schmidt, 1,647,752; Nov. 1.
Stump burner. H. L. Reynolds, 1,627,867; May 10.
Stump shredder and harrow, Pineapple. W. A. Baldwin, 1,625,101; May 10.
Styrene, Recovering. R. L. Brown, 1,640,975; Aug. 30.
Sublimation apparatus. C. Field, 1,644,518; Oct. 4.
Subliming apparatus. E. H. Wedekind, 1,642,756; Sept. 20.
Submarine. A. Heise, 1,653,175; Dec. 20.
Submarine craft. H. N. Atwood, 1,638,817; Aug. 16.
Submarine detection float. T. L. Standish, 1,636,447; July 19.
Submarine hulls, Forming. H. N. Atwood, 1,638,818; Aug. 16.
Submarine life-saving device. K. Taniguchi, 1,634,055; June 28.
Submarine lifting device. P. C. Wood, 1,643,733; Sept. 27.
Submarine mines, Depth-setting gear for. H. B. Pratt, 1,639,510; Aug. 23.
Submarine safety apparatus. J. F. Webb, sr., 1,613,594; Jan. 4.
Submarine signaling. J. J. Gilbert, 1,654,328; Dec. 27.
Submarine signaling. J. W. Horton, 1,624,412; Apr. 12.
Submarine signaling system. A. M. Curtis, 1,624,396; Apr. 12.
Submarine sound receiver. H. C. Hayes, 1,632,331; June 14.
Submarine vessel. A. Hozlak, 1,647,866; Nov. 1.
Submarine vessels, Fluid-tight arrangement for cannon mounted in fluid-tight turrets upon. R. de Courseulles, 1,638,439; Aug. 9.
Submarine vessels, Life-saving device for. W. Orlowsky, 1,642,127; Sept. 13.
Submarines, Crew-saving device for. A. Rasmussen, 1,653,310; Dec. 20.
Submarines, Device for raising sunken. L. T. Gardner, 1,622,866; Mar. 29.
Submarines, Steam power plant for. W. Schmidt, 1,635,561; July 12.
Submarines, Undersea-illuminating means for. W. Dobron, 1,622,186; Mar. 22.
Submarines with twin screw propellers, Internal structure. N. Soliani, 1,634,220; June 28.
Subsoll ditcher. T. Dominick, 1,623,530; Apr. 5.
Subsoller. A. C. Lindgren, 1,651,031; Nov. 29.
Substation, Automatic. G. W. Müller, 1,614,147; Jan. 11.
Substitutes for horn and ivory from viscose, Making. H. Eggert, 1,652,711; Dec. 13.
Subterranean strata, Investigating the nature of. L. Zuschlag, 1,652,227; Dec. 13.
Sucker rod and lock. H. L. Sullins and J. E. Mustain, 1,626,307; Apr. 26.
Sucker-rod and plunger rotator. E. L. Gluyas, 1,633,013; June 21.
Sucker rod and plunger rotor. S. B. Sargent, 1,653,510; Dec. 20.
Sucker-rod centralizer. G. E. Moreland, 1,614,381; Jan. 11.
Sucker-rod clamp. M. Madsen, 1,617,532; Feb. 15.
Sucker-rod elevator. S. McGregor, 1,630,537; May 31.
Sucker-rod elevator. A. H. Neilson, 1,622,537; Mar. 29.
Sucker-rod elevator. A. H. Neilson, 1,624,799; Apr. 12.
Sucker-rod elevator. E. E. Westmoreland and S. G. Taylor, 1,631,845; June 7.
Sucker-rod guide, Snap-on. R. R. Bostie, 1,633,843; June 28.
Sucker-rod hanger. G. E. Frits, 1,627,733; May 10.
Sucker rod, Quick-connecting. H. L. Sullins, 1,622,064; Mar. 22.
Sucker-rod rotor. D. F. Alexson, 1,635,776; July 12.
Sucker-rod turner. E. T. Gribble, 1,633,092; June 21.
Sucker-rod twister. B. C. Nugent, 1,623,696; Apr. 5.
Suction box. E. E. Berry, 1,644,867; Oct. 11.
Suction box. J. H. Reddy and T. A. Cape, 1,630,027; May 24.
Suction cleaner. P. Dadio, 1,635,821; July 12.
Suction cleaner. T. W. Green, 1,633,367; June 21.
Suction cleaner. H. E. Hoover, 1,624,246-7; Apr. 12.
Suction head. F. Masson, 1,637,265; July 26.
Suction pipe. E. Risley, 1,631,761; June 7.
Suction pipe, Telescoping. G. C. Stacy, 1,625,576; Apr. 19.
Suction sheet-pick-up mechanism. C. W. Tremper, 1,625,578; Apr. 19.
Suction sewerer. H. B. White, 1,612,999; Jan. 4.

- Suction topper. P. W. Fleischer. 1,641,480; Sept. 6.
Sudatory receptor pad. W. A. Hunter. 1,633,586; June 28.
Sugar and like material, Process and apparatus for cooling. G. L. Lonsdale. 1,654,133; Dec. 27.
Sugar-bearing solutions, Economical reduction of composite. H. J. Creighton. 1,653,004; Dec. 20.
Sugar bowl. S. Brunt. Des. 73,062; July 19.
Sugar bowl. J. Burlan. Des. 74,137; Dec. 27.
Sugar bowl or similar article. G. R. Ahrendts. Des. 74,222; Aug. 9.
Sugar bowl or similar article. F. Schmidt. Des. 72,280; Mar. 22.
Sugar cane, Apparatus for disintegrating. W. H. Morgan, sr. 1,646,761; Oct. 25.
Sugar-cane leaves, Bottle sack made of. A. Okutani. 1,653,820; Dec. 27.
Sugar-cane mills, Juice-straining system for. W. G. Hall. 1,627,283-4; May 3.
Sugar-cane mills, Maceration distributor for. W. G. Hall. 1,647,516; Nov. 1.
Sugar cane, Working. A. E. Kienzle. 1,633,895; June 28.
Sugar-containing materials, Process of and apparatus for macerating. N. Nobel. 1,617,962; Feb. 15.
Sugar content in cane juices, Recovering. C. G. Petree. 1,625,680; Apr. 19.
Sugar gauge. C. E. Miller. 1,633,343; June 21.
Sugar juices, Purifying. W. C. Arsem. 1,616,168; Feb. 1.
Sugar Liquors, Producing pure. C. F. Kullgren and S. G. J. 1,616,131; Feb. 1.
Sugar, Manufacturing white. W. F. R. Murrie. 1,615,846; Feb. 1.
Sugar-mill machinery. J. E. Stuntz. 1,640,059; Aug. 23.
Sugar-mill machinery. G. I. Thiele. 1,640,060; Aug. 23.
Sugar, Purifying liquids and making. E. E. Battelle. 1,646,079; Oct. 18.
Sugar tolerance, Product and testing. A. Seaton and W. O. Rader. 1,625,165; Apr. 19.
Sugar, Treating. H. C. Welle. 1,624,296; Apr. 12.
Suit, Flying. H. R. Hart. 1,626,136; Apr. 26.
Suit, Parachute. P. Bunevac. 1,640,110; Aug. 23.
Suitcase. O. J. Wallnsky. Des. 72,392; Apr. 5.
Suitcase. O. J. Wallnsky. Des. 73,312; Nov. 8.
Suitcase, attaché case, and the like. F. C. Gadsby. 1,642,851; Sept. 20.
Suitcase, Expanding. A. B. Hawes, R. W. Horton, and F. C. Mayo. 1,646,092; Oct. 18.
Sulphate and soda pulp, Treating. R. Collins. 1,643,111; Nov. 8.
Sulphides, Manufacture of alkali-metal. H. Freeman. 1,640,314-15; Aug. 23.
Sulphite cellulose lye, Utilizing waste. C. G. Schwalbe. 1,615,102; Jan. 18.
Sulphite cooking liquor, Making. G. A. Richter. 1,637,353; Aug. 2.
Sulphite liquors, Making ligno-tanning material from waste. V. Drewsen. 1,629,448; May 17.
Sulphite pulp, Producing. J. B. Beveridge. 1,649,942; Nov. 22.
Sulpho groups from anthraquinone sulphonic-acid derivatives, Splitting off. R. E. Schmidt. 1,650,158; Nov. 22.
Sulphur burner. H. Blumenberg, jr. 1,634,092; June 28.
Sulphur burner. L. Gillett. 1,638,992; Aug. 16.
Sulphur burner. H. F. Merriam. 1,629,352; May 17.
Sulphur composition. W. H. Kobbé. 1,612,869; Jan. 4.
Sulphur composition of diminished inflammability and producing same. C. Marx. 1,619,357; Mar. 1.
Sulphur compound and making same. F. A. Frazier. 1,614,063; Jan. 11.
Sulphur, Controlling evolutions of elemental. G. N. Kirsbaum. 1,640,837; Aug. 30.
Sulphur dichloride and primary arylamines, Reaction products of. R. Herz. 1,637,023; July 26.
Sulphur mining. B. Andrews. 1,643,210; Nov. 8.
Sulphur mining. A. N. Drachenberg. 1,628,873; May 17.
Sulphur. Mining of. E. H. Stewart. 1,615,050-1; Jan. 18.
Sulphur, Petroleum-refining process and reagent for the removal of. F. C. Axtell. 1,645,679; Oct. 18.
Sulphur phenol resin, Making. C. Ellis. 1,636,596; July 19.
Sulphur, Prepared. F. H. Pough. 1,629,528; May 24.
Sulphur, Purifying. H. H. Wilkinson. 1,613,632; Jan. 11.
Sulphur, Treating. J. W. Schwab. 1,646,838; Oct. 25.
Sun blind. H. Boeck. 1,649,943; Nov. 22.
Sundial. S. O'Sullivan. 1,651,621; Dec. 6.
Sundial. S. Terraz. 1,629,238; May 17.
Sunshade. H. H. Seaman. 1,613,296; Jan. 4.
Sunshade attachment, Automobile. J. Menzies. 1,639,413; Aug. 16.
Sunshade for automobile windows. F. B. Marshall. 1,646,621; Oct. 25.
Sunshade, Vehicle. C. M. Stainbrook. 1,631,074; May 31.
Sun watch, Waterproof vest-pocket. M. Frank. 1,621,061; Mar. 22.
Superadjustable generator. H. W. Lavigne. 1,642,448; Sept. 13.
Supercharging device. A. F. Masury and C. Froesch. 1,646,767; Oct. 25.
Superheater. L. E. Whittington and W. Robinson. 1,653,028; Dec. 20.
Superheater and boiler, Combined. H. O. Woolley. 1,626,220; Apr. 26.
Superheater boiler. W. F. Keenan, jr. 1,630,087; May 24.
Superheater boiler. F. M. MacDowell. 1,627,918; May 10.
Superheater boiler. J. J. Nellis. 1,623,805; Apr. 5.
Superheating element. C. A. Mestre and E. E. H. Duchatel. 1,637,651; Aug. 2.
Superheating steam, Apparatus for. B. Broido. 1,648,634; Nov. 8.
Superheating steam by means of a high-pressure medium, Apparatus for. O. Hartmann. 1,617,519; Feb. 15.
Superhighway. D. L. Turner and J. P. Hallahan. 1,628,935; May 17.
Superplane. J. E. Broyles. 1,639,553; Aug. 16.
Superpower system. C. L. Fortescue. 1,652,523; Dec. 13.
Supervisory system. D. A. Quarles. 1,616,823; Feb. 8.
Support. A. Allen. 1,629,430; May 17.
Support. W. R. Barclay and W. T. Minett. 1,620,793; Mar. 15.
Support. J. L. Davidson. 1,624,657; Apr. 12.
Support. O. E. Pelkey. 1,623,749; Apr. 5.
Support. J. Ratha. 1,634,064; June 28.
Support. Smith. 1,615,723; Jan. 26.
Support. A. Thiele. 1,618,493; Feb. 22.
Support chair, Two-way brake-beam. E. G. Busse. 1,636,848; July 26.
Support or holder. A. Martins. 1,614,011; Jan. 11.
Supporter. H. M. Pfaltzgraf. 1,637,706; Aug. 2.
Supporter, Abdominal. E. T. Manix. 1,613,712; Jan. 11.
Supporter, Elastic. J. R. Santibáñez. 1,654,433; Dec. 27.
Supporter for ladies' garments, Removable stocking. P. Kutzin. 1,634,071; June 28.
Supporter, Hose. R. E. Bennett. 1,615,910; Feb. 22.
Supporter, Hose. J. Jacobs. 1,618,435; Feb. 22.
Supporters, Detachable connector for hose. C. J. Hazelton. 1,617,481; Feb. 15.
Supporting bolt, Brake-beam. E. C. Lunsford. 1,646,587; Oct. 25.
Supporting bracket. H. F. Albers. 1,647,330; Nov. 1.
Supporting bracket. A. Marlewski. 1,640,203; Aug. 23.
Supporting bracket, Bed-spring. G. A. Stackhouse. 1,647,672; Nov. 1.
Supporting device. J. C. Reinke, jr. 1,620,288; Mar. 8.
Supporting device. F. Sohne. 1,622,058; Mar. 22.
Supporting device. M. Soybel. 1,647,154; Nov. 1.
Supporting device. B. M. A. Trebes. 1,615,149; Jan. 18.
Supporting device. W. H. Woods. 1,625,757; Apr. 19.
Supporting device, Resilient. A. Horwitz. 1,651,331; Nov. 29.
Supporting fixture. A. E. Sparrow. 1,653,742; Dec. 27.
Supporting hook. C. F. Cole. 1,618,573; Feb. 22.
Supporting means for horizontally-disposed surfaces. J. E. Gloekler. 1,645,421; Oct. 11.
Supporting rack. E. W. House. 1,621,410; Mar. 15.
Supporting structure. F. A. Davidson. 1,646,725; Oct. 25.
Supporting structure. C. S. Wagner. 1,621,649; Mar. 22.
Supporting the hand while writing, Device for. C. Craig. 1,627,635; May 10.
Supporting wheel, Airplane-tail. C. J. Smith and H. A. H. 1,642,699; Sept. 20.
Suppository and insertion of the same. H. C. L. Gougard. 1,626,079; Apr. 26.
Surface breaking and loosening machine. F. M. Hargrave. 1,644,582; Oct. 4.
Surface condenser and method. F. M. Doyle. 1,637,558; Aug. 2.
Surface covering and ornamenting the same. C. F. Humphreys and J. C. McCarthy. 1,642,954-5; Sept. 20.
Surface for highways, floors, and the like. J. J. Stark. 1,613,063; Jan. 4.
Surface test indicator. A. G. Cash. 1,645,473; Oct. 11.
Surface washer. F. G. Stone. 1,620,698; Mar. 15.
Surfing. R. Stratford. 1,648,633; Nov. 8.
Surfacing machine. R. Cavichl. 1,650,690; Nov. 29.
Surfacing machine. L. H. Gray. 1,620,459; Mar. 8.
Surfacing machine. O. A. Koenig. 1,653,108; Dec. 20.
Surfacing machine. W. H. Markland. 1,613,181; Jan. 4.
Surfacing machine. G. A. Olin. 1,649,124; Nov. 15.
Surfing machine. E. D. Tillyer and N. M. Baker. 1,630,012; Aug. 16.
Surfaces, Coloring. J. Leclajky. 1,650,079; Nov. 22.
Surfaces fluid tight, Rendering. J. A. H. Tier. 1,649,592; Nov. 15.
Surge recorder. J. F. Peters. 1,649,180; Nov. 15.
Surgical apparatus. A. L. Soresi. 1,627,714; May 10.
Surgical apparatus, Electrical. F. E. Bauer. 1,645,215; Oct. 11.
Surgical appliance. C. Bartholomew. 1,635,919; July 12.
Surgical appliance. H. G. Gould and K. D. Obenshain. 1,625,602; Apr. 19.
Surgical appliance. T. James. 1,615,945; Feb. 1.
Surgical baker. H. J. O'Neill. 1,617,923; Feb. 15.
Surgical device. R. H. De Mott. 1,638,074; June 21.
Surgical device. C. Nieukirk. 1,617,961; Feb. 15.
Surgical device and making same. G. H. Jung, jr. 1,615,173; Jan. 18.
Surgical dressing and making it. W. R. Dorman. 1,637,857; Aug. 2.
Surgical dressings and the like, Applicator for. O. C. Willis. 1,646,365; Oct. 18.

- Surgical instrument. W. C. Dawes. 1,640,311; Aug. 23.
Surgical instrument. W. S. Humble. 1,636,636; July 19.
Surgical instrument. M. C. Myers. 1,621,212; Mar. 15.
Surgical instrument. O. H. Oesterwitzer. Des. 16,687; July 19.
Surgical instrument. L. K. Pitman. 1,650,959; Nov. 29.
Surgical instrument. R. L. Schulz. 1,633,631; Sept. 27.
Surgical instrument. R. H. Wappler. 1,627,941; May 10.
Surgical instrument. W. A. Wells. 1,635,066; July 5.
Surgical needle. H. S. Souttar. 1,613,208; Jan. 4.
Surgical needle and making it. E. A. Quint. 1,636,615; July 19.
Surgical or orthopedic appliance. J. Buckowitz. 1,630,108; May 24.
Surgical retractor instrument. H. E. Stein. 1,613,141; Jan. 4.
Surgical splint. R. D. Foulke. 1,653,601; Dec. 20.
Surgical table. S. G. Austin. 1,648,631; Nov. 8.
Surgical tables, Step for. S. Tascarella. 1,652,065; Dec. 6.
Surprise device. G. E. Ditzler. 1,648,800; Nov. 8.
Surveying instrument. A. Langsner. 1,633,749; June 28.
Surveying instrument with drawing device. M. Sander. 1,631,891; June 7.
Surveying instruments, Microscope attachment for. E. W. Arms. 1,629,373; May 17.
Surveyor's instrument. R. L. Huffman. 1,630,180; May 24.
Suspended carrier. E. T. Bennington. 1,624,205; Apr. 12.
Suspender. S. Newman. 1,646,975; Oct. 25.
Suspender attachment. E. E. Peck. 1,636,712; July 26.
Suspender, Garment. R. Stephenson. 1,626,905; Apr. 26.
Suspenders. A. D. Pellerin. 1,617,806; Feb. 8.
Suspenders, Woven strap for. H. C. Martin. 1,616,272; Feb. 1.
Suspension and transmission, Combined resilient. B. F. Seymour. 1,637,392; Aug. 2.
Suspension frame, Greenhouse plant. O. G. Fritch and J. E. Fritch. 1,619,791; Mar. 1.
Suspension seat. L. M. Bell. 1,649,013; Nov. 15.
Suspension wheel, Elastic. D. P. J. Burgulieres. 1,637,214; July 26.
Suspension wheel, Method constructing. C. S. Ash. 1,622,268; Mar. 29.
Suspensory. J. N. Buttery. 1,650,062; Nov. 22.
Suspensory. G. S. Peterkin. 1,641,094; Aug. 30.
Sustaining bodies in space. E. Klahn. 1,620,577; May 24.
Swab. H. T. Forbis. 1,652,108; Dec. 6.
Swab. H. A. Porter. 1,614,012; Jan. 18.
Swab. L. Sorensen. 1,652,744; Dec. 13.
Swab. R. J. Turner. 1,613,066; Jan. 4.
Swab, Flexible. E. W. Porrow. 1,626,926; May 3.
Swab, for wells and making the same. J. W. Heeter. 1,650,273; Nov. 22.
Swab or dauber. P. Capri. 1,629,436; May 17.
Swab or dauber, Capped. P. Codina. 1,618,977; Mar. 1.
Swab, Tubing. L. J. Smith and G. B. M. Smith. 1,650,099; Nov. 22.
Swab, Well. E. Kibele. 1,626,614; May 3.
Swab, Well. T. H. Woberman. 1,651,497; Dec. 6.
Swage and raker gauge. D. D. Thomas. 1,622,745; Mar. 29.
Swaging machine. N. D. Abbey. 1,617,890; Feb. 15.
Swaging machines, Feeding mechanism for. E. A. Dean. 1,619,971; Mar. 8.
Swaging-mill roll. S. E. Diescher. 1,634,352; July 5.
Swatter, Fly. N. T. Hendrickson and C. Roholt. 1,631,864; June 7.
Sweater. J. P. Nissen. 1,632,346; June 14.
Sweater. E. C. and D. N. Piscitello. 1,652,183; Dec. 13.
Sweater. J. Zimmerman. 1,651,239; Nov. 29.
Sweater, Knitted. L. S. Sack. Des. 73,671-2; Oct. 18.
Sweaters and the like, Attachment for. S. H. Cohen. 1,639,928; Aug. 23.
Sweep. A. J. Francis. 1,648,843; Nov. 8.
Sweeper and floor polisher, Convertible vacuum. E. H. Blanchard and D. M. McLean. 1,644,093; Oct. 4.
Sweeper, Carpet. T. Dickinson. 1,645,739; Oct. 18.
Sweeper, Carpet. W. H. Kenyon. 1,620,358; Mar. 8.
Sweeper, Carpet. W. H. Kenyon. 1,645,759; Oct. 18.
Sweeper, Carpet. I. J. Owen. 1,614,638; Jan. 18.
Sweeper, Carpet. J. L. Shorrock. 1,620,297; Mar. 8.
Sweeper, Electric suction. T. W. Green. 1,646,088; Oct. 18.
Sweeper, Electric suction. I. J. Owen. 1,639,959; Aug. 23.
Sweeper, Lawn. A. J. Breeden. 1,615,928; Feb. 1.
Sweeper, Magnetic. F. L. Turner. 1,630,987; May 31.
Sweeper, Suction. H. Hill. 1,647,292; Nov. 1.
Sweeper, Suction. H. E. Hoover. Re16,585; Apr. 5.
Sweeper, Suction. H. E. Hoover. Re16,763; Oct. 4.
Sweeper, Suction. M. E. Nulsen. 1,654,186; Dec. 27.
Sweeper, Vacuum. C. C. Bain. 1,621,919; Mar. 22.
Sweepers, Handle socket for carpet. I. J. Owen and B. J. Bouwmeester. 1,621,080; Mar. 15.
Sweepers, Nozzle adjustment for suction. G. C. Curry. 1,643,763; Sept. 27.
Sweeping and dust-settling compound. W. W. Odell. 1,617,343; Feb. 15.
Sweatmats, Apparatus for cutting. R. Head and W. E. Prescott. 1,621,012; Mar. 15.
Swelling machine, Cereal. C. Suzuki. 1,639,909; Aug. 23.
Swimmer's hand paddle. C. H. Theobald. 1,621,693; Mar. 22.
Swimmers. Webbed hand for. A. H. Lake. 1,625,730; Apr. 19.
Swimming and life-saving device. C. J. McDonald. 1,654,290; Dec. 27.
Swimming apparatus. H. Kindt. 1,622,914; Mar. 29.
Swimming appliance. V. V. Bacon. 1,640,390; Aug. 30.
Swimming bag. H. A. Ayvad. 1,634,313; July 5.
Swimming bags, Valve for. H. A. Ayvad. 1,634,314; July 5.
Swimming board or life preserver. F. Walcher. 1,653,974; Dec. 27.
Swimming device. J. P. La Rosa. 1,626,541; Apr. 26.
Swimming device. K. B. Martin. 1,647,875; Nov. 1.
Swimming device. G. B. Nichols. 1,615,954; Feb. 1.
Swimming device. O. G. Pike. 1,623,852; Apr. 5.
Swimming-instructing machine. T. A. Walton. 1,620,146; Mar. 8.
Swimming pad. F. J. Smith. 1,626,163; Apr. 26.
Swimming-pool water slides, Construction of. G. E. Rohmer. 1,648,196; Nov. 8.
Swimming ring or belt. W. Strelow. 1,648,970; Nov. 15.
Swimming tank, Exercising. J. Marwick. 1,630,797; May 31.
Swimming wing. W. Kennedy. 1,624,102; Apr. 12.
Swing. E. Valet. 1,623,813; Apr. 6.
Swing. J. J. McGinty. 1,626,204; Apr. 26.
Swing. W. A. Milam. 1,646,160; Oct. 18.
Swing. G. M. Smith. 1,647,587; Nov. 1.
Swing. W. H. Tierney. 1,640,862; Aug. 30.
Swing. F. H. Wheeler. 1,646,716; Oct. 25.
Swing, back. W. Mitchell. 1,642,740; Sept. 20.
Swing, Exerciser. R. B. McWhirter. 1,646,158; Oct. 18.
Swing, Exercising. I. G. Smedberg. 1,615,241; Jan. 25.
Swing hook, Ball-bearing porch-. W. Ross. 1,629,363; May 17.
Swing, Porch. G. L. Hall. 1,640,274; Aug. 23.
Swing, Porch. W. G. Tanner. 1,613,544; Jan. 4.
Swing, Portable. I. E. Griffith. 1,646,089; Oct. 18.
Swing spout pouring device. O. N. Wiswell. 1,618,620; Feb. 22.
Swing stand. B. F. Lindsley. 1,629,281; May 17.
Swinging hook. B. F. Moore. 1,637,047; July 26.
Swinging table. A. Blitz and A. S. Kux. 1,634,929; July 5.
Swinging table. A. Blitz and A. S. Kux. 1,648,717; Nov. 8.
Switch: See—
Air-break line switch. Light-control switch.
Alarm-clock switch. Light switch.
Atmospherically-controlled switch. Lighting and ignition switch.
Automatic switch. Lighting switch.
Automobile signal-control switch. Lighting-system switch.
Battery switch. Limit switch.
Canopy switch. Lock-actuated switch.
Centrifugal switch. Lock-controlled switch.
Circuit switch. Mail-box-cover-actuated switch.
Combination switch. Manhole switch.
Control switch. Mercury switch.
Controlling switch. Mercury tube switch.
Cut-out switch. Multiple plural switch.
Cut-over and safety switch. Multiple switch.
Dashpot-controlled switch. Permutation switch.
Detector switch. Plug switch.
Dimmer switch. Pressure and float actuated switch.
Disconnecting switch. Pressure switch.
Display switch. Push and pull switch.
Distributing switch. Push-button switch.
Double-throw switch. Push-through switch.
Electric and air switch. Quick-break switch.
Electric gas switch. Radio and phonograph combination switch.
Electric-lighting switch. Railway switch.
Electric socket switch. Relay switch.
Electric switch. Relay switch.
Electric thermostatic switch. Rotary crossover switch.
Electric-timing switch. Rotary switch.
Electrical relay switch. Safety switch.
Electrical switch. Selector switch.
Electrical time switch. Self-locking switch.
Electrically-operated switch. Signal switch.
Electromagnetic switch. Snap switch.
Explosive blow-out switch. Steering-wheel switch.
Flap-actuated switch. Stepping switch.
Flush switch. Telephone switch.
Foot-actuated switch. Thermal switch.
Foot switch. Timing switch.
Fuse switch. Thermostatic switch.
Governor switch. Thermostatically-controlled switch.
Headlight-control switch. Time electric switch.
Headlight switch. Time switch.
High-tension switch. Wheel switch.
Ignition switch. Switch.
Inclosed switch. Switch. E. O. Austin. 1,614,176; Jan. 11.
Instantaneous switch. Switch. A. E. Bost. 1,631,001; May 31.
Iron switch. Switch. N. J. Conrad. 1,631,012; May 31.
Knife-blade switch.
Lamp-switch switch.
Switch. E. O. Austin. 1,614,176; Jan. 11.
Switch. A. E. Bost. 1,631,001; May 31.
Switch. N. J. Conrad. 1,631,012; May 31.

- Switch. P. K. Cramblet. 1,625,456; Apr. 19.
- Switch. U. Feichter. 1,634,179; June 28.
- Switch. W. J. Fraser. 1,629,497; May 24.
- Switch. W. E. Freese. 1,622,906; Mar. 29.
- Switch. M. Guett. 1,633,405; June 21.
- Switch. J. F. Harrington. 1,626,463; Apr. 26.
- Switch. H. D. James. 1,622,649; Mar. 29.
- Switch. L. Kellner. 1,645,145; Oct. 11.
- Switch. J. A. Kopp. J. G. Guenther. F. J. Wellkamp. and C. J. Meyer. 1,650,197; Nov. 22.
- Switch. T. C. Mahon. 1,630,709; May 31.
- Switch. J. T. Miller and M. Hanley. 1,619,148; Mar. 1.
- Switch. B. Palma. 1,631,054; May 31.
- Switch. H. S. Pierce. 1,615,849; Feb. 1.
- Switch. W. U. Pistor. 1,617,862; Feb. 15.
- Switch. F. E. Queeney. 1,646,764; Oct. 25.
- Switch. O. Haley and G. Apperson. 1,622,541; Mar. 29.
- Switch. C. H. Williams. 1,630,458; May 31.
- Switch-adjusting means. Tilttable. L. A. M. Phelan. 1,651,629-30; Dec. 6.
- Switch and appurtenant protective fitting. Service. B. D. Horton. 1,628,406; May 19.
- Switch and fuse. A. F. C. Lotz. 1,628,413; May 19.
- Switch and lamp regulator. System having combined automatic. W. A. Turbayne. 1,624,999; Apr. 19.
- Switch and lightning arrester. Combined. H. J. Lewis. 1,630,954; May 31.
- Switch and signal system. R. M. Robinson. 1,631,648; June 7.
- Switch and switch-operating mechanism. Auxiliary Ford starter. C. B. Steffens. 1,621,288; Mar. 15.
- Switch assembly. Range. F. F. Forshee. 1,649,024; Nov. 15.
- Switchboard. W. G. Balph. 1,626,600; May 3.
- Switchboard. A. C. Lyen and C. W. Morgan. 1,642,883; Sept. 20.
- Switchboard construction. L. S. Keilholtz and E. Dickey. 1,613,708; Jan. 11.
- Switchboard signal. C. J. Erickson. 1,654,325; Dec. 27.
- Switchboards. Protective device for electric. G. W. Ashlock. Jr. 1,616,945; Feb. 8.
- Switch box. O. S. Jennings. 1,652,531; Dec. 13.
- Switch box. H. K. Krantz. 1,615,817; Jan. 25.
- Switch box. H. K. Krantz. 1,628,889; May 17.
- Switch box. Conduit. C. D. Converse. 1,625,882; Apr. 26.
- Switch-box support and latch holder. Combined. C. E. Bowers. 1,620,063; Mar. 8.
- Switch boxes. Cover for. R. Werden. 1,614,542; Jan. 18.
- Switch bracket. H. A. Ziola. 1,629,765; May 24.
- Switch-circuit controller. O. S. Field. 1,629,998; May 24.
- Switch circuit. Machine-switching selector-. F. A. Stearn. 1,648,009; Nov. 8.
- Switch circuits for step-by-step systems. Selector-. R. L. Stokely. 1,647,250; Nov. 1.
- Switch control. Safety. R. C. Piscator. 1,641,690; Sept. 6.
- Switch control. Safety. H. Stone. 1,645,028; Oct. 11.
- Switch controlling mechanism. Selective. F. N. Reeves. 1,647,373; Nov. 1.
- Switch construction. R. B. Benjamin. 1,639,126; Aug. 16.
- Switch construction. H. W. Faust. 1,628,496; May 10.
- Switch construction. T. W. Varley. 1,618,495; Feb. 22.
- Switch control. A. Rawling. 1,626,692; May 3.
- Switch device. Automatically controlled. R. J. Patterson. 1,613,803; Jan. 11.
- Switch for electric circuits. Automatic time-controlled. R. B. W. Franklin. 1,616,120; Feb. 1.
- Switch for mine railways. H. W. Davis. 1,651,192; Nov. 29.
- Switch for motor vehicles. Lighting. J. L. Hitchcock and A. R. Pangborn. 1,647,620; Nov. 1.
- Switch handle. A. H. Nero. 1,637,913; Aug. 2.
- Switch housing. H. K. Krantz. 1,638,940; Aug. 16.
- Switch-interlocking device. F. C. Anderson. 1,622,019; Mar. 22.
- Switch lock. N. E. Murphy. 1,642,820; Sept. 20.
- Switch lock. C. L. Stoeltzen. 1,624,372; Apr. 12.
- Switch mechanism. H. K. Anslingh. 1,617,363; Feb. 15.
- Switch mechanism. H. K. Anslingh. 1,623,955; Apr. 12.
- Switch mechanism. C. P. Bradley. 1,641,219; Sept. 6.
- Switch mechanism. H. G. Baxter. 1,643,798; Sept. 27.
- Switch mechanism. W. M. Grant. 1,652,569; Dec. 13.
- Switch mechanism. W. E. Harrison. 1,649,030; Nov. 15.
- Switch mechanism. C. L. Hopkins. 1,646,964; Oct. 25.
- Switch mechanism. O. S. Jennings. 1,630,389; May 31.
- Switch mechanism. O. S. Jennings. 1,642,927; Sept. 13.
- Switch mechanism. F. B. Kniskern and J. R. Shuster. 1,652,484; Dec. 13.
- Switch mechanism. E. H. Remde. 1,620,167; Mar. 8.
- Switch mechanism. E. B. Thurston. Re16,810; Dec. 6.
- Switch mechanism. E. H. W. Ulrich. 1,626,650; May 3.
- Switch mechanism. Interlocking. J. E. Sederholm. 1,634,121; June 28.
- Switch mechanism. Meter-testing. O. S. Jennings. 1,615,704; Jan. 25.
- Switch mechanism. Safety. I. E. McCabe. 1,648,390; Nov. 8.
- Switch mounting. Automatic. H. F. Obergfell. 1,624,502; Apr. 12.
- Switch-operating mechanism. B. D. Hilliard. 1,621,308; Mar. 15.
- Switch-operating mechanism. A. F. C. Lotz. 1,648,553; Nov. 8.
- Switch-operating mechanism. P. Peterson. 1,633,869; June 28.
- Switch or circuit breaker. Electric. R. W. Gregory and L. C. Grant. 1,645,806; Oct. 18.
- Switch or cut-out. Thermostatic safety. P. Strughold. 1,640,300; Aug. 23.
- Switch plate. F. H. Auld. 1,643,599; Sept. 27.
- Switch plate. N. Chesler. 1,651,252; Nov. 29.
- Switch-point guard. P. Hoffman and J. B. Strong. 1,628,852; May 17.
- Switch-point protector. R. G. Detmer. 1,629,817; May 24.
- Switch-point protector. L. H. Fulton. 1,649,954; Nov. 22.
- Switch shell. Insulating. T. A. Both. 1,648,606; Nov. 8.
- Switch socket. Pull-. R. B. Benjamin. 1,617,097; Feb. 8.
- Switch stand. J. Trusch. 1,646,775; Oct. 25.
- Switch throwing and locking device. J. Bruce. 1,614,183; Jan. 11.
- Switch throwing and locking mechanism. C. C. Thorn. 1,654,023; Dec. 27.
- Switch-throwing mechanism. H. N. Burreas. 1,620,947; Mar. 15.
- Switch tube for controlling electric circuits. R. Rüdtenberg. 1,650,909; Nov. 29.
- Switching apparatus. Condenser. V. E. Goodwin. 1,646,240; Oct. 18.
- Switching apparatus. Electric. H. G. French. 1,614,115; Jan. 11.
- Switching arrangement. N. Senzai. 1,651,842; Dec. 6.
- Switching device. Automatic. F. Aldendorff. 1,641,145; Sept. 6.
- Switching device. J. Bruynes. 1,650,601; Nov. 29.
- Switching device. E. W. Gent. 1,647,792; Nov. 1.
- Switching device. J. J. Kuhn and W. L. Betts. 1,645,147; Oct. 11.
- Switching device. D. D. Miller. 1,628,991; May 17.
- Switching device. J. C. Rinker and A. J. Kralinger. 1,618,338; Feb. 22.
- Switching device. B. Settegast. 1,651,414; Dec. 6.
- Switching device. A. R. Swoboda. 1,624,374; Apr. 12.
- Switching equipment. Automatic. C. W. Place. 1,646,215; Oct. 18.
- Switching system. Automatic. F. Aldendorff. 1,634,007; June 28.
- Switching system. Automatic. H. Bany. 1,615,669; Jan. 25.
- Switching system. Automatic transformer-. C. M. Moss. 1,654,303; Dec. 27.
- Switches. Attachment for oil. J. D. Hillard. 1,620,155; Mar. 8.
- Switch. Contact device for key. R. Pudenko. 1,653,823; Dec. 27.
- Switches. Cut-out device for pneumatically-operated. G. Meyfarth. 1,637,199; July 26.
- Switches. Device for operating. A. C. Frue. 1,622,439; Mar. 29.
- Switches. Tripping device for electric. J. D. Wood. 1,653,195; Dec. 20.
- Swivel. J. J. Fry. 1,645,747; Oct. 18.
- Swivel. H. F. Minster. 1,616,325; Feb. 1.
- Swivel. R. Taylor. 1,617,776; Feb. 15.
- Swivel. R. Taylor. 1,627,873; May 10.
- Swivel attachment. C. R. Barry. 1,626,208; Nov. 15.
- Swivel circulating head. W. Brauer. 1,629,650; May 24.
- Swivel connector. Electrical. A. R. Goldrick. 1,650,014.
- Swivel connection. P. Mueller and A. C. Schuermann. 1,637,231; July 26.
- Swivel hook. G. F. Joyner. 1,642,958; Sept. 20.
- Swivel hook. Hydraulic. F. Bick. 1,631,890; June 7.
- Swivel link. E. C. Stacy. 1,624,441; Apr. 12.
- Swivel wrench. W. E. Wiesenthal. 1,614,907; Jan. 18.
- Swiveling chair. A. J. Adams. 1,637,846; Aug. 2.
- Synchronism in transmission systems. Indicating loss of. B. A. Sperry. 1,629,236; May 17.
- Synchronizing clocks over simplex circuits having central-battery telephone signaling. H. W. Drake. 1,646,354; Oct. 18.
- Synchronizing device. O. C. Traver. Re16,540; Feb. 8.
- Synchronizing mechanism. T. L. Dowe. 1,653,843; Dec. 27.
- Synchronizing mechanism. C. D. Richard. 1,637,161; July 26.
- Synchronizing mechanism. A. D. Trenor. 1,636,020; July 19.
- Synchronizing system. T. L. Dowe. 1,617,991; Feb. 15.
- Synchronizing system. E. E. Kleinschmidt. 1,616,808; Feb. 8.
- Synchroscope. D. R. Price and F. H. Bowman. 1,641,693; Sept. 6.
- Synchronous converter system. Automatic. J. E. Foster. 1,638,841; Aug. 16.
- Synchronous converters. Commutation of. E. R. Shand. 1,621,032; Mar. 15.
- Synchronous induction motor. F. W. Merrill. 1,618,771; Feb. 22.
- Synchronous motor. H. Weichsel. 1,643,398; Sept. 27.
- Synchronous rectifier. T. C. Lennox. 1,635,001; July 5.
- Syringe. A. Barth. 1,644,225; Oct. 4.
- Syringe. G. L. Cantwell. 1,645,984; Oct. 18.
- Syringe. I. W. Friedman. 1,652,163; Dec. 20.
- Syringe. R. B. Klett. 1,648,135; Nov. 8.
- Syringe. H. Lowenfeld. 1,643,744; Sept. 27.
- Syringe. J. Masonick and G. J. Stuebner. 1,637,264; July 26.
- Syringe. W. F. Patten. 1,636,256; Oct. 18.
- Syringe. E. J. Peglay. 1,643,289; Sept. 20.

- Syringe. G. F. Piercy. 1,616,389; Feb. 1.
Syringe and needle therefor, Hypodermic. S. J. Everett. 1,630,928; Mar. 31.
Syringe. Combined stopper and bulb. H. K. Mulford. 1,654,267; Dec. 27.
Syringe filler and bottle carrier, Serum-. H. C. Fitch. 1,615,873; Feb. 1.
Syringe for hypodermic needles or the like. W. Wolf. 1,643,531; Sept. 27.
Syringe for injections and similar purposes, Glass. A. Günther. 1,652,894; Dec. 13.
Syringe for local anesthesia. J. L. Raison. 1,615,136; Jan. 18.
Syringe. Fountain. W. A. Bryans. 1,647,210; Nov. 1.
Syringe head. E. Kallmeyer. 1,638,532; Aug. 9.
Syringe holder. R. L. Fischer. 1,647,039; Oct. 25.
Syringe, Hypodermic. H. S. Cook. Re16,836; Dec. 27.
Syringe, Hypodermic. F. J. Hofschneider. 1,648,308; Nov. 8.
Syringe, Hypodermic. A. A. Laurent. 1,641,976; Sept. 13.
Syringe or sprayer. W. Grimley. 1,653,562; Dec. 20.
Syringe, Separable. O. Hasselmann. 1,648,548; Nov. 8.
Syringe, Surgical. L. D. Smith. 1,624,990; Apr. 19.
Syringe, Warm-air. T. F. O'Neill and R. J. Miller. Re16,819; Dec. 13.
Syringe with glass piston. K. Stieglitz. 1,644,901; Oct. 11.
Syringes, Bulb for hydrometer. W. A. Reynolds. Des. 73,147; July 26.
Syringes, Needle mounting for hypodermic. B. Friedman. 1,624,327; Apr. 12.
Syringes, Plunger control for hypodermic. L. Eisele. 1,649,022; Nov. 15.
System for transmitting a plurality of values, Compound. E. Roucka. 1,633,713; June 28.
System of distribution. M. Herklotz. 1,633,860; June 28.
System of control. W. E. Tharr. 1,655,504; Dec. 13.
T. connector, Double. H. Hubbell. 1,617,810; Feb. 15.
T connector, Electrical. A. B. Dibner. 1,642,492; Sept. 13.
T square. A. M. Rasmussen. 1,624,280; Apr. 12.
T square, Magnetic. L. E. Edwards. 1,642,232; Sept. 13.
T-square, Magnetic. W. B. Thompson. 1,639,580; Aug. 16.
Tab and. W. S. Hunkins. 1,621,589; Mar. 22.
Table. See—
Bed table.
Billiard table.
Camp table.
Card table.
Casting table.
Changeable-top table.
Checking and assembling table.
Checking table.
Chiropractic table.
Concentrating table.
Concentrator table.
Convertible table.
Display table.
Drafting table.
Extension table.
Feed table.
Folding table.
Game table.
Grain-door table.
Table. G. H. Angert. 1,647,105; Oct. 25.
Table. M. Antrabus. Des. 72,128; Mar. 8.
Table. O. B. Bach. Des. 72,135; Mar. 8.
Table. O. B. Bach. Des. 72,342; Apr. 5.
Table. O. B. Bach. Des. 72,344; Apr. 5.
Table. O. B. Bach. Des. 72,659-62; May 17.
Table. O. B. Bach. Des. 73,550-1; Oct. 4.
Table. D. Crane. Des. 72,891; June 21.
Table. W. E. Crossgrove. 1,651,586; Dec. 6.
Table. J. T. Elliot. 1,624,862; Apr. 12.
Table. R. C. Erskine. Des. 72,363; Apr. 5.
Table. M. E. Farris. 1,613,696; Jan. 11.
Table. H. F. Feldman and J. Allen. 1,618,523; Feb. 22.
Table. H. L. Guth. Des. 72,151; Mar. 8.
Table. A. S. Katz. Des. 73,613; Oct. 11.
Table. J. F. McGlothlen. 1,645,336; Oct. 11.
Table. A. Small. 1,634,218; June 28.
Table. R. J. Stuart. 1,624,770; Apr. 12.
Table. C. W. Weston. Des. 73,350; Aug. 23.
Table accessory. P. Bernard. 1,646,523; Oct. 25.
Table and bench. Folding. A. E. Hill. 1,643,947; Oct. 4.
Table and camp kit, Combined. N. G. Mackinnon. 1,646,922; Oct. 25.
Table and food cabinet, Combination. J. L. Morris. 1,642,687; Sept. 20.
Table and luggage carrier, Combination. R. G. Bryant. 1,621,922; Mar. 22.
Table and seat structure, Combined. J. E. Strong. 1,646,939; Oct. 25.
Table and smoker's stand, Combination. W. B. King. Des. 73,746; Nov. 1.
Tablecloth or similar article, Embroidered. A. Kohlberg. Des. 73,917-19; Nov. 22.
Table and tray, Combination. I. Conrad. 1,640,440; Aug. 30.
Table and tub, Combined. A. Castanien. 1,651,443; Dec. 6.
Table and writing desk, Combination. F. Schimmel. 1,621,688; Mar. 22.
Table caster. O. W. Mann. 1,621,514; Mar. 22.
Tablecloth. D. A. Kemp. Des. 71,833; Jan. 11.
Tablecloth. R. H. Robertson. Des. 74,164; Dec. 27.
Table concentrator. A. H. Stebbins. 1,648,286; Nov. 8.
Table cover. J. Derk. Des. 73,644; Oct. 13.
Table-cover holder. G. H. Harper. 1,621,720; Mar. 22.
Table cover or similar article. H. S. Hull. Des. 73,082-3; July 19.
Table cover or similar article. J. F. Newton. Des. 73,860; Nov. 15.
Table cover or the like. A. L. Ejik. Des. 73,651; Oct. 18.
Table cover or the like, Embroidered cloth. S. N. Mallouk. Des. 73,045; July 12.
Table cover or the like, Lace. S. N. Mallouk. Des. 73,64-6; Nov. 8.
Table cover or the like, Lace. S. N. Mallouk. Des. 72,221; Mar. 15.
Table for animals, Operating. J. W. Giest. 1,632,831; June 21.
Table for attachment to seats, desks, and other articles. C. Vining. Des. 73,497,761; Nov. 15.
Table for vegetables and fruits, Grading. S. B. Lindley. 1,621,744; Mar. 22.
Table for vegetables and fruits, Turnover. S. B. Lindley. 1,620,217; Mar. 8.
Table on ships, Dinner. I. Savio. 1,624,437; Apr. 12.
Table or tray, Portable and collapsible. I. Conrad. 1,639,825; Aug. 23.
Table ornament or analogous article. P. Cricchio. Des. 72,988; July 5.
Table ornament or analogous article. F. J. Willock. Des. 74,180; Dec. 20.
Table. J. L. Drew. J. L. Drake. 1,634,827; July 5.
Table signaling device. L. R. Nye. 1,626,959; May 3.
Table slide. H. H. Drew. 1,626,189; Apr. 26.
Table support. C. K. Farmer. 1,638,839; Aug. 16.
Table tap. W. He. 1,645,241; Oct. 11.
Table. C. Landau. 1,629,799; May 24.
Table top, Composite. C. J. Schmitt. 1,641,055; Aug. 30.
Table top, Revolving. J. Kremenek. 1,653,296; Dec. 20.
Table torchère or analogous article. L. Zweig. Des. 73,421-2; Sept. 6.
Tables. Apparatus for operating extension. T. Wall. Des. 74,441; Aug. 30.
Tables. Attachment for chiropractic. D. D. Evans. Re16,653; June 14.
Tables, Extension leaf for. D. G. Anderson. 1,641,518; Sept. 6.
Tables, Extension top for. G. W. Krick. 1,641,495; Sept. 6.
Tables, Revolving tray for dining. M. B. Twedt. 1,628,013; May 10.
Tablet shield, Rainy-day. W. A. Pryor. 1,642,384-5; Sept. 13.
Tablets and the like, Support for writing. R. H. Bell and F. R. Seales. 1,636,275; July 19.
Tableware and making the same, Silver-reinforced. T. B. Lashar. 1,619,872; Mar. 8.
Tabular calculator. A. W. Hoffman. 1,640,703; Aug. 30.
Tabulating apparatus. J. R. Peirce. 1,623,204; Apr. 5.
Tabulating machines, Variable-feed mechanism for. W. Lasker and J. Mueller. 1,627,394; May 3.
Tabulator particularly for calculating wages. G. Tauschek. 1,617,088; Feb. 8.
Tachometer. E. Blum. 1,639,978; Aug. 23.
Tack. G. A. Taylor. 1,618,289; Feb. 22.
Tag and nail extractor. H. B. Beetz. 1,612,793; Jan. 4.
Tack machine. G. B. H. B. and E. C. Baker. 1,618,628; Feb. 22.
Tack-pulling machine. C. F. Pym. 1,614,628; Jan. 18.
Tack-supplying mechanism. B. Jorgensen. 1,631,134; June 7.
Tack-supplying mechanism. A. M. Long. 1,624,958; Apr. 19.
Tacker, Hand. H. A. Ballard. 1,643,364; Sept. 27.
Tacks, nails, rivets, pins, or the like, Machine for making. F. Humphris. 1,647,830; Nov. 1.
Tackle. P. W. Seurin. 1,619,000; Mar. 1.
Tag. H. E. Kondolf. 1,640,198; Aug. 23.
Tag. H. E. Kondolf. 1,642,781; Sept. 20.
Tag. H. A. Johnson. 1,633,844; July 19.
Tag and making same. H. E. Kondolf. 1,640,195; Aug. 23.
Tag and tag holder, Price. C. E. Brigel. 1,632,537; June 14.
Tag case, Information. T. G. Reynolds. 1,644,150; Oct. 4.
Tag distributor. E. F. Stanton. Des. 74,031; Dec. 6.
Tag, Laundry-marking. C. W. Canine. Re16,717; Aug. 23.
Tag-making machine. C. C. Kurtz. 1,627,978; May 10.
Tag price-marking machine. F. Kohnle. 1,631,933; June 7.
Tag-stringing machines and the like, Feeding mechanism. E. L. Robinson. 1,625,157; Apr. 19.
Tags, Method and apparatus for making. H. E. Kondolf. 1,645,013; Oct. 11.
Tail and signal lamp. J. C. Stearns. 1,629,549; May 24.
Tailboard fastener. J. T. Cantrell. 1,615,300; Jan. 25.
Tailboard scraper. G. S. Spreyer. 1,633,464; June 21.
Tail-docking machine. K. W. Moore. 1,629,02; May 17.
Tail light and illuminated license plate, Combination. P. E. Clement. 1,621,351; Mar. 15.
Tail light and stop signal, Combined. E. O. Seltz. 1,626,632; May 3.

- Tail skid. H. C. Mummert and J. F. Meade. 1,613,843; Jan. 11.
- Tailstock. C. F. Randolph. 1,652,412; Dec. 13.
- Tailstock clamp. E. A. Moyer. 1,616,136; Feb. 1.
- Tailstock with tool slide. F. B. Cockburn. 1,613,161; Jan. 4.
- Tailoring, System of. G. A. Mongelli. 1,624,894; Apr. 12.
- Tailor's measure. B. Simpson. 1,624,768; Apr. 12.
- Talcum-powder box. H. R. Corey. 1,644,989; Oct. 11.
- Take-down apparatus. T. F. Waters. 1,636,794; July 26.
- Take-up clamp, Current. A. L. Sawyer. 1,648,326; Nov. 8.
- Take-up block. E. Thomas. 1,625,506; Apr. 19.
- Take-up bolt, Automatic. J. A. Anderson. 1,651,240-1; Nov. 29.
- Take-up bolt, Automatic. O. Miller. 1,631,878; June 7.
- Take-up device. W. S. Lewis. 1,627,244; May 3.
- Take-up device. S. A. Slauson. 1,615,145; Jan. 18.
- Take-up reel. T. J. Schuetz. 1,631,432; June 7.
- Talking, dictating, and like machine, Magnetic. G. Scheel. 1,639,060; Aug. 16.
- Talking machine. K. Holtz. 1,620,257; Mar. 8.
- Talking machine. I. J. Mohr. 1,633,745; June 28.
- Talking machine. J. Wolff. 1,616,730; Feb. 8.
- Talking machine, Constant surface-speed. G. M. Thomas. 1,627,353; May 3.
- Talking-machine record. F. L. Dyer. 1,628,658; May 17.
- Talking machines, Controlling device for electromagnetic. W. Hornauer. 1,638,998; Aug. 16.
- Talking machines, Horn for. B. R. Seabrook. 1,651,841; Dec. 6.
- Talking machines, Horn for. H. Wünsch. 1,650,171; Nov. 22.
- Talking machines, Magnet carrier for electromagnetic. W. Hornauer. 1,638,999; Aug. 16.
- Talking machines, Repeating mechanism for. S. B. Battey and B. M. Battey. 1,629,936; May 24.
- Talking machines, Record holder for. P. D. Bodwell and H. W. Bellows. 1,653,541; Dec. 20.
- Talking machines, Stop mechanism for. L. Y. Squibb. 1,615,243; Jan. 26.
- Tally. B. B. Bley. 1,637,211; July 26.
- Tamper. C. H. Bils. 1,644,320; Oct. 4.
- Tamping and tamping machine. C. R. Hunt. 1,624,734; Apr. 12.
- Tampon pad. E. J. Gulick. 1,638,808; Aug. 9.
- Tandem water regulator. A. J. Hermesmeier. 1,635,083; July 5.
- Tank Cars—
- Air tank. Locomotive-tender tank.
 - Bath tank. Liquid-storage tank.
 - Evaporating tank. Oil-storage tank.
 - Feed tank. Oil tank.
 - Filtering tank. Radiator tank.
 - Flush tank. Refrigerator tank.
 - Flushing tank. Retting tank.
 - Fuel tank. Septic tank.
 - Fuel-supply tank. Settling tank.
 - Gasoline-dispensing tank. Sewage tank.
 - Gasoline tank. Stock-watering tank.
 - Glass-melting tank. Storage tank.
 - Glass tank. Swimming tank.
 - Liquid-dispensing tank. Transformer tank.
 - Liquid-feed tank. Vacuum fuel-feed tank.
 - Liquid-measuring tank. Vacuum tank.
- Tank. C. P. Eisenhauer. 1,613,746; Jan. 11.
- Tank. H. F. Koeppel. 1,620,471; Mar. 8.
- Tank. A. A. Kramer. 1,614,561; Jan. 18.
- Tank. F. A. Pfeiffer. 1,649,729; Nov. 15.
- Tank. E. B. Staley. 1,640,471; Aug. 30.
- Tank. I. B. Tanner. 1,613,916; Jan. 11.
- Tank. I. B. Tanner. 1,617,355; Feb. 15.
- Tank. W. M. Ward. 1,642,799; Sept. 20.
- Tank and carburetor, Combined. H. Dalton, sr. 1,634,022; June 28.
- Tank and dry kiln, Combination treating. G. E. Rice and C. L. Simmons. 1,643,174; Sept. 20.
- Tank ball. A. H. Canfield. 1,652,237; Dec. 13.
- Tank-car bottom outlet, Railway. E. G. Todt. 1,644,861; Oct. 11.
- Tank-car cleaning device. F. E. Freel. 1,624,865; Apr. 12.
- Tank cars, Device for testing safety valves on. W. H. Fine. 1,637,743; Aug. 2.
- Tank cleaner. E. J. Hahn. 1,625,721; Apr. 19.
- Tank-cleaning device. J. W. Force. 1,616,218; Feb. 1.
- Tank construction and valve-lever-operating mechanism, therefor. Flush. C. C. Wright. 1,628,128; Apr. 26.
- Tank construction, Glass. J. Rotheram and A. E. Evans. 1,622,346; Mar. 29.
- Tank cover, Leakproof. W. T. Van Orman. 1,620,415; Mar. 8.
- Tank-filling means. W. H. Smith. 1,624,687; Apr. 12.
- Tank for gases and volatile liquids, Storage. J. H. Wiggins. 1,645,313; Oct. 11.
- Tank for separating oil and water from gas. F. A. Ray. 1,625,052; Apr. 19.
- Tank for volatile liquids, Storage. W. E. Brown. 1,653,387; Dec. 20.
- Tank gauge. B. Tyden. 1,616,934; Feb. 8.
- Tank gauge, Automatic. T. A. Seraphin. 1,621,857; Mar. 22.
- Tank gauge holes, Collar and cover for. T. J. Calhoun. 1,628,028; May 10.
- Tank-gauging device. G. O. Wilson. 1,629,758; May 24.
- Tank hanger, Brine. R. Butt. 1,646,186; Oct. 18.
- Tank-head construction. J. P. Keene. 1,651,604; Dec. 6.
- Tank heater. A. C. Mott, jr. 1,635,052; July 5.
- Tank hose coupling. L. H. Cain and J. H. and C. J. Brogan. 1,641,839; Sept. 6.
- Tank, Leak-tight sectional. E. F. Black. 1,627,309; May 3.
- Tank lever. H. MacMillan. 1,621,122; Mar. 15.
- Tank lock. C. E. Halaby. 1,649,587; Nov. 15.
- Tank lock, Gasoline. A. Knirtel. 1,620,902; Mar. 15.
- Tank, Note arrangement. C. H. Folsbee. 1,649,397; Nov. 15.
- Tank mounting and multiple-unit tank car. V. Willoughby and A. Kassler. 1,649,432; Nov. 15.
- Tank-operating lever, Flush. E. L. Delany. 1,653,799; Dec. 27.
- Tank support, Gas. R. E. Tetens. 1,649,265; Nov. 15.
- Tank vent. G. C. Schmidt and F. G. D. Muller. 1,628,069; May 10.
- Tank vent. P. S. Shield. 1,651,971; Dec. 6.
- Tank vent, flame arrester, and automatic snuffer, Combination. G. C. Schmidt and F. G. D. Muller. 1,628,199; May 10.
- Tank vents, Attachment for. A. S. James. 1,627,095; May 3.
- Tanks and making the same, Dome for. R. M. Smith. 1,648,919; Nov. 15.
- Tanks, Art and apparatus for welding transformer. F. S. Smith. 1,613,061; Jan. 4.
- Tanks, Attachment for oil. J. A. Butcher. 1,643,833; Sept. 27.
- Tanks, Automatic trip valve for storage. B. Gregory and C. C. Mitchell. 1,645,480; Oct. 11.
- Tanks, Batch feeding to glass. C. B. Kingsley. 1,623,057; Apr. 5.
- Tanks, Cover for. O. T. Bekkerus. 1,636,454; July 19.
- Tanks, Deck for oil. C. A. Glass. 1,650,340; Nov. 22.
- Tanks, Discharge device for. M. C. Blest. 1,619,054; Mar. 1.
- Tanks, Filler cap for storage. H. N. Vickerman. 1,651,168; Nov. 29.
- Tanks, Float valve for flush. E. L. Delany. 1,627,489; Nov. 22.
- Tanks, Fluid-pressure-operated means for indicating the quantity and specific gravity of the liquid contents of. H. Martin. 1,622,794; Mar. 29.
- Tanks, Fuel filler for. T. D. Manuel. 1,631,542; June 7.
- Tanks, Gas-tight cable support for. S. H. Brooks. 1,630,828; May 21.
- Tanks, Header for oil. J. Douglass. 1,613,876; Jan. 11.
- Tanks, Hog conveyor for scalding. C. W. Caffee. 1,617,146; Feb. 8.
- Tanks, Indicating device for visible gasoline. W. E. Mitchell. 1,636,752; July 26.
- Tanks, Key for water. F. Aviles. 1,614,175; Jan. 11.
- Tanks, Liquid-level gauge for gasoline. K. H. Kiefer. 1,618,442; Feb. 22.
- Tanks, Liquid-measuring attachment for. J. E. Boegen. 1,634,608; July 5.
- Tanks, Locking cap for. H. L. Groesbeck. 1,625,652; Apr. 19.
- Tanks, Low-level alarm for gasoline. A. Fredericks. 1,619,339; Mar. 1.
- Tanks, Making hot-water. G. F. Schwartz. 1,624,983; Apr. 19.
- Tanks, Operating handle for flushing. J. M. Teahen. 1,634,524; July 5.
- Tanks, Relief-valve mechanism for oil. G. Raymond. 1,645,722; Oct. 18.
- Tanks, Reserve-supply device for. W. C. Hatfield. 1,650,711; Nov. 29.
- Tanks, Reserve valve for fuel. S. G. House. 1,652,011; Dec. 6.
- Tanks, Safety attachment for. J. Cohn. 1,626,721; Nov. 22.
- Tanks, Valve guide for flushing. C. M. Smith. 1,632,631; June 14.
- Tanks, vats, and stills, Closure for liquid-holding. A. H. Noyes. 1,634,955; July 5.
- Tanning. J. K. Tullis. 1,621,612; Mar. 22.
- Tapping apparatus. C. J. Glasel. 1,628,066; May 17.
- Tap. S. W. Elstone. 1,613,224; Jan. 4.
- Tap changer. C. A. Roberts. 1,641,294; Sept. 6.
- Tap, Collapsing. C. J. Knapp. 1,613,036; Jan. 4.
- Tap grinder. H. E. Durkee. 1,624,933; Apr. 19.
- Tape-affixing device, Gummed. R. Mson. 1,644,262; Oct. 4.
- Tape, affixing reinforcing. L. H. Hartman. 1,632,005; June 14.
- Tape carriers, Holding sheets in register on. H. M. Barber. 1,645,175; Oct. 11.
- Tape cutter. C. G. Kronmiller. 1,649,238; Nov. 15.
- Tape-dispensing machine, Selective gummed. W. E. Hinson. 1,632,715; Dec. 13.
- Tape holder. W. Kaltschmidt. 1,642,152; Sept. 13.
- Tape, Hook. D. Silberman. 1,639,472; Aug. 16.
- Tape measure. F. Swift. 1,623,138; Apr. 5.
- Tape measures, Case for. E. J. Witchger. 1,638,227; Aug. 9.
- Tape. Method and apparatus for manufacturing glued binding. E. Ammann-Haberstich. 1,618,903; Feb. 22.
- Tape or ribbon working machine. W. F. Hosford. 1,625,469; Apr. 19.
- Tape reel. E. J. Witchger. 1,638,226; Aug. 9.

- Tape-serving device. T. H. Krueger. 1,638,815; Aug. 9.
 Tape-serving device with inclined guide. T. H. Krueger. 1,638,816; Aug. 9.
 Tape-serving machine, Gummed-. W. A. Uttz, sr. 1,633,144; June 21.
 Taper-gauging machine. P. Wallin. 1,627,360; May 3.
 Taper-turning attachment. J. B. Lovely. 1,635,285; July 12.
 Tapers, Instrument for gauging internal. B. M. Swanson. 1,637,757; Aug. 2.
 Tapping and seam-pressing machine, Combined. W. P. Osgood. 1,646,212; Oct. 18.
 Tapping machine. P. L. O'Donnell. 1,628,800; May 17.
 Taping machine, Veneer. H. G. Greenfield. 1,638,664; Aug. 9.
 Tappet. M. M. Wilcox. 1,628,017; May 10.
 Tappet and making same. R. Jardine. 1,649,409; Nov. 15.
 Tappet clearance gauge. F. A. Schmitz. 1,649,259; Nov. 15.
 Tapping machine. H. S. Bergen. 1,640,105; Aug. 23.
 Tapping machine chuck. A. Burge. 1,630,254; May 31.
 Tapping machines, Electric reversing device for. B. S. T. Bishop and P. E. Dow. 1,640,177; Aug. 23.
 Tar and the like, Distillation of. W. B. Davidson, A. C. Michie, and E. W. Muddiman. 1,626,588; Apr. 26.
 Tar, Distillation of. J. S. Morgan and D. Rider. 1,635,896; July 12.
 Target. E. C. Huff. 1,653,571; Dec. 20.
 Target. J. F. Stauffer. 1,652,062; Dec. 6.
 Target. M. Steinberg and E. J. Boyler. 1,652,688; Dec. 13.
 Target, Automatic recording. J. M. Hill. 1,650,940; Nov. 29.
 Target device. G. Pisano. 1,630,717; May 31.
 Target-glider release mechanism. C. W. Dworack. 1,650,615; Nov. 29.
 Target, Pitcher's practice. A. Hillstrom. 1,612,920; Jan. 4.
 Target-practice device. J. E. T. Jacquemin and M. P. C. Merc. 1,629,794; May 24.
 Target, Tape-line. W. W. Wannamaker, jr. 1,649,764; Nov. 15.
 Target-throwing apparatus. E. F. Bahlmann. 1,638,283; Aug. 9.
 Target trap. G. W. Lorimer and J. McVicker. 1,650,633; Nov. 29.
 Tar-separating device. M. Poissant. 1,617,649; Feb. 15.
 Tassel. A. Sacks. 1,618,110-11; Feb. 15.
 Tassel fringe. D. M. Lending. Des. 72,521; Apr. 26.
 Tattoo marking instrument, Animal. M. W. Meek. 1,630,303; May 31.
 Taximeter. J. Gluck. 1,612,864; Jan. 4.
 Taximeter. J. Gluck and R. R. Karich. 1,650,121; Nov. 22.
 Taximeter. W. G. Orth and G. H. Darst. 1,615,291; Jan. 25.
 Taximeter-fare-counter control. F. O. Gray. 1,615,541; Jan. 25.
 Taximeter, Recording. M. Blikstad and T. Martin. 1,616,213; Feb. 1.
 Taximeters, Driving means for. C. Anstotz and W. Saupé. 1,635,698; July 12.
 Tea bag. S. Cooper. 1,629,612; May 24.
 Tea-ball tags, Making. E. J. Ovington. 1,642,307; Sept. 13.
 Teacup. H. Goldfield. 1,652,935; Dec. 13.
 Tea-dispensing machine. J. Hardy. 1,636,910; July 26.
 Teapot and like vessel for making beverages by infusion. F. E. Barker. 1,642,222; Sept. 13.
 Teapot construction. A. F. Saunders. 1,635,639; July 12.
 Teapot or coffee-pot. S. Forman. 1,619,065; Mar. 1.
 Teapot or similar article. F. Schmidt. Des. 72,279; Mar. 22.
 Teaching drawing, Device for. M. Fleischer. 1,617,207; Feb. 8.
 Tee. L. H. Broome. 1,614,343; Jan. 11.
 Tee box. H. A. Fisher. 1,639,765; Aug. 23.
 Teefer board, Child's. L. L. Henry and E. Hetherington. 1,640,150; Aug. 23.
 Teefer-totter and merry-go-round, Combination. W. F. Norris. 1,640,848; Aug. 30.
 Teeth and improvements in dental filling materials, Composition of matter for capping pulps in. P. W. Kruger. 1,621,793; Mar. 22.
 Teeth, Artificial. E. P. Smith. 1,621,643; Mar. 22.
 Teeth, Artificial. W. P. Orr. 1,643,992; Oct. 4.
 Teeth, Backplate for artificial. B. Platschick. 1,613,719; Jan. 11.
 Teeth-cleaning device. E. L. Chott. 1,644,465; Oct. 4.
 Teeth, Method and apparatus for grinding. F. J. Hofschneider. 1,648,273; Nov. 8.
 Teeth, Root-canal filling. J. P. Carmichael. 1,649,508; Nov. 15.
 Teeth, Stress-breaking attachment for. W. I. Lotze. 1,645,436; Oct. 11.
 Teething device. A. J. Hansen. 1,618,180; Feb. 22.
 Teething device for infants. J. A. Palmer. 1,623,969; Apr. 12.
 Telautograph apparatus. A. N. Van Nostrand. 1,625,842; Apr. 15.
 Telautograph receivers, Field-magnet mechanism for. A. N. Van Nostrand. 1,640,334; Aug. 30.
 Telautograph system. A. M. Van Nostrand. 1,623,220; Apr. 5.
 Telautographic transmission. A. Korn. 1,615,015; Jan. 15.
 Telautography. H. G. Bartholomew and M. L. D. McFarlane. 1,653,425; Dec. 20.
 Telegraph and telephone cables, Manufacture of. W. S. Smith and A. D. Shuter. 1,631,774; June 7.
 Telegraph and telephone device, Noiseless intercommunicating. M. Bracamonte. 1,642,295; Sept. 13.
 Telegraph and telephone system, Wireless. C. Speaker. 1,624,991; Apr. 19.
 Telegraph apparatus, Electric. F. E. Pernot. 1,647,468; Nov. 1.
 Telegraph cable provided with loading coil. H. Salinger. 1,639,201; Aug. 16.
 Telegraph cables, Duplex arrangement for. H. W. G. Salinger. 1,619,041; Mar. 1.
 Telegraph cables, Diminishing the inductive disturbances in submarine. U. Meyer. 1,650,145; Nov. 22.
 Telegraph cables, Duplex method for. H. Salinger. 1,653,971; Dec. 27.
 Telegraph circuit, Carrier. R. W. Deardorff. 1,614,545; Jan. 18.
 Telegraph circuits. J. Herman. 1,634,286; July 5.
 Telegraph circuits. R. D. Parker. 1,634,299; July 5.
 Telegraph circuits, Combined resonant shunt device for. H. Nyström. 1,621,557; Mar. 22.
 Telegraph circuits, Measuring the margin of operation of. R. E. Pierce. 1,616,507; Feb. 8.
 Telegraph circuits, Switch for. J. D. Healea. 1,650,446; Nov. 22.
 Telegraph distortion-measuring system. S. I. Cory. 1,627,633; May 10.
 Telegraph distortion-measuring system. S. I. Cory. 1,628,392; May 10.
 Telegraph distortion-measuring system. J. M. Fell. 1,635,209; July 12.
 Telegraph-distortion-measuring system. J. Herman. 1,613,704; Jan. 11.
 Telegraph exchange system, Printing. D. B. Perry. 1,641,290; Sept. 6.
 Telegraph-exchange system, Printing. G. S. Vernam. 1,619,897; Mar. 8.
 Telegraph exchange system, Printing. G. S. Vernam and D. B. Perry. 1,613,683; Jan. 11.
 Telegraph-exchange system, Printing. G. S. Vernam. 1,648,974-5; Nov. 15.
 Telegraph key. H. Hesselbach. 1,618,007; Feb. 15.
 Telegraph machine. C. Happe. 1,648,270; Nov. 8.
 Telegraph machine, Printing. E. G. C. Loifgren. 1,647,456; Nov. 1.
 Telegraphophone reproducer. L. J. Lelshman. 1,645,491; Oct. 11.
 Telegraph-printer system. J. P. Ferriter and E. E. Stradley. 1,645,591; Oct. 18.
 Telegraph, Printing or selecting. C. L. and H. L. Krum. 1,635,486; Nov. 15.
 Telegraph printers, Spacing mechanism for. C. E. Nelson. 1,652,320; Dec. 13.
 Telegraph receiver. F. McKay. 1,650,997; Nov. 29.
 Telegraph receiver, Carrier. V. P. Thorp. 1,642,703; Sept. 20.
 Telegraph-receiving apparatus, Wireless. R. A. Weagant. 1,645,560; Oct. 18.
 Telegraph receiving instrument. R. A. Grout. 1,627,030; May 3.
 Telegraph receiving system, Wireless. H. J. Round. 1,622,000; Mar. 22.
 Telegraph repeater. J. Herman. 1,652,242; Dec. 13.
 Telegraph repeater, Alternating-current. J. P. Ferriter and W. T. Guest. 1,631,675; June 7.
 Telegraph repeater circuits, Carrier. B. P. Hamilton. 1,636,053; July 19.
 Telegraph set for duplex lines, Intermediate. J. Herman. 1,617,482; Feb. 15.
 Telegraph signaling system. S. D. Wilburn. 1,631,174; June 7.
 Telegraph station, Wireless. H. J. J. M. de R. de Bellescize. 1,639,686; Aug. 23.
 Telegraph switching system. C. E. Lomax. 1,642,037; Sept. 13.
 Telegraph system. A. A. Clokey. 1,624,393; Apr. 12.
 Telegraph system. C. S. Demarest. 1,653,089; Dec. 20.
 Telegraph system. C. L. Faries. 1,624,936; Apr. 19.
 Telegraph system. M. C. Hall. 1,630,340; May 31.
 Telegraph system. J. Herman. 1,618,193; Feb. 22.
 Telegraph system. H. L. Krum. 1,635,130; July 5.
 Telegraph system. C. F. Nelson. 1,616,326; Feb. 1.
 Telegraph system. H. W. O'Neill. 1,625,495; Apr. 19.
 Telegraph system, Alternating-current. W. M. Bruce, jr. 1,630,827; May 31.
 Telegraph system, Alternating-current. J. P. Ferriter and W. T. Guest. 1,631,676; June 7.
 Telegraph system, Carrier. H. A. Affel. 1,617,934; Feb. 15.
 Telegraph system, Carrier-frequency. J. Vopel. 1,634,060; June 28.
 Telegraph system, Duplex. J. H. Bell. 1,637,171; July 26.
 Telegraph system, Loaded-submarine-cable. O. E. Bucknely. 1,647,267; Nov. 1.
 Telegraph system, Printing. G. S. Vernam. 1,648,922; Nov. 15.

- Telegraph system, Selective. H. L. Krum. 1,635,131; July 6.
 Telegraph system with magnitude discrimination, Multiplex. H. V. Hunter. 1,614,555; Jan. 18.
 Telegraph system with way stations, Printing. D. S. Hulsish. 1,653,047; Dec. 20.
 Telegraph systems, Phase correction in synchronous. L. J. Baker and F. B. Bramhall. 1,636,784; July 26.
 Telegraph, telephone and electrical transmission lines, Temporary stringer for. M. K. Sharp. 1,649,986; Nov. 22.
 Telegraph transmitter. W. G. Fluharty. 1,640,541; Aug. 30.
 Telegraph transmitter. C. L. and H. L. Krum. 1,635,129; July 5.
 Telegraph transmitter. J. R. Youngblood. 1,627,819; May 10.
 Telegraph transmitting instrument. W. D. Cooper. 1,632,273; June 14.
 Telegraphs, Printing. H. Pfannenstiel. 1,623,748; Apr. 5.
 Telegraphs, Printing. H. Pfannenstiel. 1,623,809; Apr. 5.
 Telegraphic receiving apparatus. F. G. Creed. 1,639,213; Aug. 16.
 Telegraphic transmitting apparatus. F. G. Creed. 1,639,212; Aug. 16.
 Telegraphy. F. McCormick. 1,627,444; May 3.
 Telegraphy, Alternating-current. F. Lüschen and K. Kipfmüller. 1,642,453; Sept. 13.
 Telegraphy by phase discrimination, Multiplex. H. A. Afel and R. W. Deardorff. 1,617,935; Feb. 15.
 Telegraphy, Carrier current. L. Espenschied. 1,635,207; July 12.
 Telegraphy, Carrier-wave. P. I. Wold. 1,652,549; Dec. 13.
 Telegraphy, Electric transmitter for use in automatic. F. G. Creed. 1,632,274; June 14.
 Telegraphy, Multiplex. H. A. Afel. 1,612,848; Jan. 4.
 Telegraphy, Multiplex alternating-current. J. Vopel. 1,645,558; Oct. 18.
 Telegraphy, Printing. M. P. Chaplin. 1,613,937; Jan. 11.
 Telegraphy, Printing. A. D. Dowd. 1,645,805; Oct. 18.
 Telegraphy, Printing. E. E. Kleinschmidt. 1,632,297; June 14.
 Telegraphy, Printing. F. McCormick. 1,627,445; May 3.
 Telegraphy, Printing. H. Pfannenstiel. 1,623,810; Apr. 5.
 Telegraphy, Printing. A. H. Reiber. 1,653,606; Dec. 20.
 Telegraphy, Receiving arrangement for wireless. A. Meissner. 1,628,676; May 17.
 Telegraphy with magnitude discrimination, Multiplex. R. W. Deardorff. 1,614,546; Jan. 18.
 Telemetric apparatus. W. P. Blanchard. 1,628,450; May 10.
 Telemetric system. G. W. Sprenger. 1,620,405; Mar. 8.
 Telemotor system. E. A. Sperry, Jr. 1,633,463; June 21.
 Telemotor. F. T. Maley and E. A. Duddy. 1,617,216; Feb. 8.
 Telephone. B. G. Pohlmann. 1,645,773; Oct. 18.
 Telephone accessory. D. S. S. Steuart. 1,654,193; Dec. 27.
 Telephone and cap therefor. F. Walter. 1,631,350; June 7.
 Telephone and wireless receiver, Combined. C. H. Allen. 1,650,925; Nov. 29.
 Telephone apparatus, W. E. Perry. 1,640,721; Aug. 30.
 Telephone apparatus, Automatic. T. B. Willson. 1,619,554; Mar. 1.
 Telephone attachment. F. W. Hoban. Re16,635; May 24.
 Telephone attachment. F. W. Hoban. Re16,645; May 31.
 Telephone attachment. F. W. Hoban. 1,634,325; July 5.
 Telephone attachment. W. S. Marr. 1,639,525; Aug. 16.
 Telephone attachment. H. B. Redfield. 1,625,333; Apr. 19.
 Telephone attachment. W. M. Young. 1,640,227; Aug. 23.
 Telephone cabinet. R. C. Bennett. Des. 73,276; Aug. 23.
 Telephone cabinet. E. M. Trammell. Des. 73,718; Oct. 25.
 Telephone cabinet, Built-in. G. Evans. 1,620,637; Mar. 15.
 Telephone casing. L. M. Grandin. Des. 73,910; Nov. 22.
 Telephone circuit. W. T. Powell. 1,614,443; Jan. 11.
 Telephone circuit, Substation. A. B. Smith. 1,636,330; July 19.
 Telephone circuits, Substation. A. J. Ray. 1,633,286; June 21.
 Telephone construction. A. Nyman. 1,635,558; July 12.
 Telephone cord circuits, Testing system for. J. F. Toomey. 1,648,079; Nov. 8.
 Telephone device. L. de Forest. 1,642,363; Sept. 13.
 Telephone device. A. Nyman. 1,633,949; June 28.
 Telephone, Device for use with. C. B. Kinkad. 1,628,287; Apr. 26.
 Telephone dial. F. M. Geale. 1,646,996; Oct. 25.
 Telephone dial-setting apparatus. G. H. Revelle. 1,647,543; Nov. 1.
 Telephone diaphragm. L. T. Frederick. 1,636,410; July 19.
 Telephone diaphragm. C. G. Wieland. 1,640,915; Aug. 30.
 Telephone equipment. M. D. Garner. 1,633,892; June 28.
 Telephone exchange, Automatic. M. F. Hill. 1,638,578; Aug. 9.
 Telephone-exchange system. H. M. Bascom. 1,645,573; Oct. 18.
 Telephone-exchange system. W. G. Blauvelt. 1,634,734; July 5.
 Telephone-exchange system. W. W. Carpenter. 1,623,777; Apr. 5.
 Telephone-exchange system. W. W. Carpenter. 1,632,056; Nov. 15.
 Telephone-exchange system. W. W. Carpenter. 1,649,099; Nov. 15.
 Telephone exchange system. E. H. Clark. 1,636,171; July 19.
 Telephone-exchange system. J. F. Dahl. 1,612,965; July 19.
 Telephone-exchange system. F. W. Dunbar. 1,623,337; Apr. 5.
 Telephone-exchange system. B. G. Dunham. 1,619,250; Mar. 1.
 Telephone-exchange system. B. G. Dunham and W. T. Haines. 1,620,012; Mar. 8.
 Telephone-exchange system. K. M. Fetzer and N. A. Newell. 1,614,291; Jan. 11.
 Telephone-exchange system. O. C. From. 1,616,182; Feb. 1.
 Telephone-exchange system. E. S. Gibson. 1,618,423; Feb. 22.
 Telephone-exchange system. J. W. Gooderham. 1,650,708; Nov. 29.
 Telephone-exchange system. C. L. Goodrum. 1,647,990; Nov. 8.
 Telephone-exchange system. E. E. Hinrichsen. 1,648,122; Nov. 8.
 Telephone-exchange system. E. Jacobsen. 1,623,118; Nov. 8.
 Telephone-exchange system. L. H. Johnson and T. H. Roberts. 1,616,127; Feb. 1.
 Telephone-exchange system. W. C. Jordan. 1,624,953; Apr. 19.
 Telephone-exchange system. O. H. Kopp. 1,613,613; Apr. 19.
 Telephone-exchange system. G. A. E. Lundell. 1,638,540; Aug. 9.
 Telephone-exchange system. D. MacKenzie. 1,650,763; Nov. 29.
 Telephone-exchange system. H. W. O'Neill. 1,613,246; Jan. 4.
 Telephone-exchange system. G. H. Peterson. 1,612,880; Jan. 4.
 Telephone-exchange system. J. E. Rogers. 1,615,956; Feb. 1.
 Telephone-exchange system. E. R. Smith. 1,629,007; May 17.
 Telephone-exchange system. R. L. Stokely. 1,653,789; Dec. 27.
 Telephone-exchange system. J. F. Toomey. 1,623,139; Apr. 5.
 Telephone-exchange system. S. B. Williams and E. S. Gibson. 1,615,971; Feb. 1.
 Telephone-exchange system. S. B. Williams and E. S. Gibson. 1,623,769; Apr. 5.
 Telephone-exchange system, Machine-switching. R. L. Stokely. 1,613,624; Jan. 11.
 Telephone exchanges, Selector for automatic. G. Alfani and L. Mazza. 1,620,620; Mar. 15.
 Telephone exchanges, Sending impulses for automatic. K. Heron and W. Hirschberg. 1,642,202; Sept. 13.
 Telephone, Hand. H. Sengbusch. 1,613,851; Jan. 11.
 Telephone, Hand. O. Soldan. 1,631,607; June 7.
 Telephone high-frequency trunk, Automatic. S. B. Williams, Jr., and L. M. Clement. 1,619,228; Mar. 1.
 Telephone holder. E. E. Jones. 1,626,539; Apr. 26.
 Telephone-instrument attachment. A. Schlesinger. 1,627,415; May 8.
 Telephone instrument, Substation. J. Erickson and H. F. Obergfell. 1,651,685; Dec. 6.
 Telephone instruments, Cleaning device for dials of. G. K. Thompson. 1,639,819; Aug. 23.
 Telephone jack. S. T. Curran and E. C. Mueller, Jr. 1,611,414; Feb. 1.
 Telephone lines, Loading system for. H. Jordan. 1,637,044; July 26.
 Telephone lines, Wave compensation on. G. E. Bliziotis. 1,617,370; Feb. 15.
 Telephone lock. E. C. Beth. 1,620,628; Mar. 15.
 Telephone. Loud-speaking. C. R. Hanna. 1,645,282; Oct. 11.
 Telephone, Loud-speaking. J. S. Timmons. 1,650,474; Nov. 22.
 Telephone mouthpiece. E. Sortelle and V. C. Porter. 1,622,061; Mar. 22.
 Telephone, mouthpiece and voice control. R. Fron. 1,618,375; Feb. 22.
 Telephone, Party-line. E. R. Heath. 1,650,354; Nov. 22.
 Telephone receiver. J. Erickson. 1,617,620; Feb. 15.
 Telephone receiver. C. R. Hanna. 1,624,338; Apr. 12.
 Telephone receiver. A. E. Hearne. 1,614,551; Jan. 18.
 Telephone receiver. W. C. Jones. 1,620,776; Sept. 20.
 Telephone receiver. J. Kleinman. 1,620,263; Mar. 8.
 Telephone receiver. H. Koch and F. H. N. Wohlers. 1,647,182; Nov. 1.
 Telephone receiver. W. E. and W. H. La Pearle. 1,622,950; Mar. 29.
 Telephone receiver. R. Nordenswan. 1,631,978; June 14.
 Telephone receiver. A. Nyman. 1,643,169; Sept. 20.
 Telephone receiver. A. Phil. Re16,547; Feb. 8.

- Telephone receiver. D. A. Reynolds. 1,633,194; June 21.
 Telephone receiver. D. R. Wallace. 1,643,104; Sept. 20.
 Telephone receiver. A. P. Young. 1,628,385; May 10.
 Telephone receiver, Loud-speaking. H. Koch. 1,621,845; Mar. 22.
 Telephone receiver, Loud-speaking. A. A. Thomas. 1,614,327; Jan. 11.
 Telephone receiver, Loud-speaking. G. J. Zisch. 1,632,426; June 14.
 Telephone receiver with detachable sound amplifier. E. A. Graham. 1,630,362; July 19.
 Telephone receivers and the like, Connector for. L. Foote. 1,643,269; Sept. 20.
 Telephone receivers, Diaphragm for. C. G. Wieland. 1,639,546; Aug. 16.
 Telephone receivers, Headband for. W. H. Edwards. 1,650,865; Nov. 29.
 Telephone receivers, Headband for. I. W. Green. 1,616,491; Feb. 8.
 Telephone receivers, Holder for. B. Kwartin. 1,647,833; Nov. 1.
 Telephone receivers, Swivel for. H. F. Trompeter and J. P. Brown. 1,620,703; Mar. 15.
 Telephone receiving apparatus. S. G. Brown. 1,635,309; July 12.
 Telephone-record ticket pack. C. J. Gutberlet. 1,640,769; Aug. 30.
 Telephone repeater station. G. Crisson. 1,619,058; Mar. 1.
 Telephone repeater system. A. B. Clark. 1,615,259; Jan. 25.
 Telephone repeater system. B. G. Pohlmann. 1,650,723; Nov. 29.
 Telephone repeater system. A. F. Rose. 1,642,749; Sept. 20.
 Telephone relay. A. Deviatkoff. 1,640,267; Aug. 23.
 Telephone services, Coin-collecting apparatus for. F. W. Hall. 1,627,700; May 10.
 Telephone set, Substation. J. Erickson. 1,649,156; Nov. 15.
 Telephone set, Substation. J. Erickson and H. F. Oberfell. 1,649,157; Nov. 15.
 Telephone silencer. L. J. Gamoty. 1,642,543; Sept. 13.
 Telephone speaker. C. J. Eitch. 1,630,119; Mar. 24.
 Telephone stand. O. S. Allen. 1,649,845; Nov. 15.
 Telephone stand. F. A. Ford. 1,631,195; June 7.
 Telephone stand. D. W. Orvatt. 1,645,253; Oct. 11.
 Telephone substation circuits. F. W. McKown and E. Dietze. 1,624,056-7; Apr. 12.
 Telephone switch. C. W. Wilkenson. 1,628,018; May 10.
 Telephone switchboard cord terminal test connector. J. C. Franfield. 1,615,219; Jan. 25.
 Telephone switches, Testing system for automatic. H. W. MacDougall. 1,617,405; Feb. 15.
 Telephone-switching apparatus, Automatic. H. Sengschusch. 1,653,684; June 18.
 Telephone switching system, Automatic. M. Mathias. 1,647,966; Nov. 1.
 Telephone system. H. H. Abbott. 1,637,403; Aug. 2.
 Telephone system. W. M. Beaumont and F. A. Bonomi. 1,629,016; May 17.
 Telephone system. J. I. Bellamy. 1,623,230; Apr. 5.
 Telephone system. G. Deakin. 1,653,890; Dec. 27.
 Telephone system. F. W. Dunbar. 1,623,336; Apr. 5.
 Telephone system. G. R. Eaton and M. B. Stazak. 1,638,295; Aug. 9.
 Telephone system. H. J. Fisher. 1,647,286; Nov. 1.
 Telephone system. A. Plad. 1,620,090; Mar. 8.
 Telephone system. C. B. Fowler. 1,615,941; Feb. 1.
 Telephone system. C. B. Fowler. 1,629,099; May 17.
 Telephone system. C. B. Fowler. 1,632,063; June 14.
 Telephone system. H. M. Friendly. 1,614,293; Jan. 11.
 Telephone system. H. M. Friendly. 1,627,843; May 10.
 Telephone system. L. Glezen, S. P. Shackleton, and E. Vroom. 1,647,796; Nov. 1.
 Telephone system. A. E. Hague. 1,632,066; June 14.
 Telephone system. E. E. Hinrichsen. 1,643,452; Sept. 27.
 Telephone system. H. L. Hoffmann. 1,647,993; Nov. 8.
 Telephone system. E. Horn. 1,615,208; Jan. 18.
 Telephone system. H. Hoyland. 1,644,000; Oct. 4.
 Telephone system. E. Jacobsen and A. B. Sperry. 1,647,363; Nov. 1.
 Telephone system. H. B. Johnson and L. L. Eagon. 1,639,135; Aug. 16.
 Telephone system. W. C. Kiesel and C. B. Fowler. 1,642,500; Sept. 13.
 Telephone system. R. E. King and W. M. Beaumont. 1,623,734; Apr. 5.
 Telephone system. J. H. Lewis Jr. 1,641,228; Sept. 6.
 Telephone system. E. W. Lincoln. 1,629,280; May 17.
 Telephone system. C. E. Lomax. 1,615,305; Jan. 25.
 Telephone system. C. E. Lomax. 1,633,116; June 21.
 Telephone system. C. E. Lomax. 1,641,931; Sept. 6.
 Telephone system. A. M. Louis. 1,617,413; Feb. 15.
 Telephone system. F. T. Madsen. 1,629,516; May 24.
 Telephone system. G. R. Martin. 1,648,053; Nov. 8.
 Telephone system. S. F. Nelson. 1,620,733; Mar. 15.
 Telephone system. H. W. O'Neill. 1,641,449-50; Sept. 6.
 Telephone system. L. F. Porter. 1,631,981; June 14.
 Telephone system. L. F. Porter. 1,642,507; Sept. 13.
 Telephone system. W. T. Powell. 1,641,233; Sept. 6.
 Telephone system. W. T. Powell. 1,650,906; Nov. 29.
 Telephone system. A. Schlurmann. 1,653,931; Dec. 27.
 Telephone system. W. Setzeppand. 1,627,206; May 3.
 Telephone system. J. B. Shiel. 1,645,778; Oct. 18.
 Telephone system. A. B. Smith. 1,623,320; Apr. 5.
 Telephone system. E. R. Smith. 1,629,008; May 17.
 Telephone system. R. F. Stebbins. 1,612,991; Jan. 4.
 Telephone system. E. Tanke. 1,652,187; Dec. 13.
 Telephone system. H. W. Ulrich. 1,647,258; Nov. 1.
 Telephone system. B. A. Wallace. 1,617,611; Feb. 15.
 Telephone system. A. Waschneck. 1,639,445; Aug. 16.
 Telephone system. W. Whitney. 1,632,051; June 14.
 Telephone system. J. Wicks. 1,635,805; July 12.
 Telephone system. R. S. Wilbur. 1,650,731; Nov. 29.
 Telephone system, Automatic. J. I. Bellamy. 1,614,593; Jan. 18.
 Telephone system, Automatic. J. I. Bellamy. 1,625,235; Apr. 19.
 Telephone system, Automatic. W. A. Benson. 1,616,738; Feb. 8.
 Telephone system, Automatic. G. E. Dustin. 1,632,025; June 14.
 Telephone system, Automatic. R. W. Engsborg. 1,635,774; June 28.
 Telephone system, Automatic. O. A. Friend and G. E. Dustin. 1,639,799; Aug. 23.
 Telephone system, Automatic. H. M. Friendly. 1,627,844; May 10.
 Telephone system, Automatic. H. M. Friendly. 1,639,356; May 10.
 Telephone system, Automatic. J. E. Gardner. 1,621,503; Mar. 22.
 Telephone system, Automatic. J. E. Gardner. 1,624,329; Apr. 12.
 Telephone system, Automatic. J. E. Gardner. 1,626,034; Apr. 12.
 Telephone system, Automatic. J. E. Gardner. 1,626,807; May 3.
 Telephone system, Automatic. J. E. Gardner. 1,646,399; Oct. 25.
 Telephone system, Automatic. R. F. Gould. 1,640,568; Aug. 30.
 Telephone system, Automatic. H. Hovland. 1,616,615; May 3.
 Telephone system, Automatic. H. Hovland. 1,614,959; Jan. 18.
 Telephone system, Automatic. E. Jacobsen. 1,615,280; Jan. 18.
 Telephone system, Automatic. E. Jacobsen. 1,639,089; Aug. 16.
 Telephone system, Automatic. C. E. Lomax. 1,620,113; Mar. 8.
 Telephone system, Automatic. C. E. Lomax. 1,632,009; June 14.
 Telephone system, Automatic. F. Lubberger. 1,632,010; June 14.
 Telephone system, Automatic. F. Lubberger and E. Hahn. 1,632,343; June 14.
 Telephone system, Automatic. T. G. Martin. 1,640,551; Aug. 30.
 Telephone system, Automatic. T. G. Martin. 1,650,995; Nov. 29.
 Telephone system, Automatic. T. G. Martin. 1,925,482; Apr. 19.
 Telephone system, Automatic. C. A. Morton. 1,632,035; June 14.
 Telephone system, Automatic. W. T. Powell. 1,614,441; Jan. 11.
 Telephone system, Automatic. W. T. Powell. 1,641,232; Sept. 6.
 Telephone system, Automatic. W. T. Powell. 1,641,236; Sept. 6.
 Telephone system, Automatic. W. T. Powell. 1,652,836; Dec. 13.
 Telephone system, Automatic. A. B. Preuss. 1,646,387; Oct. 25.
 Telephone system, Automatic. A. J. Ray. 1,646,421; Oct. 25.
 Telephone system, Automatic. A. J. Ray, F. T. Madsen, and H. F. Oberfell. 1,624,007; Apr. 12.
 Telephone system, Automatic. R. G. Richardson. 1,627,929-30; May 10.
 Telephone system, Automatic. R. G. Richardson. 1,629,533; May 24.
 Telephone system, Automatic. M. Schwartz. 1,646,262; Oct. 18.
 Telephone system, Automatic. G. H. Simmons. 1,626,103; Apr. 26.
 Telephone system, Automatic. A. B. Smith. 1,649,494; Nov. 15.
 Telephone system, Automatic. R. F. Stehlik. 1,638,513; Dec. 27.
 Telephone system, Automatic. D. L. Temple. 1,653,790; Dec. 27.
 Telephone system, Automatic. A. Thomas and C. Stewart. 1,641,788; Sept. 6.
 Telephone system, Automatic. J. Wicks. 1,616,402; Feb. 1.
 Telephone system, Automatic. J. Wicks. 1,622,405; Mar. 29.
 Telephone system, Automatic. J. Wicks. 1,631,351; June 7.
 Telephone system, Automatic. J. Wicks. 1,633,149; June 21.
 Telephone system, Automatic. J. Wicks. 1,636,160; July 19.

- Telephone system, Automatic. J. Wicks. 1,643,797; Sept. 27.
- Telephone system, Automatic. J. Wicks. 1,645,636; Oct. 18.
- Telephone system, Automatic. B. D. Willis. 1,650,409; Nov. 22.
- Telephone system, Automatic and semiautomatic. R. Mordin. 1,626,206; Apr. 26.
- Telephone system, Automatic coin-service. H. Hovland. 1,616,616; May 3.
- Telephone system, Binaural. H. Fletcher and L. J. Sliivan. 1,624,486; Apr. 12.
- Telephone system, Electromechanically-controlled. F. Aldendorff. 1,625,779; Apr. 26.
- Telephone system, Manual. R. C. Davis and R. D. Conway. 1,615,935; Feb. 1.
- Telephone system, Manual. J. H. Levis, jr. 1,614,440; Jan. 11.
- Telephone system, Manual. W. T. Powell. 1,614,442; Jan. 11.
- Telephone system, Manual. W. T. Powell. 1,641,234-5; Sept. 6.
- Telephone system, Measured-service. R. G. Richardson and J. I. Bellamy. 1,645,662; Oct. 13.
- Telephone system, Measured-service. J. Wicks. 1,624,093; May 10.
- Telephone system, Measured-service. J. Wicks. 1,644,968; Oct. 11.
- Telephone system, Measured-service. J. Wicks. 1,649,430; Nov. 15.
- Telephone system, Measured-service. B. D. Willis. 1,628,381; May 10.
- Telephone system, Multioffice. J. E. Gardner. 1,638,331; Aug. 9.
- Telephone system, Multioffice. M. L. Nelson. 1,614,678; Jan. 18.
- Telephone system, Multioffice. M. L. Nelson. 1,615,998; Feb. 1.
- Telephone system, Multioffice. B. D. Willis. 1,638,382; Aug. 9.
- Telephone system, Multioffice automatic. A. J. Ray. 1,636,648; July 19.
- Telephone system, Multioffice automatic. A. B. Smith. 1,645,549; Oct. 18.
- Telephone system, Party-line automatic. R. G. Richardson and J. I. Bellamy. 1,640,157; Aug. 23.
- Telephone system, Party-line automatic. L. L. Ruggles. 1,648,031; Nov. 8.
- Telephone system, Semiautomatic. E. E. Hinrichsen. 1,624,341; Apr. 12.
- Telephone system, Semiautomatic or automatic graded. G. Heimeann. 1,633,987; June 28.
- Telephone system, Wireless. A. Nyman. 1,628,905; May 17.
- Telephone system, Zone-metering. J. I. Bellamy. 1,650,410; Nov. 22.
- Telephone system, Zone-metering. F. T. Madsen. 1,653,300; Dec. 20.
- Telephone systems, Interoffice trunk circuits for. B. D. Willis. 1,636,637; May 24.
- Telephone systems, Mechanically-interconnecting separate. R. L. Maurer. 1,630,536; May 31.
- Telephone systems, Service-observing apparatus for automatic. F. T. Madsen. 1,640,085; Aug. 23.
- Telephone systems, Service-observing equipment for. J. E. Ostline. 1,641,453; Sept. 6.
- Telephone systems, Service-observing equipment for. M. Schwartz. 1,640,675; Aug. 30.
- Telephone systems, Supervisory system for carrier. F. M. Ryan. 1,616,638; Feb. 8.
- Telephone systems, Trunk-selecting switch for. C. J. Fracht. 1,625,425; Apr. 19.
- Telephone systems, Trunking arrangement for automatic. R. G. Richardson. 1,641,933; Sept. 6.
- Telephone tone machine. T. G. Meinema. 1,642,377; Sept. 13.
- Telephone transmission, Two-way. H. S. Hamilton. 1,639,773; Aug. 23.
- Telephone transmitter. H. H. C. Dunwoody. 1,638,188; Aug. 9.
- Telephone transmitter. C. E. Mitchell. 1,647,244; Nov. 1.
- Telephone transmitter. C. R. Moore. 1,624,351-2; Apr. 12.
- Telephone transmitter. C. R. Moore. 1,628,898; May 17.
- Telephone transmitter and receiver. A. F. Sykes. 1,637,397; Aug. 2.
- Telephone transmitter mounting. G. R. Lum. 1,636,006; July 19.
- Telephone trunking scheme. E. J. C. Rousseau. 1,645,972; Oct. 18.
- Telephone, Wall. W. Kalsling. 1,627,393; May 3.
- Telephone wall cabinet. H. D. Phoenix. Des. 71,926; Jan. 25.
- Telephones, Attachment for. S. Katz. 1,625,895; Apr. 26.
- Telephones, Coin-actuated locking device for. F. L. Lockwood. 1,614,677; Jan. 18.
- Telephones, Device for use with. C. B. Kinkade. 1,633,816; June 28.
- Telephones, Dial mechanism for automatic. A. Luckie and T. L. Mangum. 1,639,891; Aug. 23.
- Telephones, Listening tubes, and similar devices for improving the hearing, Holding or attaching means for ear. B. Langenbeck and A. Merten. 1,614,987; Jan. 18.
- Telephones, loud speakers, acoustic apparatus, and the like, Sound-box diaphragm for use in. F. Jokel. 1,621,670; Mar. 22.
- Telephones, Mouthpiece attachment for. C. H. Monks. 1,633,491; June 21.
- Telephones, Muffler attachment for. F. J. Strobel. 1,628,075; May 10.
- Telephones, Recorder for dial. S. Mindlin. 1,647,142; Nov. 1.
- Telephonic and telegraphic repeater or relay. A. V. T. Day. 1,645,987; Oct. 18.
- Telephonic apparatus, Diaphragm for. G. Lakhovsky. 1,646,039; Aug. 23.
- Telephonic receiver. E. A. Graham. 1,619,114; Mar. 1.
- Telephonic receiver. E. A. Graham. 1,625,995; Apr. 26.
- Telephonic receiving apparatus. N. P. Hinton. 1,645,284; Oct. 11.
- Telephonic testing set. R. S. Cooper. 1,615,974; Feb. 1.
- Telephone, Light. L. W. Chubb. 1,642,011; Sept. 13.
- Telephone, Method and arrangement for high-frequency. H. H. S. A. Idzerda. 1,643,402; Nov. 8.
- Telephone, Two-way circuit arrangement for wireless. O. Von Bronk. 1,650,250; Nov. 22.
- Telephotographic recording instrument. R. Hart. 1,615,978; Feb. 1.
- Telescope. B. W. Forter. 1,651,412; Dec. 6.
- Telescope air jet. F. Bedard. 1,624,384; Apr. 12.
- Telescope objective. A. König. 1,616,751; Feb. 8.
- Telescope, Sighting. J. B. Henderson. 1,616,660; Feb. 8.
- Telescopic apparatus. J. B. Henderson. 1,623,777; May 17.
- Telescoping elements, Locking device for. J. Schade. 1,645,934; Oct. 18.
- Teletype machines, Optical receiver for. E. Balin. 1,632,163; June 14.
- Television, Apparatus for. R. A. Dalluge. 1,634,571; July 5.
- Television, Method and apparatus for. O. B. Blackwell and J. J. Herman. 1,624,918; Apr. 19.
- Television, System of. J. M. Fell. 1,649,819; Nov. 22.
- Telpher or overhead transporter system. C. W. Loveridge. 1,637,308; July 26.
- Temperature alarm, Abnormal. L. H. Oberreich. 1,617,540; Feb. 15.
- Temperature and pressure regulator, Combined. F. C. Kester. 1,635,566; Aug. 9.
- Temperature-changing and air-circulating appliance. C. A. Moore. 1,643,346; Sept. 27.
- Temperature control. L. de Florez. 1,650,888; Nov. 29.
- Temperature control. J. J. Schlosser. 1,633,680; June 28.
- Temperature control, Electric. C. B. Thwing. 1,651,236; Nov. 29.
- Temperature-control system. H. Milker. 1,630,755; May 31.
- Temperature-control system, Magnetic. J. C. Woodson. 1,617,360; Feb. 15.
- Temperature-controlled alarm. W. E. Fox. 1,642,649; Sept. 13.
- Temperature-controlled fluid mixing device. A. A. Smith. 1,620,235; Mar. 8.
- Temperature-controlling apparatus, Automatic. T. L. Jones. 1,618,828; Feb. 22.
- Temperature-controlling appliance. K. L. Seelbach. 1,633,498; June 21.
- Temperature-controlling system. P. H. Brace. 1,626,663; May 3.
- Temperature-controlling system. H. G. Geissinger. 1,650,622; Nov. 29.
- Temperature, Determining critical. G. F. Gerdts. 1,630,485; May 31.
- Temperature-indicating device. W. M. Dann. 1,615,684; Jan. 25.
- Temperature-indicating device. H. P. Sleeper. 1,626,633; May 3.
- Temperature-indicating instrument for motor vehicles. H. H. Boyce. 1,647,171; Nov. 1.
- Temperature-indicating means. K. A. Ferkel. 1,623,666; Apr. 5.
- Temperature indicator. G. W. Cisco. 1,617,897; Feb. 15.
- Temperature indicator. R. Hill. 1,630,007; May 24.
- Temperature indicator. W. A. Rankin. 1,637,050; July 26.
- Temperature indicator. H. R. Whittier. 1,617,975; Feb. 15.
- Temperature indicator and draft regulator, Combined. H. W. Heyman. 1,649,827; Nov. 22.
- Temperature indicator and time-indicating attachment therefor. J. W. Maynard. 1,641,343; Sept. 6.
- Temperature indicator suitable for use upon or in connection with the radiators of internal-combustion engines of automobiles. H. W. F. Ireland. 1,652,244; Dec. 13.
- Temperature, Maintaining a predetermined. C. A. Stickney and A. B. Stickney. 1,637,756; Aug. 2.
- Temperature, Method and apparatus for the control of. L. de Florez. 1,650,887; Nov. 29.
- Temperature of fluids, Device for measuring the. A. Drknerhoff. 1,613,577; Jan. 11.
- Temperature of the fluid in circulating systems, Maintaining the. A. B. Modine. 1,645,338; Oct. 11.
- Temperature, pressure, or flow-regulating device. A. Bitzel. 1,629,084; May 17.
- Temperature regulator. W. W. Carson, jr. 1,639,286; Aug. 16.
- Temperature regulator. G. E. Thorne. 1,621,816; Mar. 22.

- Temperature regulator, Feed-water-. B. Broido. 1,612,854; Jan. 4.
- Temperature regulator, Oil-. R. B. Beisel. 1,617,433; Feb. 15.
- Temperature-regulator system. H. R. Trotter. 1,645,263; Oct. 11.
- Temperature-responsive apparatus. C. A. Martin. 1,643,582; Sept. 27.
- Temperature-regulating Control for regulating. W. I. Twombly. 1,616,519; Feb. 8.
- Temperatures, Measuring and controlling. R. T. Pierce. 1,617,416; Feb. 15.
- Template. J. F. Carroll. 1,653,450; Dec. 20.
- Template for laying out patterns, Master. S. Abrams and J. Neff. 1,635,300; July 12.
- Template, Subgrade. A. G. Fitzner. 1,627,731; May 10.
- Template, Subgrade. A. N. Walstead. 1,630,991; May 31.
- Temple roll. J. J. O'Connell. 1,624,503; Apr. 12.
- Templet. F. Cross. 1,644,636; Oct. 4.
- Tempo box. E. A. Huscley. 1,636,911; July 26.
- Tender frame. J. A. McCormick. 1,653,222; Dec. 20.
- Tenders, Coal carrier for. A. Marsh and S. A. Anderson. 1,614,797; Jan. 18.
- Tennis courts, Construction of. J. Neath. 1,628,679; May 17.
- Tennis courts, Marking tape for. R. Moore. 1,632,799; June 21.
- Tennis-net post, Adjustable-. A. Bassford. 1,641,246; Sept. 6.
- Tennis nets and the like, Apparatus for supporting lawn-. M. R. Lane. 1,632,555; June 14.
- Tennis racket. G. G. Morton. 1,621,746; Mar. 22.
- Tennis racket. F. S. Williamson. 1,630,683; May 31.
- Tennis-racket heads, Vise for. J. H. Hildemann. 1,618,532; Feb. 22.
- Tennis-racket stringing, Controlling the tension of a. W. A. Larned. 1,635,943; July 12.
- Tennis rackets, Case for. J. Chase. 1,620,072; Mar. 8.
- Tennis rackets or the like and producing the same, Wire stringing for. O. V. Forbes and W. M. C. Baber. 1,616,790; Jan. 25.
- Tempin, Bowling-alley. E. J. Wuerthele. 1,642,286; Sept. 13.
- Temping, Machine for setting. J. W. Bishop. 1,628,446; Apr. 26.
- Tempins, Machine for trimming. C. O. Johnson. 1,654,502; Dec. 27.
- Ten-pins or the like, Machine for redressing. F. L. Johnson. 1,644,530; Oct. 4.
- Tension and tremolo effects, Controlling. B. E. Mills. 1,621,125; Mar. 15.
- Tension control, Method of and apparatus for. C. E. Carpenter. 1,652,299; Dec. 13.
- Tension device. M. B. Grout. 1,637,483; Aug. 2.
- Tension device and the like. L. Pavia. 1,631,330; June 7.
- Tension differential, Measure of. O. Smith. 1,619,491; Mar. 1.
- Tension-distributing means for machine-shear hand pieces. C. H. Davis. 1,617,436; Feb. 15.
- Tension mechanism. J. Derry. 1,630,876; May 31.
- Tension meter. W. D. Burton. 1,650,603; Nov. 29.
- Tension regulator for slashers. L. L. Gowan. 1,653,397; Dec. 20.
- Tension-testing device, Rope-. C. C. Sunderland. 1,619,093; Mar. 15.
- Tensioning and locking device for wire-binding mechanism. E. Hoffmann. 1,636,777; July 26.
- Tensioning and twisting wires, Tool for. L. F. Hintz. 1,621,588; Mar. 22.
- Tensioning device. F. J. Hartung. 1,615,228; Jan. 25.
- Tensor system. A. G. Marthy. 1,636,633; July 19.
- Tent. D. T. Abercrombie. 1,623,154; Apr. 5.
- Tent. F. R. Barbour. 1,642,530; Sept. 15.
- Tent. D. Byne. 1,650,111; Nov. 22.
- Tent. G. I. Dickey. 1,636,594; July 19.
- Tent. A. J. Goodman. 1,638,507; July 19.
- Tent. A. E. Leach. 1,635,766; July 12.
- Tent. C. B. Leffert. 1,631,215; June 7.
- Tent. F. M. Stoll. 1,639,755; Aug. 23.
- Tent, Cemetery. J. M. Doddridge. 1,642,648; Sept. 13.
- Tent clamp, Umbrella-. L. B. N. W., and J. M. Goldberg. 1,649,213; Nov. 15.
- Tent, Foldable and rollable. E. Byars. 1,650,323; Nov. 22.
- Tent, Folding. J. K. Rush. 1,642,267; Sept. 13.
- Tent, Folding. F. E. Thurlie. 1,623,507; Apr. 5.
- Tent, Lamping. S. M. Raber. 1,649,324; Nov. 15.
- Tent or shelter. C. E. Barbury. 1,644,664; Oct. 11.
- Tent pole. D. T. Abercrombie. 1,623,153; Apr. 5.
- Tent-pole shackle ring. M. L. McHugh. 1,622,600; Mar. 29.
- Tent, Quick-erecting. B. Pliskin. 1,653,822; Dec. 27.
- Tent structure. T. J. Long and J. L. Tuttle. 1,619,740; Mar. 1.
- Tent support. B. H. Brooks. 1,622,232; Mar. 22.
- Tent support. G. T. Thompson. 1,645,885; Oct. 18.
- Tent support, Collapsible. W. S. Ryeanson. 1,627,546; May 3.
- Tent, Tourist's auto. F. D. Frazee. 1,622,435; Mar. 29.
- Terntering machine. C. H. Ramsey. 1,622,049; Mar. 22.
- Terminal. E. A. Bohlman. 1,639,161; Aug. 16.
- Terminal bank and constructing it. E. W. Gent. 1,650,706; Nov. 29.
- Terminal clamp. C. F. Hellman. 1,613,104; Jan. 4.
- Terminal, Combination. J. J. Mucher. 1,627,447; May 3.
- Terminal connector. A. J. Carter. 1,635,256; July 12.
- Terminal connector. H. A. Douglas. 1,634,406; July 5.
- Terminal connector. B. F. Oldmixon. 1,619,086; Mar. 1.
- Terminal connector, Bushing-. C. F. Burgeson. 1,645,090; Oct. 11.
- Terminal-difference gauge. C. H. Berry. 1,629,063; May 3.
- Terminal-protecting commutator case. J. E. Pertuisot. 1,647,929; Nov. 1.
- Terminal protective apparatus. E. A. Seward and E. B. Rodgers. 1,631,553; June 7.
- Terminal puller. W. T. Moore. 1,615,717; Jan. 25.
- Terminal, Storage-battery. E. E. Zastrow. 1,634,280; July 5.
- Terminal support. E. E. Sutherland. 1,645,261; Oct. 11.
- Ternary gaseous mixtures, Separation of the constituents of. W. Wilkinson. 1,619,909; Mar. 8.
- Terra-continous. C. L. Cresson. 1,614,348; Jan. 11.
- Test bath, sample warmer and hot water reservoir. C. W. Warnock. 1,636,116; July 19.
- Test contact. J. Sachs. 1,651,554; Dec. 6.
- Test device, Self-checking. T. E. Thompson. 1,644,160; Oct. 4.
- Test gauge. J. W. Carthew. 1,626,599; May 3.
- Test measure. G. A. Sexton. 1,638,415; Aug. 9.
- Test, Obtaining sweet doctor. E. B. Miller. 1,647,459; Nov. 1.
- Tester. J. K. Hartline. 1,640,995; Aug. 30.
- Tester, Perurru. W. J. McLaughlin. 1,642,212; Sept. 13.
- Testing and defating machine. S. Malke. 1,628,168; May 10.
- Testing and recording device. C. E. Cox. 1,638,657; Aug. 9.
- Testing apparatus. K. L. Herrmann. 1,618,965; Feb. 22.
- Testing apparatus. E. J. Lees. 1,634,328; July 5.
- Testing apparatus. R. E. Marbury. 1,652,538; Dec. 13.
- Testing apparatus. F. McDonald Jr. and J. W. Frilick. 1,617,214; Feb. 8.
- Testing apparatus. J. H. Moriarty. 1,637,956; Aug. 2.
- Testing apparatus. C. H. Schurr. 1,651,159; Nov. 29.
- Testing cover, support and pipe therefor. A. B. Stringer. 1,640,057; Aug. 23.
- Testing device. G. T. Anderson and C. V. Taplin. 1,612,849; Jan. 4.
- Testing device. A. S. Bertels. 1,632,053; June 14.
- Testing device. H. O. Biehn. 1,619,122; Mar. 15.
- Testing device. E. G. Thomas. 1,619,164; Mar. 1.
- Testing device. E. G. Thomas. 1,639,818; Aug. 23.
- Testing device. R. E. Wilson. 1,632,259; June 14.
- Testing device, Blood-. C. E. Roderick. 1,617,459; Feb. 15.
- Testing device for testing register senders. E. H. Clark. 1,624,540; Apr. 12.
- Testing inflatable articles, Device for. M. H. Pade. 1,622,252; Mar. 22.
- Testing instrument. W. Broad. 1,619,699; Mar. 1.
- Testing jack. J. A. Beoddy. 1,621,567; Mar. 22.
- Testing knuckle-pin casters, Device for. G. W. Prather. 1,622,342; Mar. 29.
- Testing machine. W. J. Francke. 1,654,495; Dec. 27.
- Testing machine. C. S. Williams. 1,627,366; May 3.
- Testing machine, Dynamic ductibility-. R. B. Lewis and W. H. Hill. 1,653,714; Dec. 27.
- Testing of material, Method and apparatus for the fatigue. W. Hort. 1,635,787; July 12.
- Testing materials. W. Hahnemann and H. Hecht. 1,652,525; Dec. 13.
- Testing system. L. T. Cox. 1,632,886; June 21.
- Testing system. C. Ewing. 1,621,480; Mar. 15.
- Testing system. K. M. Felzer. 1,613,943; Jan. 11.
- Testing system. L. H. Johnson. 1,632,902; June 21.
- Testing system. W. L. Lawson and M. E. Canfield. 1,617,336; Feb. 15.
- Testing system. R. E. Peoples. 1,650,721; Nov. 29.
- Testing system. J. R. Riggs. 1,653,782; Dec. 27.
- Testing system. W. J. Shackleton. 1,613,964; Jan. 11.
- Testing system. J. W. Van de Water and B. R. Blair. 1,632,048; June 14.
- Testes-treating apparatus. D. B. Catlin. 1,640,479; Aug. 9.
- Tetrinitromethane from trinitrotoluene, Removing. R. H. Gartner. 1,632,959; June 21.
- Textile and other materials, Waterproofing. C. J. Moreton. 1,625,672; Apr. 19.
- Textile Apparatus for treating. F. B. Voegeli. 1,626,439; Apr. 23.
- Textile article, Packaging. J. R. Freedman. 1,616,181; Feb. 1.
- Textile-coiling machine. E. O. Roe and L. P. Frieder. 1,630,718; May 31.
- Textile-exhibiting device. H. H. Adler. Des. 71,993; Aug. 1.
- Textile fabric. L. Biva. Des. 72,750-3; May 31.
- Textile fabric. S. E. Blumenthal. Des. 74,046; Dec. 13.
- Textile fabric. J. S. Boyd. Des. 71,948-53; Feb. 8.
- Textile fabric. J. S. Boyd. Des. 71,995-7; Feb. 15.
- Textile fabric. J. S. Boyd. Des. 72,058-9; Feb. 22.
- Textile fabric. J. H. Bunting. Des. 72,404-7; Apr. 12.
- Textile fabric. J. H. Bunting. Des. 72,760; May 31.
- Textile fabric. G. Caluori. Des. 73,063-66; July 19.
- Textile fabric. R. Cocking. Des. 72,985-87; July 5.
- Textile fabric. C. A. Cottaz. Des. 74,098-9; Dec. 20.

- Textile fabric. H. S. Day. Des. 73,969-600; Oct. 11.
 Textile fabric. H. S. Day. Des. 73,966-9; Nov. 29.
 Textile fabric. H. S. Day. Des. 74,141; Dec. 27.
 Textile fabric. H. S. Day. Des. 74,102; Dec. 20.
 Textile fabric. M. Dubost. Des. 72,475; Apr. 19.
 Textile fabric. J. A. Feather. Des. 73,691-2; Oct. 25.
 Textile fabric. J. A. Fox. Des. 72,671; May 17.
 Textile fabric. H. Hausman. Des. 73,376; Aug. 30.
 Textile fabric. B. Holmes. Des. 72,559-60; Mar. 22.
 Textile fabric. K. Jäger. Des. 72,557; May 3.
 Textile fabric. H. Katims and E. Weiner. Des. 74,056; Dec. 13.
 Textile fabric. E. Kirchhoff. Des. 71,916; Jan. 25.
 Textile fabric. E. Kirchhoff. Des. 72,674; May 17.
 Textile fabric. B. Nathan. Des. 73,575; Oct. 4.
 Textile fabric. F. H. Pillsbury. Des. 72,442; Apr. 12.
 Textile fabric. M. Rothschild. Des. 72,445-7; Apr. 12.
 Textile fabric. M. Rothschild. Des. 72,779-80; May 31.
 Textile fabric. W. H. Spowers. Des. 74,126; Dec. 20.
 Textile fabric. E. A. Weeks. Des. 73,544; Sept. 27.
 Textile fabric and making the same. H. M. Lipper. 1,618,763; Feb. 22.
 Textile fabric and treating the same. W. Muelberger. 1,615,205; Jan. 18.
 Textile fabric, Embroidered. W. Schmid. Des. 72,037; Feb. 15.
 Textile fabric or similar article. L. Biva. Des. 72,305-6; Mar. 29.
 Textile fabric or similar article. M. Cole. Des. 72,667; May 17.
 Textile fabric or similar article. G. M. Hamilton and A. C. Webb. Des. 71,871; Jan. 18.
 Textile fabric or similar article of manufacture. A. J. Heinke. Des. 72,316-17; Mar. 29.
 Textile fabric or similar article of manufacture. A. J. Heinke. Des. 72,421-5; Apr. 12.
 Textile fabric or similar article of manufacture. A. J. Heinke. Des. 72,737; May 31.
 Textile fabric or similar article of manufacture. W. B. Kirby. Des. 74,015; Dec. 6.
 Textile fabric or similar article of manufacture. J. Lader. Des. 73,089; July 19.
 Textile fabric or similar article of manufacture. J. Lader. Des. 73,15; Oct. 11.
 Textile fabric or similar article of manufacture. E. M. Magee. Des. 72,626; May 10.
 Textile fabric or the like. H. Silberman. Des. 72,192; Mar. 8.
 Textile fabrics, Manufacture of. H. Dreyfus. 1,614,832; Jan. 18.
 Textile fabrics, Printing upon. E. Ebersol. 1,639,218; Jan. 18.
 Textile fibers, Apparatus for drawing. G. C. Laurency. 1,638,029; June 21.
 Textile fibers, Conditioning. R. B. Smith. 1,642,092; Sept. 13.
 Textile fibers, Half lap for combing. J. K. Lanning. 1,620,031; Mar. 8.
 Textile fibers in machines for preparing same for spinning, Utilization of. G. C. Laurency. 1,647,454; Nov. 1.
 Textile fibers, Manufacture of hollow artificial. J. E. G. Labrousse. 1,652,206; Dec. 13.
 Textile fibers, Pneumatic apparatus or means for conveying and treating. H. Wilkinson and G. A. Bassett. 1,642,136; Sept. 13.
 Textile fibers, yarns, fabrics, or the like for obtaining effects of color or luster or both, Treatment of. H. J. Janssen. 1,653,962; Dec. 27.
 Textile machine. M. Auerbach. 1,642,354; Sept. 13.
 Textile machines, Cop holder for. J. A. Anderson. 1,635,525; July 12.
 Textile machines, Electric stop motion for. H. E. Matthews, W. H. Love, and H. T. Ryder. 1,627,292; May 3.
 Textile machines, Piece-up mechanism for. R. E. Naumburg. 1,626,954; May 3.
 Textile machines, Trap motion for. S. Borovoy and W. L. Perry. 1,638,237; Aug. 9.
 Textile machinery, Steam tube and piping for. O. F. McEnaney. 1,637,387; Aug. 2.
 Textile materials and dyeing the same. C. B. White. 1,648,433; Nov. 8.
 Textile material from vegetable raw material, Manufacture of. A. J. C. M. Van Diggelen. 1,653,138; Dec. 20.
 Textile materials, Conditioning. W. L. Conrad. 1,630,786; May 31.
 Textile materials, Drying. H. Krantz. 1,629,167; May 17.
 Textile processing or finishing machine. G. J. McGann. 1,628,261; May 10.
 Textile products, Manufacture of artificial. H. Dreyfus. 1,616,787; Feb. 8.
 Textile roll. J. H. Pullman. 1,645,348; Oct. 11.
 Textile spindle. A. Mader. 1,630,712; May 31.
 Textile spindle. A. Mader. 1,632,798; June 21.
 Textiles, Manufacture of. C. Dreyfus. 1,634,613; July 5.
 Textiles, Treating. F. B. Voegel. 1,626,438; Apr. 26.
 Thawing device. W. Palmer. 1,639,207; Aug. 16.
 Thawing ground. F. S. Mulock. 1,614,013; Jan. 11.
 Thawing tank and dumping apparatus, Combined. L. Buchler, Jr., and N. M. Small. 1,628,947; May 17.
 Theater censor, Mechanical. H. C. Stockwell. 1,618,488; Feb. 22.
 Theater chair. J. P. Satterlee. 1,649,546; Nov. 15.
 Theatrical illusions, Method of and apparatus for producing. H. Thurston and H. Jansen. 1,613,254; Jan. 4.
 Theatricals, Mechanical miniature. C. T. Hunt. 1,628,628; May 10.
 Theft alarm. C. P. Seltz. 1,648,067; Nov. 8.
 Theft alarm, Automobile. J. H. Sharp. 1,639,314; Aug. 16.
 Theft-preventing bolt. M. G. Kotler. 1,640,840; Aug. 30.
 Theft-preventing device. T. E. Daugherty. 1,621,925; Mar. 22.
 Theft-preventing device. H. P. Hanson. 1,613,794; Jan. 11.
 Theft-preventing device. J. Schlener. 1,654,017; Dec. 27.
 Therapeutic apparatus. M. W. Wentworth. 1,643,399; Sept. 27.
 Therapeutic appliance. J. W. Chesney. 1,615,828; Feb. 1.
 Therapeutic appliances. R. H. Maxson. 1,638,353; Aug. 9.
 Therapeutic chair. E. R. Monroe. 1,645,339; Oct. 11.
 Therapeutic device. G. S. White. 1,628,207; May 10.
 Therapeutic device, Electric. R. C. Mann. 1,634,373; July 5.
 Therapeutic device, Electrical. G. W. Wallerich. 1,633,878; June 28.
 Therapeutic instrument. A. Gaertner. 1,651,349; Nov. 29.
 Therapeutic materials, Making. E. Silten. 1,626,562; Apr. 26.
 Therapeutic treatment and dressing-room apparatus. J. J. Jekel. 1,617,023; Feb. 8.
 Therapeutic and other purposes, Irradiation device for. F. Girard. 1,622,142; Mar. 22.
 Therapeutic apparatus. L. Martignoni. 1,628,794; May 17.
 Therapy, Heat. G. W. Wallerich. 1,620,929; Mar. 15.
 Thermal limit relay. G. H. Whittingham. 1,627,816; May 10.
 Thermal relay. C. I. Hall. 1,631,679; June 7.
 Thermal relay. H. D. Matthews. 1,642,039; Sept. 13.
 Thermal-responsive switch mechanism and protective system employing the same. C. I. Hall. 1,640,447; Aug. 30.
 Thermal switch. H. C. Hawkins. 1,615,582; Jan. 25.
 Thermal switch. R. C. Malcolm. 1,627,519; May 3.
 Thermal switch. B. H. Smith. 1,643,792; Sept. 27.
 Thermal translating device. W. A. Rhodes. 1,630,312; May 31.
 Thermionic-current transformer. L. H. Junken. 1,645,057; Oct. 11.
 Thermionic device. H. M. Dowsett. 1,614,462; Jan. 18.
 Thermionic device. H. M. Ryder. 1,652,497; Dec. 13.
 Thermionic device and evacuating the same. R. W. King. 1,628,987; May 17.
 Thermionic indicating means responsive to light vibrations. J. J. Dowling. 1,631,021; May 31.
 Thermionic tube. G. W. Pickard. 1,650,252; Nov. 22.
 Thermomometer. V. H. Todd. 1,638,894; Aug. 16.
 Thermochemical treatment and apparatus therefor, Furnacing in. C. B. Jacobs. 1,625,610; Apr. 19.
 Thermocouple. T. R. Harrison. 1,615,451; Jan. 25.
 Thermocouple. O. Hermann. 1,637,822; Aug. 2.
 Thermocouple. O. Hermann. 1,643,233; May 8.
 Thermocouple. G. J. Zetwary. 1,612,897; Jan. 4.
 Thermocouple. V. K. Zetworyn. 1,643,734; Sept. 27.
 Thermocouple, Ventilated. R. P. Brown. 1,640,816; Aug. 30.
 Thermoelectric cell and making the same. G. M. Little. 1,638,943; Aug. 16.
 Thermoelectric generator. N. H. Adams. 1,618,744-5; Feb. 22.
 Thermoelectric generator. T. S. Fuller and N. H. Adams. 1,618,755; Feb. 22.
 Thermoelectric heater. A. Torrlani. 1,651,644; Dec. 6.
 Thermoelectric indicator and safety device. W. A. Collins. 1,621,396; Mar. 15.
 Thermoelectric switch. F. S. Denison. 1,620,806; Mar. 15.
 Thermoelectric units, Fabricating. N. H. Adams. 1,618,743; Feb. 22.
 Thermoelectric measuring arrangement. N. Lindblad. 1,643,668; Sept. 27.
 Thermogluve vessel. A. Tovallin. 1,623,763; Apr. 5.
 Thermometer. W. M. Chace. 1,637,805; Aug. 2.
 Thermometer. W. H. Flits. 1,619,109; Mar. 1.
 Thermometer. A. T. Hoese. 1,639,385; May 8.
 Thermometer. R. E. Mann. Des. 72,067; Feb. 22.
 Thermometer. R. E. Mann. Des. 72,379; Apr. 5.
 Thermometer. C. J. Manuel and W. H. Lentz. 1,635,680; July 12.
 Thermometer. M. E. Moeller. 1,633,599; June 28.
 Thermometer. H. Y. Norwood. 1,646,977; Oct. 25.
 Thermometer. J. Phillips. Des. 72,073; May 21.
 Thermometer. C. H. Schultz. 1,638,276; Aug. 9.
 Thermometer. H. H. Zeal. 1,645,211; Oct. 11.
 Thermometer and manufacture of same, Clinical. K. Kashiwagi. 1,646,914; Oct. 25.
 Thermometer attachment. O. M. Gottesman and I. Rosenfeld. 1,615,269; Jan. 25.
 Thermometer attachment. S. L. Walker. 1,651,490; Dec. 6.
 Thermometer, Automobile radiator. E. T. Curran. 1,626,790; May 3.

- Thermometer caps, Fastening means for clinical-. W. E. Stewart. 1,614,807; Jan. 18.
- Thermometer case. E. L. Bellows. 1,641,020; Aug. 30.
- Thermometer case. I. Q. Gurnee and A. A. Smith. Des. 72,315; Mar. 29.
- Thermometer case. I. Q. Gurnee and A. A. Smith. Des. 72,555; May 3.
- Thermometer. Clinical. C. E. Bredt. 1,637,760; Aug. 2.
- Thermometer, High-temperature. G. W. V. Corman and R. P. Brown. 1,615,605; Jan. 25.
- Thermometer or thermometer tube support. J. B. Carroll. 1,635,174; July 12.
- Thermometer, Oven. H. R. Whittier. 1,635,652; July 12.
- Thermometer scale. E. V. Hill. 1,630,341; May 31.
- Thermometer tube. F. R. Sunderlin. 1,635,771; July 12.
- Thermometers, Method of and device for mounting. F. W. Paul. 1,641,500; Sept. 6.
- Thermometers, Receptacle or case for. G. B. Ireland and R. T. Somie. 1,634,028; June 28.
- Thermosensitive relay. L. B. Spray. 1,631,836; June 7.
- Thermostat. J. O. Carrey. 1,638,055; Aug. 9.
- Thermostat. J. Fénelon. 1,651,262; Nov. 29.
- Thermostat. L. P. Hynes. 1,617,487; Feb. 15.
- Thermostat. L. P. Hynes and H. A. Williams. 1,650,942; Aug. 29.
- Thermostat. B. Klaffen. 1,624,790; Apr. 12.
- Thermostat. E. J. Levy. 1,644,533; Oct. 4.
- Thermostat. G. T. Newell, Jr. 1,621,023; Mar. 15.
- Thermostat. G. A. Robertshaw. 1,623,765; Apr. 5.
- Thermostat. A. J. Spencer. 1,639,708; Aug. 23.
- Thermostat. F. Straub. 1,632,932; June 21.
- Thermostat control. A. R. Baker. 1,638,907; Aug. 16.
- Thermostat diaphragm. P. F. Dodunski. 1,630,733; May 31.
- Thermostat, Electric. G. A. Robertshaw and H. T. Throd. 1,635,410; Aug. 9.
- Thermostat for motor vehicles. H. T. Woolson. 1,653,329; Dec. 20.
- Thermostat material. Bimetallic. P. H. Brace. 1,652,556; Dec. 13.
- Thermostat switch. O. G. Myers. 1,642,742; Sept. 20.
- Thermostat switch. I. B. Smith. 1,630,586; May 31.
- Thermostatic alarm. J. J. Comerford. 1,621,628; Mar. 22.
- Thermostatic apparatus. J. W. Myers. 1,634,379; July 5.
- Thermostatic apparatus. J. Némec. 1,632,144; June 14.
- Thermostatic appliance. H. J. Sauvage. 1,639,902; Aug. 23.
- Thermostatic circuit controller. F. W. Wood. 1,642,284; Sept. 13.
- Thermostatic control. H. J. Sauvage. 1,619,636; Mar. 1.
- Thermostatic control. H. J. Sauvage. 1,643,858; Sept. 27.
- Thermostatic control. W. I. Twombly. 1,623,566; Apr. 5.
- Thermostatic control device. H. E. Reeve. 1,653,659; Dec. 27.
- Thermostatic control device. E. Wilson. 1,629,757; May 24.
- Thermostatic control mechanism. V. Weber and E. G. Price. 1,632,355; June 14.
- Thermostatic device. W. C. Lindemann and E. A. Rutenber. 1,653,602; Dec. 20.
- Thermostatic gas regulator. H. J. Rockwell. 1,635,559; July 12.
- Thermostatic material. P. H. Brace. 1,650,979; Nov. 29.
- Thermostatic material. H. D. Matthews. 1,650,961; Nov. 29.
- Thermostatic material. V. G. Vaughan. 1,652,546; Dec. 13.
- Thermostatic regulator. W. M. Bradshaw. 1,647,336; Nov. 1.
- Thermostatic signal. C. G. Schellenberger. 1,622,545; Mar. 29.
- Thermostatic switch. W. J. Hawkins. 1,639,888; Aug. 23.
- Thermostatic switch. A. J. Mottlau. 1,645,290; Oct. 11.
- Thermostatic switch. F. W. Schwin. 1,646,882; Oct. 25.
- Thermostatic switch. E. Stransky. 1,640,257; Aug. 23.
- Thermostatic switch. W. W. Williams. 1,612,958; Mar. 4.
- Thermostatic trap. H. D. Fitzgerald. 1,621,774; Mar. 22.
- Thermostatic wafer. B. B. Preston. 1,638,958; Aug. 16.
- Thermostatic wafer. J. F. Raleigh. 1,613,292; Jan. 4.
- Thermosatically controlled heating element. L. H. Lamont. 1,633,589; June 28.
- Thermosatically-controlled switch. G. W. Hart. 1,652,143; Dec. 6.
- Thickener. H. S. Coe. 1,650,820; Nov. 29.
- Thickening and washing materials, Apparatus for. A. S. Jones. 1,629,951; May 3.
- Thimble. C. P. Caulkins. 1,620,996; Mar. 15.
- Thimble. O. Pullen. 1,628,188; May 10.
- Thinning machine. H. J. V. Kloof. 1,616,225; Feb. 1.
- Thong cutter. L. E. Griswold. 1,621,718; Mar. 22.
- Thrasher. Combination harvester. W. F. MacGregor. 1,627,595; May 3.
- Thrasher. Harvester. R. B. Hitchcock. 1,646,453; Oct. 25.
- Thrasher. Standing-grain. H. T. Inghram. 1,625,365; Apr. 19.
- Thrashing concave and cylinder, Grain-. P. A. Shorb. 1,643,683; Sept. 27.
- Thrashing machine. F. L. Elder. 1,621,194; Mar. 15.
- Thrashing machine. F. J. Hermann. 1,647,696; Nov. 1.
- Thrashing machine. H. A. Lundquist. 1,625,953; Apr. 26.
- Thrashing machine. N. J. Noble. 1,629,294; May 17.
- Thrashing machine. F. G. Terry. 1,636,578; July 19.
- Thrashing machine. D. F. Unruh. 1,621,445; Mar. 15.
- Thrashing machine. A. E. H. Wallenberg. 1,624,126; Apr. 12.
- Thrashing machine. J. Wolf. 1,651,498; Dec. 6.
- Thrashing machines, Feeding device for. J. Mainland and S. C. Nyberg. 1,614,964; Jan. 18.
- Thrashing machines, Speed-regulating device for the feeding attachments for. S. Liabo. 1,617,129; Feb. 8.
- Thread and cord cutter. M. Rosenblum. 1,620,572; Mar. 8.
- Thread cleaner. P. Daugert, H. Frey, and J. J. Dunleavy. 1,625,352; Apr. 19.
- Thread cop. R. L. Ham. 1,646,198; Oct. 18.
- Thread, cord, tape, etc., Holder for. M. N. Anderson. 1,648,437; Nov. 8.
- Thread cutter, Floating-. M. Leister. 1,622,653; Mar. 29.
- Thread-cutting die. W. A. Jenkins. 1,652,673; Dec. 13.
- Thread-cutting machine. A. S. Holmes. 1,632,897; June 21.
- Thread-cutting mechanism. S. W. Elstone. 1,622,190; Mar. 22.
- Thread-cutting temple, Intermittent. N. W. Brannon. 1,615,188; Jan. 18.
- Thread-cutting tool. B. Borden. 1,616,650; Feb. 8.
- Thread-cutting tool, Collapsible taper-. C. R. Edwards. 1,622,097; Mar. 22.
- Thread guard. W. H. Westerman. 1,640,969; Aug. 30.
- Thread-handling machine. F. N. La Chapelle. 1,639,261; Aug. 30.
- Thread holder, Embroidery-. J. Nigro. 1,642,744; Sept. 20.
- Thread-inserting mechanism. R. Loeb. 1,617,530; Feb. 15.
- Thread, Making. F. Rosenthal. 1,620,233; Mar. 8.
- Thread, or cord, Covered elastic. J. B. Smith. 1,627,255; May 3.
- Thread parter and clamp, Shuttle-feeler. H. A. Davis. 1,647,103; Oct. 25.
- Thread protector. P. J. Shrum and H. A. Henigen. 1,639,814; Aug. 23.
- Thread protector. W. H. Westerman. 1,640,970; Aug. 30.
- Thread protectors, Apparatus for forming. P. J. Schrum. 1,651,231; Nov. 29.
- Thread tier. H. Boedker. 1,621,868; Mar. 22.
- Thread tightener. A. Hennig. 1,624,898; Apr. 12.
- Thread-using machine. C. M. Perkins. 1,638,219; Aug. 9.
- Thread. R. A. Wilson. 1,629,053; May 17.
- Threaded members and the like, Method of and apparatus for grinding. B. M. W. Hanson. 1,640,992; Aug. 30.
- Threaded pins, Apparatus for producing. F. W. Hessmer. 1,630,793; May 31.
- Threading machine. L. Sodian. 1,616,284; Feb. 1.
- Threading machine, Conduit-. D. Kelleher. 1,645,285; Oct. 11.
- Threading machine, Nipple-. N. B. Smith. 1,624,632; Apr. 12.
- Threading machines and the like, Steadying block for. 1,638,031; Aug. 9.
- Threading mechanism. A. L. De Leeuw. 1,626,187; Apr. 26.
- Threading tap, Collapsible. C. P. Wetmore. 1,643,264; Sept. 20.
- Threads and filaments, Manufacture of artificial. H. Dreyfus. 1,620,636; Mar. 15.
- Threads, Cutting. E. Duchsene. 1,647,037; Oct. 25.
- Threads, filaments, strips, or films from cellulose esters, Manufacture and production of. L. Clément and C. Rivière. 1,634,980; July 5.
- Threads from viscose, Producing. C. A. Huttering. 1,646,538; Oct. 25.
- Threads, Manufacture and treatment of. F. Rosenthal. 1,617,944; Feb. 15.
- Threads, ribbons, films, and the like of viscose, Precipitating artificial. A. Kämpf. 1,614,036; Jan. 11.
- Threads, Spinning. H. P. Bassett and T. F. Banigan. 1,642,290; Sept. 13.
- Threshold and constructing same. F. J. Plym. 1,646,167; Oct. 18.
- Throttle control, Automatic. W. J. Spiro. 1,646,937; Oct. 25.
- Throttle control, Foot. W. H. Thomas. 1,619,319; Mar. 1.
- Throttle-control mechanism. J. S. Payne. 1,625,563; Apr. 19.
- Throttle-valve-control air heater for charge-forming devices. A. G. Redmond. 1,650,156; Nov. 22.
- Throttling device. J. B. MacNeill. 1,645,288; Oct. 11.
- Thumb-hole-cutting machine. J. A. Stock. 1,620,299; Mar. 8.
- Thumb-sucking preventive for babies. H. B. Rood. 1,627,637; June 21.
- Ticket, Admission. J. Head. 1,634,188; June 28.
- Ticket and securing means therefor. M. B. Behrman. 1,631,954; June 14.
- Ticket and securing means therefor, Price. M. B. Behrman. 1,616,946; Feb. 8.
- Ticket case. W. J. Schramm. 1,620,295; Mar. 8.

- Ticket-delivering apparatus. G. E. Weber. 1,650,556; Nov. 22.
 Ticket-dispensing apparatus. J. M. Fernandez. 1,641,884; Sept. 6.
 Ticket, Folding pin. M. Rabinowitz. 1,650,538; Nov. 22.
 Ticket for marking delicate fabrics. W. Siegfried and A. Dachs. 1,645,878; Oct. 18.
 Ticket holder. J. W. Henderson. 1,617,053; Feb. 8.
 Ticket-holding device. H. Cryom. 1,629,682; May 24.
 Ticket, Marking. J. G. Moran. 1,640,006; Aug. 23.
 Ticket, Marking. G. A. Wallin. 1,635,868; July 12.
 Ticket, Pin. M. B. Behrman. 1,643,473; Nov. 8.
 Ticket, Pin. W. Siegfried. 1,628,560; May 10.
 Ticket, Railway. W. M. Rogers. 1,618,100; Jan. 18.
 Ticket seller. F. G. Diago. 1,644,639; Oct. 4.
 Tides, Hydraulic works utilizing the power of. A. Huguenin. 1,648,848; Nov. 8.
 Tie: See—
 Bow tie. Railroad tie.
 Concrete tie. Railroad tie.
 Cow-tail tie. Railway tie.
 Mine tie. Ski tie.
 Mine-track tie. Wall-form tie.
 Package tie.
 Tie. H. B. Mapou. 1,635,946; July 12.
 Tie and fastening. R. E. L. Maxey. 1,644,934; Oct. 11.
 Tie and rail fastener. G. E. Reed. 1,615,844; Jan. 25.
 Tie and spacer, Concrete-form. D. B. Smith. Re16,793; Nov. 22.
 Tie and spacing means for plastic construction. W. M. Goldsmith. 1,623,338; Apr. 5.
 Tie clasp. A. J. Smith. 1,624,514; Apr. 12.
 Tie clasp, Adjustable. F. Jagemann. 1,635,791; July 12.
 Tie down, Two-part. E. S. Evans. 1,637,992; Aug. 2.
 Tie holder. J. Jensen. 1,624,737; Apr. 12.
 Tie plate. C. T. Matthews. 1,620,908; Mar. 15.
 Tie plate. R. T. Scholes. 1,626,631; May 8.
 Tie plate, Adjustable. W. H. Huff. 1,632,970; June 21.
 Tie plate and rail brace. R. L. Sanders. 1,645,258; Oct. 11.
 Tie plate and rail fastening. D. B. Stults. 1,613,142; Jan. 4.
 Tie-press appliance. S. Goodfellow. 1,651,884; Dec. 6.
 Tie rod and bridging for joists. P. A. Gstalder. 1,649,226; Nov. 15.
 Tie rod construction. M. P. Graham. 1,646,288; Oct. 18.
 Tie rod or like. F. C. Crawford and M. P. Graham. 1,619,291; Mar. 1.
 Tie spacer. F. M. Newman. 1,617,539; Feb. 15.
 Tie spacer. F. H. Schwerin. 1,637,459; Aug. 2.
 Tie straightener. F. R. Van Houten. 1,637,399; Aug. 2.
 Tie. E. G. Barratt. 1,645,214; Oct. 11.
 Tie and concrete floor construction, Combined. G. H. Bugenhagen. 1,628,708; May 17.
 Tie and making same, Terrazzo. G. N. Jeppson and C. L. Leaf. 1,619,734; Mar. 1.
 Tie and making the same, Roof. F. A. Beale. 1,627,266; May 3.
 Tie and the like, Manufacturing mastic. F. R. Muller. 1,631,284; June 7.
 Tie, Apparatus for making. A. C. Dale. 1,634,740; July 5.
 Tie arch. G. P. Reintjes. 1,648,363; Nov. 8.
 Tie, Building. W. L. Cook. 1,652,890; Dec. 13.
 Tie closure. H. Scarth. 1,625,628; Apr. 19.
 Tie-coating machine and process. L. S. Jones, G. W. Fisher, and C. G. Henriksen. 1,627,096; May 3.
 Tie construction. F. Cesario. 1,626,021; Apr. 26.
 Tie cutter. H. R. Straight. 1,615,966; Feb. 1.
 Tie, Drying. C. B. Cushman. 1,629,151; May 17.
 Tie-fetting machine. A. W. Christiani. 1,618,061; Feb. 15.
 Tie-fetting machine. M. J. Southwick. 1,648,966; Nov. 15.
 Tie, Flooring. G. C. Hannam and J. W. Schede. 1,637,301-2; July 26.
 Tie fork. E. C. Wente. 1,643,867; Sept. 27.
 Tie, Lock. L. B. C. Perkins and R. H. Dobbins. 1,646,312; Oct. 18.
 Tie machines, Mold plate for roofing. V. W. Schwarz. 1,619,490; Mar. 1.
 Tie-making machine. J. N. and V. W. Schwarz. 1,619,489; Mar. 1.
 Tie, Manufacture of. V. Lefebvre. 1,650,080; Nov. 22.
 Tie, Metal German. J. Tyra. 1,648,081; Nov. 8.
 Tie, Metal Spanish. J. Tyra. 1,638,755; Aug. 9.
 Tie, Nonslip floor. T. S. Curtis. 1,640,886; Aug. 30.
 Tie or slab, Building. C. S. Freund. 1,627,280; May 3.
 Tie-partition tie piece, Hollow. W. L. Albert. 1,626,589; May 3.
 Tie-plate holder. N. Knudsen. 1,639,343; Aug. 9.
 Tie press, Friction-drive. F. B. Yingling. 1,646,846; Oct. 25.
 Tie-receiving machine. J. J. Semashko. 1,639,576; Aug. 16.
 Tie structure. N. H. Cederquist. 1,649,890; Nov. 22.
 Tie wall or floor. C. A. Lowry and F. H. Abel. 1,637,580; Aug. 2.
 Ties and analogous objects, Machine for cleaning. H. D. Lillibridge. 1,649,604; Nov. 15.
 Ties, Facing. F. P. Schimmel. 1,641,553; Sept. 6.
 Ties, Form for constructing drain and sewer. E. J. Edester. 1,642,581; Sept. 13.
 Ties, Tool for marking. W. Riser. 1,619,091; Mar. 1.
 TILL. C. A. Findall. 1,647,942; Nov. 1.
 Tillage implement. W. J. and R. E. Dunham. 1,653,349; Dec. 20.
 Tillage implement. C. T. Ray. 1,643,519; Sept. 27.
 Tilt finder, Resultant. L. J. R. Holst. 1,649,406; Nov. 15.
 Tilt, Tilt. C. B. Hays. 1,639,563; Aug. 16.
 Tilt, Tilt. N. C. and H. C. Ellis. 1,631,407; June 7.
 Tilt, Tilt. H. F. Kofler. 1,629,274; May 17.
 Timber, Apparatus for drying and seasoning. A. M. Kobiolke. 1,625,548; Apr. 19.
 Timber-perforating mechanism. G. A. Colman. 1,646,188; Oct. 18.
 Timber preservation. H. C. Gardiner. 1,639,601; Aug. 16.
 Tiling or bracing system. E. A. Herrick and T. L. MacBean. 1,634,104; June 28.
 Time and zone metering, Elapsed. A. J. Ray. 1,633,678; June 28.
 Time-announcing system. G. K. Thompson. 1,618,242; Feb. 22.
 Time-controlled device. E. Traub. 1,648,748; Nov. 8.
 Time-controlled mechanism. A. E. Long. 1,650,994; Nov. 29.
 Time-controlled regulating apparatus. H. Y. Norwood. 1,646,976; Oct. 25.
 Time-controlled switches, Base for. F. B. Somerstein. 1,629,591; May 24.
 Time electric switch. G. A. Gemmer and C. E. Campbell. 1,641,161; Sept. 6.
 Time-element control and apparatus therefor. G. E. Stack. 1,638,372; Aug. 9.
 Time-element relay, Centrifugal frequency. R. V. Appleton. 1,650,176; Nov. 22.
 Time-indicating device. G. H. Brown. 1,628,946; May 17.
 Time-limit relay. C. A. Butcher and L. F. Hunt. 1,642,061; Sept. 13.
 Time-limit stop. F. G. Groff. 1,649,684; Nov. 15.
 Time-lock indicator. T. C. Adams, H. A. Noyes, and E. G. Lawrence. 1,633,657; June 28.
 Time lock means. W. T. Benham and J. E. Dwyer. 1,634,928; July 5.
 Time-lock mechanism. W. T. Benham and J. E. Dwyer. 1,632,429; June 14.
 Timepiece. A. J. Gritton. 1,650,123; Nov. 22.
 Timepiece and support, Combined. W. Huber. Des. 1,637,783; Feb. 8.
 Timepiece, Electrically-wound. U. L. Sundblad. 1,650,662; Nov. 29.
 Timepiece with hand-driving extension. G. W. Toney. 1,626,170; Apr. 26.
 Timepieces, Regulator for. K. S. McEntire. 1,615,951; Feb. 1.
 Time recorder, Workman's. A. H. Gledhill. 1,623,000; Mar. 29.
 Time-recording indicator. H. Monnig. 1,618,774; Feb. 22.
 Time relays, Quick-acting mechanism for. W. H. Petersen. 1,641,643; Sept. 6.
 Time switch. J. M. Andersen. 1,626,262; Apr. 26.
 Time switch. N. Feinern. 1,638,926; Aug. 16.
 Time switch. A. and B. Pike. 1,613,291; Jan. 4.
 Time switch, Automatic electric. D. Zorgo. 1,619,777; Mar. 1.
 Time-switch mechanism. H. D. Thomas. 1,625,339; Apr. 19.
 Timer. L. A. Alexander. 1,614,449; Jan. 18.
 Timer. W. Hartley. 1,615,012; Jan. 18.
 Timer. B. U. Hills. 1,625,806; Apr. 26.
 Timer. V. H. Mathes. 1,625,268; Apr. 19.
 Timer. A. E. Richards. 1,624,979; Apr. 19.
 Timer. E. Sinner. 1,631,291; June 7.
 Timer. L. E. Sundstrom. 1,650,729; Nov. 29.
 Timer, Cam-operated. G. D. Lawson. 1,641,930; Sept. 6.
 Timer, Ignition. W. H. Brown. 1,640,231; Aug. 23.
 Timer, Rotary. J. H. Hobson. 1,641,972; Sept. 13.
 Timer, Spark. A. R. Mosler. 1,632,413; June 14.
 Timer wires, Cover for. W. J. Peterson. 1,634,117; June 28.
 Time, Insert for. E. G. and J. G. McLeaird. 1,635,092; July 5.
 Timing device. J. Mulder. 1,640,716; Aug. 30.
 Timing device and manufacturing same. B. U. Hills. 1,617,905; Feb. 15.
 Timing device, Automatic race-track. C. E. Mentzer. 1,626,620; May 8.
 Timing switch. J. H. Nelson. 1,626,475; Apr. 26.
 Tin for anchovies, salt meat, and preserved fish. J. A. Villar. 1,617,692; Feb. 15.
 Tin, Metallurgy of. E. A. C. Smith. 1,620,580; Mar. 8.
 Tin minerals, Concentration of. W. O. Snelling. 1,638,279; Aug. 9.
 Tin plates, Machine for doubling. H. S. Thomas and W. R. Davies. 1,617,880; Feb. 15.
 Tin with tightly-closing cover. A. Schwieger. 1,624,901; Apr. 12.
 Tinning articles. C. A. Comp. 1,653,255; Dec. 20.
 Tinning milk cans, Apparatus for. C. A. Comp. 1,649,153; Nov. 15.
 Tins and the like metallic containers, Evacuation and sealing of. H. J. Poole. 1,630,216; May 24.
 Tins, cans, and other receptacles, Metal-rim mouthpiece with revolving lip for. J. M. Oiler Tintore. 1,621,377; Mar. 15.
 Tin, Tool for baymaking and like machinery. J. and C. J. Bamford. 1,631,455; June 7.
 Tip-up and like chair. D. E. Turner. 1,631,440; June 7.

- Tire. T. S. Caldwell. Des. 72,472-3; Apr. 19.
 Tire. T. S. Caldwell. Des. 72,819; June 14.
 Tire. P. O. Chambers. Des. 71,906; Jan. 25.
 Tire. E. Deitenbeck. 1,648,218; Nov. 8.
 Tire. F. D. Fowler. Des. 73,168; Aug. 2.
 Tire. W. S. Galvin. Des. 72,553; May 3.
 Tire. W. C. Garrigues. Des. 73,254-5; Aug. 16.
 Tire. W. R. Gillam. Des. 72,825-6; June 14.
 Tire. W. E. Greer. Des. 72,606-19; May 10;
 Tire. W. C. Hoover. Des. 73,289; Aug. 23.
 Tire. H. Mann. Des. 73,004; July 5.
 Tire. H. Mann. Des. 73,500-7; Sept. 20.
 Tire. T. C. Marshall. Des. 72,484-5; Apr. 19.
 Tire. W. C. Martin. 1,632,489; June 14.
 Tire. A. J. Michelin. Des. 72,217-18; Mar. 15.
 Tire. A. S. Michelson. Des. 71,921; Jan. 25.
 Tire. A. S. Michelson. Des. 72,179; Mar. 8.
 Tire. J. R. Nevius. Des. 72,274; Mar. 22.
 Tire. F. A. Nied. Des. 72,720; May 24.
 Tire. J. L. Porter. Des. 73,942; Nov. 22.
 Tire. B. H. Pratt. Des. 72,868; June 14.
 Tire. H. D. Reichard. Des. 72,630; May 10.
 Tire. E. M. Sears. 72,240-1; Mar. 15.
 Tire. L. E. Sexton. Des. 72,115-16; Mar. 1.
 Tire. W. W. Siegler. Des. 72,732; May 24.
 Tire. L. C. Snyder. 1,625,750; Apr. 19.
 Tire. C. A. Wolfe. 1,616,293; Feb. 1.
 Tire, Air-core. A. Valentini. 1,646,800; Oct. 25.
 Tire air valve. A. L. Sorensen. 1,628,441; May 10.
 Tire alarm. G. Moscatel. 1,646,164; Oct. 18.
 Tire and fender protector, Spare. B. H. Gerker
 1,614,725; Jan. 18.
 Tire and rim. J. C. Ballew. 1,637,599; Aug. 2.
 Tire and rim carrier and rim tool, Combined. J. C.
 Rummel. 1,635,907; July 12.
 Tire and towline, Combined emergency. S. G. Jensen.
 1,652,442; Dec. 13.
 Tire appliance, Pneumatic. J. P. Hayes. 1,646,693;
 Oct. 25.
 Tire armor, Pneumatic. J. C. Mire. 1,622,161; Mar. 22.
 Tire, Automobile. P. P. Kostock. 1,628,790; May 17.
 Tire, Automobile. L. Lambert. 1,651,211; Nov. 29.
 Tire, Automobile. G. D. Pearson. 1,625,679; Apr. 19.
 Tire-head reinforcing element. A. C. Hopkins. 1,612,922;
 Jan. 4.
 Tire beads, Apparatus for covering. H. A. Denmire.
 1,621,239; Mar. 15.
 Tire beads, Machine for covering. W. C. Stevens.
 1,635,647; July 12.
 Tire beads, Manufacture of. S. W. Alderfer. 1,633,620;
 June 28.
 Tire boot. G. A. Burrow. 1,653,388; Dec. 20.
 Tire boot and fastener therefor. C. L. Johnson.
 1,628,923; Apr. 5.
 Tire-building apparatus. J. R. Gammeter. 1,640,072;
 Aug. 23.
 Tire-building apparatus. M. C. Scrofe. 1,619,377; Mar. 1.
 Tire-building core. B. De Mattia. 1,631,855; June 7.
 Tire-building cores, Method and apparatus for applying
 fabric to. H. A. Denmire. 1,648,842; Nov. 8.
 Tire-building drum, Collapsible. F. L. Johnson.
 1,648,132; Nov. 8.
 Tire-building form, Collapsible. F. L. Johnson. 1,618,153;
 Feb. 15.
 Tire-building form, Collapsible. F. L. Johnson.
 1,636,055-6; July 19.
 Tire-building machine. H. A. Denmire. 1,647,104;
 Oct. 25.
 Tire-building machine. J. W. Kuhn. 1,637,195; July 26.
 Tire-building machine. J. E. Perrault. 1,645,397;
 Oct. 11.
 Tire-building machine. G. F. Wikle. 1,647,163; Nov. 1.
 Tire-building machines, Strip-applying attachment for.
 C. W. Steele. 1,632,151; June 15.
 Tire-building method and apparatus. J. R. Gammeter.
 1,619,019; Mar. 1.
 Tire carrier. A. M. Bacon. 1,623,377; Apr. 5.
 Tire carrier. W. B. Best. 1,652,296; Dec. 13.
 Tire carrier. W. F. Clark. 1,629,478; May 24.
 Tire carrier. T. S. Culp. 1,652,500; Dec. 13.
 Tire carrier. R. F. Freeman. 1,628,538; May 10.
 Tire carrier. W. R. Green. 1,647,442; Nov. 1.
 Tire carrier. G. P. Henry. 1,626,934; May 3.
 Tire carrier. B. B. Jackson. 1,641,890; Sept. 6.
 Tire carrier. J. N. Leslie. 1,617,766; Feb. 15.
 Tire carrier. T. H. Lynn. 1,629,089; May 17.
 Tire carrier. H. A. Weaver. 1,634,278; July 5.
 Tire carrier and protector. C. Dahl. 1,629,747; May 24.
 Tire carrier and rim remover, Combined. L. H. Ferguson.
 1,625,914; Apr. 5.
 Tire carrier and signaling means, Combination. J. G.
 Sutherland. 1,645,830; Oct. 18.
 Tire-carrier clamp. F. M. Pfeiffer and E. Van Camp.
 1,615,722; Jan. 25.
 Tire carrier for vehicles, Spare. W. D. Mercer.
 1,650,765; Nov. 29.
 Tire carrier, Spare. H. Avery, Jr. 1,648,472; Nov. 8.
 Tire carrier, Spare. E. J. Lattin. 1,628,728; May 17.
 Tire carrier, Spare. G. E. Parker. 1,642,460; Sept. 13.
 Tire carriers, Padlock for. W. E. Fraim. 1,614,666;
 Jan. 19.
 Tire casing. B. Omoto. 1,616,543; Feb. 8.
 Tire casing and similar article. F. Leopold, Jr. Des.
 72,102; Mar. 1.
 Tire casing and tube protector. R. D. Sarver. 1,642,897;
 Sept. 20.
 Tire casing or similar article. F. Leopold, Jr. Des.
 72,431; Apr. 12.
 Tire casings, Flexible patches, Making. F. J. Benson.
 1,651,801; Dec. 6.
 Tire casings, Apparatus for building. F. H. Stewart.
 1,627,212; May 3.
 Tire casings, Apparatus for manufacturing. A. O.
 Abbott, Jr. 1,618,794; Feb. 22.
 Tire casings, Flexible spotter for repairing. E. A. Hubbard.
 1,632,651; June 14.
 Tire casings for motor vehicles, Manufacturing. E. Hopkinson
 and W. J. Steidle. 1,625,122; Apr. 19.
 Tire casings, inner tubes, and wheel rims, Interlock for
 pneumatic. W. J. P. Moore. 1,645,921; Oct. 18.
 Tire casings, Machine for treating. G. C. Miller.
 1,636,825; July 26.
 Tire casings, Making. T. C. Marshall. 1,629,517;
 May 24.
 Tire casings, Making. T. Midgley. 1,624,615; Apr. 12.
 Tire casings, Method and apparatus for making. W. J.
 Steidle. 1,654,351; Dec. 27.
 Tire chain. E. W. Bunker. 1,620,517; Mar. 8.
 Tire chain. W. G. Chase. 1,619,783; Mar. 1.
 Tire chain. F. T. Gause. 1,627,555; May 10.
 Tire chain. W. Murphy. 1,631,754; June 7.
 Tire chain. W. E. Neal. 1,618,020; Feb. 15.
 Tire chain. E. A. Ryan and F. L. Marksman. 1,633,277;
 June 21.
 Tire chain. F. A. Smith. 1,631,296; June 7.
 Tire chain. I. F. Stanley. 1,617,034; Feb. 8.
 Tire-chain applier. E. E. Cronenweth. 1,630,111;
 May 24.
 Tire-chain applier. E. E. Cronenweth. 1,642,921;
 Sept. 20.
 Tire chain, Automobile. T. D. Clark. 1,615,570; Jan. 25.
 Tire-chain catch. W. H. Jones. 1,620,894; Mar. 15.
 Tire-chain construction. S. H. Rogers. 1,618,606; Feb. 22.
 Tire-chain fastener. J. A. Garland. 1,633,524; June 21.
 Tire-chain fastener. C. Strand. 1,642,701; Sept. 20.
 Tire-chain link. M. J. Frambach. 1,617,627; Feb. 15.
 Tire-chain-locking tightener. H. Collins. 1,651,512;
 Dec. 6.
 Tire chains, Coupling for. W. T. Nardin. 1,635,975;
 July 12.
 Tire chains, Device for applying. J. F. Herring.
 1,630,006; May 24.
 Tire chains, Instrument for applying. H. B. Holt.
 1,642,732; Sept. 20.
 Tire chains, Tightener and holder for. G. J. Bowman.
 1,626,179; Apr. 23.
 Tire changer. G. E. Weaver. 1,650,674; Nov. 29.
 Tire changer. I. A. Weaver and J. Sternaman. 1,646,511;
 Oct. 25.
 Tire-changing equipment, Pneumatic. E. M. Morley.
 1,633,492; June 21.
 Tire construction. E. A. Brown. 1,652,088; Dec. 6.
 Tire construction. J. E. Hale. 1,618,823; Feb. 22.
 Tire construction. F. W. Krone. 1,636,779; Feb. 26.
 Tire construction. T. Midgley. 1,627,799; May 10.
 Tire construction. J. C. Tuttle, J. P. Smith, and M. L.
 Wiener. 1,616,069; Feb. 1.
 Tire construction, Pulley-band. T. Midgley. 1,633,342;
 June 21.
 Tire core, Sectional. W. J. Oakley. 1,649,723; Nov. 15.
 Tire cover. L. H. Cross. 1,625,593; Apr. 19.
 Tire cover. W. P. Hammond. 1,651,769; Dec. 6.
 Tire covers and casings, Machines for making pneumatic.
 C. Macheth. 1,613,519; Jan. 4.
 Tire, Cushion. W. A. Brubaker. 1,616,843; Feb. 8.
 Tire, Cushion. W. A. Brubaker. 1,641,150; Sept. 6.
 Tire, Cushion. G. Gatial. 1,639,175; Aug. 16.
 Tire cushion. A. J. Harpstrite. 1,650,271; Nov. 22.
 Tire cushion. F. McIlbraine. 1,625,558; Apr. 19.
 Tire, Cushion. M. C. Overman. 1,618,128-9; Feb. 15.
 Tire, Cushion. A. W. Schmidt. 1,654,019; Dec. 27.
 Tire, Cushion. W. E. Shively. 1,635,194; July 12.
 Tire, Cushion. W. J. Small. 1,638,370; Aug. 9.
 Tire, Cushion. C. A. Snider. 1,617,870; Feb. 15.
 Tire, Cushion. Southmayd. 1,636,759; July 26.
 Tire-decoration indicator. F. G. Crone. 1,638,983;
 Aug. 16.
 Tire-display holder. R. W. Clark. 1,628,306; May 10.
 Tire-display holder. M. Metzger. 1,640,792; Aug. 30.
 Tire, Double-tread pneumatic. J. E. Bove. 1,643,195;
 Sept. 20.
 Tire, Elastic. C. Riesebeck. 1,633,999; June 28.
 Tire filler. A. J. Harpstrite. 1,646,480; Oct. 25.
 Tire filler. G. F. A. Ochs. 1,634,626; July 5.
 Tire filler, Nonpneumatic. J. P. Prall. 1,644,609; Oct. 4.
 Tire-finishing machine. L. E. McCreedy. 1,635,134;
 July 8.
 Tire flap. E. R. Dexter. 1,646,191; Oct. 18.
 Tire flap. E. G. Hulse. 1,619,868; Mar. 8.
 Tire flap. J. Jacobs. 1,620,818; Mar. 15.
 Tire flap. F. V. Medynski. 1,621,021; Mar. 15.
 Tire flap. G. J. Rossward and S. H. Smith. 1,638,460;
 Aug. 9.
 Tire flap or protector. R. H. Schwartz. 1,649,862;
 Nov. 22.
 Tire for motor vehicles. E. Hopkinson and J. P. Coe.
 1,652,670; Dec. 13.
 Tire for motor vehicles and the like and manufacturing
 same. E. Hibbert. 1,643,848; Sept. 27.

- Tire for rockers. A. B. Fisher. 1,618,646; Feb. 22.
- Tire for vehicle wheels. M. N. A. Delaval. 1,619,812; Mar. 8.
- Tire gauge, Automatic. L. O. Van Riper. 1,622,688; Mar. 29.
- Tire holder. F. A. Lind. 1,620,478; Mar. 8.
- Tire, Indatably. F. Barcent. 1,649,092; Nov. 15.
- Tire-inflating apparatus. W. C. Stepp. 1,628,813; May 17.
- Tire-inflating coupling and gauge. H. P. Kraft. 1,614,307; Jan. 11.
- Tire-inflating device. P. I. Semak. 1,647,818; Nov. 1.
- Tire-inflating gauge. A. B. Edwards. Des. 71,829; Jan. 11.
- Tire-inflating means. C. Romer. 1,641,457; Sept. 6.
- Tire-inflation mechanism. E. M. Morley. 1,632,619; June 14.
- Tire liner. M. A. Doelckner and A. P. Fanelli. 1,628,582; May 10.
- Tire lock. R. H. Butters and R. W. Starke. 1,643,485; Sept. 27.
- Tire lock. E. W. Cannam and G. S. Hugnin. 1,642,576; Sept. 13.
- Tire lock. J. Junkunc. 1,638,264; Aug. 9.
- Tire lock. F. R. Loomis. 1,642,559; Sept. 13.
- Tire lock. Automobile. F. W. Henke, jr. 1,625,658; Apr. 19.
- Tire lock, Spare-. D. F. Axelsson. 1,629,015; May 17.
- Tire lock, Spare-. J. Sokolov. 1,635,228; July 12.
- Tire-locking device. I. V. Shupe. 1,643,824; Sept. 27.
- Tire machine. E. G. Templeton. 1,620,499; Mar. 8.
- Tire machine. Cord-. W. G. Fording. 1,620,092; Mar. 8.
- Tire machines. Knife bracket for. D. L. Williams. 1,637,794; Aug. 2.
- Tire-making machine. H. A. Denmire. 1,617,705; Feb. 15.
- Tire-making machines, Attachment for. H. A. Denmire. 1,648,447; Nov. 8.
- Tire meters, Pressure-operated switch for. C. W. Aue. 1,642,796; Sept. 6.
- Tire mold. W. P. Henson. 1,643,712; Sept. 27.
- Tire mold. L. A. Laursen. 1,649,189; Nov. 15.
- Tire mold. L. A. Laursen. 1,652,020; Dec. 6.
- Tire mold. T. Midgley. 1,615,470; Jan. 25.
- Tire mold. T. Midgley. 1,615,472; Jan. 25.
- Tire mold. T. Midgley. 1,615,474; Jan. 25.
- Tire mold. C. Painter. 1,632,310; June 14.
- Tire mold. H. Willshaw. 1,638,023; Aug. 9.
- Tire mold and making the same. T. Midgley. 1,615,473; Jan. 25.
- Tire molds, Flexible gasket for. H. O. Hutchens and C. A. Kessler. 1,625,894; Apr. 26.
- Tire molds, Making. T. Midgley. 1,615,471; Jan. 25.
- Tire-molding apparatus. J. G. Mooney. 1,649,843; Nov. 22.
- Tire mounting and demounting machine. J. McKenzie. 1,615,469; Jan. 25.
- Tire mounting and dismounting device. H. G. Giles. 1,635,359; Jan. 4.
- Tire mounting and dismounting device. H. G. Giles. 1,637,815; Aug. 2.
- Tire or similar article. R. W. Hutchens. Des. 72,263; Mar. 22.
- Tire patch. L. R. Moore. 1,624,619; Apr. 12.
- Tire patch. E. A. Mueller and C. C. Mueller, jr. 1,637,289; May 17.
- Tire patch, Balloon-. J. F. Brady and R. B. Ott. 1,629,335; May 17.
- Tire patch with application indicator. P. E. Hawkinson. 1,648,729; Nov. 8.
- Tire-patching appliance. L. Patton. 1,651,933; Dec. 6.
- Tire-patching machine. J. P. Curls. 1,628,122; May 10.
- Tire, Pneumatic. J. T. Auger. 1,650,107; Nov. 22.
- Tire, Pneumatic. J. T. Clark. 1,626,512; Apr. 26.
- Tire, Pneumatic. J. F. Cullen. 1,614,286; Jan. 11.
- Tire, Pneumatic. R. P. Johnson. Des. 73,745; Nov. 1.
- Tire, Pneumatic. F. L. Main. 1,640,844; Aug. 30.
- Tire, Pneumatic. H. Maul. 1,630,535; May 31.
- Tire, Pneumatic. F. Palmer. 1,643,514; Sept. 27.
- Tire, Pneumatic. S. A. Steere. 1,632,201; June 14.
- Tire, Pneumatic. L. E. Trotter. 1,641,792; Sept. 6.
- Tire, Pneumatic. D. M. Weigl. 1,633,963; June 28.
- Tire-pressure gauge. G. S. Loy. Des. 73,505; Sept. 20.
- Tire pressure gauge. F. E. Welton. 1,648,332; Nov. 8.
- Tire pressure. M. Palmer, Automatic pneumatic. G. C. Evans. 1,647,401; Nov. 1.
- Tire-pressure tester. H. E. McNatt. 1,618,211; Feb. 22.
- Tire protective means, Pneumatic-. A. J. la Pierre. 1,616,268; Feb. 1.
- Tire protector. H. C. Anderson. 1,636,948; July 26.
- Tire protector. L. F. C. Lotte. 1,634,589; July 5.
- Tire pump and gauge, Combination. H. B. Boles. 1,645,788; Oct. 18.
- Tire. Punctureproof pneumatic. H. C. Anderson. 1,636,978; July 26.
- Tire. Punctureproof pneumatic. M. L. Paulson. 1,619,433; Mar. 1.
- Tire rack and workbench, Combined. E. Freivogel. 1,649,679; Nov. 15.
- Tire remover. C. J. Dalton. 1,638,476; Aug. 9.
- Tire-removing attachment for tire changers. M. L. Heineke. 1,651,389; Dec. 6.
- Tire-repair device. D. H. Cox. 1,621,154; Mar. 15.
- Tire-repair device and method. A. H. Fisher. 1,653,499; Dec. 20.
- Tire-repair scraper. R. W. Fox. 1,632,544; June 14.
- Tire-repair tool. E. F. Pawsat. 1,619,539; Mar. 1.
- Tire-repair vulcanizer. H. K. Wheelock. 1,617,829; Feb. 15.
- Tire-repair vulcanizer. H. K. Wheelock. 1,630,815; May 31.
- Tire, Resilient. A. E. Bauman. 1,624,856; Apr. 12.
- Tire, Resilient. H. Bonawit. 1,630,776; May 31.
- Tire, Resilient. J. H. Burns. 1,618,026; Feb. 1.
- Tire, Resilient. P. A. Lea. 1,647,871; Nov. 1.
- Tire, Resilient. I. Levinson. 1,647,455; Nov. 1.
- Tire, Resilient. C. S. Morse. 1,630,350; May 31.
- Tire, Resilient. E. W. Perry. 1,625,742; Apr. 19.
- Tire rim. C. Berg. 1,618,403; Feb. 22.
- Tire rim. R. C. Coleman. 1,623,307; Apr. 5.
- Tire rim. E. Freivogel. 1,649,678; Nov. 15.
- Tire rim. M. Gross. 1,629,913; May 24.
- Tire rim. B. J. Zobel. 1,635,105; July 5.
- Tire rim. B. J. Zobel. 1,640,305; Aug. 23.
- Tire rim. Automobile. J. Cruz and P. Noguera. 1,621,460; Mar. 15.
- Tire rim, Collapsible. A. T. J. Bahr. 1,643,534; Sept. 27.
- Tire rim, Demountable. D. H. McClelland. 1,643,672; Sept. 27.
- Tire-rim expanding and collapsing device. W. E. Springfield and B. W. Brazier. 1,622,549; Mar. 29.
- Tire rim, Telescoping. A. R. Parsons. 1,631,429; June 7.
- Tire rims, Combined contractor and expander for automobile. A. C. Hoecker. 1,654,420; Dec. 27.
- Tire rims, Lock for. J. H. Radandt. 1,618,997; Mar. 1.
- Tire-shaping apparatus. A. O. Abbott, jr. 1,635,242; July 12.
- Tire shoes, Tool for the repair of automobile. J. Abrahamson. 1,642,395; Sept. 13.
- Tire signal. C. W. Ostrom. 1,634,553; July 5.
- Tire, Solid vehicle. R. S. Burdette. 1,645,089; Oct. 11.
- Tire spreader. V. R. Goeller. 1,627,500; May 3.
- Tire spreader. A. C. Hopkins. 1,638,997; Aug. 16.
- Tire spreader. W. A. Mielke. 1,622,681; Mar. 29.
- Tire spreader. C. E. Price. 1,647,045; Oct. 25.
- Tire spreader. E. H. Schaeffer and D. Apfel. 1,622,468; Mar. 29.
- Tire spreader. A. A. Trombley. 1,651,076; Nov. 29.
- Tire-spreading device. H. T. Hughes. 1,639,506; Aug. 16.
- Tire-spreading device. O. Rule and J. A. Bennett. 1,652,414; Dec. 13.
- Tire, Spring. A. Brewer. 1,618,168; Feb. 22.
- Tire-stem pads to tubes, Securing. C. A. Mook. 1,652,726; Dec. 13.
- Tire stocks, Splicing solid-. G. W. Sieberling. 1,622,546; Mar. 29.
- Tire-stripping machine. A. H. Havir and H. V. Fletcher. 1,638,306; Aug. 9.
- Tire-stripping machine. M. Kimmerring. 1,653,104; Dec. 20.
- Tire structure. A. M. Lane. 1,637,753; Aug. 2.
- Tire structure and applying to wheels, Cushion. F. R. Klaus. 1,638,810; Aug. 9.
- Tire-supporting rim. E. F. McGovern. 1,614,892; Jan. 18.
- Tire tape or the like, Machine for wrapping. H. D. Stevens. 1,634,919; July 5.
- Tire tester, Pocket. R. A. Ingham. 1,616,628; Feb. 8.
- Tire-testing apparatus. J. G. Coffin. 1,638,111; Aug. 9.
- Tire tool. J. A. Gagnon. 1,616,362; Feb. 1.
- Tire tool. F. A. Lew. 1,619,426; Mar. 1.
- Tire traction device, Resilient-. D. W. Obaver. 1,620,384; Mar. 8.
- Tire tread. W. S. Galvin. Des. 73,169; Aug. 2.
- Tire tread. H. D. Reichard. Des. 71,922; Feb. 8.
- Tire tread. H. D. Reichard. Des. 71,986; Feb. 8.
- Tire-tread-applying machine. H. O. Hutchens and A. R. Kraus. 1,632,582; June 14.
- Tire tread, Pneumatic. P. Graham. Des. 73,173; Aug. 2.
- Tire treads, Method and apparatus for making. W. B. Freeman, U. C. Haren, and F. P. Hartung. 1,653,356; Dec. 20.
- Tire-trimming apparatus. J. R. Gammeter. 1,622,440; Mar. 29.
- Tire-trimming machine. G. F. Wilson and C. W. Legullion. 1,628,817.
- Tire tubes, Apparatus for finishing. H. H. Hastings. 1,640,077; Aug. 23.
- Tire valve. F. M. Ahearn. 1,629,901; May 24.
- Tire valve. D. W. Bechtel. 1,624,914; Apr. 19.
- Tire valve. C. S. Preston. 1,628,064; May 10.
- Tire-valve casings, Making. E. G. Oakley. 1,625,492; Apr. 19.
- Tire valve stems, Auxiliary valve for pneumatic. W. R. Royer. 1,629,972; May 24.
- Tire-valve stems, Cover for automobile. E. L. Boyd. 1,649,804; Nov. 22.
- Tire-valve stems, Dust cap and rim nut connection for. C. T. Scott. 1,645,027; Oct. 11.
- Tire valves, Dust cap for. V. L. Smithers. 1,628,440; May 10.
- Tire valves, Dust cap for. J. E. Turrell and W. G. Turrell. 1,640,863; Aug. 30.
- Tire, Vehicle. J. T. Clark. 1,628,511; Apr. 26.
- Tire, Vehicle. J. T. Clark. 1,651,375; Dec. 6.
- Tire, Vehicle. N. Costanzo. 1,634,253; July 5.
- Tire, Vehicle. D. L. Guvia. 1,639,940; Aug. 23.
- Tire, Vehicle. R. Iredell. Des. 73,835; Nov. 15.
- Tire, Vehicle. F. E. Rush. 1,622,848; Mar. 29.
- Tire, Vehicle wheel. J. Agrillo and J. Daly. 1,639,207; Aug. 16.

- Tire vulcanizer. M. H. Gregg. 1,643,493; Sept. 27.
 Tire-vulcanizing apparatus. E. W. Cotton. 1,616,076; Feb. 1.
 Tire-vulcanizing device. K. B. Kilborn and W. S. Wolfe. 1,633,587; June 28.
 Tire-vulcanizing mold. P. De Mattia. 1,630,113; May 24.
 Tire, Wheel. N. Gherassimoff. 1,632,731; June 14.
 Tire-wrapping machine. J. Derry. 1,630,834; May 31.
 Tires and product resulting therefrom. Treating automobile. H. H. Allyn and J. S. Williams. 1,614,024; Jan. 11.
 Tires and the like, Producing pneumatic tubes for vehicle. W. L. Fairchild. 1,638,659; Aug. 9.
 Tires and the like, Protective cover for pneumatic. J. L. Delplai. 1,642,104; Sept. 13.
 Tires and the like, Sealing composition for punctures in pneumatic. G. G. Burton. 1,645,585; Oct. 13.
 Tires, Antiskid chain for. W. H. Coad. 1,620,076; Mar. 8.
 Tires, Antiskid device for automobile. F. J. Donat. 1,642,807; Sept. 20.
 Tires, Apparatus for and process of making. H. F. Dumbleton. 1,636,595; July 19.
 Tires, Apparatus for examining vehicle. H. C. Heyemann. 1,617,758; Feb. 15.
 Tires, Apparatus for manufacturing. A. O. Abbott, jr. 1,635,240; July 12.
 Tires, Apparatus for repairing. C. M. Semler. 1,616,066; Feb. 1.
 Tires, Apparatus for use in the manufacture of pneumatic. H. A. Denmore. 1,643,202; Sept. 20.
 Tires, Bead cable for. A. C. Pratt. 1,614,206; Jan. 11.
 Tires, Blow-out patch for balloon. C. E. Ayers. 1,631,854; June 7.
 Tires, Chain equipment for. F. H. Arnzen. 1,619,846; Mar. 8.
 Tires, Cushioning unit for vehicle. H. Zubrow and E. Solomon. 1,631,447; June 7.
 Tires, Deep rim for pneumatic. A. J. Michelin. 1,652,146-7; Dec. 6.
 Tires, Deflation alarm for pneumatic. B. D. Wells. 1,619,450; Mar. 1.
 Tires, Demountable interlocking rim for vehicle. J. H. Gildersleeve. 1,623,834; Apr. 5.
 Tires, Demountable rim for. G. B. Austin. 1,646,677; Oct. 25.
 Tires, Device for inflating and deflating pneumatic. W. A. Harris. 1,615,943; Feb. 1.
 Tires, Device for mounting and carrying automobile. W. E. Johnston. 1,615,456; Jan. 25.
 Tires during the tire regeneration, Device for the production of any patterns with grooves and projecting portions on the surface of rubber. A. Benaglia. 1,653,835; Dec. 27.
 Tires, Inner tube for automobile. C. H. Semple. 1,634,161; June 28.
 Tires, Interliner for pneumatic. R. H. Mullineaux. 1,632,498; June 14.
 Tires, Manufacture of cushion. G. F. Fisher. 1,625,644; Apr. 19.
 Tires, Manufacture of hollow cushion. G. F. Fisher. 1,613,697; Jan. 11.
 Tires, Manufacture of semisolid rubber. E. Gollert. 1,625,117; Apr. 19.
 Tires, Manufacturing cushion. W. C. Martin. 1,632,490; June 14.
 Tires, Mercantile unit of patching material for pneumatic. R. D. Boyce. 1,650,420; Nov. 22.
 Tires on rims, Securing. A. J. Michelin. 1,654,380; Dec. 27.
 Tires, Patch for pneumatic. C. Forman. 1,653,162; Dec. 20.
 Tires, Puncture-sealing composition for pneumatic. E. Serchi. 1,633,500; June 21.
 Tires, Repair shield for vehicle. J. H. Burrow. 1,645,413; Oct. 11.
 Tires, Safety device for spare. H. H. Hanton. 1,618,924; Feb. 22.
 Tires, Securing means for pneumatic. H. P. Mack. 1,653,054; Dec. 20.
 Tires, Traction device for vehicle. J. R. Vosburgh. 1,619,170; Mar. 1.
 Tires, Tread grip for vehicle. C. L. Hoff. 1,638,034; Aug. 9.
 Tires, Vacuum shaping machine for. A. O. Abbott, jr. 1,635,243; July 12.
 Tires, Vacuum shaping machine for straight-slide. A. O. Abbott, jr. 1,635,241; July 12.
 Tires, Valve base for pneumatic. A. E. Henderson. 1,639,998; Aug. 23.
 Tires, Visual deflation signal for. J. E. and M. A. Kennedy. 1,644,193; Oct. 4.
 Tires, Vulcanizing. S. Krall. 1,627,785; May 10.
 Tires, Vulcanizing molding apparatus for rubber. P. Barré. 1,643,869; Sept. 27.
 Tires, Wheel for deflatable. J. H. Gildersleeve and H. J. Paint. 1,635,862; July 12.
 Tissue, measuring its length, and folding it, Machine for inspecting a piece of. J. Nanterme. 1,624,060; Apr. 12.
 Titanic oxide, Manufacture of. N. Specht. 1,649,496; Nov. 15.
 Titanium alloy. A. W. Clement. 1,621,523; Mar. 22.
 Titanium-dioxide or rutile and a product thereof, Transforming. S. J. Lubowsky. 1,640,952; Aug. 30.
 Toaster. W. D. Bellamy. 1,615,356; Jan. 25.
 Toaster. H. Ostermann. 1,632,192; June 14.
 Toaster. S. F. Rehora. 1,624,182; Apr. 12.
 Toaster. C. E. Shields. 1,624,017; Apr. 12.
 Toaster. M. Wertheimer. 1,625,008; Apr. 19.
 Toaster and grill, Electric. E. E. Sutherland. 1,624,445; Apr. 12.
 Toaster, Electric. H. A. Hirschfeld and A. G. Stern. 1,645,327; Oct. 11.
 Toaster, Electric. C. P. Randolph. Des. 72,495; Apr. 19.
 Toaster, Electric. L. Reichold. 1,639,385; Aug. 16.
 Toaster, Electric. F. E. Wolcott. 1,617,558-9; Feb. 15.
 Toaster, Electric bread. J. E. Marsden. 1,624,893; Apr. 12.
 Toaster, Rotatable. A. Guissart and E. H. Barbe. 1,612,809; Jan. 4.
 Toasting and buttering machine, Automatic. I. Beskin. 1,633,391; June 21.
 Toasting and heating appliance, Electric. H. J. Tannenbaum and D. Brown. 1,652,745; Dec. 13.
 Toasting apparatus, Sandwich. G. Lines. 1,649,963; May 22.
 Toasting machine and the like. C. E. Carpenter. 1,621,234; Mar. 15.
 Tobacco can. S. A. Arntz. 1,641,565; Sept. 6.
 Tobacco case. W. Baehne. 1,622,407; Mar. 29.
 Tobacco-cutting machine. E. Koerner. 1,618,096; Feb. 15.
 Tobacco, Denial process and apparatus. J. Sartig. 1,640,298; Aug. 23.
 Tobacco, Device for feeding scrap. W. B. Bronander. 1,637,800; Aug. 2.
 Tobacco, Growing. G. H. Malott. 1,632,241; June 14.
 Tobacco, Laying. L. Lavitt. 1,617,062; Feb. 8.
 Tobacco leaves, Machine for stringing. G. W. Kennedy. 1,650,990; Nov. 29.
 Tobacco leaves, Machine for stripping and cutting. D. H. Simpson. 1,638,018; Aug. 9.
 Tobacco, Machine for handling. E. Granstedt. 1,619,507; Mar. 1.
 Tobacco pipe. F. Hoffman. 1,623,009; Mar. 29.
 Tobacco pipe. W. H. Lewis. Des. 72,213; Mar. 15.
 Tobacco pipe. W. H. Lewis. 1,621,890; Mar. 22.
 Tobacco pipe. T. C. Masney. 1,634,375; July 5.
 Tobacco pipe. H. Rapp. 1,653,508; Dec. 20.
 Tobacco pipe. H. E. Shoop. 1,640,097; Aug. 23.
 Tobacco pipe. L. W. Taylor. 1,624,690; Apr. 12.
 Tobacco pipe. G. H. Wilson. 1,643,231; Sept. 20.
 Tobacco pipe. J. M. Wilson. 1,620,420; Mar. 8.
 Tobacco-pipe attachment. J. J. O'Toole. 1,628,059; May 10.
 Tobacco-smoking pipe. H. Hirsch. 1,617,113; Feb. 8.
 Tobacco-smoking pipe. L. E. Overton. 1,618,776; Feb. 22.
 Tobacco stemming and booking machine. J. H. Dean. 1,619,461; Mar. 1.
 Tobacco-stemming machine. J. O. Morris. 1,612,938; Jan. 4.
 Tobacco-stemming mechanism. W. B. Bronander. 1,637,801; Aug. 2.
 Tobacco-stripping machine. J. T. Dalton and B. W. Corson. 1,632,177; June 14.
 Tobacco-tamping device. C. R. Redheffer and H. L. Tobacco. 1,649,614; Nov. 15.
 Tobacco, Treating. M. Takeuchi. 1,617,727; Feb. 15.
 Tobacco wax and producing the same. S. Amster. 1,624,155; Apr. 12.
 Toe adjuster. E. O. Johnson. 1,624,171; Apr. 12.
 Toe-in gauge. W. J. Kund. 1,623,378; Apr. 5.
 Toggle and method. W. A. Hubner. 1,623,789; Apr. 5.
 Toggle mechanism. C. S. Reiger. 1,634,684; July 5.
 Toggle press. J. Derry. 1,633,317; June 21.
 Toggle press. N. W. Dorman and M. R. Hatch. 1,621,713; Mar. 22.
 Toggle spreader. E. S. Sargent. 1,628,615; May 10.
 Toilet. E. G. Friedrich. 1,630,932; May 31.
 Toilet accessory. W. Friedman. 1,630,566; May 31.
 Toilet appliance. C. P. Creeluis. 1,615,571; Jan. 25.
 Toilet article. J. M. Bardera. 1,616,104; Feb. 1.
 Toilet article. W. L. Bass. 1,639,628; Aug. 16.
 Toilet article. J. W. Dougherty and W. E. Townley. 1,632,392; June 14.
 Toilet article. W. Friedman. 1,626,927; May 3.
 Toilet article. W. Friedman. 1,652,402; Dec. 13.
 Toilet article. Combined. E. Waldanz. 1,650,167; Nov. 22.
 Toilet article for hairdressing. C. S. Hart. 1,650,710; Nov. 29.
 Toilet articles or similar article. Receiptacle for. F. M. Nicholson. Des. 72,719; May 24.
 Toilet box. A. S. Donaldson. Des. 72,793; June 7.
 Toilet box. C. E. Kjetsaa. 1,623,877; Apr. 5.
 Toilet box. R. W. Wilson. 1,640,299; Mar. 29.
 Toilet chair, Invalid's. G. B. Killen. 1,638,040; Aug. 9.
 Toilet cover, Sanitary. W. Stelzer. 1,632,455; June 14.
 Toilet foot. C. C. France and P. F. Reichert. 1,653,005; Dec. 20.
 Toilet-flushing means. J. Moore. 1,621,737; Mar. 22.
 Toilet-flushing mechanism. C. A. Wulf. 1,641,652; Sept. 6.
 Toilet for infants, Portable. L. Kuhn. 1,650,365; Nov. 22.
 Toilet inclosure. M. S. Hart and L. E. Page. 1,637,145; July 26.
 Toilet kit. M. H. Walker. 1,641,650; Sept. 6.

- Toilet, Marine. D. J. Mahoney. 1,650,370; Nov. 22.
 Toilet novelty. W. E. Fatt. 1,632,920; June 21.
 Toilet or convenience, Portable. L. L. Roberts. 1,652,581; Dec. 13.
 Toilet-paper fixture. C. Fisher. 1,614,112; Jan. 11.
 Toilet-paper holder. O. R. Boynton. 1,651,867; Dec. 6.
 Toilet-paper-roll holder. O. R. Boynton. 1,625,190; Apr. 19.
 Toilet-paste-tube holder. G. Wolkenhauer. 1,614,054; Jan. 11.
 Toilet-powder shaker. E. A. Pollon. 1,625,092; Apr. 19.
 Toilet, Sanitary odorless. J. H. McCall. 1,629,401; May 17.
 Toilet seat. A. J. Bruder. 1,630,524; May 31.
 Toilet seat. E. L. Eckstein. 1,659,219; Aug. 16.
 Toilet seat and cover. D. A. Wolf. 1,618,020; Feb. 1.
 Toilet seat, Auxiliary. E. M. Noble. 1,633,222; June 21.
 Toilet-seat cover. C. L. Mahoney. 1,643,413; Sept. 27.
 Toilet-seat cover, Sanitary. A. de Luna. 1,635,072; July 5.
 Toilet-seat covers, Paper holder for. E. J. Douglas. 1,638,247; Aug. 9.
 Toilet seat, Sanitary baby. C. A. Switzer. 1,648,791; Nov. 8.
 Toilet, Surface. W. See. 1,615,775; Jan. 25.
 Toilets, etc., Seat-operating mechanism for. G. Rehn. 1,616,509; Feb. 8.
 Toilets, ventilating device for. F. E. Lumley. 1,636,476; July 19.
 Token system. W. S. Roberts. 1,632,246; June 14.
 Tomb marker and decoration container, Combined. P. Johnson. 1,619,735; Mar. 1.
 Tomb or grave closing device. H. J. Busey. 1,631,853; June 7.
 Tone arm. M. Nystrom. Dec. 73,979; Nov. 29.
 Tone arm. J. N. Pepin. 1,653,410; Dec. 20.
 Tone chamber. P. B. Armstrong. 1,615,434; Jan. 25.
 Tone control operable successively in a predetermined manner. J. H. Hammond, jr. 1,645,048; Oct. 11.
 Tone controls, Successively-operated. J. H. Hammond, jr. 1,655,995; July 19.
 Tone muffler. T. J. Slecchia. 1,621,608; Mar. 22.
 Tone selective receiver. R. E. Hall. 1,647,911; Nov. 1.
 Tone-sustaining mechanism. C. Chadwick. 1,623,232; Apr. 5.
 Tong-operating safety appliance. W. C. Erwin and C. H. Sweet. 1,625,528; Apr. 39.
 Tongue. W. L. Bessolo. 1,630,822; May 31.
 Tongue. J. Chambers. 1,631,911; June 7.
 Tongue. C. D. Hyatt. 1,630,013; May 24.
 Tongue. J. H. Krum. 1,625,729; Apr. 19.
 Tongue. O. A. Layne. 1,639,228; Aug. 16.
 Tongue. J. A. Nelson. 1,637,388; Aug. 2.
 Tongue. F. D. Thompson. 1,614,328; Jan. 11.
 Tongue. H. M. Tunstall. 1,645,509; Oct. 11.
 Tongue. G. W. Yanny and W. D. Keller. 1,621,701; Mar. 22.
 Tongue and the like. G. E. Nix. 1,629,631; May 24.
 Tongue, Galley-stove. A. Westlake. 1,645,466; Oct. 11.
 Tongue, Ice-cream-can. S. B. Whiteside. 1,644,905; Oct. 11.
 Tongue, Lifting. E. M. Morris. 1,627,524; May 3.
 Tongue, Multiple-size. R. Adams. 1,652,551; Dec. 13.
 Tongue or wrench. J. Grant. 1,614,610; Jan. 18.
 Tongue, Pipe. S. T. Smith. 1,638,371; Aug. 9.
 Tongue, Pipe. C. E. Wilcox. 1,627,260; May 3.
 Tongue, Self-adjusting jaw-bolt. B. Christianson. 1,617,703; Feb. 15.
 Tongue, Self-closing. R. Adams. 1,647,977; Nov. 8.
 Tongue, Shocking. E. R. Borr. 1,642,639; Sept. 13.
 Tongue for wagons, binders, and the like. C. Hetrick. 1,617,849; Feb. 15.
 Tongue support. W. H. Silver. 1,653,673; Dec. 27.
 Tongue-removing apparatus. J. L. Waring. 1,615,494; Jan. 25.
 Tongue-tongue. A. E. Fingerhut. 1,653,953; Dec. 27.
 Tool. W. Baier. 1,630,414; May 31.
 Tool. W. Bartels. 1,619,395; Mar. 1.
 Tool. G. L. Bessolo. 1,651,577; Dec. 6.
 Tool. G. O. Carlson. 1,643,835; Sept. 27.
 Tool. C. E. Conner. 1,636,853; July 26.
 Tool. C. S. Deffenbaugh. 1,651,258; Nov. 29.
 Tool. J. B. Dreesen. 1,633,077; June 21.
 Tool. W. P. Finkle. 1,622,192; Mar. 22.
 Tool. E. Hanson. 1,645,753; Oct. 18.
 Tool. E. and J. K. Hoge. 1,635,998; July 19.
 Tool. J. A. Hooben. 1,627,435; May 3.
 Tool. S. A. Lind. 1,623,689; Apr. 5.
 Tool. L. Ottinger. 1,648,189; Nov. 8.
 Tool. H. O. Peterson. 1,652,681; Dec. 13.
 Tool. T. A. Plehn and G. Heer. 1,641,824; Sept. 6.
 Tool. J. W. Singley. 1,615,144; Jan. 18.
 Tool. Z. J. Soucy. 1,649,496; Nov. 15.
 Tool. C. Strobel. 1,635,993; July 12.
 Tool. J. Szakacs. 1,643,861; Sept. 27.
 Tool. L. Vinheroets. 1,625,344; Apr. 19.
 Tool. L. E. Watson. 1,652,075; Dec. 6.
 Tool, Adjusting. T. S. Kemble. 1,652,246; Dec. 18.
 Tool and electric bulb, Combined. J. A. Humm. 1,639,869; Aug. 23.
 Tool and preparing automobile bodies for finishing, Abrading. R. R. Carnowsky and J. T. Stratman. 1,646,852; Oct. 25.
 Tool, Automatic machine. L. G. Daniels. 1,651,948; Dec. 6.
 Tool, Automatic machine. L. G. Daniels. 1,651,949; Dec. 6.
 Tool, Automobile. B. J. Catron. 1,647,343; Nov. 1.
 Tool, Battery-repair. L. A. Costello. 1,647,395; Nov. 1.
 Tool, Boiler. H. A. Lacerda. 1,637,949; Aug. 2.
 Tool, Boring and grinding. M. L. Williams. 1,646,892; Oct. 25.
 Tool, Bottle-capping. H. J. and R. W. Lebherz. 1,643,076; Sept. 20.
 Tool. Bottle-capping. H. J. and R. W. Lebherz. 1,651,720; Dec. 6.
 Tool box. A. Fiss. 1,652,619; Dec. 13.
 Tool box. E. M. Hixon. 1,652,984; Dec. 13.
 Tool-box, tray and partition therefor. S. W. Yarder. 1,614,910; Jan. 18.
 Tool brace. R. D. Hutson. 1,623,541; Apr. 5.
 Tool brace, Reversible. C. R. Polen. 1,634,300; July 5.
 Tool, Brad driving and extracting. A. L. Kern. 1,633,533; June 21.
 Tool, Brushing-removing. C. R. Anderson. 1,649,437; Nov. 15.
 Tool, Carpenter's combination. T. M. Shearer. 1,641,831; Sept. 6.
 Tool, Carpenter's wrecking. G. W. Basore. 1,646,894; Oct. 25.
 Tool, Circular forming. H. Zeidler. 1,632,528; June 14.
 Tool, Combination. M. H. Belcher. 1,644,705; Oct. 11.
 Tool, Combination. J. Beretz. 1,619,151; Mar. 1.
 Tool, Combination. L. Chery. 1,623,116; May 10.
 Tool, Combination. C. W. Coburn. 1,650,493; Nov. 22.
 Tool, Combination. A. M. Esterline, L. E. Burns, and W. L. Esterline. 1,642,493; Sept. 13.
 Tool, Combination. T. S. Hutchison. 1,636,637; July 19.
 Tool, Combination. R. Klabe. 1,620,262; Mar. 8.
 Tool, Combination. A. Nowka and W. Livingston. 1,647,576; Nov. 1.
 Tool, Combination. E. P. Perrin. 1,644,352; Oct. 4.
 Tool, Combination. N. Vello. 1,625,064; Apr. 19.
 Tool, Combination. O. Willman. 1,616,180; Feb. 1.
 Tool, Combined. W. F. Loeffler. 1,652,722; Dec. 13.
 Tool, Concrete-working. H. T. Rogers. 1,645,873; Oct. 18.
 Tool container. W. C. Clifford. 1,632,172; June 14.
 Tool, Cutter-pin. P. J. Dandeneau. 1,649,513; Nov. 15.
 Tool, Counter-boring. E. Gairing. 1,648,802; Nov. 8.
 Tool cross feeds, Automatic controlling mechanism for machine. C. H. Norton. 1,653,322; Dec. 27.
 Tool, Cutting. C. D. Heilery. 1,649,899; Nov. 22.
 Tool, Cutting-off. E. F. G. Gibbs. 1,647,989; Nov. 8.
 Tool, Cylinder-head-lifting. J. V. Critchley. 1,635,259; July 12.
 Tool, Cylinder-honing. W. A. Jennings. 1,647,133-4; Nov. 1.
 Tool, Demountable-rim. W. N. Booth. 1,652,161; Dec. 13.
 Tool, Drilling. P. Brunt. 1,641,113; Aug. 30.
 Tool, Drilling. S. Bullum. 1,640,644; Aug. 30.
 Tool, Drilling. G. Dornes, jr. 1,634,322; July 5.
 Tool-driving spindle. E. Sandstrom. 1,630,541; May 31.
 Tool, Earth-boring. C. E. Reed. 1,636,663; July 19.
 Tool, Earth-boring. T. C. Whisler. 1,640,587; Aug. 30.
 Tool, Electric. W. Stumpf. 1,633,389; June 21.
 Tool, Electric. C. S. Weyandt. 1,651,793; Dec. 6.
 Tool, Electric-arc-welding. W. D. Christensen. 1,644,237; Oct. 4.
 Tool, Expanding. A. O. Starkin. 1,648,032; Nov. 8.
 Tool-feed mechanism. H. B. Newton. 1,618,463; Feb. 22.
 Tool, Fishing. R. I. Henderson. 1,635,622; July 12.
 Tool, Fishing. F. H. Stafford. 1,645,461; Oct. 11.
 Tool, Flexible handled. F. English. 1,653,995; Dec. 27.
 Tool, Flue-sheet. M. B. Roderick. 1,643,679; Sept. 27.
 Tool, Fluid-actuated. A. H. Katterjohn. 1,643,560; Sept. 27.
 Tool, Fluid-operated. A. H. Katterjohn. 1,637,001; July 26.
 Tool, Fluid-pressure. E. Penberthy. 1,629,117; May 17.
 Tool, Fluid-pressure. E. Penberthy. 1,652,637; Dec. 13.
 Tool, Fluid-pressure-actuated. E. H. Shaff. 1,631,163; June 7.
 Tool, Fluid-pressure-operated. E. H. Shaff. 1,639,313; Aug. 16.
 Tool, Fluid-pressure-operated. E. H. Shaff. 1,645,166; Oct. 11.
 Tool for applying fasteners to fruit-basket tops. E. M. Seifert. 1,643,612; Sept. 27.
 Tool for applying shoe buttons. S. Greenwald and S. Cascio. 1,637,042; Oct. 25.
 Tool for cleaning, chipping, or scaling surfaces, Rotary. W. B. Wright. 1,626,491; Apr. 26.
 Tool for cutting and removing pipe from wells. G. Kammerer. 1,625,414; Apr. 19.
 Tool for cutting and removing pipe from wells. J. B. Relfly and C. H. Stone. 1,623,391-2; Apr. 19.
 Tool for cutting pipe in wells. J. B. Relfly and C. H. Stone. 1,625,393; Apr. 19.
 Tool for drills, Combination lifting and lowering. O. M. Carter. 1,651,322; Nov. 29.
 Tool for faring holes. P. P. Lewis. 1,645,602; Oct. 18.
 Tool for golf greens and the like. R. S. Emmet. 1,653,994; Dec. 27.
 Tool for inserting or removing screws. J. Klewicz. 1,631,489; June 7.
 Tool for pipes, Filter-plate-removing. K. Veress. 1,651,790; Dec. 6.

- Tool for placing clearance wrappers on boiler tubes. J. A. MacDowell. 1,643,022; Sept. 20.
- Tool for removing and replacing motor parts. N. St. Peter. 1,652,063; Dec. 6.
- Tool for removing collars and the like. F. A. Mitchell. Re16,646; May 31.
- Tool for removing jar caps. R. B. Burleigh. 1,641,152; Sept. 6.
- Tool for removing transmission bands. G. T. Schesvold and A. M. Johnson. 1,641,994; Sept. 13.
- Tool for scraping bearings. R. O. Barnes. 1,640,175; Aug. 23.
- Tool for separating adhering sheets. W. T. Scott. 1,635,640; July 12.
- Tool for surfacing cylindrical bores. N. O. Allyn. 1,652,885; Dec. 13.
- Tool for the use of electricians. F. P. Gottschalk. 1,638,438; Aug. 9.
- Tool for tube wells, joint and jointing. C. Day. 1,652,562; Dec. 13.
- Tool for use in leveling, planing, and/or smoothing wood and other like surfaces. G. Staehle. 1,652,915; Dec. 13.
- Tool for use in oil wells, fishing. J. O. Johnson. 1,646,965; Oct. 25.
- Tool for wrapping wire. J. Fisher. 1,633,401; June 21.
- Tool. Garden. A. Herman. 1,652,478; Dec. 13.
- Tool. Garden. J. M. Pitts. 1,650,463; Nov. 22.
- Tool. Garden. R. B. Woodall. 1,632,260; June 14.
- Tool grinder, Adjustable auto. R. W. Peterson. 1,647,248; Nov. 1.
- Tool-grinding machine. Y. L. Smith. 1,647,203; Nov. 1.
- Tool. Guide. J. P. Snapp. 1,636,332; July 19.
- Tool. Hand. W. A. Bernard. 1,627,307; May 3.
- Tool. Hand. W. A. Bernard. 1,636,088; July 19.
- Tool. Hand. E. O. Estwing. Re16,820; Dec. 20.
- Tool. Hand. F. H. Winslow and B. Reader. 1,642,569; Jan. 13.
- Tool handle. T. L. Crook. 1,648,798; Nov. 8.
- Tool handle. S. R. Emberg. 1,626,671; May 3.
- Tool handle. L. W. Schleicher. 1,642,388; Sept. 13.
- Tool head. W. M. Brown. 1,650,422; Nov. 22.
- Tool-head fastening. J. P. and H. P. Hebert. 1,642,814; Sept. 20.
- Tool. Headlight-lens rim. A. P. St. Aubin. 1,650,807; Nov. 29.
- Tool holder. H. Blidsoe. 1,633,239; June 21.
- Tool holder. A. B. Cronquist. 1,645,319; Oct. 11.
- Tool holder. C. M. Delany. 1,652,195; Dec. 13.
- Tool holder. G. W. Dover. 1,643,380; Nov. 8.
- Tool holder. M. E. Gorman. 1,647,441; Nov. 1.
- Tool holder. L. W. Jones. 1,647,831; Nov. 1.
- Tool holder. C. F. Randolph and N. Marcalus. 1,637,785; Aug. 2.
- Tool holder. J. H. Smith. 1,629,547; May 24.
- Tool holder, Boring. T. B. Tiefenbacher. 1,647,590; Nov. 1.
- Tool holder for cutting off pieces of work. E. Bugatti. 1,636,898; July 26.
- Tool holder for planers. F. E. Cardullo. 1,615,787; Jan. 23.
- Tool holder, Kitchen. F. W. Bleckley. 1,614,342; Jan. 11.
- Tool holder, Offset. J. Ryan. 1,635,437; July 12.
- Tool holder with side clamp. O. Severson. 1,646,494; Oct. 25.
- Tool-holding device. L. Hughes. 1,629,213; May 17.
- Tool, Hydraulic vibratory drilling. J. P. Fisher. 1,646,959; Oct. 25.
- Tool, Impact. E. H. Shaft. 1,633,501; June 21.
- Tool, Interchangeable boring and counterboring. B. Gairing. 1,620,536; Mar. 8.
- Tool, Jiffy band. A. R. Nelson. 1,648,004; Nov. 8.
- Tool joint. E. C. Weisgerber. 1,637,628; Aug. 2.
- Tool joint. E. C. Wilson. 1,618,254; Feb. 22.
- Tool-locking device. J. Branicik. 1,652,233; Dec. 13.
- Tool, Machine. A. R. Brewer. 1,634,534; July 5.
- Tool, Machine. C. F. Randolph. 1,634,384; July 5.
- Tool, Metal-cutting. S. M. Blanch and G. W. Fleming. 1,645,786; Oct. 18.
- Tool, Milling. E. W. Abbott. 1,636,032; July 19.
- Tool, Miner's hand. C. G. Murphy. 1,640,089; Aug. 23.
- Tool, Mining. R. B. Metzner. 1,643,221; Sept. 20.
- Tool, Mining-machine. E. O'Toole. 1,634,434; July 5.
- Tool mounting and controller, Cutting. W. W. Vosper. 1,635,447; July 12.
- Tool, Nail-driving. L. J. Winchell. 1,644,409; Oct. 4.
- Tool, Nail-splitting. W. B. Carolus. 1,653,340; Dec. 20.
- Tool-operating mechanism. G. E. Greenleaf, H. L. Blood, and R. H. Rausch. 1,640,767; Aug. 30.
- Tool operator, Oil-well. C. T. Dougherty. 1,647,961; Nov. 1.
- Tool or apparatus for applying coating. J. J. Preble. 1,644,081; Oct. 4.
- Tool or fixture, Precision. O. Kylin. 1,616,053; Feb. 1.
- Tool, Percussive. F. A. Jimerson. 1,637,192; July 26.
- Tool, Percussive hand. R. Goldschmidt. 1,620,201; Mar. 8.
- Tool, Percussive pneumatic. G. Elster. 1,636,813; July 26.
- Tool, Pipe-threading. L. I. Oblinger. 1,648,502; Nov. 8.
- Tool, Piston. G. E. Weaver. 1,638,789; Aug. 9.
- Tool, Piston-ring. W. A. Madden. 1,645,200; Oct. 11.
- Tool, Plug-inserting. H. T. Hughes. 1,633,330; June 21.
- Tool, Pneumatic. W. J. Guyer. 1,644,581; Oct. 4.
- Tool, Pneumatic. K. T. Jasper. 1,613,172; Jan. 4.
- Tool, Pneumatic. C. Saulia. 1,640,470; Aug. 30.
- Tool, Pneumatic. F. M. Slater. 1,641,357; Sept. 6.
- Tool, Pneumatic clamping. C. P. Trimble. 1,653,827; Dec. 27.
- Tool, Pneumatic percussive. E. W. Stevens. 1,629,945; May 24.
- Tool, Pneumatically-actuated. D. L. Oulton. 1,652,493; Dec. 13.
- Tool, Pneumatically-operated percussive hand. C. H. Stevens. 1,621,882; Mar. 15.
- Tool, Portable grinding. E. A. Hall. 1,636,580; July 19.
- Tool, Portable hand. F. Schneider. 1,634,801; July 5.
- Tool, Portable hand. F. Schneider. 1,650,911; Nov. 29.
- Tool, Portable surface-cleaning. F. E. Aurand. 1,648,888; Nov. 15.
- Tool post. F. Müller. 1,626,953; May 3.
- Tool, Power. C. A. Davis. 1,635,463; July 12.
- Tool, Rafter-framing. E. Anderson. 1,644,624; Oct. 4.
- Tool, Reaming and counterboring. J. H. Smith. Re-16,817; Dec. 13.
- Tool, Redfanning. A. Fountain, F. Balzarini, and T. Thiel. 1,639,173; Aug. 16.
- Tool-removing device. L. Kiehl. 1,651,279; Nov. 29.
- Tool, Repair. J. L. Hutchings. 1,617,812; Feb. 15.
- Tool, Retainer. H. C. Gustafson. Re16,867; Apr. 5.
- Tool, Retainer. E. W. Stevens. 1,651,417; Dec. 6.
- Tool, Rim. J. H. Banka. 1,638,676; Aug. 9.
- Tool, Rim. R. T. Munna. Re16,726; Aug. 30.
- Tool, Rim. P. Olabarria. 1,632,191; June 14.
- Tool, Rim. B. Parks. 1,650,231; Nov. 22.
- Tool, Rim. E. F. Starke. 1,632,248; July 14.
- Tool, Rim contracting and expanding. J. A. Kennedy. 1,643,122; Sept. 20.
- Tool, Riveting. P. B. Depto. 1,652,770; Dec. 13.
- Tool, Rock-cutting. O. Rolfson. 1,653,663; Dec. 27.
- Tool, Roofing. W. E. Tekker. 1,642,390; Sept. 13.
- Tool, Roofing. C. G. Schulz. 1,626,575; Sept. 19.
- Tool, Rotary drilling. H. R. Hughes. 1,641,273; Sept. 6.
- Tool, Rotary drilling. F. L. O. Wadsworth. 1,635,592; July 12.
- Tool, Rotary motor. J. J. N. Van Hamersveld and H. L. Cook. 1,653,748; Dec. 27.
- Tool, Shaft-finishing. M. D. Maloney. 1,652,868; Dec. 13.
- Tool, Sheet-metal-layout. G. F. Waide. 1,636,025; July 19.
- Tool-slide mechanism. E. P. Bullard, jr. 1,631,579; June 7.
- Tool-steel-retaining device. G. H. Gilman. 1,642,948; Sept. 20.
- Tool, Surfacing. C. Freni. 1,642,416; Sept. 13.
- Tool, Tamping. W. C. Wolfe. Re16,775; Oct. 18.
- Tool, Tappet-adjusting. A. J. Brown. 1,654,319; Dec. 27.
- Tool, Threading. C. P. Wetmore. 1,643,263; Sept. 20.
- Tool, Threading. R. E. Flanders. 1,635,179; July 12.
- Tool, Threading. C. A. Johnson. 1,640,941-2; Aug. 30.
- Tool, Tire. F. D. Hite. 1,641,083; Aug. 30.
- Tool, Tire and rim. R. H. Hatfield. 1,639,887; Aug. 23.
- Tool, Tire-building. D. L. Williams. 1,645,081; Oct. 11.
- Tool, Tire-chain. C. M. Finley. 1,642,546; Sept. 13.
- Tool, Tire-grooving. J. A. Straits. 1,631,941; June 7.
- Tool, Tire-repair. J. M. Gibb and J. M. Jobe. 1,645,101; Oct. 11.
- Tool, Tire-rim. G. W. Berry. 1,647,122; Nov. 1.
- Tool, Tracing. L. J. Homan, jr. 1,643,302; Sept. 27.
- Tool, Trap-placing. C. C. Curtis. 1,638,184; Aug. 9.
- Tool, Trimming. J. J. Barry. 1,648,931; Nov. 15.
- Tool, Universal and automatic machine. A. Schwob. 1,637,714; June 28.
- Tool, Valve. H. M. Susdorf. 1,647,204; Nov. 1.
- Tool, Valve-seat-refacing. L. O. Beard. 1,639,835; Aug. 23.
- Tool, Valve-spring removing and replacing. C. E. Daniels. 1,636,046; July 19.
- Tool, Wall-paper-removing. A. B. Russell. 1,617,924; Feb. 15.
- Tool, Waste-pipe. C. E. Dunham. 1,643,638; Sept. 27.
- Tool, Weeding. T. Gentsch. 1,644,426; Oct. 4.
- Tool, Welding. G. W. Duncan. 1,639,688; Aug. 23.
- Tool, Welding. R. Matting. 1,632,411; June 14.
- Tool, Well-drilling. E. W. McDonald. 1,647,240; Nov. 1.
- Tool, Well-drilling. E. H. Robinson. 1,634,686; July 5.
- Tool, Well fishing. Hess, T. F. 1,649,693; Nov. 15.
- Tool, Wire and disk wheel split-ring. S. M. Clement. 1,650,325; Nov. 22.
- Tool, Wire-splicing. W. D. Stetson. 1,645,668; Oct. 18.
- Tool, Wire twisting and cutting. G. W. Mattson. 1,641,822; Sept. 6.
- Tool, Wire-tying. F. W. Huempfer. 1,636,741; July 26.
- Tool with key pocket, Rotary. A. G. Decker. 1,647,396; Nov. 1.
- Tool with spindle latch and hand-operated chuck. Portable wire-driven rotary. A. G. Decker. 1,649,060; Nov. 15.
- Tool, Wrecking. J. E. Hoffman. 1,634,191; June 28.
- Tools, Device for exhibiting. E. Gairing. 1,638,928; Aug. 16.
- Tools, Device for lubricating pneumatic. O. Vetter. 1,650,355; Nov. 25.
- Tools, Device for producing counterpressure in pressing. H. Skov. 1,614,404; Jan. 11.
- Tools, Extensible chuck for boring. R. H. Henderson. 1,644,832; Oct. 11.

- Tools, Feed mechanism for. B. M. W. Hanson. 1,613,350; Jan. 4.
- Tools, Governor for pressure-fluid-operated. E. H. Shaff. 1,640,620; Aug. 30.
- Tools, Governor for pressure-fluid-operated. E. H. Shaff. 1,650,048; Nov. 22.
- Tools, Handle for. W. H. Matthai. 1,620,480; Mar. 8.
- Tools, Handle for pneumatically operated. F. A. Jimer-son. 1,614,130; Jan. 11.
- Tools, Jar for fishing and drilling. C. T. Fleming. 1,655,000; Dec. 20.
- Tools, Liner for cable-engaging. F. E. Crotto. 1,649,890; Nov. 15.
- Tools, Making. K. Potschner. 1,639,269; Aug. 16.
- Tools, Reversing mechanism for machine. F. E. Phillips. 1,648,820; Nov. 8.
- Tools, Rotatable work support for machine. C. A. Stick-ney. 1,653,318; Dec. 20.
- Tools, Throttle valve for pneumatic. A. E. Hendricks. 1,644,523; Oct. 4.
- Tools, Tool feed for machine. W. F. Groene. 1,639,995; Aug. 23.
- Tools, Valve for pneumatic. W. A. Smith, jr. 1,636,651; July 19.
- Tools, Way guard for machine. E. P. Burrell, and J. N. Van Hamersveld. Re16,534; Jan. 11.
- Tools, Wheel head for machine. J. A. Doane. 1,634,402; July 5.
- Tooth and bridge work, Artificial. H. D. Chipps. 1,633,660; June 26.
- Tooth, Artificial. G. O. Burlew. 1,633,241; June 21.
- Tooth, Artificial. E. P. Cressler. 1,646,232; Oct. 18.
- Toothbrush. D. J. Beynon. 1,616,484; Feb. 8.
- Toothbrush. J. B. Butler. 1,639,880; Aug. 23.
- Toothbrush. J. M. Calkins. 1,651,251; Nov. 29.
- Toothbrush. E. L. H. Cosby. 1,631,013; May 31.
- Toothbrush. F. L. Dailey. 1,646,082; Oct. 18.
- Toothbrush. W. R. Dougan. 1,650,200; Nov. 22.
- Toothbrush. S. E. Douglass. 1,620,330; Mar. 8.
- Toothbrush. F. L. Gullickson. 1,625,537; Apr. 19.
- Toothbrush. P. M. Krantz. 1,647,453; Nov. 1.
- Toothbrush. S. A. Lazarus. 1,643,217; Sept. 20.
- Toothbrush. M. W. Lederer. Des. 73,662; Oct. 18.
- Toothbrush. C. Neumerkel. 1,645,955; Oct. 18.
- Toothbrush. A. R. L. Read. 1,618,475; Feb. 22.
- Toothbrush. A. R. L. Read. 1,636,836; July 26.
- Toothbrush. R. E. Straehly. Des. 73,245; Aug. 9.
- Toothbrush. R. E. Straehly. 1,632,859; June 21.
- Toothbrush. W. H. Vatcher. 1,632,102; June 14.
- Toothbrush. B. M. Withycombe. Re16,802; Nov. 29.
- Toothbrush and paste holder. W. H. Young. 1,644,049; Oct. 4.
- Toothbrush and paste holder, Combined. E. T. S. Cliffe. 1,633,987; Dec. 27.
- Toothbrush cover. T. W. Bigney. 1,653,540; Dec. 20.
- Toothbrush, Fountain. S. Perelman. 1,615,999; Feb. 1.
- Toothbrush holder. J. P. Hainzoglans. 1,613,655; Jan. 11.
- Toothbrush holder. R. E. Jordan. Des. 72,998; July 5.
- Toothbrush holder. C. Valtulis. 1,633,834; June 28.
- Toothbrush, Motor-driven. G. W. Baird and A. Lamb. 1,631,394; June 7.
- Toothbrush, Novelty. S. A. Neederman. 1,619,212; Mar. 1.
- Toothbrush, Rotary. B. V. Stoll. 1,631,897; June 7.
- Toothbrushes and container for same. J. Magee. 1,619,946; Mar. 8.
- Toothbrushes, Container for. H. M. Weinberg. 1,651,496; Dec. 6.
- Tooth-cleaning device. B. Kuhne. 1,624,054; Apr. 12.
- Tooth cutter, Baby's. R. A. Tonks. Des. 72,292; Mar. 22.
- Tooth facings. G. Coutif. 1,638,830; Aug. 16.
- Tooth guard. J. L. Shapiro. 1,644,284; Oct. 4.
- Tooth, Interchangeable. E. P. Cressler. 1,613,744; Jan. 11.
- Tooth-paste dispenser. R. B. Tracy. 1,642,797; Sept. 20.
- Tooth-paste holder. H. Lillford. 1,632,087; June 14.
- Tooth-paste holder. E. W. Price. 1,653,414; Dec. 20.
- Toothpick. H. Zimmerman. 1,654,230; Dec. 27.
- Toothpick dispenser. M. V. Derrick. 1,648,448; Nov. 8.
- Toothpick dispenser, Sanitary. F. V. Huggins. 1,653,286; Dec. 20.
- Toothpick holder. F. F. Backstrom. 1,618,627; Feb. 22.
- Toothpick holder. W. F. Gage. 1,636,598; July 19.
- Toothpick holder. M. Karagozian. Des. 72,017; Feb. 15.
- Toothpick holder. C. March. 1,635,947; July 12.
- Toothpicks and the like, Machine for making. G. P. Stanley. 1,613,623; Jan. 11.
- Toothed element, Nonmetallic. R. Spronger. 1,643,185; Sept. 20.
- Tow. J. L. Kleinman. 1,616,224; Feb. 1.
- Tow. F. S. Upham. 1,629,326; May 17.
- Tow construction. J. H. Bourgon. 1,635,358; July 12.
- Tow construction. J. H. Bourgon. 1,640,592; Aug. 30.
- Tow construction. J. H. Bourgon. 1,645,582; Oct. 18.
- Tow construction. S. Smith. 1,650,515; May 31.
- Tow omnibus. R. T. Senter. 1,653,066; Dec. 20.
- Tow, Ropes and covering same. H. S. Bristol. 1,616,108; Feb. 1.
- Tow spinner. M. Weinberg. 1,642,280; Sept. 13.
- Tow, Spinning. W. A. Vinson. 1,629,135; May 17.
- Tow, Walking. L. L. Mallard. 1,630,348; May 31.
- Torch. C. L. Bastian and J. Apst. 1,639,450; Aug. 16.
- Torch. L. W. Close. 1,613,819; Jan. 11.
- Torch. E. J. Engstrom and J. W. Benes. 1,639,169; Aug. 16.
- Torch. W. H. McNutt. 1,638,498; Aug. 9.
- Torch. G. A. Morrison. 1,633,265; June 21.
- Torch, Alcohol. W. Olsen. 1,642,260; Sept. 13.
- Torch, Aseptic lighting. W. Geulen. 1,625,356; Apr. 19.
- Torch burner, Welding. C. E. Chapman. 1,635,606; July 12.
- Torch for exhaust machines, Tipping. H. D. Madden and J. J. Higgins. 1,647,644; Nov. 1.
- Torch, Gasoline. G. B. Schmidt. 1,620,695; Mar. 15.
- Torch mixer. G. L. Walker. 1,651,854; Dec. 6.
- Torch, Preheating. H. A. Anderson. 1,614,640; Jan. 18.
- Torch tips, Making. E. H. Smith. 1,644,157; Oct. 4.
- Torch tips, Making. E. H. Smith. 1,651,232; Nov. 29.
- Torch tips, Making oxyfuel. E. H. Smith. 1,634,274; July 5.
- Torch, Welding. R. D. McIntosh. 1,625,128; Apr. 19.
- Torch, Welding. A. Messer. 1,645,337; Oct. 11.
- Torches, Turret tip for. C. J. Coberly. 1,639,328; Aug. 16.
- Torchère. O. B. Bach. Des. 72,136; Mar. 8.
- Torchère. O. B. Bach. Des. 72,341; Apr. 5.
- Torchère. O. B. Bach. Des. 72,345; Apr. 5.
- Torchère. O. B. Bach. Des. 73,467; Sept. 20.
- Toric articles, Packaging. E. H. Angier. 1,640,022; Aug. 23.
- Toric-lens axis, Marking a. L. W. Bugbee. 1,642,575; Sept. 13.
- Torpedo. L. J. Barry. 1,630,159; May 24.
- Torpedo. J. H. Hammons, jr. 1,641,165; Sept. 6.
- Torpedo. C. Kesses. 1,636,307; July 19.
- Torpedo, Flying. C. Kesses. 1,648,904; Nov. 15.
- Torpedo hook. O. Bond. 1,638,678; Aug. 9.
- Torpedo, Railway signal. F. Dutcher. 1,631,857; June 7.
- Torques arms or the like, Connection for. F. J. Shook. 1,629,178; May 17.
- Torque-cushioning device. R. C. Wilson. 1,617,931; Feb. 15.
- Torque-cushioning means. H. P. Troendly. 1,636,262; July 19.
- Torque transmission mechanism. R. S. Miller. 1,636,009; July 19.
- Torque-transmitting member, Flexible. A. S. Macdonald. 1,647,114; Oct. 25.
- Torsion balance, Eötvös's. S. Rybár. 1,617,823; Feb. 15.
- Tortilla machine. R. Z. Ball. 1,613,867; Jan. 11.
- Total and subtotal mechanism. A. Kottmann. 1,647,529; Nov. 1.
- Towline. H. R. Benson. 1,649,654; Nov. 15.
- Tow rope. A. P. Denis. 1,640,183; Aug. 23.
- Tow rope. G. M. and C. F. Pete. 1,633,792; June 28.
- Towing and hauling device. C. Sagar. 1,632,922; June 21.
- Towing device. I. E. Boekenogen and E. R. Ames. 1,657,575; Mar. 22.
- Towing device. J. M. Brown. 1,650,599; Nov. 29.
- Towing device with safety device against capsizing for tugs. T. Klüver. 1,621,168; Mar. 15.
- Towing mechanism, Vehicle. A. S. H. Bender. 1,651,365; Dec. 6.
- Towing vessels on inland waterways, Plant for. A. H. Muel. 1,651,538; Dec. 6.
- Towel. B. Clarke. Des. 72,349; Apr. 5.
- Towel. B. S. G. Elliott. Des. 72,362; Apr. 5.
- Towel. W. E. Heitland. Des. 72,946; June 28.
- Towel. E. C. Pease. 1,615,721; Jan. 25.
- Towel. W. Reiss. Des. 73,541; Sept. 27.
- Towel. B. A. Wilson. Des. 72,999; Apr. 5.
- Towel dispenser, Paper. J. P. Leidecker. 1,640,043; Aug. 23.
- Towel-folding machine. G. A. Steiner. 1,618,391; Feb. 22.
- Towel holder. W. Choinski. 1,640,820; Aug. 30.
- Towel holder. A. L. Overholt. 1,643,084; Sept. 20.
- Towel holder. F. R. Rosner. 1,646,068; Oct. 18.
- Towel or the like. B. V. Flannery. Des. 73,167; Aug. 2.
- Towel or the like. B. V. Flannery. Des. 73,562; Oct. 4.
- Towel, Paper. A. Ek. 1,645,189; Oct. 11.
- Towel rack and clothesline, Combined. O. R. Betts. 1,620,590; Mar. 8.
- Towel rack, Reversible. G. E. Harris. 1,634,746; July 5.
- Towels, Laundering. J. N. Borroughs. 1,653,542; Dec. 20.
- Tower. Baffle. C. M. Alexander. 1,651,354; Dec. 6.
- Tower, Cooling. F. M. Doyle. 1,647,281; Nov. 1.
- Tower, Extension. W. M. Baldwin. 1,638,611; Aug. 9.
- Tower, Extension. R. Royer and J. A. Sognis. 1,644,613; Oct. 4.
- Towers, Anchor footing for steel. J. W. May. 1,647,925; Nov. 1.
- Towers, Anchor footing for structural. E. E. Buechele and S. A. Martin. 1,619,651; Mar. 1.
- Towers, Joint for structural. B. W. Connelly. 1,641,801; Sept. 6.
- Toy. T. R. Arden. 1,652,137; Dec. 6.
- Toy. H. C. Barker. 1,624,855; Apr. 12.
- Toy. F. C. Bender. 1,612,794; Jan. 4.
- Toy. J. J. Dahlstrom. 1,621,353; Mar. 15.
- Toy. J. Dellinger. 1,627,319; May 8.
- Toy. G. W. Ferguson. 1,613,349; Jan. 4.
- Toy. G. W. Ferguson. 1,618,179; Feb. 22.
- Toy. W. A. Fuld. 1,654,327; Dec. 27.
- Toy. P. E. Gillespie. 1,652,934; Dec. 13.
- Toy. W. D. Good. 1,635,835; July 12.
- Toy. H. L. Holloway. 1,614,566; Jan. 11.

- Toy. C. W. Hucksins. 1,649,533; Nov. 15.
 Toy. C. A. Kenney. 1,636,371; July 19.
 Toy. S. K. Kotoldis. Des. 71,917; Jan. 25.
 Toy. F. J. Lemieux. 1,641,175; Sept. 6.
 Toy. F. J. Lemieux. 1,645,411; Nov. 8.
 Toy. I. Marks. 1,647,369; Nov. 1.
 Toy. L. Marx. 1,621,266; Mar. 15.
 Toy. W. D. McLaughlin and D. J. Wilkens. 1,646,791; Oct. 25.
 Toy. T. W. Miller. 1,651,990; Dec. 6.
 Toy. T. W. Miller. 1,651,993; Dec. 6.
 Toy. F. Mucci. Des. 73,328; Aug. 23.
 Toy. B. Mueller. 1,646,830; Oct. 25.
 Toy. C. H. Pajean. 1,619,630; Mar. 1.
 Toy. G. H. Parsons. 1,629,635; May 24.
 Toy. C. E. Richardson. 1,635,496; June 21.
 Toy. H. Root. 1,635,223; July 1.
 Toy. E. Schliederer. 1,634,756; July 5.
 Toy. W. H. Sherrod. 1,624,986; Apr. 19.
 Toy. H. J. Short. Des. 71,946; Feb. 1.
 Toy. W. T. Wallace. 1,641,209; Sept. 6.
 Toy. O. T. Weaver. 1,634,223; June 28.
 Toy. C. A. Wetzell. Des. 72,394-8; Apr. 5.
 Toy. A. Zudek. 1,648,928; Nov. 15.
 Toy. F. Zalka. Des. 73,886; Nov. 15.
 Toy. acrobat. E. V. Babbitt. 1,650,785; Nov. 29.
 Toy. Acrobatic. J. O. Cazes. 1,614,454; Jan. 18.
 Toy. Aerial. H. A. Abrams. Des. 72,140; Feb. 1.
 Toy. Aerial. J. Heller. 1,651,273; Nov. 29.
 Toy. Aeronautic. L. H. Strayer. 1,625,167; Apr. 19.
 Toy. Aeroplane. L. Knight. 1,615,986; Feb. 1.
 Toy. aeroplane. K. C. Spatz. 1,641,607; Sept. 6.
 Toy. Aeroplane. L. G. Hicks. 1,634,846; July 5.
 Toy. Air-operated. I. E. Cohn. 1,647,902; Nov. 1.
 Toy. airplane. R. E. Dowd. 1,655,039; Dec. 20.
 Toy and exerciser. Combined. H. C. Smith. 1,648,745; Nov. 8.
 Toy and making same. Mechanical. C. Zabel. 1,641,653; Sept. 6.
 Toy and mounting therefor. Wind-operated. E. Ischinger. 1,645,820; Oct. 18.
 Toy and operating mechanism therefor. F. L. Thompson and C. A. Sloper. 1,621,140; Mar. 15.
 Toy and sound-emission device. Combined hollow rubber. K. J. Maywald. 1,638,664; Feb. 8.
 Toy animal. R. A. Butler. 1,630,165; May 24.
 Toy animal. C. S. Conlon. 1,614,829; Jan. 18.
 Toy animal. R. E. Ellett. Des. 72,007; Feb. 15.
 Toy. Animal. R. D. Grove. Des. 73,374; Aug. 30.
 Toy. Animal. C. W. Mot. 1,621,303; Mar. 22.
 Toy animal and rider. C. A. Wetzell. 1,613,425; Jan. 4.
 Toy apparatus. Musical-instruction. M. Downs. 1,637,478; Aug. 2.
 Toy, Aquatic. C. H. Budde. 1,622,570; Mar. 29.
 Toy auto device. H. E. Fouchel. 1,617,450; Feb. 15.
 Toy, Automobile. S. J. Berger. Des. 72,694; May 24.
 Toy automobile. O. Hitt. Des. 72,828; June 14.
 Toy automobile. F. Rosenbaum. 1,646,169; Oct. 18.
 Toy ball. R. L. Lee. 1,642,449; Sept. 13.
 Toy balloon. J. Gordon. Des. 74,106; Dec. 20.
 Toy balloon. J. E. Mulholland. Des. 72,381; Apr. 5.
 Toy balloon. H. Pemberton. 1,620,036; Mar. 22.
 Toy balloon frame. E. S. Eichenlaub. 1,620,331; Mar. 8.
 Toy balloon novelty. A. D. Wismar. Des. 73,630; Oct. 11.
 Toy balloons. Valve for. M. Perdue. 1,629,838; May 24.
 Toy bank. G. F. Rooke. Des. 71,945; Feb. 1.
 Toy bank. G. L. Swift. 1,651,936; Dec. 6.
 Toy, Barking. E. D. Swisher. 1,652,382; Dec. 13.
 Toy baseball. Mechanical. L. C. Barker. 1,626,778; May 8.
 Toy bicycle. M. Zanellato. 1,647,494; Nov. 1.
 Toy block. J. Srote. 1,642,901; Sept. 20.
 Toy boat. G. Churus. 1,613,941; Jan. 11.
 Toy boat. H. L. Cullison. 1,615,112; Jan. 18.
 Toy boat and its manufacture. R. F. Peck. 1,614,967; Jan. 18.
 Toy boats, Motor mechanism for. C. Arnold. 1,627,073; May 8.
 Toy bomb. J. S. Machin. 1,650,762; Nov. 29.
 Toy book. Mechanical. H. Druck. 1,640,399; Aug. 30.
 Toy building. H. Chase. 1,619,101; Mar. 1.
 Toy building block. F. W. Shaw. 1,638,081; July 19.
 Toy building blocks. G. Barger. 1,647,557; Nov. 1.
 Toy, Cane. M. A. Sweet. 1,641,057; Aug. 30.
 Toy casket. G. R. Cuddip. Des. 72,003; Feb. 15.
 Toy, Changeable-feature figure. H. G. Hose. 1,618,710; Feb. 22.
 Toy, Child's. A. E. Keeler. 1,622,198; Mar. 22.
 Toy, Clown and animal. E. Bocchino. Des. 72,083; Mar. 1.
 Toy, Combined walking and rocking. S. D. Partin. 1,652,182; Dec. 13.
 Toy construction element. A. C. Gilbert. Des. 73,604; Oct. 11.
 Toy couch. N. V. Winter. Des. 73,814; Nov. 8.
 Toy crane. T. R. Arden. 1,652,135-36; Dec. 6.
 Toy, Dancing. L. K. H. Thomson. 1,619,448; Mar. 1.
 Toy, Dancing figure. S. M. Moore. 1,625,955; Apr. 26.
 Toy, Detonating. H. Foersch. 1,632,179; June 14.
 Toy dog. P. De Lemme. Des. 72,991; July 5.
 Toy dog. N. W. Plooster. Des. 72,237; Mar. 15.
 Toy dog. M. R. Smith. Des. 72,193; Mar. 8.
 Toy doll. W. Blackwell. 1,613,157; Jan. 4.
 Toy, Drag. A. L. Higgins. 1,617,639; Feb. 15.
 Toy, Educational. J. H. Jacobs. 1,634,194; June 28.
 Toy, Educational and instructive. O. Zimmermann. 1,614,553; Jan. 18.
 Toy, Electric. H. C. Evelyn. 1,637,479; Aug. 2.
 Toy electric railway. L. Caruso. 1,614,874; Jan. 18.
 Toy electric railway. L. Caruso. 1,626,267; Apr. 26.
 Toy electric railway. L. Caruso. 1,631,245; June 7.
 Toy electric railway. L. Caruso. 1,647,172-3; Nov. 1.
 Toy electric range. R. Koenig. 1,632,445; June 14.
 Toy electric trains. Signal for. G. W. Taylor, jr. 1,649,043; Nov. 15.
 Toy electric trains, Track for. L. G. Handy. 1,636,416; July 19.
 Toy exerciser. W. H. Sherrod. 1,626,161; Apr. 26.
 Toy, Figure. G. Boggio. 1,638,910; Dec. 16.
 Toy, Figure. F. E. Buckberg. 1,636,042; July 19.
 Toy, Figure. M. P. Correa, jr. 1,631,918; June 7.
 Toy, Figure. F. J. Dick. 1,617,899; Feb. 15.
 Toy, Figure. J. A. Hampton. 1,643,066; Sept. 20.
 Toy, Figure. W. H. Johnson. 1,635,550; July 12.
 Toy, Figure. H. C. Krenly. 1,648,404; Nov. 8.
 Toy, Figure. J. H. Kutz. 1,651,282; Nov. 29.
 Toy figure. H. Mangold. 1,614,007; Jan. 11.
 Toy, Figure. G. R. McAlaster. 1,649,072; Nov. 15.
 Toy, Figure. H. W. Norberg. 1,633,456; June 21.
 Toy, Figure. D. Shaheen. 1,649,133; Oct. 15.
 Toy, Figure. J. Stelson. 1,649,623; Nov. 15.
 Toy, Figure. W. D. Tickle. 1,649,045; Nov. 15.
 Toy figure. A. P. Witten. Des. 73,592-3; Oct. 4.
 Toy, Figure. B. B. Wilson. 1,653,327; Dec. 20.
 Toy, Figure projecting. A. Robinson. 1,625,480; Apr. 19.
 Toy, Figure wheel walking. F. M. Mulligan. 1,621,996; Mar. 22.
 Toy, Figure wheeled. J. J. Becker. 1,643,917; Sept. 27.
 Toy, Figure wheeled. H. W. Dyer. 1,628,396; May 10.
 Toy, Figure wheeled. J. A. Ekelund. 1,633,809; June 28.
 Toy, Figure wheeled. F. C. Fuhrodt. 1,649,519; Nov. 15.
 Toy, Figure wheeled. L. Marx. 1,653,717; Dec. 27.
 Toy, Figure wheeled. A. M. Smolens. Des. 72,194; Mar. 8.
 Toy, Figure wheeled. E. A. Stier. 1,622,473; Mar. 29.
 Toy, Figure wheeled. A. L. Higgins. 1,650,615; May 31.
 Toy, Gun burster. Sounding-. L. H. Strayer. 1,632,518; June 14.
 Toy firearm. J. H. Willy. 1,624,086; Apr. 12.
 Toy, Flying. R. E. Dowd. 1,652,519; Dec. 13.
 Toy, Flying. A. Mascolo. 1,629,114; May 17.
 Toy, Flying. S. C. Wilson. 1,644,362; Oct. 4.
 Toy for playing with sand. K. Gutz. 1,649,221; Nov. 15.
 Toy game board. I. Haaz. 1,627,173; May 3.
 Toy, Goat and dorkie. W. D. Bludworth. Des. 72,470; Apr. 19.
 Toy, Gravity. B. M. Hawk. Ref. 791; Nov. 22.
 Toy, Gravity. M. Hawk. 1,617,846; Feb. 15.
 Toy, Gravity-operated figure. F. B. Ruwwe. 1,630,137; May 24.
 Toy greyhound. Mechanical. P. De Lemme. 1,646,814; Oct. 25.
 Toy gun. L. V. Aronson. 1,629,068; May 24.
 Toy gun. E. E. Dunnean. 1,652,892; Dec. 13.
 Toy gun. F. Henke. 1,644,058; Oct. 4.
 Toy gun. D. M. Smith. 1,619,275; Mar. 1.
 Toy gun. O. W. Thoren. 1,652,545; Dec. 13.
 Toy gun. W. A. Tidwell. 1,626,892; May 3.
 Toy guns, Missile for. W. A. Tidwell. 1,646,122; Oct. 18.
 Toy, Gymnastic. M. Alarcon. 1,629,945; May 24.
 Toy, Gymnastic. P. Esser. 1,641,477; Sept. 6.
 Toy, Gyrostat pan. C. Zabel. 1,626,904; May 3.
 Toy, Gyroscopic. F. M. Pierce. 1,634,470; July 5.
 Toy horse and novelty. A. M. Briggs. 1,627,426; May 3.
 Toy horse device. F. Hossell. 1,615,383; Jan. 25.
 Toy, Indefatigable. R. B. Storer. 1,643,371; Sept. 14.
 Toy, Indefatigable. J. F. Winkler. 1,635,969; July 12.
 Toy interfitting building blocks. Set of. E. Ladewig. 1,642,249; Sept. 13.
 Toy, Jointed figure. C. H. Pajean. Des. 72,964; June 28.
 Toy, Lighthouse. L. L. Mallard. 1,616,384; Feb. 1.
 Toy, Leaping pony. C. P. Busha. 1,643,371; Sept. 27.
 Toy, Mechanical. A. Bangter. 1,619,179; Mar. 1.
 Toy, Mechanical. P. P. Barie. 1,638,467; Aug. 9.
 Toy, Mechanical. J. J. Becker. 1,643,916; Sept. 27.
 Toy, Mechanical. J. J. Becker. 1,651,244; Nov. 29.
 Toy, Mechanical. S. I. Berger. 1,619,694; Mar. 1.
 Toy, Mechanical. L. D. Kroff. 1,626,040; Apr. 26.
 Toy, Mechanical. L. D. Kroff. 1,648,352; Nov. 8.
 Toy, Mechanical. F. L. Lindstrom. 1,654,336; Dec. 27.
 Toy, Mechanical. A. S. Littlefield. 1,641,977; Sept. 13.
 Toy, Mechanical. H. E. McCoy. 1,620,772; Mar. 15.
 Toy, Mechanical. H. H. Morgan. 1,623,388; Apr. 5.
 Toy, Mechanical. L. P. Perew. 1,613,403; Jan. 4.
 Toy, Mechanical. C. A. Wetzell. 1,613,424; Jan. 4.
 Toy, Mechanical. C. A. Wetzell. 1,644,047; Oct. 4.
 Toy, Mechanical. L. L. Wynn. 1,625,758; Apr. 19.
 Toy, Mechanical. W. E. Yates. 1,617,933; Feb. 15.
 Toy, Mechanical automobile. D. Heyman. 1,619,726; Mar. 1.
 Toy, Mechanical golf playing. T. R. Arden. 1,636,117; July 19.
 Toy, Mechanical jigger. T. R. Arden. 1,614,912; Jan. 18.

- Toy, Mechanically-moved. E. Keppner. 1,636,864; July 28.
- Toy, Mechanically-operated. C. Cross. 1,647,507; Nov. 1.
- Toy, Mechanically-operated. L. Marx. 1,625,326; Apr. 19.
- Toy, Mechanically-operated figure. E. Agnelli. 1,643,001; Sept. 20.
- Toy, Mechanically-operated figure. A. W. Ankeny. 1,631,451; June 7.
- Toy, Mechanically-operated figure. G. W. Miller. 1,635,948; July 12.
- Toy, Mechanically-operated figure. H. L. Miller. 1,616,462; Feb. 8.
- Toy, Mechanically-operated figure. B. F. Morgan. 1,604,537; Nov. 1.
- Toy, Mechanically-operated figure. A. H. and W. A. Pence. 1,628,331; May 10.
- Toy mechanism. E. Thum. 1,644,314; Oct. 4.
- Toy mechanism, Talking. F. Evans. 1,630,260-1; May 31.
- Toy motor. J. L. Craven. 1,631,016; May 31.
- Toy motor boat. P. E. Young. 1,620,709; Mar. 15.
- Toy, Movable feature figure. J. L. Centlivere. 1,632,272; June 14.
- Toy, Musical. M. Engler and E. A. Bendixon. 1,615,975; Feb. 1.
- Toy, Musical. A. Lees. 1,613,896; Jan. 11.
- Toy, Musical. E. A. Rudolph. 1,643,245; Nov. 8.
- Toy, Musical dancing. A. Varga. 1,615,663; Jan. 25.
- Toy navigator. H. F. Gordon. 1,619,668; Mar. 1.
- Toy novelty. W. O. Yancey. 1,615,924-5; Feb. 1.
- Toy novelty. W. O. Yancey. 1,640,171; Aug. 23.
- Toy or analogous article, Clapper noise-producing. I. Marks. Des. 73,752; Nov. 1.
- Toy, article of similar nature. F. B. Miller. Des. 73,534; Sept. 27.
- Toy or doll house construction. F. R. Walker. 1,629,424; May 17.
- Toy or similar article. G. L. Harrison. Des. 73,407; Sept. 6.
- Toy or similar article of manufacture. F. B. Wendel. Des. 73,546; Sept. 27.
- Toy parachute. H. Gay. 1,639,602; Aug. 16.
- Toy parachute. G. T. Turner. 1,618,613; Feb. 22.
- Toy parachute. L. von Zundel and C. E. Whiteman. 1,649,374; Nov. 15.
- Toy piano. G. H. Eckstein. 1,626,275; Aug. 26.
- Toy piano. G. H. Eckstein. 1,638,327; Apr. 9.
- Toy pile driver. C. Zabel. 1,633,155; June 21.
- Toy, Pinwheel. O. Kuester. 1,630,852; May 31.
- Toy pistol. H. Bregman. 1,619,184; Mar. 1.
- Toy pistol. S. Brown. 1,631,006; May 31.
- Toy pistol. R. A. Frisbie. 1,652,066; Dec. 18.
- Toy pistol. W. Grupka. 1,644,907; Oct. 14.
- Toy pistol. E. S. Peake. 1,647,577; Nov. 1.
- Toy pistol. A. D. Pepin and F. P. W. Haack. 1,613,329; Jan. 4.
- Toy plane. S. Harris. 1,618,925; Feb. 22.
- Toy pump. J. A. Ross. 1,635,978; July 12.
- Toy race course. M. B. Mills. 1,626,420; Apr. 26.
- Toy, Racing. H. E. McCoy. 1,641,639; Sept. 6.
- Toy, Racing. Mailbag ejector for. F. J. Pullis. 1,646,315; Oct. 18.
- Toy rattle. I. Cohn. 1,617,835; Feb. 15.
- Toy, Riding. D. Schaeffer. 1,624,627-8; Apr. 12.
- Toy riding horse. N. W. Plooster. Des. 73,145; July 26.
- Toy, Rocking. E. B. Neutwig. 1,638,951; Aug. 16.
- Toy, Rocking. A. Sundbeck. Des. 72,874-5; June 14.
- Toy, Rocking-horse. A. O. Berg. 1,622,079; Mar. 22.
- Toy, Roundabout. L. Marx. 1,630,091; May 24.
- Toy roundabout. L. Marx. 1,644,933; Oct. 11.
- Toy rubber shooter. H. E. Bell. 1,616,483; Feb. 8.
- Toy, Sailor. E. V. Babbitt. 1,623,039; Apr. 5.
- Toy, Self-propelling. L. W. Weiss. 1,623,144; Apr. 5.
- Toy, Self-righting. W. Birrell. 1,614,227; Jan. 11.
- Toy set. J. Forchheimer. 1,632,441; June 14.
- Toy, Sheet-material. C. E. Arundel. 1,620,053; Mar. 8.
- Toy, Single horse and cart. W. D. Bludworth. Des. 72,140; Mar. 8.
- Toy, Soldier. E. V. Babbitt. 1,621,574; Mar. 22.
- Toy soldier. E. V. Babbitt. 1,650,784; Nov. 29.
- Toy, Sounding. W. Bartholomew. 1,654,398; Dec. 27.
- Toy, Sounding. J. J. Becker. 1,651,245; Nov. 29.
- Toy, Sounding. M. Turudich. 1,643,759; Nov. 15.
- Toy, Sounding figure. B. E. Lloyd. 1,651,137; Nov. 29.
- Toy, Spinning. L. V. Aronson. 1,619,689; Mar. 1.
- Toy, Spinning. W. J. Kerr. 1,622,199; Mar. 22.
- Toy, Spinning. F. Lunge. 1,633,486; June 21.
- Toy steamboat. J. J. Becker. 1,643,915; Sept. 27.
- Toy stove. J. H. Hartman. 1,619,723; Mar. 1.
- Toy striking bag or the like. H. G. French. 1,637,561; Aug. 2.
- Toy structures, Roof-tile beam for. O. H. Straub. 1,621,178; Mar. 15.
- Toy stuffed figure. E. M. Willey. 1,644,317; Oct. 4.
- Toy, Stuffing machine. L. F. von Sazenhoffen. 1,649,271; Nov. 15.
- Toy, Tail-wagging. O. R. Starke. 1,635,770; July 12.
- Toy, Tail-wagging. F. Strauss and O. R. Starke. 1,639,442; Aug. 16.
- Toy, Target. S. I. Berger. Des. 72,664; May 17.
- Toy target. B. W. Trout. 1,652,843; Dec. 18.
- Toy telephone. C. H. Baker. 1,651,080; Nov. 29.
- Toy telephone, Musical. E. Bocchino. 1,651,508; Dec. 18.
- Toy telephone savings bank. L. Marx. 1,616,753; Feb. 8.
- Toy top. O. R. Dailey. 1,644,182; Oct. 4.
- Toy top. S. Kieler. 1,631,272; June 7.
- Toy top, Electrical illuminated. G. Mayer. 1,639,526; Aug. 16.
- Toy torpedo casings, Composition for. J. Martelli. 1,627,101; May 3.
- Toy trunks, Wire-terminal clip for. H. S. Becker. 1,620,423; Mar. 8.
- Toy train track. J. L. Cowen. Re16,580; Mar. 29.
- Toy, Trick. J. Leary. 1,613,176; Jan. 4.
- Toy trick box. A. C. Ralsner. 1,628,189; May 10.
- Toy truck. F. A. Lundahl. Des. 72,377; Apr. 5.
- Toy trumpet. I. Cohn. 1,623,168; Apr. 5.
- Toy trundle. R. Recatti. 1,626,756; May 3.
- Toy vehicle. A. S. Burke. 1,621,350; Mar. 15.
- Toy vehicle. G. Cashoty. 1,617,665; Feb. 15.
- Toy vehicle. R. de Filippis. 1,627,150; May 3.
- Toy vehicle. M. Forchheimer. 1,622,636; Mar. 29.
- Toy, Vehicle. W. I. Katow. 1,653,291; Dec. 20.
- Toy vehicle. S. M. Mourer. 1,632,308; June 14.
- Toy vehicle. D. Schaeffer. Des. 72,577; May 3.
- Toy vehicle. D. R. Stuart. 1,642,468; Sept. 13.
- Toy, vehicle, Automatically-reversible. H. P. Prosser. 1,643,903; Sept. 27.
- Toy vehicle, Hand-propelled. E. A. Calleson. 1,651,583; Dec. 6.
- Toy, Waddle walking. A. L. Whiteside. 1,633,146; June 21.
- Toy wagon. C. E. Morris. 1,642,591; Sept. 13.
- Toy wagon. F. F. Taylor. 1,650,163; Nov. 22.
- Toy wagon, Body for a. R. Williamson. Des. 73,461; Sept. 13.
- Toy, Walking. H. Allison. 1,617,698; Feb. 15.
- Toy, Walking. J. Mik. 1,649,910; Nov. 22.
- Toy, Walking. A. L. Whiteside. 1,633,147; June 21.
- Toy, Walking figure wheeled. C. H. Petskeyes. 1,654,051; Dec. 27.
- Toy water pistol. Celluloid. I. Cohn. 1,629,019; May 17.
- Toy, Wheeled. S. Kiper. 1,623,033; Mar. 29.
- Toy, Wheeled. N. Madison. 1,630,192; May 24.
- Toy, Wheeled. C. H. Pajean. Des. 72,778; May 31.
- Toy, Wheeled. T. E. Powers. Des. 72,866-7; June 14.
- Toy, Wheeled. G. E. Pritchett. 1,637,129; July 26.
- Toy, Wheeled. J. A. Sauer. Des. 72,497; Apr. 19.
- Toy, Wheeled. R. Troxell. 1,622,852; Mar. 29.
- Toy, Wheeled windmill. H. Zimmermann. 1,651,173; Nov. 29.
- Toy whirligig. A. Drauden. 1,646,278; Oct. 18.
- Toy, Whirligig. W. B. Reynolds and T. M. Barbee. 1,645,320; Oct. 18.
- Toy, Whirling. M. Schreiner. 1,613,331; Jan. 4.
- Toy whistle. E. Jacquemin. 1,626,198; Apr. 26.
- Toy, Windmill. M. De Cesare. 1,643,058; Sept. 20.
- Toy windmill. W. B. Scott. Des. 73,056; July 12.
- Toys, Frame or body of joint dolls and other articulated or jointed. A. Bucherer. 1,620,069; Mar. 8.
- Toys, Making jointed. S. Colledanchise. 1,636,589; July 19.
- Toys, Voice for. T. Hutnikow. 1,642,956; Sept. 20.
- Toys, Voice for. B. E. Lloyd. 1,649,243; Nov. 15.
- Trace carrier. S. J. Colton. 1,632,368; June 14.
- Tracing table, Projection. L. J. R. Holst. 1,633,253; June 21.
- Track-belt links, Grouter attachment for. R. H. White. 1,635,597; July 12.
- Track brake. G. Hannauer and E. M. Wilcox. 1,612,865; Jan. 4.
- Track brake. F. Jordan. 1,618,535; Feb. 22.
- Track brake, Variable-pressure. M. E. Barr. 1,627,137; May 3.
- Track circuits and train-control systems, Connector for. E. K. Post. 1,649,923; Nov. 22.
- Track clearer. O. C. Born and A. B. Dausen. 1,652,003; Dec. 13.
- Track construction. B. H. Lampert. 1,634,835; July 5.
- Track construction, Sectional. B. H. Lampert. 1,634,836; July 5.
- Track contactor, Directional. W. F. Bossert and J. C. Edwards. 1,615,186; Jan. 18.
- Track detector. G. C. Cleveland. 1,633,572; June 23.
- Track, Dog race. S. W. Mitchell, J. Maud, and C. F. Goldman. 1,619,150; Mar. 1.
- Track extension. T. S. Ray. 1,621,687; Mar. 22.
- Track gauge. A. G. Berkebile. 1,649,560; Nov. 15.
- Track-gauging device. S. Magaton. 1,615,714; Jan. 25.
- Track hangers, Connection for. P. M. Hassler. 1,646,244; Oct. 18.
- Track installation, System of. H. L. Rogers. 1,649,191; Nov. 15.
- Track jack. C. H. Shasteen. 1,646,770; Oct. 25.
- Track liner. F. R. Sining. 1,645,825; Oct. 18.
- Track-lining device. C. A. Disbrow and W. E. Gadd. 1,627,156; May 3.
- Track links, Rubber-tread attachment for. R. H. White. 1,635,596; July 12.
- Track, Portable. W. R. Zesinger. 1,650,254; Nov. 22.
- Track roller. W. Runge. 1,627,413; May 3.
- Track-scale trig loop. J. H. Brant. 1,621,150; Mar. 15.
- Track signal, Railway. F. W. Carter. 1,653,494; Dec. 20.
- Track structure. V. Angerer. 1,629,372; May 17.
- Track structure. W. L. Delker. 1,645,129; Oct. 11.

- Trackway. G. W. Ray. 1,650,041; Nov. 22.
 Trackways, Hanger for overhead. R. S. Northmore. 1,643,749; Sept. 27.
 Tracker bar. N. G. Baker. 1,619,690; Mar. 1.
 Tractor device. T. B. Campbell, Jr. 1,614,873; Jan. 18.
 Tractor device. A. H. Pennell. 1,617,271; Feb. 8.
 Tractor device. S. Read member for. W. Baker. 1,617,615; Feb. 15.
 Traction driving and power take-off mechanism. A. V. Hains. 1,652,475; Dec. 18.
 Traction hitch, Automatic. V. H. Lambert. 1,618,714; Feb. 22.
 Traction machine. O. J. Martinson. 1,627,984; May 10.
 Traction mechanism. M. P. Holmes. 1,614,081; Jan. 11.
 Traction motor. L. B. Neighbour. 1,636,828; July 26.
 Traction mounting for railway-type excavators, Creeping. S. R. W. M. Bager, O. F. Kaeser, and W. Lehman. 1,616,673; Feb. 8.
 Traction shoe. J. Messner. 1,629,519; May 24.
 Traction shoe. W. E. Wine. 1,634,639; July 5.
 Traction wheel. K. Probst. 1,634,683; July 5.
 Traction wheel. G. H. Reid. 1,618,949; Feb. 22.
 Traction wheel. L. E. Slauson. 1,629,126; May 17.
 Traction wheel. L. B. Slauson. 1,644,353; Oct. 11.
 Tractive device. G. Crawford. 1,626,738; May 3.
 Tractor. L. Blackmore. 1,651,367; Dec. 6.
 Tractor. A. N. Calkins. 1,631,243; June 7.
 Tractor. B. F. Childers. 1,644,978; Oct. 11.
 Tractor. P. H. Danly. 1,641,802-3; Sept. 6.
 Tractor. E. H. Dieckmann. 1,645,375; Sept. 27.
 Tractor. C. E. Duryea. 1,648,298; Nov. 8.
 Tractor. H. J. Heider. 1,652,358; Dec. 18.
 Tractor. H. C. Hubbell. 1,633,743; June 28.
 Tractor. A. C. Johnson. 1,633,212; June 21.
 Tractor. E. A. Johnson and P. H. Danly. 1,641,813; Sept. 6.
 Tractor. M. Moncreiffe. 1,624,110; Apr. 12.
 Tractor. W. F. Smith. 1,640,621; Aug. 30.
 Tractor. L. D. Stripling. 1,643,098; Sept. 20.
 Tractor. L. M. Thompson. 1,613,681; Jan. 11.
 Tractor. C. J. Travers. 1,650,668; Nov. 29.
 Tractor. S. T. Youtree. 1,616,295; Feb. 1.
 Tractor and implement construction. C. S. Brown. 1,645,224; Oct. 11.
 Tractor and plow hitch, Automatic. P. M. Heffernan. 1,640,237; Aug. 23.
 Tractor attachment. R. Bollheimer and E. T. Wilkens. 1,634,446; July 5.
 Tractor attachment. E. G. Calkins. 1,636,793; July 26.
 Tractor attachment. N. D. and J. A. Newton. 1,641,006; Aug. 30.
 Tractor attachment. B. F. B. Sewell. 1,623,815; Apr. 5.
 Tractor belts, Removable creeper for. A. Keggess. 1,621,371; Mar. 15.
 Tractor brake. T. J. Fletcher. 1,631,122; June 7.
 Tractor brake. E. Mehline. 1,638,357; Aug. 9.
 Tractor clutch control. E. Goodrich. 1,615,076; Jan. 18.
 Tractor clutches, Device for releasing. L. Hofstad. 1,614,001; Jan. 11.
 Tractor coupling device. G. W. Stone. 1,637,665; Aug. 2.
 Tractor control device. C. R. Ashbaugh. 1,651,986; Dec. 6.
 Tractor-cultivator combination. F. V. Donald. 1,641,158; Sept. 6.
 Tractor drawbar. B. R. Benjamin and C. R. Raney. 1,636,276; July 19.
 Tractor drawbar coupling. C. M. Porter. 1,627,998; May 10.
 Tractor-driven winches, Frame construction for. H. A. Clark. 1,638,243; Aug. 9.
 Tractor, Four-wheeled. F. V. Donald. 1,633,850; June 28.
 Tractor, Garden. F. V. Donald. 1,638,762; Aug. 9.
 Tractor guide. G. R. Knottwell. 1,633,334; June 21.
 Tractor guide. E. W. Skelton. 1,618,233; Feb. 22.
 Tractor guide. J. E. Smid. 1,632,858; June 21.
 Tractor hitch. E. E. Bashor and E. N. Wray. 1,620,937; Mar. 15.
 Tractor hitch. F. H. Berghorn. 1,613,783; Jan. 11.
 Tractor hitch. T. Brown. 1,640,642; Aug. 30.
 Tractor hitch. W. Foley. 1,634,417; Dec. 27.
 Tractor hitch. J. P. Livingston. 1,622,328; Mar. 29.
 Tractor hitch. T. G. Schmelser. 1,646,600; Oct. 25.
 Tractor hitch. W. E. Schnitzer. 1,632,509; June 14.
 Tractor hitch. J. C. Wenner. 1,612,896; Jan. 4.
 Tractor hitch. J. C. Wenner. 1,626,441; Apr. 26.
 Tractor hitch, Automatic. H. O. Krueger. 1,646,253; Oct. 18.
 Tractor hitch, Floating. W. Wieland. 1,636,845; July 26.
 Tractor hitch, Shifting. P. A. Chafa and O. R. Gruber. 1,643,542; Sept. 27.
 Tractor, Line-control. J. W. Mowbray. 1,632,911; June 21.
 Tractor mechanism, Creeper. G. C. Jett. 1,618,203; Feb. 22.
 Tractor mowers, Lifting device for. C. Pearson. 1,627,711; May 10.
 Tractor, Roller. R. W. Keeler. 1,631,271; June 7.
 Tractor scraper. S. W. Briggs. 1,622,053; Mar. 22.
 Tractor skidder. J. R. McGiffert. 1,639,806; Aug. 28.
 Tractor-supported plowing attachment. M. B. Monson. 1,630,576; May 31.
 Tractor, Three-wheeled. I. Eedgwick. 1,621,856; Mar. 22.
 Tractor, Tracklaying. C. L. Best. 1,638,140; Aug. 9.
 Tractor, Tracklaying. J. E. Heaslet. 1,641,331; Sept. 6.
 Tractor-track side plate. C. M. Rasmussen. 1,647,540; Nov. 1.
 Tractor trailer. C. H. Land. 1,621,592; Mar. 22.
 Tractor trailer. C. H. Land. 1,627,910; May 10.
 Tractor trailer construction. C. Erskine. 1,613,747; Jan. 1.
 Tractor, trailer coupler. S. B. Winn. 1,631,847; June 7.
 Tractor trailer of the type carried on two wheels. J. and L. Coder. 1,626,185; Apr. 26.
 Tractor-trailer safety coupling device. S. B. Winn. 1,623,990; Apr. 12.
 Tractor, Tread-belt. E. Pearson. 1,632,674; June 14.
 Tractor, Turntable. E. W. Young. 1,640,389; Aug. 30.
 Tractor wheel. S. R. Darby. 1,643,702; Sept. 27.
 Tractor wheel. H. S. Ostieck. 1,630,025; May 24.
 Tractor wheel. W. E. Wine. 1,613,002; Jan. 4.
 Tractor-wheel attachment. B. D. Landon. 1,630,950; May 31.
 Tractors, Agricultural attachment for. H. P. Williams. 1,616,099; Feb. 1.
 Tractors and other agricultural machinery, Wheel grip of farm. G. A. McGregor. 1,644,536; Oct. 4.
 Tractors and the like, Drive mechanism for. J. J. Tracy and E. D. Palmer. 1,645,429; Nov. 8.
 Tractors and their trailers, Coupling means between. J. and L. Coder. 1,626,184; Apr. 26.
 Tractors, Attaching snowplows, back fillers and the like to the drawbars of. C. L. Hussey. 1,646,751; Oct. 25.
 Tractors, Attachment for. R. E. Curtis. 1,636,628; July 19.
 Tractors, Attachment for. L. S. Phelps. 1,632,311; June 14.
 Tractors, Axle for. L. D. Stripling. 1,648,076; Nov. 8.
 Tractors, Brake attachment for. I. H. Judy. 1,636,231; July 19.
 Tractors, Buck-rake attachment for. L. P. Draper. 1,654,323; Dec. 27.
 Tractors, Cab for. M. J. Kraus. 1,650,757; Nov. 29.
 Tractors, Clutch control for. H. A. Stewart and F. L. Holt. 1,629,550; May 24.
 Tractors, Clutch-control mechanism for. F. O. Peasley. 1,621,427; Mar. 15.
 Tractors, Cultivator attachment for. L. Hover. 1,620,099; Mar. 8.
 Tractors, Cultivator attachment for. W. R. Newton. 1,618,464; Feb. 22.
 Tractors, Drive attachment for. T. F. Rainsford. 1,630,540; May 31.
 Tractors, Differential lock for. G. C. Abbe. 1,626,374; Apr. 26.
 Tractors, Drawbar attachment for. R. C. Hawkins. 1,632,070; June 14.
 Tractors, Drive mechanism for. E. H. Lichtenberg. 1,626,680; May 3.
 Tractors, Four-wheel-drive transmission for. R. L. Tolson. 1,635,236; July 12.
 Tractors, Hauling attachment for Fordson. W. H. Nash. 1,616,463; Feb. 8.
 Tractors, Loader attachment for. C. Woodin. 1,629,014; May 17.
 Tractors, Loader attachment for. S. E. Anderson. 1,619,786; Mar. 1.
 Tractors, Locomotive railway attachment for. H. E. Rester and G. B. Werckley. 1,618,023; Feb. 15.
 Tractors, Power take-off device for. P. Rainer, J. B. Rainer, and A. Rolfs. 1,633,273; June 21.
 Tractors, Power take-off for. J. H. Wilson. 1,644,765; Oct. 11.
 Tractors, Rotary snow-sweeper attachment for. R. Simpson. 1,629,321; May 17.
 Tractors, Safety attachment for. E. E. Waterman. 1,625,005; Apr. 13.
 Tractors, Sawing attachment for. J. Mikottis. 1,645,066; Oct. 11.
 Tractors, Spraying attachment for. N. A. Wright. 1,626,371; Apr. 26.
 Tractors, Steering attachment for. F. L. Willrodt. 1,639,246; Aug. 16.
 Tractors, Steering mechanism for. J. E. Anthony and D. B. Baker. 1,613,865; Jan. 11.
 Tractors, Steering mechanism for creepers. L. P. Lipps. 1,620,608; Mar. 15.
 Tractors, Street-cleaning attachment for. R. B. Otwell. 1,648,056; Nov. 8.
 Tractors, Supporting and driving mechanism for device at side of. W. R. Stanfield. 1,651,642; Dec. 6.
 Tractors, Track chain for. T. C. Lenke. 1,630,089; May 24.
 Tractors, Tread chain for. O. L. Gilliland. 1,635,403; July 12.
 Tractors, Winch attachment for. J. N. Allensworth, M. C. Keltner, and O. C. Collins. 1,654,106; Dec. 27.
 Tractors, Winch attachment for. J. D. Cummings. 1,636,399; Nov. 22.
 Traffic-controlling apparatus, Railway-. G. W. Braughman. 1,644,813; Oct. 11.
 Traffic-controlling apparatus, Railway-. C. R. Beall. 1,632,162; June 14.
 Traffic-controlling apparatus, Railway-. P. N. Bossart. 1,643,331; Sept. 27.
 Traffic-controlling apparatus, Railway-. R. M. Gilson. 1,653,358; Dec. 20.
 Traffic-controlling apparatus, Railway-. L. O. Grondahl. 1,645,529; Oct. 18.
 Traffic-controlling apparatus, Railway-. L. V. Lewis. 1,652,866; Dec. 18.

- Traffic-controlling apparatus, Railway. L. V. Lewis. 1,653,363; Dec. 20.
- Traffic-controlling apparatus, Railway. R. A. McCann. 1,632,189; June 13.
- Traffic-controlling apparatus, Railway. R. A. McCann. 1,640,789; Aug. 30.
- Traffic-controlling apparatus, Railway. R. A. McCann. 1,643,344; Sept. 27.
- Traffic-controlling apparatus, Railway. R. A. McCann. 1,649,967; Nov. 22.
- Traffic-controlling apparatus, Railway. R. A. McCann. 1,653,368; Dec. 20.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,641,789; Sept. 6.
- Traffic-controlling apparatus, Railway. H. A. Thompson and C. W. Faller. 1,653,379; Dec. 20.
- Traffic-controlling apparatus, Railway. H. A. Wallace. 1,624,520; Apr. 12.
- Traffic-controlling apparatus, Railway. H. A. Wallace. 1,649,629; Nov. 15.
- Traffic-controlling apparatus, Railway. H. A. Wallace. 1,653,680; Dec. 27.
- Traffic gate. M. H. Alberts. 1,639,158; Aug. 16.
- Traffic gate. E. E. Howard. 1,631,416; June 7.
- Traffic-gate structure. M. H. Alberts. 1,639,157; Aug. 16.
- Traffic-governing apparatus, Railway. H. A. Wallace. 1,650,575; Nov. 22.
- Traffic guide. C. Stewart and W. A. Russell. 1,651,301; Nov. 29.
- Traffic indicator. H. Warburton and G. A. Sherwood. 1,622,932; Mar. 29.
- Traffic indicator. A. J. Wehr, A. V. Elliot, and J. W. Sheres. 1,617,355; Feb. 15.
- Traffic light. E. M. Van Buren. 1,636,653; July 19.
- Traffic marker. A. R. Hunt. 1,640,830; Aug. 30.
- Traffic motor control, Universal. C. L. Bevan and J. R. Cullen. 1,628,707; May 17.
- Traffic, Overcoming great differences of height with high-speed passenger. F. Kruckenberg. 1,633,214; June 21.
- Traffic protective structure. W. T. Kyle. 1,643,123; Sept. 20.
- Traffic rails, Treating. H. Karl. 1,626,285; Apr. 26.
- Traffic-regulation system. E. S. Taylor and H. E. Young. 1,648,629; Nov. 8.
- Traffic signal. W. J. B. Aldridge. 1,636,272; July 19.
- Traffic signal. L. E. Baltzley. 1,632,211; June 14.
- Traffic signal. L. F. Barnes. 1,628,706; May 17.
- Traffic signal. D. G. Bond. 1,619,562; Mar. 1.
- Traffic signal. J. P. Brophy. 1,616,604; Feb. 8.
- Traffic signal. L. C. Browning. 1,634,395; July 5.
- Traffic signal. J. Cartelli. 1,653,389; Dec. 20.
- Traffic signal. H. Cooke, Jr. 1,643,925; Sept. 27.
- Traffic signal. F. F. Dendinger. 1,618,581; Feb. 22.
- Traffic signal. R. Fisher. 1,625,745; Dec. 27.
- Traffic signal. H. Garrett. 1,625,990; Apr. 26.
- Traffic signal. A. J. Massey. 1,640,845; Aug. 30.
- Traffic signal. F. V. Maltby. 1,648,990; Nov. 8.
- Traffic signal. C. T. Marton. 1,648,990; Nov. 8.
- Traffic signal. J. J. McCoy. 1,616,135; Feb. 1.
- Traffic signal. D. Morris. 1,647,012; Oct. 25.
- Traffic signal. K. C. Parkhurst. 1,624,900; Apr. 12.
- Traffic signal. W. L. Phillips. 1,623,889; Apr. 5.
- Traffic signal. W. Pierce. 1,652,728; Dec. 18.
- Traffic signal. J. E. Que. 1,638,706; Aug. 9.
- Traffic signal. J. and H. W. Rank. 1,643,955; Oct. 4.
- Traffic signal. B. Rosewater. 1,626,876; May 3.
- Traffic signal. L. L. Schmidt. 1,620,576; Mar. 8.
- Traffic signal, Automobile. A. Linecome. 1,615,949; Feb. 1.
- Traffic signal, Depressive. G. L. Estes. 1,615,576; Jan. 25.
- Traffic-signal device, Street. J. E. Wright. 1,640,170; Aug. 23.
- Traffic signal for motor vehicles. A. Aderer. 1,614,766; Jan. 18.
- Traffic signal for motor vehicles. N. M. Butts, sr. 1,634,978; July 6.
- Traffic signal for street crossings, Automatic. M. L. Crawford. 1,632,698; June 14.
- Traffic signal for vehicles. J. E. Lock. 1,631,140; June 7.
- Traffic signal, Vehicle. S. A. L. Campagne. 1,653,984; Dec. 27.
- Traffic signal, Vehicle. W. B. Hussar. 1,634,381; July 5.
- Traffic signal, Vehicle. E. Kimura. 1,631,273; June 7.
- Traffic signals, Anchoring base for. J. and H. W. Rank. 1,650,093; Nov. 22.
- Traffic warning device. T. W. J. White. 1,635,915; July 12.
- Trail connection. T. A. Conlon. 1,627,836; May 10.
- Trailer. E. F. Hartwick. 1,630,425; May 31.
- Trailer. J. F. Higbee. 1,625,209; Apr. 19.
- Trailer. E. A. King. 1,618,094; Feb. 15.
- Trailer. A. Ordway. 1,642,823; Sept. 20.
- Trailer. C. L. Schneider and H. C. Fruehauf. 1,613,728; Jan. 11.
- Trailer. J. F. White. 1,645,467; Oct. 11.
- Trailer and power unit for soil pulverizers. H. A. Fretts. 1,618,000; Feb. 15.
- Trailer, Automobile camp. F. Ziegelmeier. 1,650,253; Nov. 22.
- Trailer coupler. W. Mayer. Re16,731; Sept. 6.
- Trailer coupler and brake actuator. F. Cox. 1,613,080; Jan. 4.
- Trailer coupling. H. P. Williams. 1,626,993; May 3.
- Trailer coupling, Automatic. J. Schlagenhauf. 1,649,980; Nov. 22.
- Trailer-coupling device. O. G. Ebert. 1,616,788; Feb. 8.
- Trailer hitch. G. Adkins. 1,617,283; Feb. 8.
- Trailer hitch. J. W. Essary. 1,644,916; Oct. 11.
- Trailer hitch. A. M. Gifford and R. Smith. 1,617,709; Feb. 15.
- Trailer hitch. E. R. Greer. 1,623,179; Apr. 5.
- Trailers, Automatic brake for. J. Schlagenhauf. 1,652,254; Dec. 13.
- Trailers, Steering coupling for. B. J. Murn. 1,644,264; Oct. 4.
- Trailers, Steering gear for. F. M. Reid. 1,637,456; Feb. 15.
- Train control. A. R. Angus. 1,624,524; Apr. 12.
- Train control. C. S. Bushnell. 1,620,188; Mar. 8.
- Train control. C. S. Bushnell. 1,628,452; May 10.
- Train control. C. S. Bushnell. 1,628,453; May 10.
- Train control. C. A. Campbell and E. C. Vroman. 1,650,234; May 24.
- Train control. P. E. Carter. 1,654,491; Dec. 27.
- Train control. O. H. Dicke. 1,615,203; Jan. 18.
- Train control. O. H. Dicke. 1,654,116; Dec. 27.
- Train control. W. K. Howe. 1,628,319; May 10.
- Train control. W. K. Howe and C. S. Bushnell. 1,647,968; Nov. 1.
- Train-control apparatus. T. E. Clark. 1,619,290; Mar. 1.
- Train-control apparatus. T. E. Clark. 1,646,683; Oct. 25.
- Train-control apparatus, Railway. P. H. Geiger. 1,643,337; Sept. 27.
- Train control, Automatic. C. Bruna. 1,647,954; Nov. 1.
- Train control, Automatic. J. S. London. 1,652,948; Dec. 13.
- Train control, Automatic. T. M. Riggie. 1,634,557; July 5.
- Train control, Automatic. D. H. Schwyer. 1,624,118; Apr. 12.
- Train control, Automatic. D. H. Schwyer. 1,634,091; July 5.
- Train-control device. T. H. Thomas. Re16,663; June 28.
- Train-control device. T. H. Thomas. 1,644,551; Oct. 4.
- Train-control device, Automatic. G. H. Sanborn. 1,634,119; June 28.
- Train control, Intermittent inductive. C. S. Bushnell. 1,619,698; Mar. 1.
- Train control, Intermittent inductive. C. F. Estwick. 1,619,712; Mar. 1.
- Train control, Intermittent inductive. W. K. Howe. 1,619,730; Mar. 1.
- Train-control system. T. Bodde. 1,650,596; Nov. 29.
- Train-control system. T. E. and J. E. Clark. 1,619,289; Mar. 1.
- Train-control system. A. E. Hudd and A. F. Bound. 1,626,833; May 3.
- Train-control system. A. B. Kendall and B. W. Meisel. 1,631,597; June 7.
- Train-control system. P. W. Mosher. 1,649,970; Nov. 22.
- Train-control system, Absolute-permissive block. W. W. Wenholz. 1,623,023; Mar. 29.
- Train-control system, Automatic. W. K. Howe. 1,649,163; Nov. 15.
- Train-control system, Automatic. M. L. Slindeband. 1,614,403; Jan. 11.
- Train-control system, Automatic. E. C. Stafford. 1,628,634; May 10.
- Train-control system, Continuous. T. E. and J. E. Clark. 1,646,685; Oct. 25.
- Train-control system, Continuous inductive. W. W. Salmon. 1,647,970; Nov. 1.
- Train-control system, Intermittent inductive. W. R. McCann. 1,645,655; Oct. 18.
- Train-control system, Railway. T. E. and J. E. Clark. 1,646,684; Oct. 25.
- Train-control systems, Conductor for. T. E. Clark. 1,631,361; June 7.
- Train-control systems, Receiver for continuous inductive. W. H. Reichardt. 1,654,487; Dec. 27.
- Train-control systems, Train-carried receiver for automatic. H. O. Holte. 1,643,377; Sept. 27.
- Train-control systems, Train-carried receiver for automatic. C. H. Zierdt. 1,628,296; May 10.
- Train-control systems, Train-carried receiver for automatic. C. H. Zierdt. 1,630,559; May 31.
- Train-lighting apparatus. E. Sumner. 1,645,207; Oct. 11.
- Train-line connector, Automatic. J. Robinson. 1,642,748; Sept. 20.
- Train-line switch, Electric. C. C. Farmer. 1,641,071; Aug. 30.
- Train-pipe connector. G. E. Baldwin. 1,630,998; May 31.
- Train-pipe connector, Automatic. M. A. Barber. 1,644,975; Oct. 11.
- Train-pipe connector, Automatic. C. A. Kothe. 1,629,578; May 24.
- Train-pipe connector, Automatic. E. A. Robinson. 1,645,025; Oct. 11.
- Train-pipe connector, Automatic. J. Robinson. 1,631,551-2; June 7.
- Train-pipe connector, Automatic. J. Robinson. 1,633,226; June 21.

- Train-pipe connector, Automatic. J. Robinson. 1,634,851; July 5.
- Train-pipe connector, Automatic. J. V. Robinson. 1,630,882; May 31.
- Train-pipe connector, Automatic. J. V. Robinson. 1,650,850; Nov. 29.
- Train-pipe coupler. R. T. Lowe. 1,625,370; Apr. 19.
- Train-pipe coupling. C. Elchhorn. 1,619,464; Mar. 1.
- Train-pipe coupling, Automatic. J. Robinson. 1,632,714; June 14.
- Train-pipe coupling, Automatic. J. Robinson. 1,633,679; June 28.
- Train-pipe coupling, Automatic. J. Robinson. 1,635,345; July 12.
- Train, Railway. L. Ellis. 1,634,490; July 5.
- Train-signal system. E. S. Stafford. 1,614,405; Jan. 11.
- Train signaling and controlling system. J. Szuchy. 1,638,754; Aug. 9.
- Train-stopping and speed-controlling apparatus, Automatic. W. A. Browne. 1,643,976; Oct. 4.
- Train-stopping device, Automatic. F. Mignogne. 1,644,846; Oct. 4.
- Train, Time. F. I. Benel. 1,616,569; Feb. 8.
- Training apparatus. H. P. Oleott. 1,636,753; July 26.
- Trains, Arrangement to protect running. S. A. Spanninga. 1,615,962; Feb. 1.
- Trains, Average-speed-recording means for railway. T. R. Mills. 1,627,612; May 31.
- Trains, Compressed-air brake system for motor-vehicle. N. A. Christensen. 1,614,653; Jan. 18.
- Trains, Control of. A. R. Angus. 1,630,511; May 31.
- Trammel. C. Ackrovd. 1,617,662; Feb. 15.
- Trams or other vehicles, Spraying device for colliery. M. and D. Neil and S. Jones. 1,644,078; Oct. 4.
- Tramway, Aerial. G. M. Kilcarr. 1,643,214; Sept. 20.
- Tramway-switch construction. P. Heidtkamp and P. Müller. 1,637,304; July 26.
- Transfer, and making the same. R. Tull. 1,618,612; Feb. 22.
- Transfer design. J. Moores. 1,623,357; Apr. 5.
- Transfer device for invalids. E. Cole. 1,635,575; July 12.
- Transfer holder. T. E. Reese. 1,620,984; Mar. 15.
- Transfer mechanism. B. E. Taylor. 1,646,714; Oct. 25.
- Transfer medium for metallizing purposes. W. F. Grupe. 1,627,088; May 3.
- Transfer print and making the same. T. S. Reese. 1,627,407; May 3.
- Transfer sheet. T. W. Morse. 1,620,981; Mar. 15.
- Transfer switch. V. W. Sherman. 1,627,545; May 3.
- Transformer. T. Aayir, Jr. 1,634,440; July 5.
- Transformer. H. P. Andreoli. 1,631,393; June 7.
- Transformer. C. Bergman. 1,631,955; June 14.
- Transformer. L. H. Burnham. 1,620,437; Mar. 8.
- Transformer. E. G. Danielson. 1,630,693; May 31.
- Transformer. E. H. Ide. 1,652,203; Dec. 13.
- Transformer. W. Kummer. 1,635,794; July 12.
- Transformer. E. Moxter. 1,653,504; Dec. 20.
- Transformer. T. J. Murphy. 1,629,836; May 24.
- Transformer. R. L. Osborne. 1,639,662; Aug. 23.
- Transformer. R. T. St. James. 1,633,047; June 21.
- Transformer. I. H. Schuster. 1,652,911; Dec. 13.
- Transformer. J. L. Schermmerhorn. 1,612,947; Jan. 4.
- Transformer. W. J. Shackleton. 1,616,200; Feb. 1.
- Transformer. E. J. Temple. 1,620,411; Mar. 8.
- Transformer. L. H. Thullen. 1,634,923; July 5.
- Transformer. E. A. Wagner. 1,635,064; July 5.
- Transformer. A. H. Wegner, Jr. 1,616,645; Feb. 8.
- Transformer, Air core. E. E. Holman. 1,638,996; Aug. 16.
- Transformer, Amplifying. C. H. Thordarson. 1,632,101; June 14.
- Transformer and mounting therefor. W. Dumke. 1,647,612; Nov. 1.
- Transformer, Auto. K. Palneff. 1,640,424; Aug. 30.
- Transformer-bushing support. S. Horelick. 1,641,270; Sept. 6.
- Transformer construction. J. Karas. 1,651,713; Dec. 6.
- Transformer cooler. R. V. Bingay. 1,641,247; Sept. 6.
- Transformer, Current. J. Peters. 1,640,575; Aug. 30.
- Transformer for arc cutting, repairing and welding apparatus. P. C. Owen. 1,619,629; Mar. 1.
- Transformer for electric-arc cutting and welding apparatus. F. C. Owen. 1,651,223; Nov. 29.
- Transformer, Frequency. T. J. Fay. 1,644,332; Oct. 4.
- Transformer, High-frequency. K. Schmidt. 1,613,772; Jan. 11.
- Transforming machine with symmetrically subdivided flux for the control of traction motors or the like. A. D. Riccia. 1,646,066; Oct. 18.
- Transformer, Single-phase. W. Köchling. 1,653,107; Dec. 20.
- Transformer tank. R. V. Bingay. 1,641,248; Sept. 6.
- Transformer-tap changer. S. Horelick. 1,641,271; Sept. 6.
- Transformer-tap-changing device. H. A. Travers. 1,650,363; Nov. 31.
- Transformer winding. S. Horelick. 1,641,272; Sept. 6.
- Transformer winding. J. F. Peters. 1,632,097; June 14.
- Transformers, Angle ring for. A. W. Thompson. 1,621,039; Mar. 15.
- Transformers, Arrangement for transporting large. A. Zdzewski. 1,615,091; Jan. 25.
- Transformers, Treating liquid-insulated. E. Stenkvist. 1,626,213; Apr. 26.
- Transformers, Voltage regulator for. A. Roth. 1,626,970; May 8.
- Transformers, Winding. G. F. Niemann. 1,639,145; Aug. 16.
- Transforming system. H. K. Sandell. 1,634,853; July 5.
- Transit system. P. Sachs. 1,616,554; Feb. 8.
- Transit system. P. Sachs. 1,645,026; Oct. 11.
- Translating apparatus. F. C. Willis. 1,654,062; Dec. 27.
- Translating device. O. E. Buckley. 1,613,927; Jan. 11.
- Translating device. T. W. Case. 1,635,472; Aug. 9.
- Translating device. M. C. Hopkins. 1,630,009; May 24.
- Translating device. E. C. Wente. 1,638,555; Aug. 9.
- Translating device, Electric. W. M. Bruce, jr. 1,640,749; Aug. 30.
- Translucent article, Manufacturing. A. Eggmann and A. Pecen. 1,644,115; Oct. 4.
- Translucent fluids, Color-testing device for. E. Kaddatz. 1,647,569; Nov. 1.
- Transmission. Z. Alexander. 1,615,207; Jan. 25.
- Transmission. H. E. Blood. 1,636,800; July 26.
- Transmission. A. B. Bowman. 1,620,064; Mar. 8.
- Transmission. A. S. Butch. 1,643,055; Sept. 20.
- Transmission. R. Chilton. 1,623,306; Apr. 5.
- Transmission. G. B. Coleman. 1,632,696; June 14.
- Transmission. S. A. Jeffries. 1,619,127; Mar. 1.
- Transmission. R. G. Jones. 1,633,989; June 28.
- Transmission. W. I. Koser. 1,652,943; Dec. 13.
- Transmission. G. A. Peple, Jr. 1,613,290; Jan. 4.
- Transmission. F. G. Rose. 1,635,958; July 12.
- Transmission. W. E. Srote. 1,650,545; Nov. 22.
- Transmission and bearing, Combined resilient. B. F. Seymour. 1,620,136; Mar. 8.
- Transmission and bearing, Combined resilient. B. F. Seymour. 1,633,133; June 21.
- Transmission and brake structure, Fluid-pressure. L. S. Murray. 1,615,341; Jan. 25.
- Transmission and the like, Fluid. J. B. Hawley, Jr. 1,647,621; Nov. 1.
- Transmission apparatus, Automatic variable-speed. R. Z. Farmer. 1,628,769; May 17.
- Transmission arrangement, Electric. A. Montelhet. Re16,773; Oct. 18.
- Transmission, Automatic. G. B. Coleman. 1,632,694-5; June 14.
- Transmission, Automatic gearless. T. Gensmer and R. Z. Farmer. 1,638,689; Aug. 9.
- Transmission band. C. A. Ingersoll. 1,653,399; Dec. 20.
- Transmission band. J. Malligan. 1,619,983; Mar. 8.
- Transmission band. C. W. Mann. 1,613,713; Jan. 11.
- Transmission band. L. A. Reiner. 1,614,084; Jan. 11.
- Transmission band, -operating device. M. Hoffman. 1,623,312; Apr. 5.
- Transmission brake. H. T. Thomas. 1,622,475; Mar. 29.
- Transmission by electric oscillations. L. N. Brillouin and E. M. F. Fromy. 1,627,767; May 10.
- Transmission case. B. Seiler. 1,613,484; Jan. 4.
- Transmission case. V. E. Shakespeare. 1,622,978; Mar. 29.
- Transmission casing. C. R. Short. 1,644,749; Oct. 11.
- Transmission check. N. W. Raphael. 1,651,227; Nov. 29.
- Transmission circuits. D. F. Whiting. 1,632,104; June 14.
- Transmission control. J. H. Butler. 1,626,718; May 3.
- Transmission control. F. H. Graham. 1,641,425; Sept. 6.
- Transmission control. R. W. Keeler. 1,629,666; May 24.
- Transmission control. R. L. Wegel. 1,613,422-3; Jan. 4.
- Transmission-control mechanism. C. Cotta. 1,638,149; Aug. 9.
- Transmission cover for Fords. R. A. Linquist. 1,625,555; Apr. 19.
- Transmission delay, Method and apparatus for measuring. H. Nyquist. 1,645,618; Oct. 18.
- Transmission device. R. A. Bartholomew. 1,651,862; Dec. 6.
- Transmission, Equalization of. M. E. Striebe and C. H. Eason. 1,624,023; Apr. 12.
- Transmission, Gearless. E. P. Ahim. 1,627,368; May 3.
- Transmission-housing cover-locking means. C. L. Johnson. 1,632,656; June 14.
- Transmission, Hydraulic. W. Ferris. 1,619,200; Mar. 1.
- Transmission, Hydraulic. W. Ferris. 1,628,603; May 10.
- Transmission, Hydraulic. W. Ferris. 1,647,690; Nov. 1.
- Transmission, Hydraulic. E. G. Jacker. 1,624,663; Apr. 12.
- Transmission-level-control system. R. K. Potter. 1,644,745; Oct. 11.
- Transmission line, Nongrounded. L. H. Crook. 1,645,643; Oct. 13.
- Transmission lines, Apparatus and method for regulating attenuation and phase on. H. Nyquist. 1,615,911; Feb. 1.
- Transmission lock. R. N. Flint. 1,613,698; Jan. 11.
- Transmission lock. W. M. Reason. 1,633,157; June 7.
- Transmission lock. W. M. Reason. 1,641,992; Sept. 13.
- Transmission lock. A. M. Wiswell. 1,643,480; Sept. 27.
- Transmission lock, Automobile. W. M. Reason. 1,623,319; Apr. 5.
- Transmission means, Rotary. M. D. Phelan. 1,640,370; Aug. 30.
- Transmission mechanism. R. Boyer. 1,642,763; Sept. 20.
- Transmission mechanism. R. A. Fontaine. 1,626,229; Apr. 26.

- Transplanter. H. Synck. 1,651,851; Dec. 6.
Transmitter. R. E. Vaughan and W. S. D. Leland. 1,634,967; July 5.
Transmitter apparatus. F. Lowenstein. 1,618,018; Feb. 15.
Transmitter circuit. H. Pauli. 1,647,659; Nov. 1.
Transmitter, Glow-discharge. J. Slepian. 1,626,636; May 3.
Transmitter, Glow-discharge. P. Thomas. 1,626,645; May 3.
Transmitter, Glow-discharge. P. Thomas. 1,626,646; May 3.
Transmitter, Twin-blade. C. F. Jenkins. 1,644,382; Oct. 4.
Transmitter, Twin-light-cell. C. F. Jenkins. 1,642,733; Sept. 20.
Transmitting apparatus utilizing the principle of the Wheatstone bridge. E. Schneider. 1,628,560; Apr. 26.
Transmitting code currents, Apparatus for. A. J. Sorensen. 1,620,169; Mar. 8.
Transmitting device, Impulse. J. G. Blessing. 1,641,616-7; Sept. 6.
Transmitting mechanism. C. C. Balston. 1,631,572; June 7.
Transmitting or measuring variable conditions, System for. E. Roučka. 1,638,103; Aug. 9.
Transmitting or reproducing sound, Apparatus for. S. G. Brown. 1,639,588; Aug. 16.
Transmitting variable conditions. E. Roučka. 1,641,197-8; Sept. 6.
Transmitting variable conditions, System for. E. Roučka. 1,638,105; Aug. 9.
Transom and fittings. L. C. Baugh. 1,654,400; Dec. 27.
Transoms, Actuating device for door and window. J. P. Clarke. 1,641,738; Sept. 6.
Transplanting device. B. Hooks. 1,638,693; Aug. 9.
Transplanting pot. J. M. Everett. 1,619,600; July 26.
Transport. B. S. White. 1,619,907; Mar. 8.
Transportation container. M. Gross. 1,641,030; Aug. 30.
Transportation means, Aerial cable. L. L. Custer. 1,628,827; May 17.
Transportation, System of. H. J. Liebl. 1,649,535; Nov. 6.
Transportation system. H. E. Taylor. 1,632,569; June 14.
Transportation unit. H. W. Kirchner. 1,617,852; Feb. 15.
Transportation unit. H. W. Kirchner. 1,649,598; Nov. 15.
Transporting box, Motor-vehicle. E. S. Evans. 1,641,026; Aug. 30.
Transporting sack. T. C. Rowell. 1,614,764; Jan. 18.
Transporting sick and wounded, Device for. H. Friedmann. 1,618,873; Feb. 22.
Trap. See—
Animal trap. Mole trap.
Ant trap. Mouse or rat trap.
Boiler-feed trap. Mouse trap.
Bucket trap. Rat and mink trap.
Direct-return trap. Rat trap.
Double-acting trap. Radiator return trap.
Drain trap. Return trap.
Drum trap. Rodent trap.
Fish trap. Snare trap.
Fly and insect trap. Sanitary bedbug trap.
Fly and insect trap. Self-sealing trap.
Game trap. Snare trap.
Grease trap. Steam trap.
Hammer-blow steam trap. Target trap.
Impaling animal trap. Thermostatic trap.
Impaling trap. Tilting trap.
Insect trap. Vermin trap.
Minnow trap. Water-line trap.
Moisture trap. Water trap.
Trap. G. A. Abramson. 1,616,882; Feb. 8.
Trap. S. M. Coffman and W. M. Elder. 1,620,950; Mar. 15.
Trap. H. J. Corson. 1,625,710; Apr. 19.
Trap. J. J. Curtis. 1,652,702; Dec. 13.
Trap. S. C. Engenauer. 1,645,095; Oct. 11.
Trap. E. Fortin. 1,630,419; May 31.
Trap. G. H. Hagermann. 1,641,033; Aug. 30.
Trap. S. C. Kinzer. 1,623,925; Apr. 5.
Trap. C. March. 1,629,402; May 17.
Trap. R. and O. L. Mueller. 1,638,545; Aug. 9.
Trap. H. Harris. 1,643,315; Sept. 27.
Trap. W. S. Poe. 1,653,411; Dec. 20.
Trap. C. P. Rowley. 1,635,224; July 12.
Trap. C. J. Rullison. 1,616,552; Feb. 8.
Trap. W. R. Templeton. 1,624,446; Apr. 12.
Trap. A. E. C. White. 1,653,244; Dec. 20.
Trap. J. E. Workman. 1,623,515; Apr. 5.
Trap and strainer, Liquid. H. A. Hills. 1,634,463; July 5.
Trapdoors, Operating mechanism for car-vestibule. A. A. Constantine. 1,631,307; June 7.
Trap fitting, Sanitary. R. N. Murphy. 1,644,941; Oct. 11.
Trap for catching crabs. C. H. A. Petersen. 1,619,366; Mar. 1.
Trap for rodents. W. F. Carlton. 1,649,663; Nov. 15.
Trap nest and front therefor. E. H. Mitchell. 1,637,005; July 26.
- Transmission mechanism. J. C. Heyda. 1,631,590; June 7.
Transmission mechanism. H. L. Johnston. 1,651,822; Dec. 6.
Transmission mechanism. C. B. Kurtz. 1,619,477; Mar. 1.
Transmission mechanism. E. B. Oliver. 1,624,968; Apr. 19.
Transmission mechanism. J. E. Ovren. 1,627,196; May 3.
Transmission mechanism. I. Packard. 1,613,190; Jan. 4.
Transmission mechanism. C. Pulliam. 1,648,027; Nov. 8.
Transmission mechanism. C. E. Starr. 1,623,212; Apr. 5.
Transmission mechanism. J. M. Ulrich. 1,635,063; July 5.
Transmission mechanism. J. B. Whitlow. 1,645,841; Oct. 18.
Transmission mechanism, Fluid-. C. Potter. 1,623,206; Apr. 5.
Transmission mechanism, Hydraulic power-. T. F. Lilly. 1,646,246; Oct. 11.
Transmission mechanism, Mechanical shifting means for. C. J. Trunk. 1,653,072; Dec. 20.
Transmission mechanism, Motor-vehicle. E. L. Harry. 1,623,724; Apr. 5.
Transmission mechanism, Motor-vehicle. J. A. Stumpenborst. 1,632,634; June 14.
Transmission mechanism, Power-. R. B. Butterbaugh. 1,651,371; Dec. 6.
Transmission mechanism, Selective. B. F. Schmidt. 1,637,593; Aug. 2.
Transmission mechanism, Variable-speed. G. W. Dallimore. 1,634,138; June 28.
Transmission mechanism, Variable-speed power-. F. A. Hayes. 1,620,760; Mar. 15.
Transmission, Multiple-unit electric. J. A. Heany. 1,616,658; Feb. 8.
Transmission, Multiplex. J. S. Jammer. 1,624,551; Apr. 12.
Transmission of angular motion, System for the. E. M. Hewlett and W. W. Willard. 1,637,039; July 26.
Transmission of automobiles, trucks, and other motor vehicles, Device for locking the. J. H. Corey. 1,653,549; Dec. 20.
Transmission of energy by high-frequency impulses, Method and apparatus for the. R. A. Fessenden. 1,617,241; Feb. 8.
Transmission of pictures by electricity. A. Weaver. 1,653,074; Dec. 20.
Transmission or brake band. H. J. Friedl. 1,643,946; Oct. 4.
Transmission or brake band. W. F. Polson. 1,638,211; Aug. 9.
Transmission or brake band. J. C. Webb. 1,622,477; Mar. 29.
Transmission regulation. J. S. Jammer. 1,623,600; Apr. 5.
Transmission regulation. J. S. Jammer. 1,642,499; Sept. 13.
Transmission, Speed-varying. J. M. Simpson. 1,631,939; June 7.
Transmission system. H. M. Bascom. 1,632,817; June 21.
Transmission system. F. G. Baum. 1,617,007; Feb. 8.
Transmission system. R. D. Evans. 1,640,539-40; Aug. 30.
Transmission system. C. L. Fortescue. 1,651,519; Dec. 6.
Transmission system. R. V. L. Hartley. 1,629,100; May 17.
Transmission system. J. J. Kuhn. 1,623,480; Apr. 5.
Transmission system. B. G. Poblmann. 1,644,395; Oct. 4.
Transmission system. J. Slepian. 1,645,937; Oct. 18.
Transmission system. E. Vroom. 1,615,907; Feb. 1.
Transmission system. H. Whittle. 1,625,840; Apr. 26.
Transmission system. W. V. Wolfe. 1,624,646; Apr. 12.
Transmission system, Electrical. M. Kirn. 1,654,084; Dec. 27.
Transmission system, Frequency selective. R. V. L. Hartley. 1,654,123; Dec. 27.
Transmission system, High-frequency sound-. C. A. Sprague. 1,616,639; Feb. 8.
Transmission tool. J. B. Des Rosiers. 1,614,426; Jan. 11.
Transmission tower, Universal. P. H. Thomas. 1,616,932; Feb. 8.
Transmission unit, Air vent for. G. W. Rydner. 1,630,670; Aug. 23.
Transmission, Variable. L. P. Erb. 1,617,380; Feb. 15.
Transmission, Variable-speed. J. L. Allen. 1,615,432; Jan. 25.
Transmission wires, Spreader arm for. A. De Vries. Dec. 73,496; Sept. 20.
Transmissions and the like, Casing for. E. R. Hewitt and A. H. Leiper. 1,631,201; June 7.
Transmissions, Controller pedal for. A. E. Winckler. 1,644,805; Oct. 11.
Transmissions, Lubricant control for. J. T. Wright. 1,645,504; Oct. 11.
Transmissions, Preventing chattering in. C. B. Epperson. 1,633,440; June 21.
Transmitter. J. G. Roberts. 1,650,740; Nov. 29.
Transmitter. J. Slepian. 1,626,635; May 3.

- Trap-nest attachment. M. J. Moore. 1,619,527; Mar. 1.
Trap-nest door for poultry. A. R. Hoeft. 1,634,147; June 28.
- Trap set. W. J. Simmons. 1,617,424; Feb. 15.
Traps, Door-controlling device for. A. T. Senecal. 1,654,434; Dec. 27.
- Trash burner. R. P. Holman. 1,629,162; May 17.
Travel bag. M. C. Holbrook. 1,651,706; Dec. 6.
Traveling bag. L. N. Doud. 1,641,747; Sept. 6.
Traveling bag. T. H. Gottsarr. 1,618,955; Feb. 22.
Traveling bag. H. L. Kennedy. 1,636,060; July 19.
Traveling bag. S. Lacher. 1,650,367; Nov. 22.
Traveling bag. B. H. Schwayer. 1,628,812; May 17.
Traveling bag. H. Yanovsky. 1,651,171; Nov. 29.
Traveling block. G. B. Bantress. 1,629,690; May 24.
Traveling case. A. B. Deitsch. 1,614,108; Jan. 11.
Traveling case. A. B. Deitsch. 1,638,387; Aug. 16.
Traveling lawn sprinkler. W. C. Todd and J. W. Pomeroy. 1,616,769; Feb. 8.
Traveling sprinkler. W. C. Todd and J. W. Pomeroy. 1,632,353; June 14.
Traveling structures, Safety device for. R. E. Brown. 1,642,988; Sept. 20.
Traveling structures, Safety stop for. A. F. Case. 1,641,734; Sept. 6.
Traverse mechanism. C. E. Linden and G. E. Langen. 1,629,082; May 17.
Traverse shapers, Manufacturing quick-. W. F. Zimmermann. 1,615,185; Jan. 18.
Tray. K. W. Bartlett. 1,620,751; Mar. 15.
Tray. R. E. Clarke. 1,630,889; May 31.
Tray. F. M. Rosin. 1,627,969; June 28.
Tray and cover, Combined binder. R. R. Webb. 1,649,500; Nov. 15.
Tray and table, Combined. L. A. Phalon. 1,627,454; May 3.
Tray, Ash. A. Janer. Re1,628; May 24.
Tray, Ash. R. Naugle. 1,624,621; Apr. 12.
Tray, Bridge-table. L. Leven. Des. 74,016; Dec. 6.
Tray, Card-index. G. H. Dawson. 1,640,397; Aug. 30.
Tray, Combination serving and smoking. J. J. Buckley. Des. 74,001; Dec. 6.
Tray, Combined ash and pipe. G. W. Lillenthal. Des. 74,017; Dec. 6.
Tray cover or the like, Lace. S. N. Mallouk. Des. 72,167; Mar. 8.
Tray cover or the like, Lace. S. N. Mallouk. Des. 72,226; Mar. 15.
Tray, Desk. P. Mathewson. 1,645,151; Oct. 11.
Tray-discharging mechanism. S. Schiff. 1,639,061; Aug. 16.
Tray, Filling. N. S. Welk. 1,626,898; May 3.
Tray, Filling. N. S. Welk. 1,653,937; Dec. 27.
Tray for gas and liquid contact apparatus. E. Jordan. 1,621,728; Mar. 22.
Tray for glass or the like, Service. W. L. Orme. Des. 72,491; Apr. 19.
Tray, Ledger. E. Ohnstrand. 1,647,655; Nov. 1.
Tray or analogous article. P. Cricchio. Des. 72,989; July 5.
Tray or similar article. R. R. Kintz. Des. 72,899; June 21.
Tray purse, tobacco pouch, or the like. G. Nicklin. 1,630,446; May 31.
Tray rail, Safety. F. L. Brown. 1,642,329; Sept. 13.
Tray, Raisin-drying. T. S. Higley. 1,617,483; Feb. 15.
Tray, Service. G. E. Whitney. 1,646,333; Oct. 13.
Tray, Serving. A. Barchoff. Des. 73,119; July 26.
Tray, Serving. E. A. Leaf. 1,613,756; Jan. 11.
Tray-setting device. J. J. Armstrong. 1,617,834; Feb. 15.
Tray, Smoker's. C. E. Anderson. 1,637,978; Aug. 2.
Tray, Smoker's. R. C. Bauspies. Des. 73,364; Aug. 30.
Tray, Tilting. J. Schumacher, sr. 1,637,053; July 26.
Tray, Watch-crystal. T. Tobita. 1,625,754; Apr. 19.
Trays, frames, and the like, Metallic construction for serving. H. Somerfield. 1,640,011; Aug. 23.
Trays, Machine for washing sugar. J. J. Armstrong. 1,617,833; Feb. 15.
Trays, Support for metal. J. P. Riche. 1,647,665; Nov. 1.
Tread grip. C. L. Hoff. Re1,680; July 19.
Tread wheel, Flexible. W. C. Starr. 1,634,048; June 28.
Treads, System of making. G. W. Bulley. 1,624,826; Apr. 12.
Treadles, Adjustable extension for. A. S. Greenberg. 1,639,375; Aug. 16.
Treating a mixture such as chaff and cracked coffee. Apparatus for. J. L. Kopf. 1,640,751; Nov. 15.
Treating animal tissue and products obtained therefrom. F. W. Weber. 1,621,965; Mar. 22.
Treating articles, Apparatus for. H. M. Robertson. 1,628,742; May 17.
Treating blast-furnace slag. J. M. Hilbisch. 1,614,525; Jan. 18.
Treating fresh fruit, Method and apparatus for. E. M. Broden. 1,641,112; Aug. 30.
Treating materials. H. G. Lykken. 1,613,042; Jan. 4.
Treating one fluid by another, Method of and apparatus for. S. J. Dickey. 1,652,399; Dec. 13.
Treating pasteboard. J. L. Brown. 1,614,869; Jan. 18.
Treating patients by bodily movements, Apparatus for. V. J. Pearce. 1,641,093; Aug. 30.
Treating petroleum emulsions. C. C. Averill. 1,617,738; Feb. 15.
- Treating products of fiber and making same, Composition for. C. R. Felix. 1,643,116; Sept. 20.
Treating table. O. A. Miller. 1,626,471; Apr. 26.
Treating the abdomen, Apparatus for. J. J. Cooper. 1,618,916; Feb. 22.
Treating yarns for knitting. S. P. Ruff, jr. 1,615,234; Jan. 25.
Treatment of hay fever, Product adapted for use in the. F. J. Csonka, H. S. Bernton, and D. B. Jones. 1,613,313; Jan. 4.
Treatment table. M. R. McBurney. 1,623,369; May 10.
Tree: See— Shoe-tree.
Artificial tree.
Tree. W. O. Roy. 1,619,272; Mar. 1.
Tree cavities and the filling itself, Filling. G. Van Yahres. 1,624,820; Apr. 12.
Tree cavities, Apparatus for excavating. J. A. and P. H. Davey and C. L. Gaugler. 1,648,812-13; Oct. 25.
Tree-felling machine. H. L. Orman. 1,653,060; Dec. 20.
Tree guard. V. L. Wilson and A. Stergios. 1,654,028; Dec. 27.
Tree, Imitation. K. A. Grant, F. R. Halliday, and A. W. Cameron. 1,641,163; Sept. 6.
Tree limbs, Clamping band for. C. D. Gilman. 1,633,090; Dec. 27.
Tree limbs or the like, Apparatus for supporting. C. D. Gilman. 1,621,776; Mar. 22.
Tree remover. A. W. Wadley. 1,643,141; Sept. 20.
Tree-shaking device. W. F. Rurup. 1,623,497; Apr. 5.
Tree support. B. U. Fowler. 1,644,964; Oct. 11.
Tree treatment. J. S. Perry. 1,629,962; May 24.
Trees and the like, Apparatus for felling. C. J. Brey. 1,642,668; Sept. 20.
Trellis, Flowerpot. H. H. Verdery. 1,623,646; Apr. 5.
Trellis, Knockdown. J. C. Farrington. 1,653,263; Dec. 20.
Trelliswork, Sheet-metal. H. Junkers. 1,619,518; Mar. 1.
Trellises and the like, Structure for. J. S. Kirfman. 1,628,249; May 10.
Tremolo. F. H. Niemann. 1,619,532; Mar. 1.
Tremolo device. B. E. Mills. 1,621,126; Mar. 15.
Trepan cleaning device. F. E. Braswell and S. T. Ray. 1,633,311; June 21.
Trenching machine. T. Loken. 1,633,115; June 21.
Trestle. G. D. Butler. 1,647,432; Nov. 1.
Trestle. G. W. Peachee. 1,612,941; Jan. 4.
Trestle, Adjustable. W. F. Paulett. 1,618,305; Feb. 22.
Trestle or sawhorse. E. J. Coffed. 1,648,638; Nov. 8.
Triaryl-ethane dyes from tetraalkyl-diamino-benzophenone and arylated-ethylene diamine. H. Polkier and H. Hähle. 1,629,884; May 24.
Triaryl-methane dyestuffs from tetraalkyl-diamino-benzophenones and di-1-naphthyl-ethylene-diamine. H. Polkier and H. Hähle. 1,629,885; May 24.
Triazo-nitrate explosives and producing the same. F. H. Bergelm. 1,620,714; Mar. 15.
Trick device, Escape. T. P. Brunner. 1,625,452; Apr. 19.
Tricycle. H. C. Bonnie. 1,624,915; Apr. 19.
Tricycle. E. H. L. Englund. 1,625,400; Apr. 5.
Tricycle. F. di Marzo. 1,648,609; Nov. 8.
Tricycle. T. W. Shelley. 1,625,337; Apr. 19.
Tricycles and the like, Power actuating means for. E. E. Clark. 1,653,889; Dec. 27.
Trigger control. C. N. Fairchild. 1,622,501; Mar. 29.
Trimmer. Swivel-snare. F. S. Penn. 1,647,578; Nov. 1.
Trimmer: See—
Dental model trimmer. Lawn trimmer.
Finger-nail trimmer. Pin trimmer.
Hedge trimmer. Reed trimmer.
Lawn-edge trimmer. Shank and edge trimmer.
Trimmer for strip material. F. D. Mason. 1,642,996; Sept. 20.
Trimmer mechanism. J. A. Bouslough and G. M. Eaton. 1,649,093; Nov. 15.
Trimmer with tightener take-up, Pacific coast type. C. A. Huffman. 1,630,101; Mar. 8.
Trimming. A. Ruppert. 1,643,815; Sept. 27.
Trimming articles. W. H. Potter. 1,625,332; Apr. 19.
Trimming device. A. A. Gagarin. 1,626,232; Apr. 26.
Trimming machine, Lining-. A. C. Smith. 1,618,235; Feb. 22.
Trimming machine, Upper-. H. A. Ballard. 1,652,694; Dec. 13.
Trimming, Narrow woven. H. A. Phillips. Des. 73,803; Nov. 8.
Trimming, Narrow woven. C. S. Wackerman. Des. 73,810-11; Nov. 8.
Trimming machine. W. Wurdack. 1,648,927; Nov. 15.
Tripod. E. E. Kapps. 1,641,592; Sept. 6.
Tripod construction. K. W. Thalhammer. 1,650,747; Nov. 29.
Tripod mount. S. G. Green. 1,639,846; Aug. 23.
Tripod, Universal panoramic. F. E. Garbutt. 1,624,096; Apr. 12.
Triturating machine. A. F. Files. 1,620,639; Mar. 15.
Trolley. J. L. Pearing and H. F. Wellman. 1,618,072; Feb. 15.
Trolley. H. W. Hoffmaster. 1,652,009; Dec. 6.
Trolley, Automatic safety. P. and D. Fasson. 1,628,536; May 10.
Trolley base. E. A. Larson. 1,614,201; Jan. 11.
Trolley-bucket-rope take-up. H. V. Harding. 1,631,030; May 31.

- Trolley construction. P. C. Richter. 1,646,217; Oct. 18.
 Trolley contact. C. S. Eppley. 1,644,013; Oct. 4.
 Trolley control. J. G. McMakin. 1,622,430; Apr. 5.
 Trolley guard. H. P. Chandler. 1,652,425; Dec. 13.
 Trolley harp and contact device. S. Maggio. 1,642,257; Dec. 13.
 Trolley pole. S. Pulaski. 1,643,751; Sept. 27.
 Trolley-rail casing. E. Nihski. 1,613,288; Jan. 4.
 Trolley retriever. J. W. Hurst. 1,646,585; Oct. 25.
 Trolley-shoe guard. W. Schaeke. 1,628,917; May 17.
 Trolley shoe. Pantograph. O. M. Jorstad. 1,638,856; Aug. 16.
 Trolley switch. G. W. Packer. 1,644,268; Oct. 4.
 Trolley switch. C. L. Moon. 1,632,557; June 14.
 Trolley switch. J. J. Ruddick. 1,624,011-12; Apr. 12.
 Trolley wheel. F. M. Clark. 1,642,765; Sept. 20.
 Trolley wheel. L. E. Harmon. 1,620,203; Mar. 8.
 Trolley wheel. S. H. Noyes. 1,613,189; Jan. 4.
 Trolley wheel. C. H. Schafer. 1,614,155; Jan. 11.
 Trolley wheel. W. E. Specht. 1,617,085; Feb. 8.
 Trolley wheel. F. Thornton. 1,622,296; Mar. 29.
 Trolley-wheel retainer. H. G. Winter. 1,640,304; Aug. 23.
 Trolley wires, Hanger for. F. A. Tice. 1,629,368; May 17.
 Trolley wires, Suspension of. M. J. Griffith. 1,643,209; Sept. 20.
 Trolling lure. J. E. Brown. 1,617,318; Feb. 15.
 Trolling spoon. N. Rightmire. 1,647,850; Jan. 11.
 Trombone attachment. E. D. Coe. 1,647,102; Oct. 25.
 Trombone, Slide. F. A. Buescher. 1,624,310; Apr. 12.
 Trombone, Slide. F. A. Buescher. 1,647,079; Oct. 25.
 Tropical house. T. Monterubio. 1,620,776; Mar. 15.
 Trouble-indicating system. E. B. Craft and L. Keller. 1,614,285; Jan. 11.
 Trouble-indicating system. L. M. Potts. 1,620,286; Mar. 8.
 Trough, animal drinking. J. Arkfeld. 1,644,660; Oct. 11.
 Trough, Fox feed. C. C. Buck. 1,639,554; Aug. 16.
 Trough, Glass-feeding. J. Rau. 1,647,541; Nov. 1.
 Trough, Mixing. A. E. Tuttle. 1,614,436; Jan. 11.
 Trough, Poultry-feed. R. E. Moelling. 1,644,263; Oct. 4.
 Trough, Watering. H. Wieben. 1,638,150; June 21.
 Troughs for fed cattle, Division of feeding. W. Thompson. 1,652,068; Dec. 8.
 Trouser-cuff support. P. Jantzen. 1,654,083; Dec. 27.
 Trouser shield. C. S. Knapp. 1,651,775; Dec. 6.
 Trouser stretcher. R. Frey. 1,629,659; May 24.
 Trouser support. H. J. Lorang. 1,618,595; Feb. 22.
 Trouser support. G. Siebert. 1,616,763; Feb. 8.
 Trouser and making the same, Waistband for. M. Margolish. 1,614,965; Jan. 18.
 Trousers, Football. G. W. Cruden. 1,638,555; July 19.
 Trousers for athletes. H. K. Atwell. 1,619,176; Mar. 1.
 Trousers hanger. M. S. Clawson. 1,635,033; July 5.
 Trousers supporter. H. M. Siegel. 1,625,166; Apr. 19.
 Trousers, Supporting attachment for. A. J. Cummings. 1,638,921; Aug. 16.
 Trousers, Waistband for. W. B. Foster. 1,652,567; Dec. 13.
 Trousers, Waistband for. W. E. Le Roy. 1,652,536; Dec. 13.
 Trousers, Waistband for. W. J. Stauss. 1,652,543; Dec. 13.
 Trousers while on weaver. Apparatus for pressing. T. B. Lambert and J. McCombs. 1,642,816; Sept. 20.
 Trowel. F. Benzing. 1,654,449; Dec. 27.
 Trowel. W. C. Pratt. 1,648,324; Nov. 8.
 Trowel, Form. T. L. Miller. 1,613,239; Jan. 4.
 Trowel, Plumb. G. Kuhar. 1,617,125; Feb. 8.
 Truck. F. M. Bell. 1,623,298; Apr. 5.
 Truck. A. J. Bentley. 1,638,469; Aug. 9.
 Truck. P. F. Burgett. 1,640,263; Aug. 23.
 Truck. J. W. Coates. 1,636,172; July 19.
 Truck. W. E. Hardacker. 1,645,485; Oct. 11.
 Truck. F. D. Holdsworth. 1,614,029; Jan. 11.
 Truck. M. P. Holmes. 1,613,106; Jan. 4.
 Truck. M. P. Holmes. 1,652,528; Dec. 13.
 Truck. W. J. Miller. 1,621,555; Mar. 22.
 Truck. W. H. Phillips. 1,654,188; Dec. 27.
 Truck. E. L. Schellens and J. S. Coffin, jr. 1,621,606; Mar. 22.
 Truck. E. L. Schellens and J. S. Coffin, jr. 1,648,964; Nov. 15.
 Truck. J. P. Shamberger. 1,649,134; Nov. 15.
 Truck. N. Shannon, jr. 1,627,253; May 3.
 Truck. W. M. Sheehan. 1,634,307; July 5.
 Truck. G. M. Turner. 1,635,198; July 12.
 Truck. H. B. Walker. 1,635,018; July 5.
 Truck, Adjustable end. R. E. Nelles. 1,631,545; June 7.
 Truck and similar conveyance. J. E. Lavigne. 1,646,547; Oct. 25.
 Truck and wagon dump, Combination. F. S. Harshbarger. 1,621,779; Mar. 22.
 Truck and weigher, Combination. E. L. Byrns. 1,633,761; June 28.
 Truck attachment, Hand. H. M. Perry. 1,636,574; July 19.
 Truck, Barrel-emptying hand. C. G. Carlson. 1,636,682; July 26.
 Truck, Barrel or drum. R. N. Sheldon. 1,615,919; Feb. 1.
 Truck body. S. E. Travis, jr. 1,614,412; Jan. 11.
 Truck body, Gravity-dumping. L. Crooke. 1,652,000; Dec. 6.
 Truck-body-locking mechanism, Removable. W. M. Baxter. 1,615,532; Jan. 25.
 Truck-body mount. S. E. Travis, jr. 1,630,145; May 24.
 Truck body, Slide-rail. S. E. Travis, jr. 1,652,069; Dec. 6.
 Truck bolster. B. Haskell. 1,628,839; May 17.
 Truck bolster. C. F. Huntoon. 1,619,675-6; Mar. 1.
 Truck-bolster reinforcement saddle. S. F. Beasley. 1,647,767; Nov. 1.
 Truck bolster with absorption mechanism. T. H. Symington and P. R. Drenning. 1,633,503; June 21.
 Truck bolster with absorption mechanism. T. H. Symington and P. R. Drenning. 1,642,761; Sept. 20.
 Truck, Booster-motor. H. M. Pfleger. 1,642,890; Sept. 20.
 Truck brake, Automatic stevedore. A. J. Becker. 1,640,308; Aug. 23.
 Truck brake, Warehouse. J. H. Brown. 1,632,217; June 14.
 Truck cab. J. P. Harrison, jr. 1,651,453; Dec. 6.
 Truck, Car. N. B. Akitt. 1,650,173-5; Nov. 22.
 Truck, Car. D. S. Barrows. 1,652,808; Dec. 13.
 Truck, Car. S. P. Bush. 1,635,740; July 12.
 Truck, Car. W. E. Fowler, jr. 1,654,326; Dec. 27.
 Truck, Car. B. W. Kadel. 1,630,567-70; May 31.
 Truck, Car. B. W. Kadel and D. S. Barrows. 1,630,571-4; May 31.
 Truck, Car. H. M. Pfleger. 1,642,891; Sept. 20.
 Truck, Car. H. M. Pfleger. 1,646,214; Oct. 18.
 Truck, Car. H. M. Pfleger. 1,654,141; Dec. 27.
 Truck, Car. D. R. Richards. 1,636,837; July 26.
 Truck, Car. G. K. Thompson. 1,616,154; Feb. 1.
 Truck, Car. J. H. Tucker. 1,635,910; July 12.
 Truck, Car. C. T. Westlake. 1,642,862; Sept. 20.
 Truck, Car and tender. W. F. Kiesel, jr. 1,649,352; Nov. 15.
 Truck conveyor. N. H. Preble. 1,628,909; May 17.
 Truck, Delivery. C. A. Ward. 1,649,630; Nov. 15.
 Truck, Delivery. E. R. Whitney. 1,619,775; Mar. 1.
 Truck, Dump. P. E. Barker. 1,618,629; Feb. 22.
 Truck, Dump. M. Johnson. 1,633,104; June 21.
 Truck, Dump. G. R. Pennington. 1,628,907; May 17.
 Truck, Dumping. J. P. Egholm. 1,651,627; June 7.
 Truck, Dumping. L. H. King. 1,639,092; Aug. 16.
 Truck, Electric-locomotive. W. M. Sheehan. 1,634,308; July 5.
 Truck, Electric locomotive. W. M. Sheehan. 1,636,840; July 26.
 Truck, Elevating. H. S. Germond, jr. and F. L. Eldmann. 1,646,729; Oct. 25.
 Truck, Elevating platform. C. E. Cochran. 1,628,390; May 10.
 Truck elevator. W. H. Heise. 1,628,880; May 17.
 Truck elevator utilizing parallel motion. W. H. Heise. 1,620,256; Mar. 8.
 Truck, Flexible four-wheeled driving. A. R. Meister. 1,634,450; July 5.
 Truck, Folding. W. W. Burnwat. 1,643,268; Sept. 20.
 Truck, Folding basket. C. M. Wickstrum. 1,649,203; Nov. 15.
 Truck, Food conveying. C. E. Jenkins. 1,654,330; Dec. 27.
 Truck for circuit-breaker tanks, Lifting. J. W. W. Ow. 1,624,361; Apr. 12.
 Truck for motor vehicles, Four-wheel. E. S. Crocker. 1,647,437; Nov. 1.
 Truck for railway rolling stock. F. F. Scoville. 1,616,511; Feb. 8.
 Truck for self-propelled rail cars, Bogie. L. C. Josephs, jr. 1,617,715; Feb. 15.
 Truck for transporting valuables, Armored. C. H. Wilson. 1,632,360; June 14.
 Truck for locomotive engines. J. G. Blunt. 1,652,657; Dec. 13.
 Truck frame. H. C. Priebe. 1,631,335; June 7.
 Truck, Freight-handler's. R. Krasberg. 1,642,502; Sept. 13.
 Truck, Garbage. C. H. Hamilton. 1,651,700; Dec. 6.
 Truck, Guiding. C. Jablow. 1,632,077; June 14.
 Truck, Hand. J. Chvojka. 1,636,048; July 19.
 Truck, Hand. W. B. Grow. 1,615,942; Feb. 1.
 Truck, Hand. W. Henricks. 1,637,640; Aug. 2.
 Truck, Hand. J. A. Pryor. 1,653,927; Dec. 27.
 Truck, Hoisting. J. D. Herron. 1,641,971; Sept. 13.
 Truck, House-moving. S. P. Griffin. 1,641,847; Sept. 6.
 Truck, Inboard car. D. S. Barrows. 1,649,378; Nov. 15.
 Truck, Industrial. E. E. Cochran. 1,628,389; May 10.
 Truck, Industrial. E. H. Remde. 1,620,038; Mar. 8.
 Truck, Industrial. E. H. Remde. 1,629,535; Apr. 26.
 Truck, Industrial. E. H. Remde. 1,654,470; Dec. 27.
 Truck, Industrial. C. S. Schroeder. 1,648,826; Nov. 8.
 Truck jack. H. C. Buffington. 1,647,268; Nov. 1.
 Truck jack. G. E. Wenver. 1,638,790-1; Aug. 9.
 Truck journal-box yoke, Railway. T. Elliott. 1,618,070; Feb. 15.
 Truck, Kila. H. M. Robertson. 1,636,073; July 19.
 Truck-lever connection. S. Hansson. 1,625,805; Apr. 26.
 Truck-lever connections, Making. S. Hansson. 1,625,804; Apr. 26.
 Truck, Lifting. A. M. Barrett. 1,633,390; June 21.
 Truck, Lifting. W. C. Childress. 1,636,850; July 26.
 Truck lock. F. H. Langmuir. 1,654,179; Dec. 27.
 Truck, Locomotive or car. A. F. Batchelder. 1,620,425; Mar. 8.
 Truck, Log-loading. C. A. Siders. 1,624,285; Apr. 12.
 Truck, Mining-machine. C. B. Officer. 1,641,862; Sept. 6.

- Truck-motor-frame suspension. C. Bethel. 1,626,662; May 8.
- Truck or trolley, Lifting. W. E. Kimber. 1,630,619; May 31.
- Truck, Pig-lead. W. E. Newman. 1,626,350; Apr. 26.
- Truck, Pole. H. R. Traphagen. 1,649,757; Nov. 15.
- Truck, Power-elevated dumping. P. A. Brick. 1,636,621; July 19.
- Truck, Pumping-engine. I. Marks. 1,640,417; Aug. 30.
- Truck, Railway. B. V. H. Johnson. 1,615,802; Jan. 25.
- Truck, Railway. W. A. Mitchell. 1,639,348; Aug. 16.
- Truck, Railway-car. T. V. Buckwalter. 1,640,179-80; Aug. 23.
- Truck, Railway-car. G. S. Chilea. 1,615,616; Jan. 25.
- Truck, Railway-car. W. C. Sanders. 1,640,963; Aug. 30.
- Truck, Railway-car. W. C. Sleeman. 1,644,497; Oct. 4.
- Truck, Railway motor. E. G. Hallquist. 1,650,069; Nov. 22.
- Truck, Searchlight. M. L. Patterson. 1,622,392; Mar. 29.
- Truck, Self-dumping. P. A. Brick. 1,635,515; July 21.
- Truck side frame. G. A. Anderson. 1,619,688; Mar. 1.
- Truck side frame. G. A. Anderson. 1,623,036; Apr. 5.
- Truck side frame. G. A. Anderson. 1,623,570; Apr. 5.
- Truck side frame. D. S. Barrows. 1,628,300; May 10.
- Truck side frame, Cast-car. G. T. Johnson and H. W. Sterzbach. 1,635,751; July 12.
- Truck stabilizer, Car. C. H. Tomlinson. 1,646,433; Oct. 25.
- Truck stake and mounting therefor. D. W. Riddle. 1,639,970; Aug. 23.
- Truck structure. H. A. Houston. 1,637,342; Aug. 2.
- Truck structure. J. G. Ritter. 1,650,960; Nov. 29.
- Truck structure, Car. E. G. Busse. 1,650,931; Nov. 29.
- Truck support, Radial. H. A. Houston. 1,652,530; Dec. 13.
- Truck, Tongue-supporting. H. B. Sperry. 1,635,803; July 23.
- Truck, Trailer. G. H. Cravens. 1,648,676; Nov. 8.
- Truck, trolley, vehicle, and the like. O. J. Willmot. 1,649,940; Nov. 22.
- Truck, Unit power. L. L. Cohen. 1,618,171; Feb. 22.
- Truck-wheel attachment, Compensating. A. H. Fager. 1,618,961; Feb. 22.
- Trucks, Dual-tired. L. D. Kay. 1,640,338; Aug. 23.
- Trucks and automotive vehicles, Spring hanger for. G. A. Schacht. 1,617,031; Feb. 8.
- Trucks and similar structures, Bearing for railroad. G. R. Moran. 1,635,685; July 12.
- Trucks and the like, Bearing for locomotive. J. W. Chapman and J. J. Melley. 1,636,499; July 19.
- Trucks and the like, Direction indicator for motor. J. D. Stassart. 1,635,587; July 12.
- Trucks, Dumping mechanism for motor. P. E. Barker. 1,651,988; Dec. 6.
- Trucks, Dumping unit for motor. J. C. Poth. 1,635,953-4; July 12.
- Trucks, Dumping unit for motor. J. C. Poth. 1,635,873-4; Dec. 27.
- Trucks, Final drive for motor. L. C. Huck. 1,636,819-20; July 26.
- Trucks, Frame construction for excavator. G. T. Ronk. 1,629,890; May 24.
- Trucks, Freight-handling equipment for motor. J. B. McDevitt. 1,630,398; May 31.
- Trucks, Heavy-duty trailer for. A. E. Stockford. 1,629,597; May 22.
- Trucks, Hitch device for. W. H. Odiorne. 1,650,767; Nov. 29.
- Trucks, Hoist for. J. E. Foster. 1,617,585; Feb. 15.
- Trucks, Hoisting mechanism for dump. J. E. Reid and C. L. Neiu. 1,624,977-8; Apr. 19.
- Trucks, Loading apparatus for shovel-nose hand. C. O. Carlson. 1,641,371; Sept. 6.
- Trucks, Loading device for motor. G. W. Otterson. 1,635,338; July 12.
- Trucks or the like, Guiding or controlling mechanism for. E. C. Bush. 1,633,473; June 21.
- Trucks or wagons, Gravity-dump body for. F. J. Melton. 1,631,751; June 7.
- Trucks, Power hoist for dump. R. F. Crawford. 1,633,846; June 28.
- Trucks, Safety device for elevating. F. L. Eldmann. 1,644,328; Oct. 4.
- Trucks, Shim for car. F. L. Barber. 1,640,391; Aug. 30.
- Trucks, wagons, and other vehicles, Stake for. W. Burkart. 1,631,118; June 7.
- Trunk. J. Berg. 1,617,699; Feb. 15.
- Trunk. J. A. Bolz. 1,619,561; Mar. 1.
- Trunk. C. Bullock. 1,624,714; Apr. 12.
- Trunk. F. H. Langmuir. 1,628,988; May 17.
- Trunk. C. W. Lorenz. 1,616,814; Feb. 8.
- Trunk. R. A. Totty. 1,651,645; Dec. 6.
- Trunk, Automobile. E. A. Arndt. Re16,665; June 28.
- Trunk, Collapsible garment. A. Fleischman. 1,615,265; Jan. 25.
- Trunk construction, Wardrobe. E. B. Hanson. 1,621,321; Mar. 15.
- Trunk cushion and retainer. W. C. Chesnut. 1,632,996; June 21.
- Trunk-drawer attachment. J. Ritter, jr. 1,634,302; July 5.
- Trunk fitting. G. H. Wheary. 1,626,059; Apr. 26.
- Trunk for automobiles, Detachable. W. R. Spaulding. 1,630,142; May 24.
- Trunk hasp. S. P. Darkins. 1,625,851; Apr. 19.
- Trunk holder, Removable. S. Sonin. 1,621,176; Mar. 15.
- Trunk, Interlocking, trimming, Wardrobe. J. Ritter, jr. 1,652,640; Dec. 13.
- Trunk, Jobber's display. A. W. Winship. 1,630,879; May 31.
- Trunk lock. H. B. Osgood. 1,629,728; May 24.
- Trunk lock. M. Rasmussen. 1,623,318; Apr. 5.
- Trunk lock. M. Rasmussen. 1,632,195; June 14.
- Trunk, Lock. A. Dugno. 1,648,806; Oct. 11.
- Trunk, Locking device. G. A. Schobert. 1,649,982; Nov. 22.
- Trunk-lock mechanism, Interior. A. Rauchbach. 1,617,348; Feb. 15.
- Trunk-lock structure. S. Klein. 1,623,190; Apr. 5.
- Trunk, Motor-car. D. Witbeck. 1,644,806; Oct. 11.
- Trunk rack. H. Munger. 1,613,408; Jan. 4.
- Trunk rack. E. H. Specht. 1,651,974; Dec. 6.
- Trunk, Wardrobe. I. R. Allen. 1,638,135; Aug. 9.
- Trunk, Wardrobe. C. C. Caldwell. 1,638,470; Aug. 9.
- Trunk, Wardrobe. O. G. Lemmer. 1,641,596; Sept. 6.
- Trunk, Wardrobe. M. Stokov. 1,613,731-2; Jan. 11.
- Trunk, Wardrobe. V. Weeks. 1,637,206; July 26.
- Trunking system. H. B. Johnson. 1,632,901; June 21.
- Trunking system, Straightforward. R. S. Bailey. 1,641,218; Sept. 6.
- Trunking system, Straightforward. R. S. Bailey and E. P. Broe. 1,638,430; Aug. 9.
- Trunking system, Straightforward. H. M. Bascom and C. E. Fowler. 1,650,685; Nov. 29.
- Trunks, Caster attachment for. I. G. Sviageninov. 1,642,094; Sept. 13.
- Trunks, Cushion top for wardrobe. W. C. Chesnut. 1,634,320; July 5.
- Trunks, Drawer-locking mechanism for wardrobe. S. Silverman. 1,646,424; Oct. 25.
- Trunks, Dustproof door for wardrobe. G. D. Jones. 1,617,911; Feb. 15.
- Trunks, Ironing-board attachment for wardrobe. G. D. Jones. 1,626,468; Apr. 26.
- Trunks, Locking bar for drawer-holding sections of wardrobe. H. Rauchbach. 1,646,492; Oct. 25.
- Trunks, Locking device for. M. H. Luce. Re16,643; May 31.
- Truss. D. O'Brien. 1,641,339; Sept. 6.
- Truss. W. D. Ray. 1,637,130; July 26.
- Truss. R. Schmidt. 1,638,218; Aug. 9.
- Truss. H. P. Serio. 1,615,045; Jan. 18.
- Truss. C. J. Traub. 1,639,910; Aug. 23.
- Truss. G. W. Welch. 1,618,318; Feb. 22.
- Truss, Abdominal. J. O. King. 1,628,155; May 10.
- Truss, Building. C. E. Fuller. 1,654,480; Dec. 27.
- Truss construction. H. T. Kraft. 1,645,060; Oct. 11.
- Truss for rupture. S. Futerman. 1,630,933; May 31.
- Truss, Medical. R. H. Howard. 1,644,835; Oct. 11.
- Truss member and making same. A. C. McCord. 1,615,507; Jan. 25.
- Truss or frame, Reinforcing. S. G. Griffiths. 1,618,527; Feb. 22.
- Truss pad. I. M. Pease. 1,627,992; May 10.
- Truss pad and making the same. D. L. Chesterman. 1,651,183; Nov. 29.
- Truss, Pile. D. J. MacDonald. 1,640,416; Aug. 30.
- Truss, Rupture or hernia. E. Giffhorn. 1,632,065; June 14.
- Trussed structure. G. H. Dawson and H. F. Frease. 1,613,788; Jan. 11.
- Trussed structure. H. G. Tregillus. 1,654,151-2; Dec. 27.
- Trusses, Adjustable securing device for. H. F. Baltzer. 1,640,229; Aug. 23.
- Trusses, Pad for. I. M. Pease. 1,648,861; Nov. 8.
- Trusses, Pad for hernia. G. R. E. Milligan. 1,650,641; Nov. 29.
- Try cock. W. E. Williams. 1,628,566; May 10.
- Tube. Sec.
- Washing-machine tub.
- Tub. B. H. Darrow. Re16,597; Apr. 19.
- Tub bench. F. F. Pagel and C. E. Klawitter. 1,635,902; July 12.
- Tub cover and drainer, Kitchen. H. Young. 1,641,061; Aug. 30.
- Tub and Rolling. H. T. Stropo. A. F. Hauser, and J. Hammer. 1,630,279; May 31.
- Tubs or the like, Adjustable leg for. W. E. Lindemuth. 1,621,260; Mar. 15.
- Tubs, Washing attachment for. T. R. Frattallone. 1,625,308; Apr. 19.
- Tubs, Washing attachment for. T. R. Frattallone. 1,653,454; Dec. 20.
- Tubeing. W. Brell. 1,618,973; Mar. 1.
- Tube: Sec—
- Amplifying and detecting tube. Hair-waving tube.
- Circulating tube. Neon tube.
- Collapsible tube. Paper tube.
- Cop tube. Paste tube.
- Dispensing tube. Pitot tube.
- Double tube. Pitot static tube.
- Drain tube. Pneumatic tube.
- Electrical vacuum discharge tube. Thermionic tube.
- Electron tube. Thermometer tube.
- Fermentation tube. Vacuum or thermionic tube.
- Glow-discharge tube. Vacuum tube.
- X-ray tube.

- Tube. R. M. Witt. 1,630,555; May 31.
 Tube and manufacture of same. Röntgen. A. F. Wuromus. 1,648,526; Nov. 8.
 Tube and tire saving device. T. P. Roth. 1,648,825; Nov. 8.
 Tube and tongue depressor. Combined suction. F. A. Beck. 1,613,373; Jan. 4.
 Tube apparatus, Pneumatic. J. J. Stoetzel. 1,624,078; Apr. 12.
 Tube Bender. E. Möhrli. 1,621,128; Mar. 15.
 Tube-bending machine. T. T. Robinson. 1,624,804; Apr. 12.
 Tube boiler, Vertical fire. O. S. Bowman. 1,624,908; Apr. 19.
 Tube cleaner. E. Bertone. 1,641,312; Sept. 6.
 Tube cleaner. J. P. Grace. 1,644,995; Oct. 11.
 Tube circuits, Thermionic. B. Olney. 1,652,148; Dec. 6.
 Tube-cleaning apparatus for tinning purposes. C. D. Dallas. 1,643,545; Sept. 27.
 Tube-cleaning projectile. G. C. Cook and J. A. Coleman. 1,634,094; June 28.
 Tube closure, Collapsible. J. D. Miller. 1,621,801; Mar. 22.
 Tube closure, Collapsible. E. C. Van Valkenburg. 1,621,294; Mar. 15.
 Tube connection. C. G. Hawley. 1,644,188; Oct. 4.
 Tube connection, Circulating. J. P. Arthur. 1,639,251; Aug. 16.
 Tube connection, Double. R. H. Smickle. 1,616,146; Feb. 1.
 Tube construction, Electron. M. B. Forrester. 1,613,791; Jan. 11.
 Tube coupling. A. L. Parker. 1,619,755; Mar. 1.
 Tube-cutting machine. E. M. Hawkins. 1,619,975; Mar. 8.
 Tube-cutting machine. C. R. Seymour. 1,626,878; May 8.
 Tube-end beveling and sealing device. C. E. Maynard. 1,642,456; Sept. 13.
 Tube expander. J. Walker. 1,638,422; Aug. 9.
 Tube for measuring the flow of water through closed conduits, Multiple Pitot and piezometer. D. W. Probstel. 1,645,449; Oct. 11.
 Tube-forming machine. W. E. Barlow. 1,614,043; Jan. 18.
 Tube-forming mill. R. C. Stiefel. 1,622,744; Mar. 29.
 Tube frame. W. Bixby. 1,621,453; Mar. 15.
 Tube frame. E. F. Hathaway and C. Lea. 1,631,092; May 31.
 Tube frame. E. R. Holmes and W. H. Wakefield. 1,616,497; Feb. 8.
 Tube frame. C. Lea. 1,631,101; May 31.
 Tube-frame bracket. A. A. Gordon. 1,654,122; Dec. 27.
 Tube frames, Spool-supporting means for. E. F. Hathaway. 1,631,095; May 31.
 Tube frames, Tuft tube for. E. F. Hathaway. 1,635,671; July 12.
 Tube frames, Yarn spool for. E. F. Hathaway and W. Bixby. 1,631,093; May 31.
 Tube frames, Yarn spool for. E. F. Hathaway and W. Bixby. 1,631,093; May 31.
 Tube holder and paste ejector. F. P. Drohan. 1,620,955; Mar. 15.
 Tube holder, Collapsible. A. Kassler. 1,652,862; Dec. 13.
 Tube holder, Collapsible. S. W. Lawton. 1,617,917; Feb. 15.
 Tube holder, Collapsible. A. G. Leake. 1,631,275; June 7.
 Tube holder, Collapsible. C. A. Perkins. 1,644,145; Oct. 4.
 Tube holding and compressing device, Collapsible. E. R. Hamilton. 1,618,377; Feb. 22.
 Tube ironing and gripping device. R. J. Jauch. 1,625,471; Apr. 19.
 Tubeironing and apparatus. J. V. James. 1,626,412; Apr. 26.
 Tube manufacture. C. E. Maynard. 1,615,992; Feb. 1.
 Tube mill and process. O. Bamberger. 1,617,936; Feb. 15.
 Tube mills, etc., Liner for. P. T. Lindhard. 1,631,971; June 14.
 Tube mills, Liner for. P. T. Lindhard. 1,631,972; June 14.
 Tube paste filler and closer, Collapsible. R. Taub. 1,655,322; Dec. 20.
 Tube press, Hydraulic. L. Löwy. 1,654,134; Dec. 27.
 Tube-repairing clamp. R. Santmyer. 1,640,376; Aug. 30.
 Tube sender, Arrangement for controlling. A. Semm and W. Schneider. 1,620,759; May 3.
 Tube-skiving apparatus. A. E. Falor. 1,635,710; July 12.
 Tube socket. M. Guett. 1,633,404; June 21.
 Tube socket. F. S. Sinclair. 1,621,381; Mar. 15.
 Tube socket, Vacuum. R. Schur. 1,628,001; May 10.
 Tube-sorting machine, Automatic cut. H. D. Madden and J. J. Higgins. 1,623,352; Apr. 5.
 Tube-splicing device. A. Huettner. 1,616,958; Feb. 8.
 Tube-splicing method. E. W. Bierman. 1,637,466; Aug. 2.
 Tube spring, Bourdon. J. C. Shaw. 1,632,749; June 14.
 Tube-stock-cutting apparatus. H. D. Stevens. 1,622,257; Mar. 22.
 Tube vulcanizer. O. J. Kuhlke. 1,652,366; Dec. 13.
 Tube with an unusable cap, Collapsible. G. E. Baker. 1,637,890; Aug. 2.
 Tube-working machines, Thread cutter for. W. T. Davis. 1,626,271; Apr. 26.
 Tubing. H. Schlaich. 1,622,397; Mar. 29.
 Tubing and apparatus therefor, Treating. A. M. Bates. 1,634,066; June 28.
 Tubing and making same, Adjustable cylindrical. E. E. Novotny and F. W. Cary. 1,616,063; Feb. 1.
 Tubing, Apparatus for elevating and lowering oil-well. A. E. Carlson. 1,620,190; Mar. 8.
 Tubing, Apparatus for unlifting. W. Ledig and H. Asmussen. 1,640,458; Aug. 30.
 Tubing bleeder. G. C. Bushong. 1,624,311; Apr. 12.
 Tubing bleeder. L. H. Riley and C. O. Wood. 1,639,004; Aug. 16.
 Tubing bleeder. E. D. Smyser. 1,643,908; Sept. 27.
 Tubing catcher. S. V. Dillon. 1,640,756; Aug. 30.
 Tubing catcher for wells, Automatic. R. A. Wilson. 1,642,136; Sept. 13.
 Tubing cleaner. A. E. Neumeyer. 1,639,660; Aug. 23.
 Tubing, Composite. H. W. Bundy. 1,650,321; Nov. 22.
 Tubing, Flexible. H. Cooper. 1,637,141; July 26.
 Tubing from separate reels of skelp, Apparatus for manufacturing continuous. J. W. Moon. 1,622,338; Mar. 29.
 Tubing hanger, Rotatable. S. P. Tschappat. 1,650,102; Nov. 22.
 Tubing, Implement for smoothing belt. N. C. Kenney. 1,647,526; Nov. 1.
 Tubing machine. V. Royle. 1,618,026; Feb. 15.
 Tubing machine. V. Royle. 1,645,157; Oct. 11.
 Tubing machines, Steering mechanism for. V. Royle. 1,627,576; May 10.
 Tubing, Making. C. Skoglund. 1,631,651; June 7.
 Tubing, Manufacturing metal. J. W. Moon. 1,629,724; May 24.
 Tubing, Method and apparatus for covering. W. E. Jaquith, B. A. Evans, and G. Foerster. 1,639,408; Aug. 16.
 Tubing, Method and apparatus for manufacturing. A. Laugblin, Jr. 1,616,861; Feb. 8.
 Tubing, Method and apparatus for shaping metallic. W. Lindblom. 1,645,434; Oct. 11.
 Tubing, Method of and machine for making. C. D. Dallas. 1,652,396; Dec. 13.
 Tubing stripper. I. C. Bell. 1,639,209; Aug. 16.
 Tubes and like devices, Exhausting thermionic. H. E. Metcalf. 1,651,065; Nov. 29.
 Tubes and similar articles, Machine for making. G. A. Folsy. 1,641,222; Sept. 6.
 Tubes and using the same, Making a rubber composition for lining. J. Schwab, Jr. 1,639,831; Aug. 23.
 Tubes, Apparatus for deflating. H. D. Stevens. 1,629,128; May 17.
 Tubes, Apparatus for producing pneumatic. W. L. Fairbank. 1,632,394; June 14.
 Tubes, Apparatus for the manufacture of rubber or the like. J. Dalglish. 1,620,521; Mar. 8.
 Tubes, Cap for paste. D. L. Gallert. 1,631,525; June 7.
 Tubes, Closure for collapsible. A. E. Smith. 1,650,966-7; Nov. 29.
 Tubes, Connecting. J. A. Taylor. 1,633,798; June 28.
 Tubes, Connection for. F. Kusterle. 1,630,492; May 31.
 Tubes, Container for collapsible. I. T. Kahn. 1,643,381; Sept. 27.
 Tubes, Cutting-off device particularly for. P. Geden and K. Schwade. 1,625,850; Apr. 26.
 Tubes, Determining inequalities in wall thickness of. 1,638,159; Aug. 9.
 Tubes, Device for holding collapsible. C. Hopewell. Geden and K. Schwade. 1,626,524; Apr. 26.
 Tubes, Device for the electrical welding of seamed. P. F. A. Hubbard. 1,632,076; June 14.
 Tubes internally, Coating. C. M. Nelson. 1,612,119; Jan. 4.
 Tubes, Making. L. T. Frederick. 1,646,479; Oct. 25.
 Tubes, Manufacture of butt and lap welded. D. W. Chisham. 1,642,782; Sept. 20.
 Tubes, Method and apparatus for making. C. H. Semple. 1,643,999; Oct. 4.
 Tubes, Method of and apparatus for severing and valving bag. A. M. Bates, G. P. Dorr, and J. E. Dancker. 1,623,228; Apr. 5.
 Tubes, Method of and apparatus for spirally winding wire on. W. T. Davis. 1,645,803; Oct. 18.
 Tubes, Mold and method for constructing continuous. B. C. Seaton. 1,625,284; Apr. 19.
 Tubes of cement asbestos or similar substances, Apparatus for the manufacture of. D. Mattei and A. Mazza. 1,627,104; May 3.
 Tubes of pipes, Apparatus for eliminating dents in. L. E. Brown. 1,623,637; Apr. 5.
 Tubes or the like, Automatic closure for collapsible. H. Lentz. 1,640,782; Aug. 30.
 Tubes or the like, Closure for. F. C. Collins. 1,640,481; Aug. 30.
 Tubes, Process and apparatus for forming. A. M. Bates. 1,634,067; June 28.
 Tubes, Process of and machine for making fiber. H. Parker. 1,651,407; Dec. 6.
 Tubes, Rolling. J. Roeder and W. Wellmann. 1,626,481; Apr. 26.
 Tubes, Support for collapsible container. B. C. Blackmon. 1,638,613; Aug. 9.

- Tubes, Terminal connection for removable. A. Cotton. 1,551,016; Nov. 29.
- Tubular articles from pulposus material, Producing. C. H. Franks. 1,632,398; June 14.
- Tubular articles, Method and apparatus for making. C. C. Cadden, F. Slusher, and B. A. Evans. 1,649,808; Nov. 22.
- Tubular articles, Slicing. A. F. Thener. 1,654,021; Dec. 27.
- Tubular bodies in holes of other bodies, Fastening. G. J. Hartnett. 1,647,447; Nov. 1.
- Tubular coupling. R. A. Wilson. 1,614,815; Jan. 18.
- Tubular dispenser. F. McLaughlin. 1,637,955; Aug. 2.
- Tubular fabrics, Machine for forming. F. Gardner. Re 63,517; Jan. 4.
- Tubular members, Shearing. W. E. Amberg. 1,635,807; July 12.
- Tubular or tubelike articles, Machine for manufacturing. R. S. Setten. 1,652,912; Dec. 13.
- Tubular-spoked wheel. W. E. Williams. 1,636,541; July 19.
- Tuberculosis protective and curative material, Producing. H. Langer. 1,617,060; Feb. 8.
- Tufting machine. E. W. Steinbeck. 1,614,576; Jan. 18.
- Tug, Reversible hame. T. W. Owens. 1,615,477; Jan. 25.
- Tumbler. T. C. Helsey. Des. 73,031; July 12.
- Tumbler cap and closure. A. Yancey. 1,644,458; Oct. 4.
- Tumbler lock. H. F. George. 1,619,252; Mar. 1.
- Tumbler lock. E. N. Jacobi. 1,645,006; Oct. 11.
- Tumbler or article of similar nature. O. C. Buell. Des. 72,789-4; May 31.
- Tumbler or similar article of glassware. G. Dougherty. Des. 73,426; Sept. 13.
- Tumbler or similar article of glassware. E. C. Schrader. Des. 73,511; Sept. 20.
- Tumblers, Air supply for. A. Anfossi. 1,624,650; Apr. 12.
- Tumbling mill. H. W. Titten. 1,642,632; Sept. 13.
- Tungsten contact-breaker arm. A. J. Liebmann. 1,650,897; Nov. 29.
- Tungsten filaments, Apparatus for forming. W. L. Miller. 1,638,893; Aug. 16.
- Tuning forks, Temperature-compensating means for maintaining constant frequency in. H. A. Whitehorn. 1,653,794; Dec. 27.
- Tuning pin hooks and making the same. R. C. Danly. 1,629,095; May 17.
- Tunnel construction. P. Zucco. 1,642,709; Sept. 20.
- Tunnel drier. W. E. Hamilton and E. J. Bagnall. 1,644,779; Oct. 11.
- Tunnel for flight of models, Wind. E. N. Fales. 1,635,038; July 5.
- Tunnel forms, Jumbo for. H. E. Heller. 1,621,538; Dec. 22.
- Tunnel kiln. J. Kellehen. 1,643,775; Sept. 27.
- Tunnel, Sectional. D. E. Ross. 1,642,559; Sept. 13.
- Tunnel-ventilating system. J. M. Woll. 1,643,868; Sept. 27.
- Tunneling device. H. M. Watchorn. 1,650,103; Nov. 22.
- Tunnels, Constructing underground. J. J. Kennedy. 1,644,476; Oct. 4.
- Tunnels, Suction-extracting device for. P. Wagich. 1,631,442; June 7.
- Turbine. T. K. Corless. 1,653,391; Dec. 20.
- Turbine. W. M. Cross. 1,637,105; July 26.
- Turbine. D. C. Davis. 1,634,897; July 5.
- Turbine. F. Hodgkinson. 1,623,999; Apr. 12.
- Turbine. A. T. Kasley. 1,620,662-3; Mar. 15.
- Turbine. H. T. Werber. 1,630,151; May 24.
- Turbine aggregate. F. Ljungström. 1,638,944; Aug. 16.
- Turbine and condenser connection, Expansion joint for. J. F. Grace. 1,639,225; Aug. 16.
- Turbine and rotary compressor. C. Lorenzen. 1,640,784; Aug. 30.
- Turbine and utilizing high-pressure steam therein, High-pressure steam. F. Losel. 1,632,907; June 21.
- Turbine, Annular-jet. H. B. Taylor. 1,613,971; Jan. 11.
- Turbine, Back-pressure or noncondensing steam. O. A. Wiberg. 1,647,421; Nov. 1.
- Turbine bearings, Protective means for. E. H. McFarland. 1,640,463; Aug. 30.
- Turbine-blade. R. C. Allen. 1,621,618; Mar. 22.
- Turbine-blade bracing. F. Hodgkinson. 1,618,284; Feb. 22.
- Turbine-blade fastening. H. R. Trotter and H. F. Schmidt. 1,638,643; Aug. 9.
- Turbine-blade lashing. H. A. Meissner. 1,618,292; Feb. 22.
- Turbine-blade lashing. J. L. Ray. 1,618,296; Feb. 22.
- Turbine-blade shrouding. H. F. Schmidt. 1,625,433; Apr. 19.
- Turbine, Bleeder. H. T. Herr. 1,647,178; Nov. 1.
- Turbine, Bleed. J. F. Johnson. 1,619,129; Mar. 1.
- Turbine bleeding. R. Marsland. 1,638,639; Aug. 9.
- Turbine, Combustion. C. N. Koch. 1,653,217; Dec. 20.
- Turbine-cooling means. R. C. Allen. 1,634,894; July 5.
- Turbine, Draft. W. S. Coleman. 1,651,054; Nov. 29.
- Turbine, Elastic-fluid. W. H. Atkinson. 1,617,190; Feb. 8.
- Turbine, Elastic-fluid. J. H. Doran. 1,614,233; Jan. 11.
- Turbine, Elastic-fluid. R. F. Halliwell. 1,615,697; Jan. 25.
- Turbine, Elastic-fluid. R. F. Halliwell. 1,648,681; Nov. 8.
- Turbine, Elastic-fluid. H. T. Herr. 1,646,861; Oct. 25.
- Turbine, Elastic-fluid. F. Hodgkinson. 1,625,541; Apr. 19.
- Turbine, Elastic-fluid. O. Junggren. 1,640,451; Aug. 30.
- Turbine, Elastic-fluid. F. Lösel. 1,625,263; Apr. 18.
- Turbine, Elastic-fluid. G. B. Warren. 1,631,660; June 7.
- Turbine, Elastic-fluid. G. B. Warren. 1,651,855; Dec. 6.
- Turbine engine. W. H. Belknap. 1,615,062; Jan. 18.
- Turbine, Free-jet. G. and F. Trefftz. 1,650,475; Nov. 22.
- Turbine-generator set. E. J. Blake. 1,645,411; Oct. 11.
- Turbine gland. F. Hodgkinson. 1,626,237; Apr. 26.
- Turbine gland with more than one pipe connection, Steam. A. M. P. Lundegaard. 1,632,981; June 21.
- Turbine, Hydraulic. E. Gross and E. J. Briknar. 1,641,756; Sept. 6.
- Turbine, Hydraulic. A. Pfau. 1,629,443; May 17.
- Turbine, Hydraulic. R. V. Terry. 1,647,156; Nov. 1.
- Turbine, Hydraulic. W. M. White. 1,641,363; Sept. 6.
- Turbine, Impulse. C. A. Jackson. 1,613,950; Jan. 11.
- Turbine, Impulse. H. B. Taylor. 1,623,446; Apr. 5.
- Turbine installation, Elastic-fluid. F. Lösel and G. Pagel. 1,614,128; Jan. 11.
- Turbine, Internal-combustion. L. L. Ardin. 1,616,646; Feb. 8.
- Turbine, Internal-combustion. F. Wondra. 1,632,157; July 14.
- Turbine lubrication. J. W. Saybolt. 1,616,829; Feb. 8.
- Turbine-reversing mechanism. A. H. Katterjohn. 1,640,082; Aug. 23.
- Turbine rotor. S. A. Moss. 1,614,145; Jan. 11.
- Turbine, Steam. L. M. Almsay and A. J. Smith. 1,614,007; Jan. 4.
- Turbine, Steam. A. W. Bennett. 1,652,085; Dec. 6.
- Turbine, Steam. P. Davis. 1,613,694; Jan. 11.
- Turbine, Steam. F. Lösel. 1,618,596-7; Feb. 22.
- Turbine, Steam. W. Pape. 1,622,805; Mar. 29.
- Turbine, Two-way water. W. Finne. 1,615,619; Jan. 25.
- Turbine, Vertical hydraulic. E. K. Innes. 1,646,405; Oct. 25.
- Turbine, Vertical-shaft. A. Hollander. 1,644,130; Oct. 4.
- Turbine, Water. J. Leopold. 1,640,783; Aug. 30.
- Turbine, Wind. M. L. Webb. 1,619,643; Mar. 1.
- Turbine windmill. M. E. Wilson. 1,646,673; Oct. 25.
- Turbines, and gas turbines, Rotor blading for rotary engines, particularly for steam. A. Zolly and P. Spiess. 1,639,247; Aug. 16.
- Turbines and the like, Gate apparatus for. R. Thomann. 1,643,093; Sept. 20.
- Turbines and the like, Spiral casing for hydraulic. M. Heckerlein. 1,621,719; Mar. 22.
- Turbines, Automatic starting and stopping arrangement for. F. Trefftz. 1,652,070; Dec. 6.
- Turbines, Blade of internal-combustion. G. Belluzzo. 1,651,503; Dec. 6.
- Turbines, Clearance indicator for. W. B. Flanders. 1,639,494; Aug. 16.
- Turbines, Control for steam. C. R. Waller. 1,625,004; Apr. 19.
- Turbines, Controlling the flow of elastic fluid in. R. Birmann. 1,613,868; Jan. 11.
- Turbines, Governing means for. C. R. Waller. 1,630,725; May 31.
- Turbines, Governing mechanism for elastic fluid. W. L. R. Emmet. 1,620,528; Mar. 8.
- Turbines, Governing mechanism for steam. W. B. Flanders. 1,622,100; Mar. 22.
- Turbines, Manufacturing. P. C. Dimberg. 1,621,001-2; Mar. 15.
- Turbines, Manufacturing. G. Klenk. 1,620,974; Mar. 15.
- Turbines or the like, Packing gland for elastic-fluid. P. Pochobradsky. 1,642,035; Sept. 13.
- Turbines, Regulating means for elastic fluid. R. G. Standewick. 1,629,68-9; May 17.
- Turbines, Runner for. G. A. Biggs. 1,613,816; Jan. 11.
- Turbines, Stationary guide-nozzle construction and assembly for. F. Lösel. 1,632,448; June 14.
- Turbo blower. C. W. Dake. 1,637,474; Aug. 2.
- Turbine, T. Von Kármán and K. Fromm. 1,622,930; Mar. 29.
- Turbulence, Apparatus for and method of creating. P. L. Scott. 1,623,704; Apr. 5.
- Turnback apparatus. R. J. Bartholomew. 1,652,998; Dec. 20.
- Turn indicators, Support for gyroscopic. P. Schilovsky. 1,654,385; Dec. 27.
- Turning device. C. S. Nelson. 1,639,856; Aug. 23.
- Turning machine. D. Turcott. 1,650,669; Nov. 29.
- Turn-page clamp. E. S. Costa. 1,646,747; Oct. 25.
- Turnstile. D. R. Bacon. 1,646,078; Oct. 18.
- Turnstile. J. J. McLaughlin. 1,623,744; Apr. 5.
- Turnstile. F. J. McLaughlin. 1,617,918; Feb. 15.
- Turnstile. A. L. Roberts. 1,652,958; Dec. 13.
- Turnstile apparatus, Coin-controlled and change-making. D. L. Chandler. 1,625,242; Apr. 19.
- Turntable. A. L. Cresci. 1,646,882; Aug. 30.
- Turntable. W. M. Layton. 1,617,083; Feb. 8.
- Turntable. J. Lazzaro. 1,614,891; Jan. 18.
- Turntable. K. Mayer. 1,620,273; Mar. 8.
- Turntable-bearing device. J. D. Rauch. 1,635,689; July 12.
- Turntable center. C. M. Goodrich. 1,634,417; July 5.
- Turntable center. C. M. Goodrich. 1,636,993; July 26.
- Turntable, Transfer. R. Craig. 1,633,980; June 28.
- Turpentine-gathering apparatus. T. P. Keaton. 1,622,119; Mar. 22.

- Turpentine, Manufacture of a substitute for. L. L. Odum. 1,625,622; Apr. 19.
- Turret tool post. M. Bozzini. 1,636,167; July 19.
- Tuyère structure. R. L. Beers. 1,620,056; Mar. 8.
- Tuyère structure, Slide. R. L. Beers. 1,620,057; Mar. 8.
- Tweezers, finger-nail file, and cleaner, Combined. R. P. Considine. 1,616,355; Feb. 1.
- Twin chair. W. E. White. 1,621,183; Mar. 15.
- Twine and rope cutter. D. S. Dillenbach. 1,621,357; Mar. 15.
- Twine ball, cross wound bobbin, or the like, Spoolless. W. Hoos. 1,628,244; May 10.
- Twine holder. C. March. 1,626,545; Apr. 26.
- Twine holder. C. V. Woolman. 1,618,901; Feb. 22.
- Twine machines, Stop and brake for. J. B. Crawford. 1,633,477; June 21.
- Twister rings, Traveler for. G. H. Gilligan. 1,636,992; July 26.
- Twister traveler and making same. P. C. Wentworth. 1,642,472; Sept. 13.
- Twisting device. O. G. J. S. de Roysanour. 1,618,519; Feb. 22.
- Twisting machine. S. A. Reed. 1,635,009; July 5.
- Twisting machine. W. Siebenmorgen. 1,615,524; Jan. 25.
- Twisting machinery. C. Smith and F. Yorke. 1,642,218; Sept. 13.
- 2-Aminoanthraquinone, Manufacture of. D. G. Rogers. 1,644,494; Oct. 4.
- Two-cycle engine. E. J. Hart. 1,642,655; Sept. 13.
- Two-cycle engine, Double-piston. O. O. Fusch. 1,630,841; May 31.
- Two-cycle internal-combustion engine. R. Hildebrand. 1,622,717; Mar. 29.
- Two-cycle motor, Valveless. F. Balcerzak. 1,639,160; Aug. 16.
- Two-cycle rotary plant. C. P. Brockway. 1,625,790; Apr. 26.
- Two-stroke-cycle motor. H. Dick. 1,612,968; Jan. 4.
- 2:3-aminonaphthoic acid, Manufacture of. R. Tobler. 1,629,894; May 24.
- 2,3-hydroxynaphthoic acid, Making. W. S. Calcott, A. H. Hitch, and H. W. Mahr. 1,648,839; Nov. 8.
- Typanum clamp. H. M. Barber. 1,629,985; May 24.
- Type bar. H. A. Foothorap. 1,618,075; Feb. 15.
- Type-bar action, Silent. C. Spiro. 1,653,316; Dec. 20.
- Type-bar mechanism. A. N. Woodruff. 1,619,391; Mar. 1.
- Type bars, Appliance for storing. E. Tensfeldt. 1,648,203; Nov. 8.
- Type bars, Mold for casting. W. M. Bower, C. S. Burdon, and C. L. Stern. 1,628,573; May 10.
- Type binder, Printer's. D. P. McLaughlin. 1,648,417; Nov. 8.
- Type carrier, Adjustable. H. Swanson. 1,617,876; Feb. 15.
- Type-casting machines, Pot feeder for. G. M. Cox. 1,631,014; May 31.
- Type-casting machines, Pot mouthpiece wiper for. G. Fankuch. 1,636,430; July 19.
- Type clamp, Galley. E. W. Beedle. 1,633,918; June 28.
- Type-cleaning compound. E. L. Faber. 1,629,862; May 24.
- Type-composing machines, Justification mechanism for. E. K. Hunter. 1,647,408; Nov. 1.
- Type-distributing machine. F. H. Poeppelmeier. 1,618,350; Feb. 22.
- Type-forming machines, Mold for. J. C. Norwood and E. B. Hallauer. 1,615,031; Jan. 18.
- Type-frame lifter. A. Wilson. 1,640,683; Aug. 30.
- Type hanger. R. C. Smith. 1,645,358; Oct. 11.
- Type inductance coil, Sectional-. W. W. Brown and J. E. Love. 1,621,456; Mar. 15.
- Type lifting and lowering device for portable typewriters, Automatic. G. B. Vergard. 1,650,750; Nov. 29.
- Type-line setting and casting machine. E. Uhthoff. 1,613,972; Jan. 11.
- Type-line setting and casting machine. E. Uhthoff. 1,618,898; Feb. 22.
- Type lock, Automatic. E. W. Beedle. 1,622,175; Mar. 22.
- Type setting and casting machines, Device for cleaning matrices of. C. Christel. 1,623,016; Mar. 29.
- Typesetting apparatus. C. A. H. Bullock. 1,631,515; June 7.
- Typesetting machines, Keyboard attachment for. C. A. Stoppie. 1,613,679; Jan. 11.
- Typewriter. L. Brass. 1,620,942; Mar. 15.
- Typewriter. C. U. Carpenter. 1,644,108; Oct. 4.
- Typewriter. S. A. Dean. 1,627,016; May 3.
- Typewriter. J. Hilgert. 1,633,665; June 28.
- Typewriter. V. Ibriský. 1,651,455; Dec. 6.
- Typewriter. H. Peeters. 1,634,042; June 28.
- Typewriter. J. C. Redick. 1,650,259; Nov. 22.
- Typewriter. M. Shimada. 1,641,297; Sept. 6.
- Typewriter. O. Tyberg. 1,652,463; Dec. 13.
- Typewriter accessory. O. Tyberg. 1,647,674; Nov. 1.
- Typewriter attachment. J. W. A. Eimes. 1,650,866; Nov. 29.
- Typewriter attachment. J. H. Rand. 1,643,997; Oct. 4.
- Typewriter carriage-return mechanism. A. Gruich. 1,650,443; Nov. 29.
- Typewriter keyboard. O. Tyberg. 1,652,464; Dec. 13.
- Typewriter-key remover. P. P. Dunn and G. Shoenfeld. 1,623,912; Apr. 5.
- Typewriter keys and the like, Apparatus for making caps for. D. L. Easterlin. 1,624,224; Apr. 12.
- Typewriter machine. J. Waldheim. 1,626,990; May 3.
- Typewriter, Mechanically-driven type-rod. T. Stiebel. 1,638,602; Aug. 9.
- Typewriter, Noiseless. J. A. Rudin. 1,630,765; May 31.
- Typewriter, Power-actuated. O. A. Hokanson. 1,614,475; Jan. 18.
- Typewriter, Power-operated. O. A. Hokanson. 1,614,472-3; Jan. 18.
- Typewriter, ribbons, Inking roller for. A. H. Kennedy. 1,638,340; Aug. 9.
- Typewriter stand. J. E. Neahr. 1,623,196; Apr. 5.
- Typewriter word counter. S. J. Smith. 1,617,774; Feb. 15.
- Typewriter word register. F. C. Ursbruck. 1,646,799; Oct. 25.
- Typewriters and adding machines, Carriage-moving mechanism for. F. Glöim. 1,640,761; Aug. 30.
- Typewriters and the like, Mounting for. W. F. Gillespie. 1,622,713; Mar. 29.
- Typewriters and the like, Ribbon guide for. C. I. Kephart. 1,621,167; Mar. 15.
- Typewriters, Attachment for. J. K. Burleigh. 1,616,885; Feb. 8.
- Typewriters, Automatic line indicator for. G. N. Alworth. 1,640,337; Aug. 23.
- Typewriters, Back spacer for. O. A. Hokanson and J. F. Koca. 1,640,123; Aug. 23.
- Typewriters, Back-spacing mechanism for. H. Peeters. 1,639,199; Aug. 16.
- Typewriters, Case-shift mechanism for. O. A. Hokanson and J. F. Koca. 1,621,726; Mar. 22.
- Typewriters, Copyholder for. G. E. Marlatt. 1,637,384; Aug. 2.
- Typewriters, Escapement mechanism for. O. A. Hokanson. 1,625,890; Apr. 26.
- Typewriters, Letter-spacing mechanism for. O. A. Hokanson. 1,629,623; May 24.
- Typewriters, Manifolding attachment for. H. M. Armistead. 1,632,362; June 14.
- Typewriters, Paper guide for. V. Gage. 1,637,022; July 26.
- Typewriters, Power-operated back spacer for. O. A. Hokanson. 1,614,474; Jan. 18.
- Typewriters provided with calculating mechanism, Apparatus for driving. T. E. Buschmann. 1,623,995; Apr. 12.
- Typewriters, Removable carriage for. O. A. Hokanson. 1,627,390; May 3.
- Typewriters, Ribbon-carrying arm for manifolding. H. M. Armistead. 1,634,605; July 5.
- Typewriters, Shift-lock release for. F. A. Warner. 1,652,334; Dec. 13.
- Typewriters, Silencing device for. R. G. Daniel. 1,619,602; Mar. 1.
- Typewriters, Variable-spacing platen clutch for. H. M. Armistead. 1,632,361; June 14.
- Typewriting machine. G. Aichele. 1,643,266; Sept. 20.
- Typewriting machine. F. H. Armstrong. 1,619,013; Mar. 1.
- Typewriting machine. H. A. Avery. 1,621,488; Mar. 22.
- Typewriting machine. C. C. Balston. 1,619,691; Mar. 1.
- Typewriting machine. B. F. Barker. 1,628,042; Apr. 5.
- Typewriting machine. E. E. Barney. 1,622,276; Mar. 29.
- Typewriting machine. E. E. Barney. 1,625,974; Apr. 26.
- Typewriting machine. E. E. Barney. 1,646,271; Oct. 18.
- Typewriting machine. E. E. Barney. 1,647,850; Nov. 1.
- Typewriting machine. E. A. Baskerville. 1,638,138; Aug. 9.
- Typewriting machine. J. H. S. Bates. 1,617,193; Feb. 8.
- Typewriting machine. F. Becker. 1,626,779; May 3.
- Typewriting machine. G. K. Block. 1,620,004; Mar. 8.
- Typewriting machine. H. E. Bridgwater. 1,647,852; Mar. 1.
- Typewriting machine. W. O. Bryant. 1,614,599; Jan. 18.
- Typewriting machine. C. E. Burns. 1,647,854-5; Nov. 1.
- Typewriting machine. G. W. Campbell. 1,628,029; May 10.
- Typewriting machine. C. B. Corcoran. 1,643,005; Sept. 20.
- Typewriting machine. C. M. Crews. 1,647,274; Nov. 1.
- Typewriting machine. H. E. Cripe. 1,621,106; Mar. 15.
- Typewriting machine. J. W. Davis. 1,617,326; Feb. 15.
- Typewriting machine. W. A. Dobson. 1,614,604; Jan. 18.
- Typewriting machine. W. A. Dobson. 1,642,196; Sept. 13.
- Typewriting machine. W. A. Dobson. 1,644,114; Sept. 20.
- Typewriting machine. W. A. Dobson. 1,643,654; Sept. 27.
- Typewriting machine. W. A. Dobson. 1,646,952; Oct. 25.
- Typewriting machine. W. A. Dobson. 1,647,125; Nov. 1.
- Typewriting machine. J. W. Engelsiepen. 1,646,237; Oct. 18.
- Typewriting machine. J. W. Engelsiepen. 1,646,394; Oct. 25.
- Typewriting machine. G. G. Going. 1,615,540; Jan. 25.
- Typewriting machine. G. G. Going. 1,615,694; Jan. 25.
- Typewriting machine. G. G. Going. 1,615,835; Feb. 1.
- Typewriting machine. G. G. Going. 1,615,976; Feb. 1.
- Typewriting machine. G. G. Going. 1,622,640; Mar. 29.
- Typewriting machine. G. G. Going. 1,631,197; June 7.

- Typewriting machine. G. G. Goings. 1,636,129; July 19.
 Typewriting machine. G. G. Goings. 1,647,827; Nov. 1.
 Typewriting machine. G. F. Handley. 1,614,297; Jan. 11.
 Typewriting machine. G. F. Handley. 1,635,408; July 12.
 Typewriting machine. R. Hanus. 1,615,837; Feb. 1.
 Typewriting machine. F. A. Hart. 1,650,351; Nov. 22.
 Typewriting machine. W. F. Helmond. 1,630,334; May 31.
 Typewriting machine. E. B. Hess. 1,635,411-12; July 12.
 Typewriting machine. E. B. Hess. 1,635,672; July 12.
 Typewriting machine. E. M. Jones. 1,648,407; Oct. 25.
 Typewriting machine. W. J. Kne. 1,617,450; Feb. 15.
 Typewriting machine. A. G. Kupetz. 1,619,349; Mar. 1.
 Typewriting machine. A. G. F. Kurowski. 1,614,003; Jan. 11.
 Typewriting machine. A. G. F. Kurowski. 1,616,860; Feb. 8.
 Typewriting machine. A. G. F. Kurowski. 1,621,074; Mar. 15.
 Typewriting machine. A. G. F. Kurowski. 1,621,591; Mar. 22.
 Typewriting machine. A. G. F. Kurowski. 1,623,481-2; Apr. 5.
 Typewriting machine. A. G. F. Kurowski. 1,624,747; Apr. 12.
 Typewriting machine. A. G. F. Kurowski. 1,625,321; Apr. 19.
 Typewriting machine. A. G. F. Kurowski. 1,636,695-6; July 26.
 Typewriting machine. A. G. F. Kurowski. 1,639,302; Aug. 16.
 Typewriting machine. A. G. F. Kurowski. 1,640,841; Aug. 30.
 Typewriting machine. A. G. F. Kurowski. 1,641,929; Sept. 6.
 Typewriting machine. A. G. F. Kurowski. 1,642,248; Sept. 13.
 Typewriting machine. A. G. F. Kurowski. 1,643,664; Sept. 27.
 Typewriting machine. A. G. F. Kurowski. 1,643,987; Oct. 4.
 Typewriting machine. A. G. F. Kurowski. 1,646,966; Oct. 25.
 Typewriting machine. A. G. F. Kurowski. 1,653,362; Dec. 20.
 Typewriting machine. E. G. Latta. 1,629,514; May 24.
 Typewriting machine. R. J. Lewis. 1,631,970; June 14.
 Typewriting machine. J. Lindburg. 1,614,310; Jan. 11.
 Typewriting machine. J. Lindburg. 1,618,454; Feb. 22.
 Typewriting machine. J. Lindburg. 1,635,282; July 12.
 Typewriting machine. G. H. Murphy. 1,628,063; Apr. 5.
 Typewriting machine. L. C. Myers. 1,619,530; Mar. 1.
 Typewriting machine. L. C. Myers. 1,627,953; May 3.
 Typewriting machine. L. C. Myers. 1,635,431; July 12.
 Typewriting machine. L. C. Myers and G. F. Handley. 1,614,252; Jan. 11.
 Typewriting machine. C. E. Norin. 1,643,583; Sept. 27.
 Typewriting machine. H. Pitman. 1,624,068; Apr. 12.
 Typewriting machine. H. L. Pitman. 1,625,331; Apr. 10.
 Typewriting machine. W. F. Rothermund. 1,631,223; June 7.
 Typewriting machine. E. G. Rowley. 1,619,375; Mar. 1.
 Typewriting machine. E. G. Rowley. 1,643,130; Sept. 20.
 Typewriting machine. E. G. Rowley. 1,649,325; Nov. 15.
 Typewriting machine. H. C. Shepard. 1,619,546; Mar. 1.
 Typewriting machine. C. E. Smith. 1,647,842; Nov. 1.
 Typewriting machine. J. A. B. Smith. 1,613,415; Jan. 4.
 Typewriting machine. J. A. B. Smith. 1,615,598; Jan. 25.
 Typewriting machine. J. A. B. Smith. 1,616,555; Feb. 8.
 Typewriting machine. J. A. B. Smith. 1,623,445; Feb. 15.
 Typewriting machine. J. A. B. Smith. 1,625,338; Apr. 19.
 Typewriting machine. J. A. B. Smith. 1,627,123; May 3.
 Typewriting machine. J. A. B. Smith. 1,629,546; May 24.
 Typewriting machine. J. A. B. Smith. 1,636,792; July 26.
 Typewriting machine. J. A. B. Smith. 1,639,235; Aug. 16.
 Typewriting machine. J. A. B. Smith. 1,642,271-72; Sept. 13.
 Typewriting machine. J. A. B. Smith. 1,646,936; Oct. 25.
 Typewriting machine. J. A. B. Smith. 1,651,002; Nov. 29.
 Typewriting machine. J. A. B. Smith. 1,651,415; Dec. 6.
 Typewriting machine. J. A. B. Smith. 1,653,025; Dec. 20.
 Typewriting machine. B. C. Stickney. 1,626,124; Apr. 6.
 Typewriting machine. B. C. Stickney. 1,626,641; May 3.
 Typewriting machine. B. C. Stickney. 1,629,129; May 17.
 Typewriting machine. B. C. Stickney. 1,651,419; Dec. 6.
 Typewriting machine. B. C. Stickney. 1,651,739-40; Dec. 6.
 Typewriting machine. O. Thieme. 1,617,728; Feb. 15.
 Typewriting machine. O. Thieme. 1,623,217; Apr. 5.
 Typewriting machine. O. Thieme. 1,649,329; Nov. 15.
 Typewriting machine. F. C. Ursbruck. 1,618,317; Feb. 22.
 Typewriting machine. H. H. Vickers. 1,628,081; May 10.
 Typewriting machine. H. H. Vickers. 1,646,073; Oct. 18.
 Typewriting machine. J. Waldheim. 1,617,468; Feb. 15.
 Typewriting machine. J. Waldheim. 1,617,695; Feb. 15.
 Typewriting machine. J. Waldheim. 1,617,930; Feb. 15.
 Typewriting machine. J. Waldheim. 1,619,045; Mar. 1.
 Typewriting machine. J. Waldheim. 1,620,988; Mar. 15.
 Typewriting machine. J. Waldheim. 1,621,613; Mar. 22.
 Typewriting machine. J. Waldheim. 1,624,697; Apr. 12.
 Typewriting machine. J. Waldheim. 1,626,989; May 8.
 Typewriting machine. J. Waldheim. 1,631,565; June 7.
 Typewriting machine. J. Waldheim. 1,651,050; Nov. 29.
 Typewriting machine. J. Waldheim. 1,653,194; Dec. 20.
 Typewriting machine. S. L. Walsoe and J. P. Hill. 1,650,673; Nov. 29.
 Typewriting machine and case. G. W. Campbell. 1,639,761; Aug. 23.
 Typewriting machine attachment. J. L. Gallard. 1,636,102; May 10.
 Typewriting machine, Child's. L. Reischl. 1,634,685; July 5.
 Typewriting machine, Child's. L. Reischl. 1,634,725-6; July 5.
 Typewriting machines, Adding attachment for. G. O. Degener. 1,634,318-19; Apr. 12.
 Typewriting machines, Adding attachment for. G. O. Degener. 1,635,242; June 21.
 Typewriting machines, Copy-holding device for. J. Lindburg. 1,615,639; Jan. 25.
 Typewriting machines, Frame for. O. Fischer. 1,627,773; May 30.
 Typewriting machines, Frame for. M. Garbell. Des. 74,052; Dec. 13.
 Typewriting machines, Key mechanism for. L. Reischl. 1,618,195; Jan. 4.
 Typewriting machines, Paper guide for. V. Gage. 1,625,606; Apr. 19.
 Typewriting machines, Ribbon-operating mechanism for. J. Alexander. 1,619,174; Mar. 1.
 Typewriting machines, Scale plate for. W. E. Lane. 1,631,494; June 7.
 Typewriting machines, Work magazine for. J. Waldheim. 1,616,071; Feb. 1.
 Typewriting machines, Work-web feeder for. J. Waldheim. 1,615,894; Feb. 1.
 Typographic machines, Devices for distributing the matrices, patrices, and the like for. W. Buswell. 1,618,414; Apr. 4.
 Typographic numbering apparatus. W. E. C. Sander. 1,633,278; June 21.
 Typographical assembling machines, Space-band-releasing means for. G. E. Marlatt. 1,651,213; Nov. 29.
 Typographical composing and distributing machine. J. R. Rogers. 1,651,164; Nov. 29.
 Typographical composing machine. C. A. Albrecht. 1,619,858; Mar. 8.
 Typographical composing machine. D. S. Kennedy. 1,648,133; Nov. 8.
 Typographical composing machine. J. G. McNamara. 1,620,979; Mar. 15.
 Typographical composing machines, Distributing mechanism of. J. G. W. Field. 1,652,303; Dec. 13.
 Typographical distributing machine. G. W. Beadle. 1,649,798; Nov. 22.
 Typographical distributing machine. D. S. Kennedy. 1,648,051; Nov. 8.
 Typographical distributing machine. J. G. McNamara. 1,630,023; May 24.
 Typographical distributing mechanism. J. R. Rogers. 1,629,889; May 24.
 Typographical machine. W. Ackerman. 1,626,773; Mar. 3.
 Typographical machine. C. E. Ireland. 1,638,036; Aug. 9.
 Typographical machine. J. G. McNamara. 1,651,095; Nov. 29.
 Typographical machine. H. Petersen. 1,622,291; Mar. 29.
 Typographical machine. W. C. Redfield. 1,624,434; Apr. 12.
 Typographical machine. N. Testi. 1,622,982; Mar. 29.
 Typographical machine. J. R. Tomlin. 1,650,552; Nov. 22.
 Typographical machines, Assembling elevator gate for. D. L. Anderson. 1,619,646; Mar. 1.
 Typographical machines, Attachment for. F. Y. Barba. 1,621,306; Mar. 15.
 Typographical machines, Escapement mechanism for. S. Kohn. 1,648,136; Nov. 8.
 Typographical machines, Magazine mounting for. T. S. Romans. 1,650,448; Nov. 22.
 Typographical machines, Matrix for. H. R. Freund. 1,630,175; May 24.
 Typographical machines, Matrix for. H. R. Freund. 1,654,368; Dec. 27.
 Typographical slug-casting machine. G. E. Marlatt. 1,651,214; Nov. 29.
 Umbilical cord clamp. S. L. Rogers. 1,630,031; May 24.
 Umbrella. L. A. Capaldo. 1,650,933; Nov. 29.
 Umbrella. A. Moser. 1,613,287; Jan. 4.

- Umbrella. J. Reid. 1,619,217; Mar. 1.
Umbrella and package carrier, Combined. E. Greenberg. 1,652,687; Dec. 13.
Umbrella attachment. E. R. Sweeting. 1,633,961; June 28.
Umbrella, Collapsible. G. Friedrichs. 1,642,336; Sept. 13.
Umbrella, Collapsible. G. Orsik. 1,616,276; Feb. 1.
Umbrella cover and garment. D. Weiss. 1,613,688; Jan. 11.
Umbrella cover, rib, and stick connection. F. Fabbri. 1,638,764; Aug. 9.
Umbrella, Duplex. W. G. Grey. 1,628,539; May 10.
Umbrella, Folding. G. Rall-Osterwalder. 1,643,724; Sept. 27.
Umbrella handle. J. M. Dellinger. 1,645,497; Oct. 11.
Umbrella, Pocket. A. Weise. 1,632,639; June 14.
Umbrella runner. S. Giszczynski. 1,644,579; Oct. 4.
Umbrella, Stormproof. R. Goldberger. 1,646,144; Oct. 18.
Umbrellas, Handle for. J. M. Dellinger. 1,645,376; Oct. 11.
Umbrellas, Protector spreader for. P. M. Willis. 1,648,095; Nov. 8.
Uncoupling device. F. H. Kayler. 1,647,636; Nov. 1.
Uncoupling device. W. Kelsch. 1,645,756-7; Oct. 18.
Uncoupling device. J. McMullen. 1,637,158; July 26.
Uncoupling device. A. F. O'Connor. 1,625,143; Apr. 19.
Uncoupling device. T. N. Russell. 1,618,228; Feb. 22.
Underbelt, Interlocking. J. Sauer. 1,642,046; Sept. 13.
Underfeed stoker furnace. E. Lundgren. 1,628,166; May 10.
Undergarment. H. Cohen. 1,616,440; Feb. 8.
Undergarment. T. E. and O. E. Cunningham. 1,638,922; Aug. 16.
Undergarment. S. B. Hanes. 1,650,207; Nov. 22.
Undergarment. D. S. McNair. 1,644,844; Oct. 11.
Undergarment. S. T. Metz. 1,641,284; Sept. 6.
Undergarment. B. Moscomitz. 1,618,901; Mar. 1.
Undergarment. A. M. Schneider. 1,630,315; May 31.
Undergarment. H. F. Stephens. 1,653,483; Dec. 20.
Undergarment. R. L. Strong. 1,624,444; Apr. 12.
Undergarment, Combination. G. L. Nickerson. 1,624,558; Apr. 12.
Undergarment, Ensemble. S. E. B. Shepard. 1,628,475; Oct. 10.
Undergarment, Form-supporting. H. L. Winter. 1,616,018; Feb. 1.
Undergarment support. J. E. Deimel. 1,653,550; Dec. 20.
Undergarment, Union. A. T. Berry. 1,633,972; June 28.
Undergarment, Union or one-piece. O. A. Hoeglund. 1,629,704; May 24.
Undergarment, Woman's. H. L. Redmond. 1,643,568; Sept. 27.
Undergarment, Women's. A. Rosenthal. 1,623,637; Apr. 5.
Undergarments, Lady's. M. M. Marquis. 1,640,315; Nov. 15.
Underground support. J. Schenker. 1,652,415; Dec. 13.
Underlift. A. Broadmeyer. 1,631,618; June 7.
Underpinning. J. V. Ferry and A. P. Miller. 1,644,572; Oct. 4.
Underreamer. C. T. Mapes. 1,618,984; Mar. 8.
Underreamer. J. M. Miller. 1,654,468; Dec. 27.
Underreamer. J. Olson. 1,618,294; Feb. 22.
Underreamer. F. Swan. 1,620,699; Mar. 15.
Underreamer. E. Timbs. 1,634,001; June 28.
Underreamer. W. R. Wilber. 1,623,453; Apr. 5.
Underreamer bit or cutter. F. Swan. 1,620,700; Mar. 15.
Underreamer, Rotary. M. C. Hazard. 1,625,208; Apr. 19.
Underwear. Making elastic bands for. S. B. Hanes. 1,650,208; Nov. 22.
Underwear, Shoulder strap for ladies'. O. Schweigert. 1,632,716; June 14.
Undulation, Apparatus for permanent. G. E. Björkman. 1,642,867; Sept. 20.
Unit. Adjustable. E. Price and W. A. Pfister. 1,632,042; June 14.
Union all. C. S. Furman. 1,635,120; July 5.
Union of metallic bodies by fusion. E. R. Stockle. 1,614,501; Jan. 18.
Union suit. J. M. Atkinson. 1,621,392; Mar. 15.
Union suit. L. J. Duffner. 1,629,877; May 24.
Union suit. H. F. Monheimer. 1,633,592; Aug. 9.
Union suit. E. T. Williams. 1,615,922; Feb. 1.
Union suit and supporter, Combination. C. J. Albert. 1,615,320; Jan. 25.
Union suit, Tubular-knit. A. J. Belang. 1,635,455; July 12.
Unit heater for air spaces. A. A. Blomfeldt. 1,638,083; Aug. 9.
Unit indication for filling and other purposes, Selective. I. Whetstone. 1,650,058; Nov. 22.
Unit-measuring machines, Receptacle-handling means for. C. N. Gergmann and E. Z. and C. Taylor. 1,643,367; Sept. 27.
Universal coupling. G. H. Hufferd. 1,641,355; Sept. 6.
Universal coupling. G. H. Hufferd. 1,643,017; Sept. 20.
Universal coupling. R. C. Stiefel. 1,643,353; Sept. 27.
Universal follow rest. F. B. Cockburn. 1,622,822; Mar. 29.
Universal joint. N. W. Amdur. 1,635,164; July 12.
Universal joint. A. Y. Dodge. 1,632,121; June 21.
Universal joint. W. H. Douglas. 1,617,016; Feb. 8.
Universal joint. W. H. Douglas. 1,651,379; Dec. 6.
Universal joint. W. S. Dwyer. 1,622,425; Mar. 29.
Universal joint. H. M. Funnell. 1,649,460; Nov. 15.
Universal joint. E. Gruenfeldt. 1,621,247; Mar. 15.
Universal joint. L. Harper. 1,620,549; Mar. 8.
Universal joint. E. A. Hayes. 1,621,667; Mar. 22.
Universal joint. E. L. Henry. 1,642,775; Sept. 20.
Universal joint. H. Hugson. 1,617,903; Feb. 15.
Universal joint. A. F. Kaptuler. 1,633,333; June 21.
Universal joint. G. B. Kinsler. 1,638,400; Aug. 9.
Universal joint. S. L. Laughlin. 1,630,898; May 31.
Universal joint. A. F. Masury and A. H. Leipert. 1,638,947; Aug. 16.
Universal joint. D. P. Owens. 1,623,199; Apr. 5.
Universal joint. F. B. Pedersen and H. P. Andersen. 1,621,428; Mar. 15.
Universal joint. F. W. Peters. 1,621,215-20; Mar. 15.
Universal joint. A. F. Pieper. Des. 72,802; June 7.
Universal joint. E. P. Schultz. 1,648,024; Nov. 8.
Universal joint. A. J. Slonecker. 1,616,336; Feb. 1.
Universal joint. C. E. Swenson. 1,615,617; Jan. 25.
Universal joint. G. L. Tarbox. 1,643,647; Sept. 27.
Universal joint. G. L. Tarbox. 1,649,498; Nov. 15.
Universal joint. G. J. Thomas. 1,632,202; June 14.
Universal joint. R. G. Urich. 1,627,940; May 10.
Universal joint. Ball-bearing. W. Scott. 1,627,932; May 10.
Universal multiple-operation machine. L. H. Stein. 1,627,934; May 10.
Universal woodworking machine for carpenters, joiners, and cabinetmakers. H. Rozier. 1,626,559; Apr. 26.
Unloader assembly. G. E. Hazard. 1,631,031; May 31.
Unloader, Cargo. S. Cooper. 1,638,474; Aug. 9.
Unloading device. R. Cantor. 1,626,597; May 3.
Unloading mechanism. H. B. Blom. 1,614,007; Oct. 4.
Unloading mechanism, Compressor. W. H. Wineman. 1,642,760; Sept. 20.
Unpluggable bit. G. T. Thagard. 1,639,065; Aug. 16.
Unwinding device. J. D. Joyce. 1,620,558; Mar. 8.
Upholstering device. J. Pasake. 1,619,754; Mar. 1.
Upholstery construction. C. R. Hultgren. 1,654,171; Dec. 27.
Upholstery panel and making the same. J. A. Wilson. 1,643,400; Sept. 27.
Upholstery plait, Instrument for inserting continuous band into. M. J. Stack. 1,628,927; May 17.
Upsetting machine. K. Auerbach. 1,633,430; June 21.
Upsetting mechanism. R. L. Wilcox. 1,610,494-5; Mar. 1.
Uranium in a coherent mass, Preparing. H. C. Rentscher and J. W. Marden. 1,648,962; Nov. 15.
Urea and formaldehyde, Manufacture of the condensation products of. H. Barthelmy. 1,645,848; Oct. 18.
Urea from cyanamide, Manufacture of. J. Breslau and C. Goudet. 1,630,050; May 24.
Urea, Preparing. J. M. A. Stillesen. 1,614,698; Jan. 18.
Ureides, Sedative and hypnotic. F. Boedecker. 1,633,392; June 21.
Urethroscope. F. Cerbo. 1,624,716; Apr. 12.
Urinal for automobiles and the like. G. N. Randle. 1,650,154; Nov. 22.
Urn. H. H. Schott. Des. 72,872; June 14.
Urn, Coffee. J. L. Shroyer. 1,648,699; Nov. 8.
Urn, Electric. A. H. Simmons. 1,620,495; Mar. 8.
Urn or similar article, Beverage. S. Kurloff. Des. 72,156; Mar. 8.
Urn, Sanitary milk. I. Stern, I. Roth, and J. Markowitz. 1,645,308; Oct. 11.
Urns, Coffee retainer for. B. B. de Montmorency. 1,628,394; May 10.
Utensil. D. E. Shaw. 1,621,758; Mar. 22.
Utensil, Baking. E. R. Kraik. 1,637,617; Aug. 2.
Utensil, Cooking. L. Caskin. 1,651,442; Dec. 6.
Utensil, Culinary. M. A. Hilgers. 1,637,859; Aug. 2.
Utensil, Electrically-heated. E. S. Preston. 1,650,999; Nov. 29.
Utensil for cooking annular food products. H. M. Wilcox. 1,638,973; Aug. 9.
Utensil handle. H. W. E. Brosi. 1,649,387; Nov. 15.
Utensil, Kitchen. H. M. Taylor. 1,649,874; Nov. 22.
Utensil lifter. W. Dziuba and M. Golinski. 1,635,119; July 5.
Utility rack. H. L. Leckliter. 1,640,279; Aug. 23.
Vacuum handless brake. F. W. Smith. 1,625,103; Apr. 19.
V-shaped transmission, Splice block for. P. B. Reeves. 1,626,300; Apr. 26.
Vaccines, Purification of. F. Billon. 1,649,381; Nov. 15.
Vacuum brake, Vehicle. J. R. Bartholomew. 1,644,558; Oct. 4.
Vacuum bulbs, Mounting. C. G. Jones. 1,615,983; Feb. 1.
Vacuum chuck for bearing cones. W. A. Hatcher. 1,618,378; Feb. 22.
Vacuum cleaner. J. W. L. Acosta. 1,639,876; Aug. 23.
Vacuum cleaner. E. Ragonot. 1,635,344; July 12.
Vacuum cleaner. W. L. Kooner. 1,624,444; Apr. 12.
Vacuum cleaner. G. W. Minuth. 1,621,596; Mar. 22.
Vacuum cleaner. F. J. Oslus. 1,624,969; Apr. 19.
Vacuum cleaner. F. F. Pease. 1,631,549; June 7.
Vacuum cleaner. M. H. Spielman. 1,613,250; Jan. 4.
Vacuum cleaner. N. A. Throop. 1,642,518; Sept. 13.
Vacuum cleaner. H. Wickhorst. 1,637,067; July 26.
Vacuum-cleaner attachment. F. A. Voos. 1,638,554; Aug. 9.
Vacuum-cleaner device. S. McClatchie. 1,638,598; June 28.

- Vacuum cleaner, Dirt-ejecting. T. Drew. 1,633,561; June 21.
- Vacuum cleaners, Adjustable handle structure for. I. J. Owen. 1,652,289; Dec. 13.
- Vacuum cleaners, Brush gear for. J. Keller, sr. 1,613,396; Jan. 4.
- Vacuum cleaners, etc., Brush mounting for. W. L. Lindgren. 1,629,801-2; May 24.
- Vacuum cleaners, Floor-polishing attachment for. F. I. Simpson. 1,650,660; Nov. 29.
- Vacuum cleaners, Suction-hose-attachment for nozzles of. F. K. Solidity. 1,648,466; Nov. 8.
- Vacuum cleaning systems, Combined switch-box and vacuum-line-seal mechanism for. I. W. Melcher. 1,618,667; Feb. 22.
- Vacuum cleaning tool. G. E. Kent and F. W. Yutzler. 1,651,894; Dec. 6.
- Vacuum-closing machine, Semiautomatic. R. E. J. Nordquist. 1,646,704; Oct. 25.
- Vacuum containers, Seal, joint, and the like of. E. Y. Robinson. 1,639,575; Aug. 16.
- Vacuum-controlled fuel-supply system. M. C. Bright. 1,636,406; July 19.
- Vacuum-controlled shock-absorbing device. A. A. Wilson and A. D. Robertson. 1,618,036; Feb. 15.
- Vacuum-creating device. F. V. Winters. 1,638,384; Aug. 9.
- Vacuum-creating device. F. V. Winters. 1,638,465; Aug. 9.
- Vacuum-creating instrument. F. V. Winters. 1,619,388-9; Mar. 1.
- Vacuum-creating instrument. F. V. Winters. 1,638,383; Aug. 9.
- Vacuum device for heating bodies, High-. J. E. Lilliefeld. 1,616,812; Feb. 8.
- Vacuum devices, Applying a getter to. D. S. Gustin. 1,626,265; Apr. 26.
- Vacuum devices to remove occluded gases therefrom. Treatment of. H. C. Rentschler. 1,616,431; Feb. 1.
- Vacuum discharge apparatus. S. Dushman. 1,631,672; June 7.
- Vacuum discharge tube. A. P. Nickel and J. J. Spanner. 1,644,601; Oct. 4.
- Vacuum feed. A. P. Plant. 1,642,129; Sept. 13.
- Vacuum feed system. J. L. Van Pelt. 1,621,817; Mar. 22.
- Vacuum filters, Cake-washing means for rotary. W. Mauss. 1,646,653; Oct. 25.
- Vacuum floor scrubbing and washing machine. W. L. Kiefer. 1,647,005; Oct. 25.
- Vacuum fuel-feed tank. W. B. Hart. 1,639,181; Aug. 16.
- Vacuum fuel-feeding system. W. O. Chase. 1,647,174; Nov. 1.
- Vacuum gauge. J. W. Legg. 1,652,535; Dec. 13.
- Vacuum jacketed flask. C. H. Stock. 1,648,512; Nov. 8.
- Vacuum means for conserving lubricating oil of internal-combustion engines. C. S. Clark. 1,618,861; Feb. 22.
- Vacuum or thermionic tube. A. G. Thomas. 1,636,261; July 19.
- Vacuum packing apparatus. F. W. L. Peebles. 1,631,885; June 7.
- Vacuum pan. A. Gräntzdörffer. 1,650,122; Nov. 22.
- Vacuum preserver. A. B. Briggs. 1,635,815; July 12.
- Vacuum-producing apparatus. C. F. Ames. 1,623,083; Apr. 5.
- Vacuum-producing apparatus. R. H. Frederick. 1,623,103; Apr. 5.
- Vacuum-producing apparatus. A. M. Kobolke. 1,622,155; Mar. 22.
- Vacuum return boiler feed. L. K. Ascher. 1,635,600; July 12.
- Vacuum seal and apparatus. O. Minton. 1,633,121; June 21.
- Vacuum space discharge device and gas accumulator therefor, High-. F. S. McCullough. 1,615,093; Jan. 18.
- Vacuum tank. W. E. Hart. 1,616,045; Feb. 1.
- Vacuum tank. C. S. Nelson. 1,627,295; May 3.
- Vacuum tank. H. Rabenzana. 1,642,461; Sept. 13.
- Vacuum-tank feeder. C. J. Ferguson. 1,641,076; Aug. 30.
- Vacuum tube. J. L. Brown. 1,616,214; Feb. 1.
- Vacuum tube. E. L. Chaffee. 1,649,810; Nov. 22.
- Vacuum tube. F. R. Geysler. 1,624,331; Apr. 12.
- Vacuum tube. H. H. Koenemann. 1,642,210; Sept. 13.
- Vacuum tube. H. E. Metcalf. 1,626,858; May 3.
- Vacuum tube. H. E. Metcalf. 1,636,239; July 19.
- Vacuum tube. H. E. Metcalf. 1,646,626; Oct. 25.
- Vacuum tube. H. E. Mitchell and A. J. White. 1,632,615; June 14.
- Vacuum tube. H. J. Round. 1,649,489; Nov. 15.
- Vacuum tube. P. M. Watrous. 1,613,630; Jan. 11.
- Vacuum tube. H. W. Weinhart. 1,624,451; Apr. 12.
- Vacuum tube. L. Winkelmann. 1,650,921; Nov. 29.
- Vacuum tube and tube circuits. A. G. Thomas. 1,652,880; Dec. 13.
- Vacuum-tube circuit. M. Latour. 1,615,808; Jan. 25.
- Vacuum-tube circuits. K. M. MacLaurin. 1,614,482; Jan. 18.
- Vacuum-tube-echo suppressor. G. Crisson. 1,647,212; Nov. 1.
- Vacuum tube, Multiple-triode. F. S. McCullough. 1,630,443; May 31.
- Vacuum-tube oscillator. J. Shepley. 1,615,660; Jan. 25.
- Vacuum-tube socket. M. Cohen and B. F. Stenman. 1,648,797; Nov. 8.
- Vacuum-tube structure and assembling the same. M. H. Ryder. 1,615,654; Jan. 25.
- Vacuum-tube unit. A. A. Kent. 1,650,754; Nov. 29.
- Vacuum tubes, Arrangement for feeding. E. Pürschel. 1,615,098; Jan. 18.
- Vacuum tubes, Support for. M. Alden. 1,622,267; Mar. 29.
- Vacuum tubes, Vibration-damping means for. C. C. Lauritsen. 1,631,100; May 31.
- Vacuum tubes, Voltage regulator for. J. Herman. 1,638,930; Aug. 16.
- Vacuum wall receptacle. W. C. O'Leary. 1,636,322; July 19.
- Vaginal balloon. C. Tomasulo. 1,640,014; Aug. 23.
- Valance for window draperies. J. Derk. Des. 71,783; Jan. 4.
- Valise. J. E. Gale. 1,617,629; Feb. 15.
- Values, Indicating and also recording various. H. N. Packard. 1,614,535; Jan. 18.
- Valve. A. B. Antisell. 1,647,823; Nov. 1.
- Valve. W. E. Baker. 1,620,815; Mar. 8.
- Valve. W. Baumgartner. 1,633,061; June 21.
- Valve. G. J. Belknap. 1,651,942; Dec. 6.
- Valve. C. L. Bryant. 1,649,566; Nov. 15.
- Valve. S. C. Caldara. 1,641,141; Aug. 30.
- Valve. F. E. Couch. 1,624,218; Apr. 12.
- Valve. F. S. Cravens. 1,627,486; May 3.
- Valve. C. A. Dally and W. E. Nestor. 1,650,494; Nov. 22.
- Valve. T. W. Demarest. 1,632,220; June 14.
- Valve. J. H. Derby. 1,616,742; Feb. 8.
- Valve. C. H. Duncan. 1,645,900; Oct. 18.
- Valve. P. Eisenhauer. 1,631,406; July 7.
- Valve. W. G. Estep. 1,653,996; Dec. 27.
- Valve. H. Feldmeier and C. F. Wray. Des. 74,144; Dec. 27.
- Valve. W. M. Fleming. 1,642,724; Sept. 20.
- Valve. J. Forbes. 1,631,580; June 7.
- Valve. A. C. Gaines. 1,639,372; Aug. 16.
- Valve. G. Grafflinberger. 1,645,751; Oct. 18.
- Valve. T. P. Gray. 1,642,242; Sept. 13.
- Valve. T. P. Gray. 1,648,986; Nov. 15.
- Valve. W. B. Griffith. 1,636,131; July 19.
- Valve. J. E. Hall. 1,634,781; July 5.
- Valve. P. Harper. 1,643,752; Aug. 6.
- Valve. F. H. Hehemann. 1,626,532; Apr. 26.
- Valve. F. H. Hehemann. 1,631,414; June 7.
- Valve. F. Hofmann. 1,634,360; July 5.
- Valve. O. H. Hosmer. 1,648,126; Nov. 8.
- Valve. L. C. Huff. 1,619,937; Mar. 8.
- Valve. P. Hut. 1,624,739; Apr. 12.
- Valve. L. Iversen. 1,615,270; Jan. 25.
- Valve. P. M. Johnson. 1,622,723; Mar. 29.
- Valve. B. Jones. 1,649,235; Nov. 15.
- Valve. C. S. Kellum. 1,650,797; Nov. 29.
- Valve. L. H. Kennon and L. J. Langdon. 1,625,867; Apr. 19.
- Valve. J. F. Key. 1,620,108; Mar. 8.
- Valve. L. Kirschbraun and R. T. Pollock. 1,638,162; Aug. 9.
- Valve. H. T. Kraft. 1,615,016; Jan. 18.
- Valve. D. Lalor. 1,643,939; Aug. 16.
- Valve. F. T. Lane. 1,641,892; Sept. 6.
- Valve. C. W. Lerner. 1,636,662; July 19.
- Valve. O. Larsen. 1,634,075; June 28.
- Valve. O. Larsen. 1,648,486; Nov. 8.
- Valve. B. E. Littlefield. 1,633,217; June 21.
- Valve. L. Lorraine. 1,615,462; Jan. 25.
- Valve. F. R. Mark. 1,637,154; July 26.
- Valve. K. Marscheider. 1,639,743; Aug. 23.
- Valve. J. D. Maxwell. 1,613,183; Jan. 4.
- Valve. A. A. McCree. 1,653,650; Dec. 27.
- Valve. P. J. McGinn. 1,639,468; June 21.
- Valve. R. E. Mitton. 1,626,045; Apr. 26.
- Valve. C. W. Murray, jr. 1,652,453; Dec. 13.
- Valve. S. J. Nordstrom. 1,634,721-2; July 5.
- Valve. B. L. Olafsson and R. E. Peterson. 1,640,247; Aug. 23.
- Valve. J. O'Stroke. 1,616,386; Feb. 1.
- Valve. J. E. Parker. 1,635,287; July 12.
- Valve. F. A. Perrenot. 1,619,033; Mar. 1.
- Valve. A. F. Pieper. 1,631,643; June 7.
- Valve. C. F. Prescott. 1,634,339; July 5.
- Valve. A. Reinecke. 1,616,228; Feb. 1.
- Valve. P. Richmond. 1,646,708; Oct. 25.
- Valve. G. A. Robertshaw. 1,651,543; Dec. 6.
- Valve. L. L. Rowe. 1,645,156; Oct. 12.
- Valve. J. J. Ryan. 1,624,186; Apr. 12.
- Valve. A. W. Rybeck. 1,628,557; Apr. 12.
- Valve. E. J. Steele. 1,624,850; Apr. 25.
- Valve. W. S. Sutton. 1,630,336; May 31.
- Valve. A. Thomson and J. W. Eskholme. 1,621,910; Mar. 22.
- Valve. L. P. Uphoff and F. A. Sims. 1,650,855; Nov. 29.
- Valve. F. A. Vogt. E. Fleisch and H. Goldsmith. 1,630,610; May 24.
- Valve. C. Wilhelm. 1,622,408; Mar. 29.
- Valve. H. B. Williams. 1,638,077; Aug. 9.
- Valve. W. I. Williams and R. Reeder. 1,618,034; Feb. 15.
- Valve. W. G. Wilson. 1,654,516-17; Dec. 27.
- Valve. D. D. Wright. 1,636,618; July 19.
- Valve accelerating device, Dry-pipe. E. Tyden. Re16,678; July 12.
- Valve accelerating device, Dry-pipe. E. Tyden. 1,615,056; Jan. 18.

- Valve accelerator, Dry-pipe. L. M. Lewis. 1,646,618; Oct. 25.
- Valve, Acid-proof. J. J. W. Kenan. 1,623,056; Apr. 5.
- Valve, Acknowledgment. J. F. Webb, jr. 1,635,804; July 12.
- Valve-actuating device, Toilet-. T. Shimo. 1,615,523; Jan. 25.
- Valve-actuating means for fire-extinguishing systems. H. M. Minnis. 1,618,462; Feb. 22.
- Valve-actuating mechanism. M. E. Crandall. 1,614,830; Jan. 18.
- Valve-actuating mechanism. J. Holle. 1,644,059; Oct. 4.
- Valve-actuating mechanism. C. R. Kinkaid and E. T. Shreve. 1,634,198; June 28.
- Valve adjuster and silencer, Automatic. E. H. McAllister. 1,624,497; Apr. 12.
- Valve, Adjusting. A. Green. 1,613,323; Jan. 4.
- Valve, Air. H. Brown and G. R. Uhl. 1,628,810; May 17.
- Valve, Air. M. G. Hubbard. 1,614,613; Jan. 18.
- Valve, Air. T. J. Stokes. 1,624,021; Apr. 12.
- Valve, Air and vacuum. A. Harrison. 1,629,789; May 24.
- Valve, Air-compressor. J. Le Valley. 1,634,949; July 5.
- Valve, Air-control. F. J. Skonier. 1,630,317; May 31.
- Valve, Air-regulator. J. J. Stoetzel. 1,647,758; Nov. 1.
- Valve, Amplifier. H. E. Eulkop. 1,618,298; Feb. 22.
- Valve and cake puller. H. Blume and G. B. Streitz. 1,627,477; May 3.
- Valve and float for drinking troughs and the like, Automatic. A. Mendizabal. 1,619,431; Mar. 1.
- Valve and making the same, Adjusting. A. Green. 1,635,617; May 10.
- Valve and operating device therefor. M. Dean. 1,640,537; Aug. 30.
- Valve and shipping plug, High-pressure gas. P. Mueller and C. A. Hill. 1,636,065; July 19.
- Valve and the like and manufacture. T. E. Murray. 1,635,549; Aug. 9.
- Valve and valve gearing for steam and other fluid-pressure engines, Rotary distributing. W. M. Coward. 1,647,561; Nov. 1.
- Valve apparatus. I. W. Knight. 1,633,108-9; June 21.
- Valve, Apparatus for controlling the flow of fluid to a. W. G. Wilson. 1,622,016; Mar. 22.
- Valve, Apparatus, Pressure-operated. B. Welcker. 1,638,402; July 19.
- Valve apparatus, Remote gas-control-. H. K. Caldwell. 1,644,171; Oct. 4.
- Valve, Automatic. L. L. Cherry. 1,648,756; Nov. 8.
- Valve, Automatic. C. Hartmann. 1,644,127; Oct. 4.
- Valve, Automatic. L. Kalkbrenner. 1,622,448; Mar. 29.
- Valve, Automatic. A. Moser. 1,626,147; Apr. 26.
- Valve, Automatic air and gas check. J. M. Potch. 1,619,066; Mar. 1.
- Valve, Automatic control. E. V. Anderson. 1,627,628; May 10.
- Valve, Automatic cut-off. J. F. Currivan. 1,620,876; Mar. 15.
- Valve, Automatic cut-off and drainage. G. A. Moore. 1,638,052; Aug. 9.
- Valve, Automatic differential expansion. G. F. Knox. 1,616,129; Feb. 1.
- Valve, Automatic gas. C. M. Lee. 1,625,323; Apr. 19.
- Valve, Automatic measuring. F. M. Gunn. 1,641,267; Sept. 6.
- Valve, Automatic pressure-controlled. C. H. Nickell. 1,643,082; Sept. 20.
- Valve, Automatic reducing and cut-off. W. C. McKeown. 1,653,811; Dec. 27.
- Valve, Automatic relief. L. W. Browne. 1,620,321; Mar. 8.
- Valve, Automatic relief. A. F. Habenicht. 1,619,469; Mar. 1.
- Valve, Automatic sand. E. A. Lansrud. 1,646,753; Oct. 25.
- Valve, Automatic self-closing. O. A. Price. 1,620,181; Mar. 8.
- Valve, Automatic self-closing. O. A. Price. 1,629,637; May 24.
- Valve, Automatic self-closing. O. A. Price. 1,631,059; May 31.
- Valve, Automatic shut-off. L. D. Lovekin. 1,628,675; May 17.
- Valve, Automatic stop. W. B. Flanders. 1,626,804; May 3.
- Valve, Automatic temperature-actuated refrigerant-regulating. E. E. Snader. 1,636,874; July 26.
- Valve, Automatic timing. G. E. Lundberg and I. Jeppson. 1,645,763; Oct. 18.
- Valve, Automatic weight opening. J. W. Casey. 1,633,923; June 28.
- Valve, Back-pressure. L. M. Pearce. 1,615,811; Jan. 25.
- Valve, Backwater. D. Forfar. 1,623,588; Apr. 5.
- Valve, Balanced plug. J. Kruttschnitt. 1,614,890; Jan. 18.
- Valve, Ball. H. Brown. 1,653,619; Dec. 27.
- Valve, Ball. R. H. Mueller and W. J. Mix. 1,614,800; Jan. 18.
- Valve, Ball and seat. J. F. Larkin. 1,621,889; Mar. 22.
- Valve, Ball-check. E. Donnelly. 1,612,857; Jan. 4.
- Valve body. H. D. Rahlings. 1,628,230; Aug. 9.
- Valve bracket, Retaining-. S. H. Campbell. 1,640,819; Aug. 30.
- Valve bracket, Retaining-. F. H. Plettsch. 1,640,804; Aug. 30.
- Valve, Brake. I. O. G. Drolshammer. 1,653,842; Dec. 27.
- Valve, Brake-control. N. A. Christensen. 1,613,021; Jan. 4.
- Valve, Breather. J. Kuhl. 1,637,489; Aug. 2.
- Valve, Butterfly. D. W. Slattery. 1,643,763; Sept. 27.
- Valve cage. W. P. Capps. 1,613,559; Jan. 4.
- Valve cap. G. F. Keena. 1,627,908; May 10.
- Valve cap. E. J. Murphy. 1,631,050; May 31.
- Valve, Charging. G. E. Maier. 1,627,443; May 3.
- Valve, Check. L. C. Beck and J. Lamascus. 1,652,341; Dec. 13.
- Valve, Check. W. Bird. 1,613,076; Jan. 4.
- Valve, Check. J. Hirschstein. 1,635,842; July 12.
- Valve, Check. D. A. Lockwood. 1,647,873; Nov. 1.
- Valve, Check. H. M. Nicholson. 1,629,961; May 24.
- Valve, Check. H. Norris, jr. 1,616,819; Feb. 8.
- Valve, Check. A. P. Treadwell and J. Flournoy. 1,632,636; June 14.
- Valve circuits, Thermionic. P. W. Willans. 1,637,924; Aug. 2.
- Valve circuits, Thermionic. P. W. Willans. 1,637,977; Aug. 2.
- Valve, Coaset. F. C. Diedrich. 1,638,436; Aug. 9.
- Valve, Combination vacuum and pressure relief. C. P. Buck. 1,620,720; Mar. 15.
- Valve, Combined cylinder cock and relief. V. P. McVoy. 1,623,431; Apr. 5.
- Valve, Combined face piece and automatic. D. E. Jackson. 1,633,622; Dec. 20.
- Valve, Combined relief and vacuum. F. Henneböhle. 1,617,711; Feb. 15.
- Valve, Combined speed-regulating and mixing. A. E. and P. E. Raqué. 1,625,281; Apr. 19.
- Valve, Combined, throttle and trip. W. E. Butler. 1,617,895; Feb. 15.
- Valve, Combined trip and throttle. E. H. Wright. 1,648,710; Nov. 8.
- Valve, Compression. F. J. Heideman. 1,637,821; Aug. 2.
- Valve, Compressor. H. T. Blom. 1,634,247; June 28.
- Valve, Compressor. E. R. De Luiz. 1,620,524; Mar. 8.
- Valve, Compressor discharge. W. Wishart. 1,636,888; July 26.
- Valve connection, Standing. R. W. Gunn and W. A. S. Thompson. 1,644,998; Oct. 11.
- Valve construction. C. Muend. 1,619,748; Mar. 1.
- Valve construction. J. Schmidt. 1,630,973; May 31.
- Valve construction. C. C. Trump. 1,613,145; Jan. 4.
- Valve construction for inflatable articles. W. J. Voit. 1,644,096; Oct. 4.
- Valve construction for multiple-cylinder combustion motors, Intake or exhaust. M. Henry. 1,618,878; Feb. 22.
- Valve control. E. P. Gray. 1,619,117; Mar. 1.
- Valve, Control. H. W. Shonnard. 1,644,093; Oct. 4.
- Valve, Control. A. P. Steiner. 1,649,866; Nov. 22.
- Valve control, Automatic. W. Fourness. 1,641,628; Sept. 6.
- Valve-control device. M. von der Heide. 1,645,311; Oct. 11.
- Valve control means, Throttle. O. R. Schoenrock. 1,639,140; Aug. 16.
- Valve-control mechanism. E. A. Field and E. A. Field, jr. 1,639,935; Aug. 23.
- Valve-control mechanism. G. D. Kaiser. 1,629,627; May 24.
- Valve-control mechanism for power actuators. C. S. Bragg and V. Klesrath. 1,639,826-7; May 31.
- Valve control, System for automatic. J. S. Kennedy. 1,632,905; June 21.
- Valve-controlling means, Knee-operated throttle. A. S. Martin. 1,627,102; May 3.
- Valve-controlling mechanism. R. J. Buehler. 1,621,870; Mar. 22.
- Valve-core extractor. J. R. C. Smith. 1,630,976; May 31.
- Valve, Cut-off. W. Goode. 1,613,164; Jan. 4.
- Valve cut-off and speed indicator. V. Z. Caracristi. 1,627,076; May 3.
- Valve, Cylindrical. E. M. Shannon. 1,635,737; Dec. 27.
- Valve, Deep-well emergency. K. M. Brogdon and C. L. Howes. 1,648,107; Nov. 8.
- Valve device. E. Tyden. 1,635,295; July 12.
- Valve device, Emergency-. T. H. Thomas. 1,612,892; Jan. 4.
- Valve device, Feed-. C. C. Farmer. 1,633,728; June 28.
- Valve device, Release-. C. C. Farmer. 1,644,571; Oct. 4.
- Valve device, Retaining-. F. P. Livingston. 1,626,618; May 8.
- Valve device, Retarded release-. C. C. Farmer. 1,633,777; June 28.
- Valve device, Safety pressure. H. S. Williams. 1,616,776; Feb. 8.
- Valve device, Triple. C. C. Farmer. 1,615,368; Jan. 25.
- Valve, Diaphragm. R. E. Mitton. 1,623,126; Apr. 5.
- Valve, Diaphragm. H. Pick. 1,615,071; Feb. 22.
- Valve, Differential. C. F. Peckham. 1,613,478; Jan. 4.
- Valve, Differential-pressure. C. H. Atkins. 1,625,780; Apr. 26.
- Valve, Discharge. R. L. Cawood. 1,652,929; Dec. 13.
- Valve, Division. W. E. Schultheiss. 1,640,726; Aug. 30.
- Valve, Double-gate balanced. C. A. Ernst. 1,649,953; Nov. 22.
- Valve, Double-plunger. C. W. Lerner. 1,636,661; July 19.
- Valve, Drain. A. Abhamonte. 1,629,465; May 24.
- Valve, Drain. J. L. Hutchings. 1,627,606; May 10.

- Valve, Draining. J. L. Hutchings. 1,621,165; Mar. 15.
 Valve, Drifting. J. B. Pruitt. 1,641,804; Sept. 6.
 Valve, Drifting. H. L. Roberts. 1,647,887; Nov. 1.
 Valve, Dry-pipe. T. W. Caudie. 1,624,315; Apr. 12.
 Valve, Dry-pipe. L. M. Lewis. 1,628,674; May 17.
 Valve, Dry-pipe. E. Tyden. 1,636,263; July 19.
 Valve, Duplex throttle. F. N. Poignand. 1,627,997; May 10.
 Valve, Electrically-actuated. R. E. Davis. 1,638,325; Aug. 9.
 Valve, Electrically-operated. C. T. Hibbard. 1,640,324; Aug. 23.
 Valve, Electrically-operated. H. J. Sauvage. 1,643,523; Sept. 27.
 Valve, End-train-pipe. E. H. Gold and E. A. Russell. 1,618,756; Feb. 22.
 Valve, Engine. A. E. Colchester. 1,633,694; June 28.
 Valve, Engine. B. F. McKee. 1,633,450; June 21.
 Valve, Engine. J. S. Petty. 1,647,931; Nov. 1.
 Valve, Engine. O. O. Storlie. 1,652,380; Dec. 13.
 Valve, Engine. F. Vorel. 1,647,592; Nov. 1.
 Valve, Float. O. O. Anderson. 1,623,574; Apr. 5.
 Valve, Float. J. J. Siefen. 1,649,620; Nov. 15.
 Valve, Float-controlled. J. H. Stockholder. 1,641,240; Sept. 6.
 Valve float, Flush-. E. L. Delany. 1,629,571; May 24.
 Valve, Fluid. M. G. Hubbard. 1,647,359; Nov. 1.
 Valve, Fluid-control. G. P. Dempler. 1,636,859; July 26.
 Valve, Fluid-controlling. C. H. Thomson, J. Cumiskey, C. J. Miller, and A. L. Jones. 1,622,069; Mar. 22.
 Valve, Fluid-pressure. R. J. Bogue. 1,647,429; Nov. 1.
 Valve, Flush. T. R. Beggs. 1,624,130; Apr. 12.
 Valve, Flush. E. M. Bliss. 1,613,785; Jan. 11.
 Valve, Flush. W. H. Cadwell, J. Ott, and C. D. Crocker. 1,653,492; Dec. 20.
 Valve, Flush. S. P. Enright and J. F. Dillon. 1,652,104; Dec. 6.
 Valve, Flush. R. Klann. 1,637,825; Aug. 2.
 Valve, Flush. J. J. Langdon. 1,626,289; Apr. 26.
 Valve, Flush. E. B. Rose. 1,635,010; July 5.
 Valve, Flushing. J. Jacobson and A. L. Ogilvie. 1,643,500; Sept. 27.
 Valve, Flushing. R. M. Keating. Re16,785; Nov. 15.
 Valve, Flushing. W. S. White. Re16,764; Oct. 4.
 Valve, Flush-tank. J. C. Ryan. 1,637,592; Aug. 2.
 Valve, Flush-tank. J. H. Scheibler. 1,616,875; Feb. 8.
 Valve, Flush-tank. G. T. Wilhelm. 1,621,699; Mar. 22.
 Valve, Foot-actuated. J. Fraser. 1,629,486; May 24.
 Valve for automatic controllers and the like. F. J. Bast. 1,633,613; Dec. 27.
 Valve for boilers, Inlet. W. M. Cissell. 1,628,654; May 17.
 Valve for built-in plumbing fixtures. L. W. Mueller. 1,637,280; July 26.
 Valve for cooking vessels. R. H. Wentorf. 1,612,845; Jan. 4.
 Valve for dry-pipe valves, Drip. E. E. Clark. 1,630,783; May 31.
 Valve for excessive-pressure vapor tanks and lines, Relief. C. P. Buck. 1,620,719; Mar. 15.
 Valve for flushing cisterns, Discharge. J. B. Christie. 1,618,268; Feb. 22.
 Valve for garment-pressing machines. F. E. Baker. 1,641,132; Aug. 30.
 Valve for internal-combustion engines, Rotary. H. Dock. 1,616,030; Feb. 1.
 Valve for internal-combustion motors, Spark-plug. C. A. Rudqvist. 1,622,349; Mar. 29.
 Valve for liquids or steam, Automatic temperature-control. W. H. Thomas, 3d. 1,634,525; July 5.
 Valve for locomotives, cylindrical. E. M. Shannon. 1,632,629; June 14.
 Valve for locomotives, Feed. G. de Grahl. 1,623,600; Apr. 5.
 Valve for making connection between underground main piping and underground branch piping. D. L. H. Van Raalte. 1,631,564; Feb. 7.
 Valve for multiple air tubes, Automobile tire. A. Ehrlert. 1,650,502; Nov. 22.
 Valve for oil burners. H. W. Hitzemann. 1,631,109; May 31.
 Valve for oil burners and the like, Safety. C. B. Buerger. 1,623,160; Apr. 5.
 Valve for oil burners, Quick-acting shut-off. R. D. McIntosh. 1,651,034; Nov. 29.
 Valve for oil tanks, Automatic vapor take-off. C. P. Buck. 1,620,718; Mar. 15.
 Valve for pipe lines, Rotary. J. Schnyder. 1,646,631; Oct. 25.
 Valve for piping of large diameter. K. Schlagenbauff. 1,652,054; Dec. 6.
 Valve for playing balls. H. Goldsmith. 1,641,382; Sept. 6.
 Valve for refrigerating apparatus. M. H. Loughbridge. 1,625,324; Apr. 19.
 Valve for refrigerating system. G. F. Knox. 1,616,130; Feb. 1.
 Valve for rock drills, Disk. L. C. Bayles and F. M. Slater. 1,633,471; June 21.
 Valve for soda fountains, Carbonated-water cut-off. O. Sasser. 1,632,625; June 14.
 Valve for sport balls or fluid containers. M. B. Reach and W. W. MacDonald. 1,618,676; Feb. 22.
 Valve for tanks. J. Harris. 1,631,372; June 7.
 Valve for the train lines of air-brake systems, Safety. C. C. Cousins. 1,647,959; Nov. 1.
 Valve for toilet-flushing mechanism, Inlet. C. A. Wulff. 1,622,696; Mar. 29.
 Valve for windmill steam engines, Auxiliary exhaust. E. P. Pelzer. 1,616,667; Feb. 8.
 Valve for use in fish stalls and like places, Automatic. F. M. Spurr. 1,632,516; June 14.
 Valve for water tanks, Automatic. O. Linstadt. 1,630,268; May 31.
 Valve-forming mechanism, Bag-. M. J. Davis. 1,623,170; Aug. 5.
 Valve, Frostproof drain. A. L. Wertz. 1,640,475; Aug. 30.
 Valve, Fuel engine. W. Schenker. 1,629,122; May 17.
 Valve, Gas. F. W. Shuell. 1,625,874; Apr. 26.
 Valve, Gas-compressor. C. C. Hansen. 1,614,124; Jan. 11.
 Valve, Gas-tank. W. H. Farnsworth. 1,642,412; Sept. 13.
 Valve, Gate. L. J. Black. 1,624,465; Apr. 12.
 Valve, Gate. R. Conrad. 1,637,736; Aug. 2.
 Valve, Gate. J. J. Duffy. 1,643,063; Sept. 20.
 Valve, Gate. A. F. Gill. 1,613,509; Jan. 4.
 Valve, Gate. A. M. Morrison. 1,636,427; July 19.
 Valve, Gate. J. H. Seymour and T. S. Spear. 1,613,138; Jan. 4.
 Valve, Gate. J. H. Seymour and T. S. Spear. 1,617,503; Feb. 15.
 Valve, Gate. S. W. Sparks. 1,648,071; Nov. 8.
 Valve, Gate. G. C. Thomas. 1,650,969; Nov. 29.
 Valve, Gate. W. G. Wilson. 1,645,785; Oct. 18.
 Valve gearing. F. S. Baster. 1,635,304; July 12.
 Valve generator arrangement. A. Meissner. 1,621,992; Mar. 22.
 Valve, Grease-cup. A. B. Fairchild. 1,625,717; Apr. 19.
 Valve-guide bushing. W. A. Disch. 1,641,963; Sept. 13.
 Valve, Hangar door. M. Q. Corbett. 1,634,982; July 5.
 Valve, Indicating. J. Sandilands. 1,635,349; July 12.
 Valve, Inner tire. D. Marrazzo. 1,622,332; Mar. 29.
 Valve, Intake. J. E. Harris. 1,626,279; Apr. 26.
 Valve, Intake. J. E. Harris. 1,627,052; May 8.
 Valve, Internal-combustion-engine. P. Krasno. 1,630,750; May 31.
 Valve, Internal-combustion turbine with rotary slide. K. Enders. 1,664,119; Dec. 27.
 Valve lifter. W. L. Allen. 1,621,820; Mar. 22.
 Valve lifter. S. Anzove. 1,616,482; Feb. 8.
 Valve lifter. G. Blum. 1,613,015; Jan. 4.
 Valve lifter. J. Cottrell and J. Marker. 1,627,957; May 10.
 Valve lifter. E. A. Davalos. 1,614,350; Jan. 11.
 Valve lifter. F. L. Frazer. 1,613,455; Jan. 4.
 Valve lifter. N. E. Gough. 1,619,369; Mar. 1.
 Valve lifter. F. C. Jewell and H. S. Jewell. 1,629,708; May 24.
 Valve lifter. H. I. Jordan. 1,636,058; July 19.
 Valve lifter. E. E. Raine. 1,623,752; Apr. 5.
 Valve lifter. J. C. Roberts. 1,620,335; Mar. 15.
 Valve lifter. N. J. Strodel. 1,619,162; Mar. 1.
 Valve lifter. A. Szandrowsky. 1,615,053; Jan. 18.
 Valve lifter, Self-adjusting. B. J. Thomas. 1,623,506; Apr. 5.
 Valve, Lifting. W. G. Wilson. 1,616,420; Feb. 1.
 Valve, Lifting. W. G. Wilson. 1,627,299; May 3.
 Valve-lifting apparatus. H. C. Hughes. 1,615,701; Jan. 25.
 Valve-lifting device. W. E. Greene and A. E. Morong. 1,632,834; June 21.
 Valve-lifting tool. W. F. Hobbs and J. A. Anderson. 1,614,300; Jan. 11.
 Valve, Liquid-fuel-burner. J. W. Booth. 1,616,778; Feb. 8.
 Valve, Liquid-sealed vacuum and pressure relief. J. H. Wiggins. 1,651,051; Nov. 29.
 Valve lock. R. Y. Mickler. 1,643,930; Sept. 27.
 Valve-locking attachment. J. Balzano. 1,650,481; Nov. 22.
 Valve, Magnetically-controlled fluid. W. Raymond. 1,622,672; Mar. 29.
 Valve mechanism. L. M. Baker. 1,613,012; Jan. 4.
 Valve mechanism. W. L. Church. 1,623,015; Sept. 13.
 Valve mechanism. L. J. Clapp. 1,633,692; June 28.
 Valve mechanism. L. J. Clapp. 1,633,772; June 28.
 Valve mechanism. W. A. Dawson. 1,621,712; Mar. 22.
 Valve mechanism. H. S. Farquhar. 1,617,516; Feb. 15.
 Valve mechanism. G. Gutierrez R. 1,643,766; Nov. 8.
 Valve mechanism. H. B. Faltorsen. 1,649,897; Nov. 22.
 Valve mechanism. J. R. Replogle. 1,615,406; Jan. 25.
 Valve mechanism. C. G. Swanstrom. 1,618,687; Feb. 22.
 Valve mechanism. W. B. Whitstitt. 1,637,135; July 26.
 Valve mechanism. W. H. Wineman. 1,635,146; July 5.
 Valve mechanism and valve tappet therefor. S. I. Fekete and K. H. Whisler. 1,637,020; July 26.
 Valve mechanism, Automatic. J. T. Stoney. 1,645,828; Oct. 18.
 Valve mechanism, Bath or basin outlet. L. W. and R. H. Mueller. 1,647,188; Nov. 1.
 Valve mechanism, Brake-control. N. A. Christensen. 1,616,571; Feb. 8.
 Valve mechanism, Choke. W. Schmid. 1,634,437; July 5.
 Valve mechanism, Control. N. A. Christensen. 1,616,606; Feb. 8.
 Valve mechanism, Control. N. A. Christensen. 1,650,063; Nov. 22.

- Valve mechanism, Electrically-operated. E. A. Hammett. 1,626,817; May 3.
- Valve mechanism, Flushing. P. Haas. 1,620,964; Mar. 15.
- Valve mechanism, Flushing. P. Haas. 1,623,109; Apr. 5.
- Valve mechanism, Flushing. P. Haas. 1,638,395; Aug. 9.
- Valve mechanism for dispensing fluids. N. M. Patrick and W. J. Wore. 1,632,501; June 14.
- Valve mechanism for internal-combustion engines. W. H. Bahan and E. H. Boyter. 1,618,045; Feb. 15.
- Valve mechanism for internal-combustion engines, Slide. C. H. Matthiessen, jr. 1,617,019; Feb. 8.
- Valve mechanism, Hydraulically operated flushing. P. Haas. 1,614,468; Jan. 18.
- Valve mechanism, Inlet. P. Haas. 1,629,914; May 24.
- Valve mechanism, Inlet. P. Haas. 1,639,997; Aug. 23.
- Valve mechanism, Inlet. P. Haas. 1,641,756; Sept. 6.
- Valve mechanism, Pneumatic. C. F. Stoddard. 1,648,075; Nov. 8.
- Valve mechanism, Thermostatic. H. C. Mallory. 1,644,736; Oct. 11.
- Valve mechanism, Thermostatically-controlled. W. W. Carson, jr. 1,644,325; Oct. 4.
- Valve mechanism, Thermostatically-controlled. H. W. O'Dowd. 1,643,255; Sept. 20.
- Valve member for two-stroke-cycle internal-combustion engines. H. Schneider. 1,616,993; Feb. 8.
- Valve, Mixing. C. C. Cochran. 1,614,437; Jan. 11.
- Valve, Mixing. E. L. Delany. 1,624,494; Apr. 12.
- Valve, Mixing. G. J. Morris. 1,632,450; June 14.
- Valve, Motor-controlled. O. Thiel. 1,642,391; Sept. 18.
- Valve, Motor-operated gate. F. H. Beebe. 1,616,841; Feb. 8.
- Valve, Multiway. G. A. Burman. 1,630,781; May 31.
- Valve, Nonrevolvable. W. G. Wilson. 1,633,690; June 23.
- Valve-operating device. G. B. Duffield. 1,629,449; May 17.
- Valve-operating device, Gas-Burner. A. J. Fraser. 1,637,143; July 26.
- Valve-operating machine. H. T. Bennett, J. McIntosh, and M. McNelly. 1,618,638; Feb. 22.
- Valve-operating means. E. A. Basel. 1,650,590; Nov. 29.
- Valve-operating means. C. R. Short. 1,644,750; Oct. 11.
- Valve-operating means. A. C. Whidden. 1,641,560-1; Sept. 6.
- Valve-operating means for fluid meters, Variable. C. J. Webster. 1,637,850; Aug. 2.
- Valve-operating means for flush tanks. W. U. Griffiths. 1,620,647; Mar. 15.
- Valve-operating means, Flush. C. J. Kirk. 1,638,161; Aug. 9.
- Valve-operating mechanism. D. F. Asbury. 1,612,792; Aug. 4.
- Valve-operating mechanism. E. M. Ballot. 1,633,882; June 28.
- Valve-operating mechanism. E. Brown. 1,623,048; Apr. 5.
- Valve-operating mechanism. L. Coatalen. 1,622,492; Mar. 29.
- Valve-operating mechanism. A. H. R. Fedden and L. F. G. Butler. 1,654,366; Dec. 27.
- Valve-operating mechanism. G. E. A. Hallett. 1,619,974; Mar. 8.
- Valve-operating mechanism. J. B. Wilson. 1,634,764; July 5.
- Valve-operating mechanism, Flush. H. De Wallace. 1,647,088; Oct. 25.
- Valve-operating mechanism, Limit switch for. E. A. Russell and P. B. Parks. 1,631,161; June 7.
- Valve or gauge cock, Steam. C. Blust. 1,654,451; Dec. 27.
- Valve, Outlet. G. N. Manison and I. E. Colvin. 1,654,298; Dec. 27.
- Valve, Outlet. G. G. Reeves. 1,626,969; May 3.
- Valve, Packless. W. D. Cashin and M. P. Miller. 1,648,260; Nov. 8.
- Valve, Packless. W. M. Fulton. 1,644,775; Oct. 11.
- Valve, Packless. W. M. Fulton. 1,644,825; Oct. 11.
- Valve, Packless. J. V. Giesler. 1,648,884; Nov. 8.
- Valve, Packless ball. H. Brown. 1,645,790; Oct. 18.
- Valve parts in rubber tubes, Locating. W. J. Donovan. 1,646,953; Oct. 25.
- Valve-pin extractor. J. G. Whitlow. 1,633,237; June 21.
- Valve-pin replacer. J. F. Koons. 1,633,110; June 21.
- Valve, Pipe. H. Campbell. 1,636,961; July 26.
- Valve, Piston. D. R. Murphy. 1,630,183; May 24.
- Valve, Piston. A. Tebaldi. 1,642,596; Sept. 13.
- Valve, Piston slide. K. Buba. 1,653,202; Dec. 20.
- Valve, Plug. F. G. Cornell, jr. 1,646,018; Oct. 18.
- Valve, Plunger. C. W. Lerner. 1,629,958; May 24.
- Valve, Pneumatic. E. W. Gent. 1,613,946; Jan. 11.
- Valve, Pneumatic. G. M. O. Jenkins. 1,632,079; June 14.
- Valve, Pneumatically-controlled light. C. F. Jenkins. Re16,818; Dec. 13.
- Valve, Pneumatic-trip. J. A. Overlander. 1,649,321; Nov. 15.
- Valve, Poppet. R. E. Bissell. 1,615,211; Jan. 25.
- Valve, Poppet. J. F. Burleson. 1,623,826; Apr. 5.
- Valve, Poppet. E. S. MacPherson. 1,616,538; Feb. 8.
- Valve, Pressure. P. A. Myers. 1,648,499; Nov. 8.
- Valve, Pressure. G. P. Olsen. 1,618,349; Feb. 22.
- Valve, Pressure and vacuum control. L. W. Browne. 1,620,322; Mar. 8.
- Valve, Pressure-operable. S. Greenhouse. 1,631,263; June 7.
- Valve, Pressure-operated. O. A. Freeze. 1,651,689; Dec. 6.
- Valve, Pressure-regulating. W. C. Heydecker, jr. 1,632,406; June 14.
- Valve, Pressure-regulating. A. R. Miller. 1,636,919; July 26.
- Valve, Pressure-retaining. E. F. Wentworth and N. W. Lyon. 1,626,109; Apr. 26.
- Valve, Puller, Protected standing. R. C. McKown. 1,614,747; Jan. 18.
- Valve, Puller, Standing. R. C. Hawkins. 1,640,406; Aug. 30.
- Valve, Pump. W. R. Hamilton. 1,634,141; June 28.
- Valve, Quick application and release. P. R. Forman. 1,636,769; July 26.
- Valve, Quick-throw thermostat. W. B. Bastian. 1,621,866; Mar. 22.
- Valve, Radiator. W. A. Colburn. 1,636,461; July 19.
- Valve, Radiator air. R. T. Warring and G. W. Stultz. 1,619,386; Mar. 1.
- Valve, Radiator relief. E. O. H. Poeppel. 1,624,362; Apr. 12.
- Valve, Radiator vent. E. Jacobus. 1,635,790; July 12.
- Valve, Reciprocating. D. R. Murphy. 1,653,369; Dec. 20.
- Valve, Reciprocating. W. G. Wilson. 1,616,672; Feb. 8.
- Valve, Reducing. A. J. and I. F. Fausek. 1,658,010; Aug. 9.
- Valve-refacing tool. L. O. Beard. 1,631,850; June 7.
- Valve-regulating device. A. Dickerson. 1,616,078; Feb. 1.
- Valve, Relief. H. D. Bingham. 1,652,231; Dec. 13.
- Valve, Relief. I. L. Nelson. 1,650,150; Nov. 22.
- Valve, Remote control. C. Atherton. 1,617,004; Feb. 8.
- Valve, Resenter. W. M. Howser. 1,616,498; Feb. 8.
- Valve-reversing mechanism. H. L. Herzig. 1,652,624; Dec. 13.
- Valve, Revolving-disk. F. Cavenagh. 1,633,161; June 21.
- Valve rocker-arm attachment. T. H. Cadwell. 1,623,863; Apr. 12.
- Valve, Rotary. E. M. Bournonville. 1,646,949; Oct. 25.
- Valve, Rotary. C. C. Foss and D. D. De Loach. Re16,816; Dec. 13.
- Valve, Rotary. L. E. Lawrence. 1,613,466; Jan. 4.
- Valve, Rotary. G. F. Rathbun. 1,635,767; July 12.
- Valve, Rotary. G. F. Rathbun. 1,653,121; Dec. 20.
- Valve, Rotary. C. H. Seifert. 1,635,963; July 12.
- Valve, Rotary. C. F. Smith. 1,614,323; Jan. 11.
- Valve, Rotary. W. Trinks. 1,645,631; Oct. 18.
- Valve-rotating mechanism. M. O. Anthony. 1,626,067; Apr. 26.
- Valve, Safety. C. L. Bastian. 1,649,210; Nov. 15.
- Valve, Safety. B. Noble. 1,644,265; Oct. 3.
- Valve, Safety control. F. L. Buß. 1,644,170; Oct. 4.
- Valve, Safety gas. C. Ferrari. 1,624,044; Apr. 12.
- Valve, Safety stop. L. W. Jones. 1,619,130; Mar. 1.
- Valve, Safety vent. J. P. Hell and A. Borchardt. 1,637,076; July 26.
- Valve, Screw-down. F. E. Owen. 1,618,844; Feb. 22.
- Valve, Sealed. J. J. Cavett. Re16,604; Apr. 26.
- Valve seat and head. J. E. Pyne. 1,634,512; July 5.
- Valve-seat and liner puller. R. F. Maxwell. 1,650,024; Nov. 22.
- Valve-seat cutter. E. Tyden. 1,632,354; June 14.
- Valve-seat grinder. J. W. Roy. 1,626,212; Apr. 26.
- Valve-seat puller. E. Greve. 1,652,887; Dec. 13.
- Valve-seat reamer. A. C. Savidge. 1,641,863; Sept. 6.
- Valve-seat-reconditioning machine. O. E. Houser. 1,654,219; Dec. 27.
- Valve-seat retainer. G. E. Putnam. 1,634,081; June 28.
- Valve seating and aligning tool. O. G. Simmons. 1,621,471; Mar. 15.
- Valve seats, Device for cleaning gas. G. G. Reis. 1,648,150; Nov. 8.
- Valve, Self-cleaning. G. M. Kelly. 1,647,734; Nov. 1.
- Valve, Self-cleaning flushing. P. Mueller and A. C. Schuermann. 1,647,189; Nov. 1.
- Valve, Self-grinding. J. F. Kelly. 1,640,040; Aug. 23.
- Valve, Shield. M. Sullivan. 1,631,438; June 7.
- Valve, Silencer. W. G. Dunn. 1,650,823; Nov. 29.
- Valve, Single-seat throttle. S. W. Taylor. 1,616,289; Feb. 1.
- Valve, Sleeve pump. O. M. Turner and H. W. Cannon. 1,648,304; Nov. 8.
- Valve, Slump and throw. J. Rice. 1,651,778; Dec. 6.
- Valve, Snap action. F. G. Schwelsthal. 1,635,692; July 12.
- Valve, Soap. L. Kooperstein. 1,626,939; May 3.
- Valve, Soda-fountain draft-arm. C. R. Jenks. 1,630,947; May 31.
- Valve, Spring compressor. G. S. Davis. 1,621,237; Mar. 15.
- Valve-spring compressor. C. Hays and W. M. Thomas. 1,632,288; June 14.
- Valve-spring compressor. R. J. Kirkpatrick. 1,619,870; Mar. 8.
- Valve-spring compressor. J. Nelson. 1,613,475; Jan. 4.
- Valve-spring lifter. O. Blomberg. 1,641,618; Sept. 6.
- Valve-spring lifter. R. E. Brown. 1,636,950; July 20.
- Valve-spring lifter. D. Clerico. 1,651,998; Dec. 6.
- Valve-spring lifter. H. F. Martin. 1,644,070; Oct. 4.
- Valve-spring lifter. P. O. Wiswell. 1,648,097; Nov. 8.
- Valve-spring lifter, Compound-lever. W. F. Hobbs. 1,614,301; Jan. 11.

- Valve springs of internal-combustion engines and for like purposes. Device for compressing. H. C. Jenkins. 1,622,319; Mar. 29.
- Valve. Sprinkler-system control. F. H. Johnson. 1,636,370; July 19.
- Valve, Standing. J. W. House. 1,640,408; Aug. 30.
- Valve, Standing. A. N. Miller. 1,626,549; Apr. 26.
- Valve, Steam. P. Pascale. 1,647,465; Nov. 1.
- Valve-stem cap. N. I. Woolsey. 1,621,300; Mar. 15.
- Valve-stem cap or the like. T. H. Lautenschlager. 1,639,803; Aug. 16.
- Valve stems, Making. A. W. Limont. Re16,610-20; May 10.
- Valve stems, Making. A. W. Limont. Re16,730; Sept. 6.
- Valve stems, Securing dust caps for. F. W. Benton. 1,617,299; Feb. 8.
- Valve, Stop. R. Fischbach. 1,636,297; July 19.
- Valve structure. G. W. Spangler. 1,625,689; Apr. 19.
- Valve structure and locking device. H. J. Ernst. 1,623,867; Apr. 5.
- Valve structure, By-pass. P. L. Fowler. 1,622,778; Mar. 29.
- Valve structure, Rotary. P. G. Frazier. 1,625,307; Apr. 19.
- Valve structure, Rotary. E. H. Mitcham. 1,635,380; July 12.
- Valve structure, Self-draining. T. E. Bart. 1,647,334; Nov. 1.
- Valve, Tank. A. H. Canfield. 1,652,236; Dec. 13.
- Valve, Tank. R. A. McIntyre and A. D. Hastings. 1,621,638; Mar. 22.
- Valve, Tank drain. W. E. Allen. 1,652,510; Dec. 13.
- Valve tappet. L. Salves. 1,633,038; June 21.
- Valve tappet and analogous articles. G. R. Rich. 1,644,793; Oct. 11.
- Valve tappet and forming the same. W. C. Osterholm. 1,650,644-5; Nov. 29.
- Valve-tappet compensator. R. Lee. 1,644,840; Oct. 11.
- Valve tappet, Cushioned. J. C. Miller. 1,613,117; Jan. 4.
- Valve tappet, Electrically-welded. G. R. Rich. 1,628,911; May 17.
- Valve tappets, Mounting for. A. F. Milbrath. 1,631,218; June 7.
- Valve, Temperature-control. R. Maclaren. 1,646,548; Oct. 25.
- Valve, Temporary tire-tube. G. W. Rundlett. 1,637,490; Aug. 2.
- Valve tester. V. Willoughby. 1,616,728; Feb. 8.
- Valve, Thermionic. A. C. Bartlett and R. Le Rossignol. 1,632,870; June 21.
- Valve, Thermostatic. H. S. Fahey. 1,630,929; May 31.
- Valve, Thermostatic. J. L. Ferris. 1,621,680; Mar. 22.
- Valve, Thermostatic. M. G. Hubbard. 1,633,410; June 21.
- Valve, Thermostatic. L. W. Schnepf. 1,617,548; Feb. 15.
- Valve, Thermostatic. C. R. Short. 1,644,751; Oct. 11.
- Valve, Thermostatic. L. W. Schnepf. 1,633,908; June 25.
- Valve, Thermostatic. H. R. Whittier. 1,644,501; Oct. 4.
- Valve, Thermostatic-controlled. J. Gordon. 1,651,817; Dec. 6.
- Valve, Thermostatic gasoline. A. Grudzinski. 1,619,612; Mar. 1.
- Valve, Thermodynamically-controlled gas. C. H. Morrow. 1,648,910; Nov. 15.
- Valve, Throttle. E. M. Shannon. 1,618,113; Feb. 15.
- Valve timer, Rotary. C. T. Litton. 1,650,082; Nov. 22.
- Valve-timing system. J. N. Bartlett. 1,614,861; Jan. 18.
- Valve tool. C. Cooley. 1,627,886; May 10.
- Valve, Train-pipe end. E. H. Gold. 1,643,300; Sept. 27.
- Valve, Traveling. J. T. Hendricks. 1,614,000; Jan. 11.
- Valve, Triple. C. A. Campbell. 1,632,756-7; June 14.
- Valve, Triple. B. J. Minnier and C. A. Campbell. 1,621,944; Mar. 22.
- Valve, Tube. H. A. Jones. 1,616,806; Feb. 8.
- Valve, Tube-cleaner. H. L. Staley. 1,630,677; May 31.
- Valve, Tubing-release. C. A. Wilson, J. B. Gocke, and C. F. De Corse. 1,614,908; Jan. 18.
- Valve, Turbine. R. C. Allen. 1,620,624; Mar. 15.
- Valve, Two-way. K. O. Nelson and H. J. Nunnemacher. 1,640,093; Feb. 23.
- Valve, Two-way drain. A. L. Mitchell. 1,639,954; Aug. 23.
- Valve, Velocity-reducing. H. B. Lee. 1,645,601; Oct. 15.
- Valve, Unloading. J. Le Valley. 1,632,841; June 21.
- Valve, Vacuum. E. F. Donnelly. 1,627,840; May 10.
- Valve, Vacuum pump. E. C. Oakes. 1,619,481; Mar. 1.
- Valve, Vent. L. F. Ostrander. 1,637,158; July 26.
- Valve, Water and air relief. W. D. Cashin and M. P. Miller. 1,644,109; Oct. 4.
- Valve, Water-discharge. F. Geller. 1,631,482; June 7.
- Valve, Water relief. H. A. Thrush. 1,620,582; June 8.
- Valve, Water-shut-off. F. Geller. 1,631,481; June 7.
- Valve, Whistle-control. R. W. Daniel. 1,646,640; Oct. 25.
- Valve within body of fixture, Shut-off. L. Bloch. 1,620,136; Mar. 8.
- Valved ventilator inlet. J. B. Olson and J. G. Shedron. 1,648,322; Nov. 8.
- Valves, Accelerating the opening of dry-pipe. E. E. Clark. 1,613,343; Jan. 4.
- Valves, Actuating flush-tank. W. U. Griffiths. 1,620,648; Mar. 15.
- Valves and making the same, Roller tappet for poppet. R. Jardine. 1,633,331; June 21.
- Valves, and other valves, Lock for gas-stove. C. Smith. 1,633,293; June 21.
- Valves and such, Water-tight seating for butterfly. E. C. Hutchinson and C. V. Foulds. 1,624,891; Apr. 12.
- Valves and the like, Lock joint for standing. W. C. Perry. 1,652,542; Dec. 13.
- Valves and the like, Operating device for. N. A. Petry. 1,630,213; May 24.
- Valves, Assembling radiator relief. E. O. H. Poeppel. 1,653,926; Dec. 27.
- Valves, Automatic safety cut-off for gas. C. Blust. 1,627,312; May 3.
- Valves, Automatic sequence-control for. J. S. Kennedy. 1,634,327; July 5.
- Valves, Ball-unseating device in line. R. M. Manning. 1,643,818; Sept. 27.
- Valves, Bracket for retaining. V. H. Harbert. 1,652,127; Dec. 6.
- Valves, Faucets, and the like, Silencer or flow regulator for. R. E. Blecher and E. H. Bucknell. 1,625,589; Apr. 19.
- Valves, Holding-down mechanism for rotary. R. F. Barker. 1,616,022; Feb. 1.
- Valves, Indicator for setting steam-engine. S. B. Muselman. 1,631,265; June 7.
- Valves, Latch-releasing device for dry pipe. H. G. Carlson. 1,621,872; Mar. 22.
- Valves, Machine for grinding. F. S. Simpson. 1,631,700; June 7.
- Valves, Making. L. Iversen. 1,629,504; May 24.
- Valves, Making poppet. W. S. Knudsen. 1,644,021; Oct. 4.
- Valves, Making two-piece. W. H. Washburne. 1,619,901; Mar. 8.
- Valves, Manufacturing seats for butterfly. C. V. Foulds. 1,627,265; Nov. 22.
- Valves of air compressors for a plurality of pressures, Mechanism for automatically controlling the unloading. M. Riesner. 1,615,039; Jan. 18.
- Valves of heating systems, Lock for air. A. J. Ortseifen. 1,631,844; Jan. 11.
- Valves of the like, Regulating device for controlling the operation of. P. C. P. Booty. 1,623,616; Apr. 5.
- Valves, Packing for gate. W. H. Barton. 1,625,698; Apr. 19.
- Valves, Packing ring for. W. G. Wilson. 1,613,072; Jan. 11.
- Valves, Pedal operator for flush. J. Coret. 1,614,346; Jan. 11.
- Valves, Repacking. G. F. Merrill. 1,637,026; July 26.
- Valves, Safety device for gas. R. Piezonka. 1,618,307; Feb. 22.
- Valves, Sequence interlock for automatic. J. S. Kennedy. 1,648,052; Nov. 8.
- Valves, Spring seat for spring-loaded. F. H. Hopkins. 1,643,124; Nov. 8.
- Valves, Supplying power to thermionic. G. M. Wright. 1,642,526; Sept. 13.
- Valves to speedometer cables, Device for coupling alemitte. F. W. Emert. 1,618,819; Feb. 22.
- Valves, Wrist-pin assembly for meter. G. D. Wilson. 1,647,598; Nov. 1.
- Van, Moving. R. Ario. 1,627,135; May 3.
- Vanadium compound and making same. A. C. Reed. 1,631,687; Dec. 6.
- Vanadium from petroleum hydrocarbons, Recovering. A. Oberle. 1,638,057; Aug. 9.
- Vanadium, Recovering. K. B. Thews. 1,621,038; Mar. 15.
- Vane or shovel, Fuel-throwing. L. K. Gillson. 1,627,381; May 3.
- Vanillin, Manufacturing. R. H. Bots. 1,643,804-5; Sept. 27.
- Vanity box S. and H. Buchsbaum. 1,623,994; Apr. 12.
- Vanity box. C. P. Cook. 1,620,999; Mar. 15.
- Vanity box. C. P. Cook. 1,622,005; Mar. 15.
- Vanity box. C. P. Cook. 1,643,944; Oct. 4.
- Vanity box. I. Fingerma. Des. 73,907; Nov. 22.
- Vanity box. F. Goertz. 1,636,183; July 19.
- Vanity box. J. B. Griffin. 1,637,183; July 26.
- Vanity box. N. Kasdan and D. Pollack. 1,651,132; Nov. 29.
- Vanity box. A. S. Lyhne. 1,618,598; Feb. 22.
- Vanity box. A. S. Lyhne. 1,632,410; June 14.
- Vanity box. A. S. Lyhne. 1,642,962; Sept. 20.
- Vanity box. A. S. Lyhne. 1,651,722; Dec. 6.
- Vanity box. J. L. McAtree. 1,639,001; Aug. 16.
- Vanity box. J. Ross and E. A. Schuelke. 1,645,351; Oct. 11.
- Vanity box. E. A. Schuelke and J. Ross. 1,654,271; Dec. 27.
- Vanity box. Loose-powder. B. P. Hyde. 1,647,004; Oct. 25.
- Vanity case. J. F. Babbitt. 1,644,704; Oct. 11.
- Vanity case. E. R. Barany. 1,620,002; Mar. 8.
- Vanity case. M. C. de Botelho. Des. 72,941; June 23.
- Vanity case. R. T. Brewster. Des. 73,024-5; July 12.
- Vanity case. A. R. Bishelm. 1,651,193; Nov. 29.
- Vanity case. A. M. Coons. 1,649,891; Nov. 22.
- Vanity case. J. S. Corry. 1,625,455; Apr. 19.
- Vanity case. C. N. Corryell. 1,620,251; Mar. 8.
- Vanity case. C. N. Corryell. 1,626,023; Apr. 26.
- Vanity case. C. L. Coyle. Des. 72,602; May 10.
- Vanity case. F. A. Fairbairn. 1,620,088; Mar. 8.
- Vanity case. A. Frech. Des. 72,655; May 10.

- Vanity case. L. J. Greenwald. 1,631,588; June 7.
 Vanity case. W. A. Heard. Des. 73,258; Aug. 16.
 Vanity case. W. A. Heard. Des. 74,108-9; Dec. 20.
 Vanity case. N. Kasdan. 1,631,137; June 7.
 Vanity case. N. Kasdan and D. Pollack. 1,631,964; June 14.
 Vanity case. N. Kasdan and D. Pollack. 1,635,326; July 12.
 Vanity case. W. G. Kendall. 1,613,798; Jan. 11.
 Vanity case. W. G. Kendall. 1,613,795; Feb. 1.
 Vanity case. W. G. Kendall. 1,617,448; Feb. 15.
 Vanity case. L. L. Kole and E. Loeffler. 1,642,780; Sept. 20.
 Vanity case. H. MacDougall. 1,616,381; Feb. 1.
 Vanity case. C. L. Marcus. 1,622,463; Mar. 29.
 Vanity case. C. L. Marcus. 1,641,881; Sept. 13.
 Vanity case. J. L. McAtee. 1,638,565; Aug. 16.
 Vanity case. A. H. Noble. 1,635,631; July 12.
 Vanity case. P. A. Reutter. 1,629,966; May 24.
 Vanity case. G. O. Squier. 1,644,404; Oct. 4.
 Vanity case. A. Weber. 1,632,864; June 21.
 Vanity case. F. M. Wojciechowski. Des. 72,400; Apr. 5.
 Vanity case and ejector therefor. W. G. Kendall. 1,647,046; Oct. 25.
 Vanity case and the like. F. M. Wojciechowski. 1,643,278; Sept. 20.
 Vanity-case compact holder and catch. W. G. Kendall. 1,626,413; Apr. 26.
 Vanity-case ejector. W. G. Kendall. 1,618,092; Feb. 15.
 Vanity case for automobiles. N. B. Price. 1,639,003; Aug. 16.
 Vanity-case frame. F. J. Quigan. 1,624,070; Apr. 12.
 Vanity case or similar article. Cover for. P. J. Callowhill. Des. 73,224; Aug. 9.
 Vanity cases. Compact ejector for. W. G. Kendall. 1,616,378; Feb. 1.
 Vanity cases. Compact ejector for. W. G. Kendall. 1,635,891; July 12.
 Vanity cases. Compact ejector for. W. G. Kendall. 1,647,917; Nov. 1.
 Vanity cases. Compact holder and ejector for. W. G. Kendall. 1,642,611; Sept. 13.
 Vanity cases. Fastening member for. A. Weber. 1,632,863; June 21.
 Vanity chest. T. J. Pilliod. 1,639,963; Aug. 23.
 Vanity compact and cigarette case, Combined. S. Q. Lupo. 1,614,374; Jan. 11.
 Vanity hand bag. L. D. Hall. 1,630,844; May 31.
 Vapor burner. T. Nagel. 1,620,123; Mar. 8.
 Vapor burner. Automatic fuel-oil. W. F. La Rose. 1,618,717; Feb. 22.
 Vapor burners. Electric preheater for. G. A. Hoffman. 1,630,940; May 31.
 Vapor condenser. J. J. Wilt. 1,628,210; May 10.
 Vapor cooling system. L. P. Barlow. 1,632,580; June 14.
 Vapor cooling system. L. V. Grantier. 1,632,596; June 14.
 Vapor device. Metallic. E. Weintraub. 1,627,070; May 3.
 Vapor generator. R. H. Collingham. 1,628,391; May 10.
 Vapor generator. R. H. Collingham. 1,645,092; Oct. 11.
 Vapor lamp. U. G. Brando. Des. 71,998; Feb. 15.
 Vapor recovery. C. L. Voress and N. C. Turner. 1,616,242; Feb. 1.
 Vapor rectifier. Mercury-. L. Wimberger. 1,652,921; Dec. 13.
 Vapor-utilizing device. I. J. Hunter. 1,637,941; Aug. 2.
 Vaporization end point. Method and apparatus for determining equilibrium. C. E. Parsons and R. Stevenson. 1,632,748; June 14.
 Vaporizer. R. M. Anderson and S. M. Udale. 1,635,808; July 12.
 Vaporizer. T. Duffy. 1,649,392; Nov. 15.
 Vaporizer. N. Lawner. 1,625,002; Apr. 19.
 Vaporizer. E. A. and J. A. Millitt. 1,644,937; Oct. 11.
 Vaporizer. A. Scacchitti. 1,613,537; Jan. 4.
 Vaporizer. C. H. Taylor and S. M. Udale. 1,648,515; Nov. 8.
 Vaporizer. J. S. Wight. 1,623,452; Apr. 5.
 Vaporizer and burner. O. H. G. Humason and C. G. Giamert. 1,621,509; Mar. 22.
 Vaporizer. Fuel. A. T. Taeker. 1,642,795; Sept. 20.
 Vaporizer. Heavy-oil. P. C. Lindsey. 1,637,004; July 26.
 Vaporizer. Heavy-oil. D. T. Scott. 1,626,561; Apr. 26.
 Vaporizer. Heavy-oil. D. T. Scott. 1,642,268; Sept. 13.
 Vaporizer. Kerosene. J. A. Mathes. 1,624,270; Apr. 12.
 Vaporizer. Perfume. M. Bruelle. Des. 71,881; Jan. 18.
 Vaporizer-temperature control. G. Wirrer. 1,646,779; Oct. 25.
 Vaporizing a getter in an evacuated vessel. W. H. T. Holden. 1,626,732; May 3.
 Vaporizing and burning liquid fuel. Device for. M. M. Giam. 1,619,859; Mar. 8.
 Vaporizing apparatus. G. W. D'Arcy. 1,640,484; Aug. 30.
 Vaporizing liquids. Apparatus for. A. Schneider. 1,624,014; Apr. 12.
 Vapors. Apparatus for condensing. E. W. Isom and J. E. Bell. 1,627,544; May 3.
 Vapors from gases. Recovering condensable. H. H. Armstrong. 1,621,821; Mar. 22.
 Vapors or gases. Detecting, indicating, and recording the presence of inflammable. H. T. Ringrose. 1,615,404; Oct. 11.
 Vapors. Process and apparatus for the condensation of. D. G. Brandt. 1,613,016; Jan. 4.
 Variable high resistance and making same. W. A. Smith. 1,649,900; Nov. 22.
 Variable inductive device. J. O. Gargan. 1,636,178; July 19.
 Variable instruments. Control unit for. K. Rottgardt. 1,643,787; Sept. 27.
 Variable-speed mechanism. E. C. Hatcher. 1,624,835; Apr. 12.
 Variable resistance device. C. E. Bonine. 1,614,774; Jan. 18.
 Variometer. C. D. Tuska. 1,630,873; May 31.
 Variometers. Mold for. C. D. Tuska. 1,630,874; May 31.
 Varnish. Chlorinated-rubber. N. Boehmer. 1,635,812; July 12.
 Varnish. Condensation product. A. L. Brown. 1,640,562; Aug. 30.
 Varnish fire. D. E. Goggin. 1,638,845; Aug. 16.
 Varnish. Making a phenolic resin. L. M. Rossi. 1,613,724; Jan. 11.
 Varnish. Method of and apparatus for applying and treating. G. K. Clover. 1,646,010; Oct. 18.
 Varnish. Nondamnable. H. C. Weber. 1,635,567; July 12.
 Varnish. Preparing a. F. Schwartz. 1,621,438; Mar. 15.
 Varnish remover. Ethyl-acetate. C. Ellis. 1,618,868; Feb. 22.
 Vase. J. Bindon. 1,615,611; Jan. 25.
 Vase. H. K. Green and J. W. Jennings. Des. 73,373; Aug. 30.
 Vase. P. Viggiano. 1,617,280; Feb. 8.
 Vase. Ground. J. D. Berger. 1,616,647; Feb. 8.
 Vase or receptacle. Metal. J. M. Merrill. 1,616,057; Feb. 1.
 Vat. C. Pauly. 1,633,271; June 21.
 Vat dyes of the anthraquinone series. M. Kugel. 1,631,461; Dec. 6.
 Vats. Valve for milk. D. A. Maanum. 1,639,853; Aug. 23.
 Vault. Burial. O. D. Clay. 1,650,606; Nov. 29.
 Vault. Burial. E. H. Pinkerton. 1,635,904; July 12.
 Vaults. Attachments for. N. Z. Smith. Rel. 6,675; July 12.
 Vault handle. C. J. Ledwidge. 1,620,770; Mar. 15.
 Vault lights. Form for setting. E. J. Alfieres. 1,624,304; Apr. 12.
 Vault lock. Safety. M. L. Canott. 1,646,138; Oct. 18.
 Vault or safe, Safety burial. J. Q. Clarke. 1,637,471; Aug. 2.
 Vault or safe doors and the like. Construction of. G. M. Goldsmith and C. Bartels. 1,622,825; Mar. 29.
 Vault. Safe-deposit. E. W. Anderson. 1,624,305; Apr. 12.
 Vaults. Alarm system for. E. G. Lawrence. 1,629,347; May 17.
 Vaults. Protective device for. J. J. Balkenbush. 1,645,368; Oct. 11.
 Vaults, safes, and the like. Safety device for. C. Bartels and C. J. Goebel. 1,614,944-5; Jan. 18.
 Vaults, safes, and the like. Safety device for. E. M. Benham. 1,614,978; Jan. 18.
 Vegetable and fruit crusher. G. R. Catolde. 1,638,618; Aug. 9.
 Vegetable, animal, or artificial fibers with dyes or other liquids. Apparatus for treating. J. Schlumpf. 1,628,557; May 10.
 Vegetable cleaner. H. W. Meyer. 1,632,142; June 14.
 Vegetable cutter. J. Kuehler. 1,618,935; Feb. 22.
 Vegetable cutter. F. H. Miller. 1,623,550; Apr. 26.
 Vegetable cutter. Green-. F. W. Burpee. 1,623,089; Apr. 5.
 Vegetable fiber. Cooking. S. D. Wells. 1,626,171; Apr. 26.
 Vegetable fibers. Loosening. J. Billwiller. 1,649,281; Nov. 15.
 Vegetable matters of unlimited durability. Apparatus for the production of preserves of. A. Faiselowitz. 1,647,089; Oct. 25.
 Vegetable-packaging machine. Feed mechanism in a. A. Mallinson. 1,648,356; Nov. 8.
 Vegetable sea-growth derivative and a method for the preparation thereof. G. F. Meehan and A. L. Kennedy. 1,639,262; June 21.
 Vegetable slicer. N. K. Ahl. 1,636,583; July 19.
 Vegetable-thinning machine. C. D. Symmes. 1,614,700; Jan. 18.
 Vegetable-topping machine. C. H. Ayars. 1,635,569; July 12.
 Vegetable washer. V. A. Doty. 1,646,690; Oct. 25.
 Vegetable washer. P. A. Ross. 1,630,136; May 24.
 Vegetables into bundles. Band for tying. R. J. Brown. 1,630,888; May 31.
 Vehicle. M. W. Arleigh. 1,616,839; Feb. 8.
 Vehicle. I. H. Athey. 1,623,456-8; Apr. 5.
 Vehicle. E. Curran and J. J. Hickey. 1,634,021; June 28.
 Vehicle. T. J. Fay. 1,630,062; May 24.
 Vehicle. T. J. Fay. 1,631,803; June 7.
 Vehicle. T. J. Fay. 1,642,946; Sept. 20.
 Vehicle. A. W. Harrison. 1,632,405; June 14.
 Vehicle. J. H. Hertner and E. H. Remde. 1,628,145; May 10.
 Vehicle. O. F. Hunt. 1,631,206; June 7.
 Vehicle. C. F. Kettering and C. R. Short. 1,618,439; Feb. 22.
 Vehicle. N. P. Larsen. 1,627,911; May 10.

- Vehicle. C. Pirquet. 1,651,727; Dec. 6.
 Vehicle. B. Sanni. 1,646,664; Oct. 25.
 Vehicle. A. Scania. 1,633,279; June 21.
 Vehicle. W. O. Shadbolt. 1,629,543; May 24.
 Vehicle. J. T. Shoup. 1,632,804; June 21.
 Vehicle. E. J. Stahl. 1,622,240; Mar. 22.
 Vehicle. N. C. Storey. 1,623,214; Apr. 5.
 Vehicle, Amphibious. S. M. Code. 1,646,611; Oct. 25.
 Vehicle anchorage device. C. A. Goodspeed. 1,628,860; May 17.
 Vehicle anchorage device. W. H. Lanning. 1,617,400; Feb. 15.
 Vehicle and casket coach, Convertible passenger. H. A. Chandler. 1,627,833; May 10.
 Vehicle and engine control, Motor. C. M. F. Friden. 1,618,586; Feb. 22.
 Vehicle and trailer, Auto marine. A. E. Cook. 1,631,248; June 7.
 Vehicle and window therefor, Motor. J. H. Sherts. 1,645,355; Oct. 11.
 Vehicle, anti-friction spring bearing. H. C. Harris. 1,635,669; July 12.
 Vehicle attachment. L. W. Helmling. 1,636,997; July 26.
 Vehicle attachment, Motor. C. F. Jaeger. 1,648,128; Nov. 8.
 Vehicle, Auto marine. A. E. Cook. 1,634,932; July 5.
 Vehicle, Automobile. F. W. Lancaster. 1,636,673; July 19.
 Vehicle, Automotive. R. W. Bailey. 1,628,350; May 10.
 Vehicle bodies, Construction of motor road. F. J. Barnes. 1,622,899; Mar. 29.
 Vehicle bodies, Hoisting device for. W. B. Engler. 1,636,555; July 19.
 Vehicle bodies, Post connection for. L. I. Heintz. 1,629,271; May 17.
 Vehicle bodies, Post connection for. A. L. Lambert. 1,620,278; May 17.
 Vehicle bodies, Post construction for. L. I. Heintz. 1,642,368; Sept. 13.
 Vehicle bodies, Resilient support for. W. N. Amory. 1,634,895; July 5.
 Vehicle bodies, Sliding window for. H. H. Bugbie. 1,634,449; July 5.
 Vehicle body. H. N. Atwood. 1,633,159; June 21.
 Vehicle body. W. H. Bennett. 1,641,877; Sept. 6.
 Vehicle body. A. Hoeltz. 1,631,131; June 7.
 Vehicle body. J. Ledwinka. 1,643,742; Sept. 27.
 Vehicle body. P. R. Schnable. 1,620,494; Mar. 8.
 Vehicle body. J. A. Simons. 1,648,965; Nov. 15.
 Vehicle body and hood, Combined motor. A. S. Freed. Des. 73,603; Oct. 11.
 Vehicle body, Concrete. J. B. Strauss. 1,633,141; June 21.
 Vehicle body construction. V. A. Noble. 1,644,892; Oct. 11.
 Vehicle body construction. J. Shakespeare. 1,614,401; Jan. 11.
 Vehicle body, Convertible. F. A. Best. 1,619,182; Mar. 1.
 Vehicle body, Convertible. C. A. Marwahn. 1,629,403; May 17.
 Vehicle body, Convertible. F. N. Vanier. 1,648,205; Nov. 8.
 Vehicle body door. J. Morrison. 1,621,802; Mar. 22.
 Vehicle body, Flexible. C. Froesch. 1,650,203; Nov. 22.
 Vehicle body, Motor. A. S. Freed. Des. 73,602; Oct. 11.
 Vehicle body removing and replacing device. S. Carnes. 1,631,915; June 7.
 Vehicle body, Sectional. A. F. Masury. 1,621,675; Mar. 22.
 Vehicle body structure, Closed. J. Ledwinka. 1,652,902; Dec. 13.
 Vehicle body support. W. D. Harper. 1,652,357; Dec. 13.
 Vehicle brake. F. A. Bower. 1,651,368; Dec. 6.
 Vehicle brake. H. C. Chase. 1,631,470; June 7.
 Vehicle brake. T. P. Chase. 1,613,692; Jan. 11.
 Vehicle brake. T. P. Chase. 1,627,534; May 10.
 Vehicle brake. N. A. Christensen. 1,620,073; Mar. 8.
 Vehicle brake. C. J. Cuppett. 1,633,001; June 21.
 Vehicle brake. C. Kachel. 1,633,013; Dec. 20.
 Vehicle brake. W. T. Norton, Jr. 1,620,485; Mar. 8.
 Vehicle brake. G. E. Parker and A. H. Stahlhuth. 1,631,406; Dec. 6.
 Vehicle brake. T. H. Reeder. 1,621,378; Mar. 15.
 Vehicle brake. E. R. Snyder. 1,649,085; Nov. 15.
 Vehicle brake. J. D. Van Derwyk. 1,621,912; Mar. 22.
 Vehicle brake, Combined power and foot operated. G. E. Collins. 1,654,321; Dec. 27.
 Vehicle brake device. H. S. Clark. 1,622,420; Mar. 29.
 Vehicle brake mechanism. N. A. Christensen. 1,619,970; Mar. 8.
 Vehicle brake mechanism. J. F. Craig. 1,633,773; June 28.
 Vehicle brake mechanism. E. R. Evans. 1,648,168; Nov. 8.
 Vehicle brake, Traction-. L. H. Hershfield. 1,651,524; Dec. 6.
 Vehicle brakes, Relay mechanism for. F. G. Parneil. 1,637,349; Aug. 2.
 Vehicle bumper. I. Amato. 1,622,754; Mar. 29.
 Vehicle bumper. H. S. Jandus and E. R. Keelor. Des. 73,608; Oct. 11.
 Vehicle bumper. F. J. Laher. 1,625,550; Apr. 19.
 Vehicle bumper. F. Renzulli. 1,622,050; Mar. 22.
 Vehicle bumper. C. A. Schmidt. Des. 73,510; Sept. 20.
 Vehicle bumpers, Support for. M. B. Hammond. 1,617,903; Feb. 15.
 Vehicle cab. C. J. Cropp. 1,623,830; Apr. 5.
 Vehicle check. J. J. Van Koolbergen. 1,653,420; Oct. 20.
 Vehicle, Child's. H. W. Dyer. Des. 72,361; Apr. 5.
 Vehicle, Child's. C. D. Higginson. Des. 73,977; Nov. 29.
 Vehicle, Child's. C. D. Higginson. 1,654,169; Dec. 27.
 Vehicle, Child's. J. A. Maxson. 1,637,266; July 26.
 Vehicle, Child's. E. M. Mayer. 1,620,563; Mar. 8.
 Vehicle, Child's. E. M. Mayer. 1,644,535; Oct. 4.
 Vehicle, Child's. W. B. Miles. 1,648,161; Oct. 13.
 Vehicle, Child's. J. W. Norrish. 1,613,356; Jan. 4.
 Vehicle, Child's. W. R. Paxson. 1,653,583; Dec. 20.
 Vehicle, Child's. H. C. Schaper. 1,614,086; Jan. 11.
 Vehicle, Closed. W. H. Emond. 1,622,098; Mar. 22.
 Vehicle closure. J. H. Bourgon. 1,615,826; Feb. 1.
 Vehicle closure. J. H. Bourgon. 1,623,934; Apr. 5.
 Vehicle closure. F. A. Brenner. 1,617,298; Feb. 8.
 Vehicle construction. G. B. Ingersoll. 1,641,333; Sept. 6.
 Vehicle construction and suspension. B. F. Seymour. 1,637,355; Aug. 2.
 Vehicle construction, Cushion connection for. E. R. Gurney. 1,612,810; Jan. 4.
 Vehicle construction, Cushion connection for. A. H. Lepert. 1,622,729; Mar. 29.
 Vehicle construction, Cushion connection for. F. L. Lipcot. 1,636,099; July 19.
 Vehicle construction, Cushion connection for. A. F. Masury. 1,613,863; Jan. 11.
 Vehicle construction, Cushion connection for. A. F. Masury. 1,621,676; Mar. 22.
 Vehicle construction, Motor-. H. E. Curtis. 1,647,084; Oct. 25.
 Vehicle construction, Motor-. J. G. Utz. 1,641,242; Sept. 6.
 Vehicle control pedal, Motor-. H. E. Hull. 1,619,421; Mar. 1.
 Vehicle cover. J. Heywood. 1,615,513; Jan. 25.
 Vehicle coupling. H. P. Jensen. 1,650,538; Nov. 29.
 Vehicle dash. R. E. Carney. 1,633,093; June 21.
 Vehicle, Device for testing the induction coil and condenser of an electrical ignition system of a motor. E. B. Jacobson. 1,636,743; July 26.
 Vehicle direction and stop signaling means. J. W. Brenkert. 1,649,587; Nov. 22.
 Vehicle direction indicator. F. W. Chadwick. 1,630,608; May 31.
 Vehicle direction signal. W. A. Snyder. 1,617,690; Feb. 15.
 Vehicle, Dirigible. G. W. Roberts. 1,652,409; Dec. 6.
 Vehicle door construction. A. L. Lambert. 1,620,614-15; Mar. 8.
 Vehicle doors, Connector plate for. M. R. Hull. 1,644,018; Oct. 4.
 Vehicle doors, Latch for. R. V. Kalmer. Re16,735; Sept. 13.
 Vehicle drivers, Weather protector for motor. H. E. Wedge. 1,654,393; Dec. 27.
 Vehicle Dump-body. C. E. Packard. 1,625,496; Apr. 19.
 Vehicle, Dumping. L. da C. Carvalho. 1,633,364; June 21.
 Vehicle, Dumping. A. W. Osborn. 1,619,628; Mar. 1.
 Vehicle dumping mechanism. E. A. Dewald. 1,630,257; Mar. 8.
 Vehicle elastic suspension. C. Beltrami. 1,649,800; Nov. 22.
 Vehicle, Electric. A. K. Brumbaugh. 1,648,536; Nov. 8.
 Vehicle, Electrically-propelled. P. D. Ionides. 1,619,616; Mar. 1.
 Vehicle and gate. C. F. Allison. 1,635,163; July 12.
 Vehicle fender. W. F. Brown. 1,637,632; Aug. 2.
 Vehicle fender. G. F. Egan. 1,620,196; Mar. 8.
 Vehicle fender, Extensible. G. Lolli. 1,632,980; June 21.
 Vehicle float, Commercial. J. F. Hludes. Des. 72,427; Apr. 12.
 Vehicle, Flow delivery and exhibition. W. P. Chase. 1,617,940; Feb. 15.
 Vehicle, Foldable. C. M. Wills. 1,652,190; Dec. 13.
 Vehicle for snow travel. C. J. E. Eliason. 1,650,334; Nov. 22.
 Vehicle for the transportation of sugar cane and the like. L. D. Gregg. 1,634,773; July 5.
 Vehicle frame. W. F. Pfander. 1,629,301; May 17.
 Vehicle frame, Motor-. A. T. Sturt. 1,629,320; May 17.
 Vehicle guard. E. C. Gledhill. 1,643,555; Sept. 27.
 Vehicle, Hand-propelled child's. R. B. Bukoit. 614,824; Jan. 8.
 Vehicle having brakes. L. Blackmore. 1,638,316; Aug. 9.
 Vehicle having brakes. L. E. La Brie. 1,647,007; Oct. 25.
 Vehicle having four-wheel brakes. D. E. Anderson. 1,654,131; June 28.
 Vehicle headlights, dirigible, Mechanism for rendering. H. J. Dodds. 1,650,115; Nov. 22.
 Vehicle heater, Motor. E. Ryder. 1,653,687-8; Dec. 27.
 Vehicle heater. J. A. Sall. 1,614,996; Jan. 18.
 Vehicle heater, Motor-. P. O. Bjerkie. 1,650,977; Nov. 29.
 Vehicle heater, Motor-. J. S. Brant. 1,642,296; Sept. 13.
 Vehicle heater, Motor-. E. W. Leahy. 1,623,879; Apr. 5.
 Vehicle hood cover, Motor-. C. Wilhelm. 1,631,663; June 7.
 Vehicle inclosure heating and ventilating means. W. G. Dunn. 1,622,498; Mar. 29.
 Vehicle jack. J. H. Burkholder. 1,635,397; July 12.

- Vehicle jack. R. S. Fox. 1,617,753; Feb. 15.
 Vehicle. J. M. Howe. 1,640,357; Aug. 30.
 Vehicle leveling device. H. N. Berry. 1,636,620; July 19.
 Vehicle lift. Motor-. L. Scholler. 1,647,935; Nov. 1.
 Vehicle lifting device. E. A. Longgood. 1,649,904; Nov. 22.
 Vehicle light. G. O. Bollman and O. J. Zimmermann. 1,642,217; Sept. 20.
 Vehicle loads. Apparatus for supporting. W. H. Orpen. 1,620,682; Mar. 15.
 Vehicle lock. C. T. Kentrup. Re16,801; Nov. 29.
 Vehicle lock. E. C. Peterson. 1,622,839; Mar. 29.
 Vehicle lock. E. C. Peterson. 1,629,731; May 24.
 Vehicle lock, Motor-. C. E. Bauerie. 1,647,111; Oct. 25.
 Vehicle. Manually-propelled. T. J. Riley. 1,629,308; May 17.
 Vehicle. Motor. W. H. Barnes. 1,646,151; Oct. 18.
 Vehicle. Motor. L. Blackmore. 1,644,708; Oct. 11.
 Vehicle. Motor. J. S. Booth. Re16,579; Mar. 29.
 Vehicle. Motor. H. D. Church. 1,639,881; Aug. 23.
 Vehicle. Motor. D. D'Amato. 1,613,443; Jan. 4.
 Vehicle. Motor. W. H. Ewend. 1,645,322; Oct. 11.
 Vehicle. Motor. W. K. Gordon. 1,634,828; July 5.
 Vehicle. Motor. W. R. Griswold. 1,645,323; Oct. 11.
 Vehicle. Motor. J. Hammerl. 1,645,325; Oct. 11.
 Vehicle. Motor. W. Hartmann. 1,650,272; Nov. 22.
 Vehicle. Motor. E. A. Heistrand. 1,651,888; Dec. 6.
 Vehicle. Motor. E. Herds. 1,623,726; Apr. 6.
 Vehicle. Motor. G. B. Johanson. 1,638,854; Aug. 16.
 Vehicle. Motor. W. P. Kennedy. 1,619,941; Mar. 8.
 Vehicle. Motor. K. Klein. 1,619,823; Mar. 8.
 Vehicle. Motor. H. J. Kline. 1,651,281; Nov. 29.
 Vehicle. Motor. A. L. Knapp. 1,639,890; Aug. 23.
 Vehicle. Motor. J. Lednicki. 1,619,478; Mar. 1.
 Vehicle. Motor. J. C. M. Massey. 1,621,942; Mar. 22.
 Vehicle. Motor. M. W. McConkey and F. E. Jones. 1,638,354; Aug. 9.
 Vehicle. Motor. L. Melanowski. 1,647,974; Nov. 1.
 Vehicle. Motor. A. Moorhouse. 1,620,731; Mar. 15.
 Vehicle. Motor. A. Moorhouse. 1,645,342; Oct. 11.
 Vehicle. Motor. J. Riese. 1,635,838; July 2.
 Vehicle. Motor. E. F. Roberts. 1,614,992; Jan. 18.
 Vehicle. Motor. M. Tibbetts. 1,620,744; Mar. 15.
 Vehicle. Motor. W. M. Trout. 1,629,133; May 17.
 Vehicle. Motor. L. M. Woolson. 1,617,471; Feb. 15.
 Vehicle. Motor. L. M. Woolson. 1,635,873; July 12.
 Vehicle. Motor. W. Young. 1,642,221; Sept. 13.
 Vehicle motor cases, Fitting for draining lubricant from. L. S. Bessonett. 1,613,738; Jan. 11.
 Vehicle-operated gate. D. C. Funcheon. 1,617,680; Feb. 15.
 Vehicle parking apparatus, Unitary selective drive device for. V. P. Williams. 1,612,846; Jan. 4.
 Vehicle parking device, Combined mechanical and fluid pressure. V. P. Williams. 1,615,861; Feb. 1.
 Vehicle parking system. M. Miller. 1,619,330; Mar. 1.
 Vehicle, Passenger. H. A. Benedict. 1,629,904; May 24.
 Vehicle. Plastic-concrete-delivery. W. M. Walker. 1,641,913; Sept. 6.
 Vehicle power attachment, Motor. D. L. Wolf. 1,629,556; May 24.
 Vehicle power-driven. H. Zoelly. 1,627,303; May 3.
 Vehicle power wheels, Traction attachment for. J. A. Barrett. 1,642,713; Sept. 20.
 Vehicle propelling mechanism. V. D. White. 1,635,870; July 12.
 Vehicle props, Making. G. E. Wheeler and C. Oppel. 1,654,061; Dec. 27.
 Vehicle-raising apparatus. G. F. Meyers. 1,653,813; Dec. 27.
 Vehicle rim. J. Wallace. 1,621,614; Mar. 22.
 Vehicle road springs, Attachment of motor-. D. Robertson. 1,634,158; June 28.
 Vehicle runner, Retractable. D. De Wald. 1,627,151; May 3.
 Vehicle running gear. A. H. Fager. 1,620,809; Mar. 15.
 Vehicle seat, Convertible. G. D. Howith. 1,626,340; Apr. 26.
 Vehicle seat, Convertible. G. G. Johnston. 1,649,702; Nov. 15.
 Vehicle, Self-propelled. L. Salves. 1,639,536; Aug. 16.
 Vehicle shipping jack or bracket. I. L. Friedlaender. Re16,698; Aug. 9.
 Vehicle signal. B. Anderson. 1,632,689; June 14.
 Vehicle signal. D. F. Beauchamp. 1,626,131; Apr. 26.
 Vehicle signal. M. Borglum. 1,625,905; Apr. 5.
 Vehicle signal. A. Ekman. 1,638,296; Aug. 9.
 Vehicle signal. J. P. Fagan. 1,644,840; Oct. 4.
 Vehicle signal. E. Gonder. 1,640,496; Aug. 30.
 Vehicle signal. W. M. Hamersley. 1,644,236; Apr. 12.
 Vehicle signal. E. R. Linehan. 1,625,733; Apr. 19.
 Vehicle signal. A. E. Mould. 1,651,618; Dec. 6.
 Vehicle signal. N. H. Nelson. Des. 72,183; Mar. 8.
 Vehicle signal. E. W. Nitz. 1,635,898; July 12.
 Vehicle signal. A. D. Perttu. 1,619,311; Mar. 1.
 Vehicle signal. F. Romanowski. 1,635,439; July 12.
 Vehicle signal. H. R. Ruedesbach. 1,646,766; Oct. 25.
 Vehicle signal. S. Tolmach. 1,623,219; Apr. 5.
 Vehicle signal. H. B. Waters. 1,635,651; July 12.
 Vehicle signal. A. Wellert. 1,633,964; June 28.
 Vehicle signal device. N. W. Matthews. 1,637,702; Aug. 2.
 Vehicle signal, Motor-. S. L. Brafman. 1,634,014; June 28.
 Vehicle signaling device. C. A. Godshalk. 1,640,700; Apr. 30.
 Vehicle signaling system. M. Juhasz. 1,629,342; May 17.
 Vehicle signaling window. R. D. Parker. 1,620,166; Mar. 8.
 Vehicle signals, Circuit closer for. E. A. Offet. 1,628,801; May 17.
 Vehicle speed limit indicating and control means. L. R. Cordray. 1,634,069; June 28.
 Vehicle spring. A. P. Brush. 1,632,993; June 21.
 Vehicle spring. D. E. Duncan. 1,635,360; July 12.
 Vehicle spring. A. G. Geister. 1,613,700; Jan. 11.
 Vehicle spring. F. J. Laher. 1,640,778; Aug. 30.
 Vehicle spring. F. D. Parker. 1,641,008; Aug. 30.
 Vehicle spring. W. H. Wallace. 1,630,364; May 31.
 Vehicle spring. W. W. Wood. 1,626,896; May 3.
 Vehicle spring controller, Automatic. E. Davis. 1,631,087; May 31.
 Vehicle spring hanger. W. R. Gardner. 1,625,023; Apr. 19.
 Vehicle spring snubber. J. W. Barnes. 1,620,424; Mar. 8.
 Vehicle spring suspension. T. Franzen. 1,644,468; Oct. 4.
 Vehicle springs, Attachment for. T. S. Hamilton. 1,613,097; Jan. 4.
 Vehicle springs, Attachment for. T. S. Hamilton. 1,618,705; Feb. 22.
 Vehicle springs, Clips for. T. Purdie. 1,648,566; Nov. 8.
 Vehicle springs, End connection and shock absorber for. H. T. Ayres. 1,623,651; Apr. 5.
 Vehicle springs, End connection for. A. W. Kogstrom. 1,623,844-5; Apr. 5.
 Vehicle springs, Lubricating device for. W. K. Riley. 1,620,551; May 31.
 Vehicle springs, Lubrication of. F. G. Hirst. 1,635,413; July 12.
 Vehicle springs, Machine for making lubricating means for. R. White. 1,619,838; Mar. 8.
 Vehicle springs, Shock absorber for. J. T. Lenn. 1,630,125; May 24.
 Vehicle springs, Snubber attachment for. W. Blackmore. 1,628,386; May 10.
 Vehicle stay block. C. L. Michod. 1,628,854; May 17.
 Vehicle, Steering apparatus for. W. Gehrig. 1,647,404; Nov. 1.
 Vehicle, Streamline power. A. Persu. 1,648,505; Nov. 8.
 Vehicle structure. N. W. Storer and T. S. Scott. 1,621,035; Mar. 15.
 Vehicle superstructures, Automatic control for. F. Hetzelberger. 1,637,191; July 26.
 Vehicle supporting and turning device, Adjustable. V. P. Williams. 1,615,860; Feb. 1.
 Vehicle suspension. B. F. Seymour. 1,643,681; Sept. 27.
 Vehicle suspension device. T. J. Fay. 1,648,170; Nov. 8.
 Vehicle suspension, Shock-eliminating. K. F. Semon. 1,651,475; Dec. 6.
 Vehicle suspension spring. C. S. Woelfl. 1,654,202; Dec. 27.
 Vehicle, Tank-equipped. R. R. Weaver. 1,621,182; Mar. 15.
 Vehicle top. M. J. Forrester. 1,630,739; May 31.
 Vehicle top. J. T. Hamilton. 1,613,273; Jan. 4.
 Vehicle top. C. A. Rothhouse. 1,629,588; May 24.
 Vehicle top, Collapsible. H. G. Miller. 1,625,551; Apr. 26.
 Vehicle top construction. L. Laven. 1,645,438; Oct. 11.
 Vehicle top construction. M. M. Plumb. 1,619,153; Mar. 1.
 Vehicle, Trackless. H. A. Knox. 1,629,079; May 17.
 Vehicle trailer connection, Motor-. A. Feigelson. 1,636,814; July 26.
 Vehicle transmission. M. Braen. 1,612,799; Jan. 4.
 Vehicle transmission, Electric. H. K. Whitehorn. 1,635,598; July 12.
 Vehicle transmission, Motor-. H. D. Church. 1,652,699; Dec. 13.
 Vehicle turning signal. P. A. Warner. 1,650,251; Nov. 22.
 Vehicle turntable. P. J. Lunati. 1,644,785; Oct. 11.
 Vehicle, Two-wheeled. E. Prochaska. 1,615,403; Jan. 25.
 Vehicle underbody construction. E. A. Wetzel. 1,624,903; Apr. 12.
 Vehicle ventilator. J. T. Flite. 1,644,186; Oct. 4.
 Vehicle ventilator. W. Linter. 1,623,738; Apr. 5.
 Vehicle washing pit. J. P. Nicholson. 1,633,280; June 21.
 Vehicle, Water. J. Zlich. 1,646,178; Oct. 18.
 Vehicle wheel. C. B. Allen. 1,632,427; June 14.
 Vehicle wheel. O. de Araujo. 1,638,621; Aug. 9.
 Vehicle wheel. H. N. Atwood. 1,632,511; Dec. 13.
 Vehicle wheel. H. N. Atwood. 1,653,331; Dec. 20.
 Vehicle wheel. F. W. Baker. 1,619,802; Mar. 8.
 Vehicle wheel. E. K. Baker. 1,627,369; May 3.
 Vehicle wheel. H. A. Benedict and E. M. Moller. 1,629,903; May 24.
 Vehicle wheel. W. N. Booth. 1,625,879; Apr. 26.
 Vehicle wheel. W. H. Burritt. 1,623,162; Apr. 5.
 Vehicle wheel. C. W. Clark. 1,628,578; May 10.
 Vehicle wheel. C. J. Dalton. 1,641,663; Sept. 6.
 Vehicle wheel. E. Donaghy. 1,638,622; Aug. 9.
 Vehicle wheel. G. E. Dudley. 1,653,348; Dec. 20.
 Vehicle wheel. C. R. Fairweather. 1,619,607; Mar. 1.
 Vehicle wheel. E. Ferrabino. 1,651,511; Dec. 6.
 Vehicle wheel. E. Freund. 1,654,367; Dec. 27.
 Vehicle wheel. C. S. Johnson. 1,621,932; Mar. 22.

- Vehicle wheel. E. W. Kemoe and W. G. Price. 1,650,452; Nov. 22.
- Vehicle wheel. E. Landon. 1,622,593; Mar. 29.
- Vehicle wheel. A. A. D. Lang. 1,639,570; Aug. 16.
- Vehicle wheel. J. McGinnies. 1,638,741; Aug. 9.
- Vehicle wheel. A. J. Michellin. 1,635,894-5; July 12.
- Vehicle wheel. A. J. Michellin. 1,639,573; Aug. 16.
- Vehicle wheel. E. A. Nelson. 1,646,867; Oct. 25.
- Vehicle wheel. H. Nichols. 1,645,895-6; Oct. 11.
- Vehicle wheel. J. W. Pepple. 1,616,695; Feb. 8.
- Vehicle wheel. W. G. Price. 1,653,372; Dec. 20.
- Vehicle wheel. A. L. Putnam. Des. 74,023-4; Dec. 6.
- Vehicle wheel. F. W. Rauter. 1,627,406; May 3.
- Vehicle wheel. G. B. Riblet. Re16,766; Oct. 11.
- Vehicle wheel. R. Riehl. 1,633,906; June 28.
- Vehicle wheel. C. F. Rabsam. 1,622,848; Mar. 29.
- Vehicle wheel. J. H. Wagenhorst. 1,628,628; May 10.
- Vehicle wheel. J. H. Wagenhorst. 1,630,876; May 31.
- Vehicle wheel. C. C. Wais. 1,646,508; Oct. 25.
- Vehicle wheel. P. A. White. 1,637,504; Aug. 2.
- Vehicle wheel. B. Wilkinson. 1,624,646; Apr. 12.
- Vehicle wheel. J. B. Winter. 1,640,523; Aug. 30.
- Vehicle wheel. E. C. Winters. 1,632,527; June 14.
- Vehicle wheel, Cast-metal. A. Meldrum. 1,635,490; July 12.
- Vehicle wheel construction. L. Fine. 1,622,310; Mar. 29.
- Vehicle wheel, Disk. A. Campos, and F. H. Becerra. 1,654,034; Dec. 27.
- Vehicle wheel-grip member. C. H. Gunthorpe, sr. 1,629,786; May 24.
- Vehicle wheel jack. H. J. Hoff and G. B. Bush. 1,624,243; Apr. 12.
- Vehicle wheel, Metal. W. M. Trout and C. B. Des Jardins. 1,627,717; May 10.
- Vehicle wheel, Metal. W. M. Trout and C. B. Des Jardins. 1,646,889; Oct. 25.
- Vehicle wheel, Resilient. R. M. Cravens. 1,650,609-11; Nov. 29.
- Vehicle wheel, Resilient. P. A. Dunkel. 1,638,801; Aug. 9.
- Vehicle wheel, Resilient. W. Kroll. 1,644,925; Oct. 11.
- Vehicle wheel, Steel. A. R. Jayne. 1,637,256; July 26.
- Vehicle wheels, Antiskidding device for. C. Reger. 1,653,781; Dec. 27.
- Vehicle wheels, Rim fastener for. A. L. Putnam. 1,639,108; Aug. 16.
- Vehicle wheels, Traction device for. L. Guerrini. 1,620,460; Mar. 8.
- Vehicle wheels, Valve-stem arrangement for. J. H. Hunt. 1,648,693; Oct. 25.
- Vehicle wind wing. A. Wessel. 1,625,875; Apr. 26.
- Vehicle with independent wheels. M. Sizaire. 1,650,544; Nov. 22.
- Vehicles, Adjustable awning frame for motor. L. S. Williamson and B. A. De Bord. 1,638,901; Aug. 16.
- Vehicles, Adjustable seat for. G. Tasman. 1,618,246; Jan. 25.
- Vehicles, Adjustable wind and storm shield for. D. E. Vanderveer. Re16,557; Feb. 22.
- Vehicles, Air brake for motor. D. G. Duty. 1,629,997; May 24.
- Vehicles and making the same, Wheels for. J. Gair. 1,617,152; Feb. 8.
- Vehicles and the like, Antiglare shield for motor. W. C. Darby. 1,621,972; Mar. 22.
- Vehicles and the like, Spoked metal wheel for motor. E. H. Coquille. 1,625,986; Apr. 26.
- Vehicles and the like, Top for. S. J. Leach. 1,642,117; Sept. 13.
- Vehicles and the like, Top for. F. K. Lewis and C. R. Allen. 1,628,892; May 17.
- Vehicles and the like, Window-glass guide for. C. T. Weymann. 1,619,047; Mar. 1.
- Vehicles, Antiglare attachment for motor. J. E. Herman. 1,648,230; Nov. 8.
- Vehicles, Antiskid device for. C. Silverthorn. 1,621,138; Mar. 15.
- Vehicles, Apparatus for testing motor. W. Frost. 1,650,504; Nov. 22.
- Vehicles, Apparatus for washing. F. D. Mahoney. 1,636,190; July 19.
- Vehicles, Ash-removing attachment for motor. E. Sprangler. 1,612,951; Jan. 4.
- Vehicles, Attachment for. J. H. Clark. 1,630,525; May 31.
- Vehicles, Attachment for motor. T. J. Schuetz. 1,645,162; Oct. 11.
- Vehicles, Automatic brake for. B. W. Twyman and R. B. Burton. 1,631,902; June 7.
- Vehicles, Automatic control for motor. G. M. Howell. 1,623,921; Apr. 5.
- Vehicles, Automatic control for the ignition circuit of a motor-propelled. R. E. Lauck. 1,613,112; Jan. 4.
- Vehicles, Automatically-operated end gate for dump. H. D. Gabriel. 1,619,504; Mar. 1.
- Vehicles, Awning for motor. A. H. Watson. 1,634,860; July 5.
- Vehicles, Axle connection for. L. B. Neighbour. 1,625,139; Apr. 19.
- Vehicles, Battery connection for motor. L. Martin. 1,648,617; Nov. 8.
- Vehicles, Body suspension for motor. W. B. Jupp and G. O. Hanshaw. 1,634,946; July 5.
- Vehicles, Box for transporting motor. I. L. Friedlaender. 1,614,724; Jan. 18.
- Vehicles, Brake-applying mechanism for motor. H. V. Ludwick. 1,620,265; Mar. 8.
- Vehicles, Brake for. N. Kuchen. 1,625,777; Apr. 19.
- Vehicles, Brake for motor. S. Giovannini. 1,614,119; Jan. 11.
- Vehicles, Brake mechanism for. E. D. Brown. 1,645,125; Oct. 11.
- Vehicles, Brake mechanism for. N. A. Christensen. 1,644,635; Oct. 4.
- Vehicles, Brake mechanism for. F. W. Piché. 1,625,151; Apr. 19.
- Vehicles, Brake mechanism for automotive. C. S. Bragg and V. W. Kliersath. 1,648,291; Nov. 8.
- Vehicles, Brake mechanism for automotive. C. S. Bragg and V. W. Kliersath. 1,650,487-8; Nov. 22.
- Vehicles, Brake mechanism for motor. O. E. Hunt. 1,644,726; Oct. 11.
- Vehicles, Brake slack adjuster for. J. Mitchell and J. C. G. Cossey. 1,624,752; Apr. 12.
- Vehicles, Braking device for. E. M. Ballot. 1,640,919; Aug. 30.
- Vehicles, Braking engine-driven. L. G. Hoxton. 1,620,100; Mar. 8.
- Vehicles, Braking mechanism for motor. T. J. Schuetz. 1,642,898; Sept. 20.
- Vehicles, Braking motor. M. D. Beach. 1,624,525; Dec. 12.
- Vehicles, Braking motor. M. D. Beach. 1,624,574; Apr. 12.
- Vehicles, Braking motor. H. F. Scruby. 1,618,607; Feb. 22.
- Vehicles, Braking of motor and other. P. Hallot. 1,637,186; July 28.
- Vehicles, Braking of the steering wheels of. H. Perrot. 1,642,084; Sept. 13.
- Vehicles, Buffer for motor. F. Hanel. 1,640,320; Aug. 23.
- Vehicles, Bumper for motor. W. A. and T. H. Guenther. 1,622,542; Mar. 29.
- Vehicles, Bumper structure for. H. W. Tinker. 1,614,503; Jan. 18.
- Vehicles, Cab for motor. P. Carlson. 1,641,115; Aug. 30.
- Vehicles, Cab for motor. P. Carlson. 1,641,117; Aug. 30.
- Vehicles, Change-speed driving gear for motor. C. H. Catton. 1,624,069; Dec. 27.
- Vehicles, Chassis framing more particularly for motor. J. Fejes. 1,619,609; Mar. 1.
- Vehicles, Circuit closer for motor. D. O. Schuster and H. H. Gerke. 1,641,099; Aug. 30.
- Vehicles, Coach-work column of. G. Gangloff. 1,629,157; Mar. 17.
- Vehicles, Collision shield for. W. W. Marsh. 1,624,418; Apr. 12.
- Vehicles, Combination rear light for. C. E. Godley. 1,631,678; June 7.
- Vehicles, Combined bumper and brush attachment for. T. O'Brien. 1,638,641; Aug. 9.
- Vehicles, Combined engine stop motion, visual alarm, and condenser for motor-driven. A. Antunes. 1,633,156; June 21.
- Vehicles, Combined radiator and hood for motor. A. F. Massey. Des. 72,104; Mar. 1.
- Vehicles, Compressed-air brake apparatus for motor. H. Sauveur and T. Kollinek. 1,653,785; Dec. 27.
- Vehicles, Connecting rod for the suspension of. G. H. E. De Ram. 1,647,438; Nov. 1.
- Vehicles, Controlling device for motor. J. H. Pace. 1,641,779; Sept. 6.
- Vehicles, Convertible seat for. F. L. Girard. 1,652,124; Dec. 6.
- Vehicles, Convertible seat for motor. T. G. Johnson. 1,632,233; June 14.
- Vehicles, Cooling system for motor. C. M. Anderson. 1,623,902; Apr. 5.
- Vehicles, Coupling for. T. Franks. 1,627,430; May 3.
- Vehicles, Cow ventilator for motor. L. K. Snell. 1,638,599; Aug. 9.
- Vehicles, Detachable power unit for. E. G. Griese. 1,648,875; Nov. 8.
- Vehicles, Device for preventing abnormal flexure of the springs of motor. G. Fornaca. 1,620,093; Mar. 8.
- Vehicles, Device for preventing retrograde movement of motor. J. L. Gonard. 1,651,270; Nov. 29.
- Vehicles, Differential drive for. M. H. Wolff. 1,638,228; Aug. 9.
- Vehicles, Differential gear for motor. H. Föttinger. 1,646,020; Oct. 18.
- Vehicles, Direction-indicating and warning device for motor road. H. A. Widmer. 1,641,720; Sept. 6.
- Vehicles, Direction-indicating device especially for. A. Maršik. 1,623,880; Apr. 5.
- Vehicles, Direction-indicator attachment to motor. M. and J. Scott. 1,618,849; Feb. 22.
- Vehicles, Direction indicator for motor. H. Leach. 1,648,353; Nov. 8.
- Vehicles, Direction-signal device for. J. G. Frieman and W. A. Rankin. 1,615,791; Jan. 25.
- Vehicles, Direction signal for motor. F. F. Gentsch. 1,637,744; Aug. 2.
- Vehicles, Direction signal for motor. J. McEntee. 1,635,427; July 12.
- Vehicles, Direction signal for motor. C. B. Mitchell. 1,620,379; Mar. 8.

- Vehicles, Disappearing step for. W. C. Goss. 1,616,793; Feb. 8.
- Vehicles, Disappearing window for. A. A. Towers. 1,636,394; July 19.
- Vehicles, Disk wheel for. A. Campos and P. H. Becerra. 1,664,035; Dec. 27.
- Vehicles, Draft attachment for. T. Torkelson. Re1,6756; Oct. 4.
- Vehicles, Drive for. C. Froesch. 1,616,617; Feb. 8.
- Vehicles, Drive for automotive. C. G. Adsit. 1,652,083; Dec. 6.
- Vehicles, Drive mechanism for. H. A. Miller. 1,649,361; Nov. 15.
- Vehicles, Driving mechanism for track-laying. J. H. Mosel. 1,646,552; Oct. 25.
- Vehicles, Drive of three-axled motor. H. Blumer. 1,635,657; July 12.
- Vehicles, Driver's compartment for. R. F. Blair and G. Hind. 1,631,357; June 7.
- Vehicles, Driving mechanism for motor. L. W. Davis. 1,633,316; June 21.
- Vehicles, Dumping mechanism for. J. M. Howe. 1,640,358; Aug. 30.
- Vehicles, Dust-preventing device for rear platforms of. C. H. Dickey. 1,621,356; Mar. 15.
- Vehicles, Elastic axle for motor. E. Bugatti. 1,620,323; Mar. 15.
- Vehicles, Elastic-support system for. F. L. O. Wadsworth. 1,624,643; Apr. 12.
- Vehicles, Elastic suspension system for. F. L. O. Wadsworth. 1,622,892; Mar. 29.
- Vehicles, Electric burglar alarm for motor. L. Haddow. 1,640,803; Aug. 30.
- Vehicles, Electric-lighting apparatus for motor. H. C. Procter. 1,623,700; Apr. 5.
- Vehicles, Electric signal for. R. T. Bain. 1,614,706; Jan. 18.
- Vehicles, Electric speed control for motor. H. L. Mason. 1,627,985; May 10.
- Vehicles, Electrical system for automotive. C. F. Ketterling and J. H. Hunt. 1,622,154; Mar. 22.
- Vehicles, Electrical system for motor. C. F. Ketterling and J. H. Hunt. 1,622,153; Mar. 22.
- Vehicles, Emergency door apparatus for. R. D. Conklin. 1,627,728; May 10.
- Vehicles, Emergency valve-control system for tank. J. Jensen. 1,626,283; Apr. 26.
- Vehicles, Endless supporting and driving flexible belt for motor and other. A. Kregesse. 1,627,287; May 3.
- Vehicles, Equalizing brake for. S. K. Wellman and G. R. Pennington. 1,639,320; Aug. 16.
- Vehicles, False roof for motor. J. W. Harvey. 1,621,404; Mar. 15.
- Vehicles, Final drive for. G. Wirrer. 1,631,996; June 14.
- Vehicles, Fire-extinguishing apparatus for motor. W. S. Josephson. 1,616,974; Feb. 8.
- Vehicles, Fluid-pressure brake for power-driven road. F. Porsche. 1,645,400; Oct. 11.
- Vehicles, Folding top for. J. H. Teachout. 1,627,716; May 10.
- Vehicles, Foot rest for motor. A. Meyer. 1,613,237; Jan. 4.
- Vehicles, Four-wheel truck for motor. E. S. Crocker. 1,615,360; Jan. 25.
- Vehicles, Frame for. A. F. Masury and E. R. Gurney. 1,633,649; Aug. 16.
- Vehicles, Fuel-fed system for motor. R. F. Bracke. 1,619,809; Mar. 8.
- Vehicles, Fuel-reserve supply systems for motor. F. Jerdone, Jr. 1,628,150; May 10.
- Vehicles, Gear shift for motor. A. P. Tredway. 1,645,464; Oct. 11.
- Vehicles, Gear-shifting mechanism for. F. J. Straub and J. T. Weinzierl. 1,650,396-7; Nov. 22.
- Vehicles, Glareshield for motor. V. M. Allen. 1,617,981; Feb. 15.
- Vehicles, Guard and safety device for motor-driven. K. Spillner. 1,649,930; Nov. 22.
- Vehicles, Handhold for. W. H. Hampson. 1,646,647; Oct. 25.
- Vehicles, Heating apparatus for. E. P. Chase. 1,631,469; June 7.
- Vehicles, Hinge for motor. A. L. Knapp. 1,613,279; Jan. 4.
- Vehicles, Hold-down device for. W. W. Blakely. 1,643,802; Sept. 27.
- Vehicles, Housing support for motor. J. G. Utz. 1,613,683; Jan. 11.
- Vehicles, Human-power driving mechanism for. H. R. Pillinger. 1,650,387; Nov. 22.
- Vehicles, Hydraulic brake for motor. G. Fornaca. 1,650,338; Nov. 22.
- Vehicles, Hydraulic brake system for motor. F. C. Pearson. 1,635,221; July 12.
- Vehicles, Hydraulic drive for. H. Daubenmeyer. 1,642,103; Sept. 13.
- Vehicles, Hydraulic shock absorber for motor. W. P. Moore. 1,635,777; Aug. 9.
- Vehicles, Illuminating device for. J. H. Tudor. 1,630,986; May 31.
- Vehicles, Lifeguard or obstruction remover for motor propelled and similar. E. L. Grafham. 1,622,868; Mar. 29.
- Vehicles, Lifting device for. F. G. Brochu. 1,650,182; Nov. 22.
- Vehicles, Light mechanism for. R. W. Berry and G. W. Bird. 1,621,920; Mar. 22.
- Vehicles, Lighting magneto for. F. Bovard. 1,624,775; Apr. 12.
- Vehicles, Liquid-fuel consumption and distance indicator of or register for motor. J. Higginson. 1,652,896; Dec. 13.
- Vehicles, Load indicator for motor. F. J. Troll. 1,621,093; Mar. 15.
- Vehicles, Loading and unloading device for. P. Ducondou. 1,630,473; May 31.
- Vehicles, Locking device for motor. O. Albanese. 1,613,637; Jan. 11.
- Vehicles, Locking device for motor. J. E. McLeod. 1,645,914; Oct. 18.
- Vehicles, Low-fuel alarm for motor. D. B. Williams. 1,654,443; Dec. 27.
- Vehicles, Luggage carrier for motor road. F. D. Williams. 1,648,094; Nov. 8.
- Vehicles, Moving rear-axle housings for motor. E. C. Mogford and F. W. Burger. 1,652,630; Dec. 13.
- Vehicles, Method of and device for preventing the skidding of self-propelled road. I. L. Rosenthal. 1,625,746; Apr. 19.
- Vehicles, Motor suspension for electrically-driven. H. P. Reilly. 1,651,153; Nov. 29.
- Vehicles, Movement of. M. Osthoff. 1,643,310; Oct. 18.
- Vehicles, Mud guard for. A. Kloss. 1,631,420; June 7.
- Vehicles, Multiwheel drive for. A. F. Masury and C. Froesch. 1,631,975; June 14.
- Vehicles, Multiwheel propelling mechanism for motor. J. M. Thorp. 1,643,476; Sept. 27.
- Vehicles, Observation apparatus for. F. A. Voigt. 1,644,902; Oct. 11.
- Vehicles, Operating auxiliary apparatus on motor driven. P. O. Dorer. 1,621,769; Mar. 22.
- Vehicles, Parking device for motor. J. Myers. 1,622,802; Mar. 29.
- Vehicles, Pneumatic steering device for. B. J. Martin. 1,627,568; May 10.
- Vehicles, Power-appliance attachment for automotive. J. A. and P. H. Davey and C. L. Gaugler. 1,636,292; July 19.
- Vehicles, Power-propelled runner attachment for motor. G. B. Anderson. 1,631,114; June 7.
- Vehicles, Power-take-up mechanism for motor. R. F. Crawford. 1,633,847; June 28.
- Vehicles, Power transmission for. J. H. Schurch. 1,627,712; May 10.
- Vehicles, Power-transmission mechanism for motor. G. M. Stone. 1,631,837; June 7.
- Vehicles, Power-transmitting device for motor. J. S. Brown. 1,615,913; Jan. 25.
- Vehicles, Propelling wheeled. J. Temperly. 1,631,900; June 7.
- Vehicles provided with two motors, Transmission device for. P. Donon. 1,641,253; Sept. 6.
- Vehicles, Removable closure for. I. P. Ferguson. 1,637,812; Aug. 2.
- Vehicles, Resilient axle mount for motor. H. Ledwinka. 1,642,817; Sept. 20.
- Vehicles, Resilient wheel for. J. F. P. Coste. 1,640,349; Aug. 30.
- Vehicles, Retaining the dumping elements of. J. S. Briere. 1,631,018; May 31.
- Vehicles, Reverse-signal-circuit closer for motor. J. A. Briere. 1,644,008; Oct. 4.
- Vehicles, Running-board luggage carrier for. W. Klamroth. 1,623,794; Apr. 5.
- Vehicles, Running-gear structure for. F. M. Reid. 1,640,217; Aug. 23.
- Vehicles, Safety apparatus for. J. E. Jufe. 1,640,336; Aug. 23.
- Vehicles, Safety appliance for motor. F. M. Blake. 1,654,450; Dec. 27.
- Vehicles, Safety device for. W. W. Tew. 1,637,133; July 26.
- Vehicles, Sanding device for power. E. Hese. 1,625,362; Apr. 19.
- Vehicles, Seat for. F. Kohlberger. 1,653,216; Dec. 20.
- Vehicles, Securing device for. W. W. Blakely. 1,617,368; Feb. 15.
- Vehicles, Self-supporting carriage body for motor-driven. A. Orthon. 1,634,435; July 5.
- Vehicles, Self-thawing radiator for motor. C. E. Taylor. 1,630,872; May 31.
- Vehicles, Shifting jack for motor. A. Schnitzler. 1,626,630; May 3.
- Vehicles, ships, boats, flying machines, and the like, Jet propulsion apparatus for the driving of. S. Valdes. 1,629,707; May 24.
- Vehicles, Shock absorber for spring. W. G. Cox. 1,634,095; June 28.
- Vehicles, Shock absorber for suspended. A. Roelands. 1,615,653; Jan. 25.
- Vehicles, Shock-absorbing device for. M. C. E. Mulot. 1,629,504; Feb. 8.
- Vehicles, Shock-absorbing means for. A. J. Cormier. 1,639,369; Aug. 16.
- Vehicles, Shock-absorbing snubbing device for. J. A. Moore. 1,615,993; Feb. 1.
- Vehicles, Shock-preventing device for. E. Cantono. 1,629,378; May 17.
- Vehicles, Short-arm device for motor. W. E. Mitchell. 1,632,665; June 14.

- Vehicles, Side windshield for. C. A. Sayers. 1,632,564; June 14.
 Vehicles, Signal device for. S. G. Lippert. 1,635,372; July 12.
 Vehicles, Signal device for. S. G. Richards. 1,641,504; Sept. 6.
 Vehicles, Signal device for motor. H. Legendre. 1,632,973; June 21.
 Vehicles, Signal for. E. Bednarz. 1,623,903; Apr. 5.
 Vehicles, Signal for road. T. E. Daughtery. 1,617,671; Feb. 15.
 Vehicles, Signaling apparatus for motor. S. A. Hoge. 1,633,252; June 21.
 Vehicles, Signaling-mechanism circuit closer for. E. C. Miller. 1,632,449; Dec. 13.
 Vehicles, Snubber for. G. C. Pearson. 1,627,113; May 3.
 Vehicles, Speed-changing mechanism for motor. E. G. Kesling. 1,635,484; July 12.
 Vehicles, Speed-controlling device for motor-driven. F. O. Gray. 1,640,149; Aug. 23.
 Vehicles, Spring hanger for. J. A. Mullins. 1,615,340; Jan. 25.
 Vehicles, Spring-shackle construction for. R. M. Lovejoy. 1,614,480; Jan. 18.
 Vehicles, Spring suspension for. W. S. Austin. 1,646,180; Oct. 18.
 Vehicles, Spring suspension for. C. L. Bardin. 1,644,224; Oct. 4.
 Vehicles, Spring suspension for. D. Brown. 1,641,472; Sept. 6.
 Vehicles, Spring suspension for. W. Hesslink. 1,629,868; May 24.
 Vehicles, Spring suspension for. H. W. Hyde. 1,643,811; Sept. 27.
 Vehicles, Spring suspension for. A. H. Leipert. 1,646,755; Oct. 25.
 Vehicles, Spring suspension for. R. M. Lovejoy. 1,647,009; Oct. 23.
 Vehicles, Spring suspension for. R. M. Lovejoy. 1,649,835; Nov. 22.
 Vehicles, Spring suspension for. F. L. O. Wadsworth. 1,622,552; Mar. 29.
 Vehicles, Spring suspension for. F. L. O. Wadsworth. 1,623,986; Apr. 12.
 Vehicles, Spring suspension of. F. S. Farnsworth. 1,633,933; June 28.
 Vehicles, Spring suspension system for motor. F. L. O. Wadsworth. 1,622,891; Mar. 29.
 Vehicles, Spring wheel for road. G. C. Green. 1,630,937; May 31.
 Vehicles, Stake pocket for. T. D. Kennedy. 1,645,196; Oct. 11.
 Vehicles, Stationary hub for. I. L. Kalatzky. 1,644,339; Oct. 4.
 Vehicles, Steering attachment for. J. A. Felton. 1,625,886; Apr. 26.
 Vehicles, Steering by driving means for. J. Loyd. 1,623,929; Apr. 5.
 Vehicles, Steering device for. G. Carrington. 1,614,279; Jan. 11.
 Vehicles, Steering device for motor. C. Schaeffer. 1,638,750; Aug. 9.
 Vehicles, Steering mechanism for. O. F. Warhus. 1,622,460; June 14.
 Vehicles, Steering mechanism for automotive. C. S. Bragg and V. W. Klesrath. 1,639,284; Aug. 16.
 Vehicles, Steering mechanism for road. F. W. Lancaster. 1,621,169; Mar. 15.
 Vehicles, Suction-operated circuit closer for motor. P. Schindler. 1,620,493; Mar. 8.
 Vehicles, Superstructure for. E. D. Brainard. 1,614,598; Jan. 18.
 Vehicles, Suspension for. E. M. Ballot. 1,654,447; Dec. 27.
 Vehicles, Suspension for. J. W. Myers. 1,641,640; Sept. 6.
 Vehicles, Telescopic side inclosure for. M. Racz. 1,646,794; Oct. 25.
 Vehicles, Tongue support for. M. B. Ewald. 1,654,072; Dec. 27.
 Vehicles, Torque-absorbing spring construction for. R. M. Lovejoy. 1,623,422; Apr. 5.
 Vehicles, Traction device for motor. C. H. Hyatt. 1,625,028; Apr. 10.
 Vehicles, Traction driving means for. H. E. Pearson. 1,637,533; Aug. 2.
 Vehicles, Traffic signal for motor. C. B. Ferro. 1,644,424; Oct. 4.
 Vehicles, Traffic signal for motor. R. C. Luplow. 1,619,523; Mar. 1.
 Vehicles, Transmission lock for motor. E. A. De Waters. 1,619,972; Mar. 8.
 Vehicles, Transmission mechanism for motor. E. L. Harry. 1,623,725; Apr. 5.
 Vehicles, Trouble light for motor. J. Karasevich. 1,645,953; Oct. 18.
 Vehicles, Turning signal for road. A. Roberts. 1,624,081; Apr. 19.
 Vehicles, Vacuum tank for motor. T. Bossard. 1,639,254; Aug. 16.
 Vehicles, Variable-speed gear for motor. J. Bethune. 1,634,091; June 28.
 Vehicles, Ventilating and heating system for motor. D. K. Swartwout. 1,622,359; Mar. 29.
 Vehicles, Vision shield for. F. L. Phillips. 1,649,418; Nov. 15.
 Vehicles, Weatherproof antitheft attachment for motor. L. W. Wolfson. 1,629,080; May 17.
 Vehicles, Weather shield and glare visor for. W. C. Grunow. 1,615,080; Jan. 18.
 Vehicles, Wheel brake for. J. V. Pugh. 1,648,821; Nov. 8.
 Vehicles, Wheel brake for. J. V. Pugh. 1,648,864; Nov. 8.
 Vehicles, Wheel construction for motor. W. H. Rapeport. 1,637,160; July 26.
 Vehicles, Wheel for. F. W. Brown. 1,623,656; Apr. 5.
 Vehicles, Wheel for road. C. Green. 1,617,210; Feb. 8.
 Vehicles, Wheel mount for motor. A. W. Herrington. 1,618,431; Feb. 22.
 Vehicles, Wind deflector for motor. F. S. Herris. 1,616,122; Feb. 1.
 Vehicles, Window for motor. H. Austin. 1,626,129; Apr. 26.
 Vehicles, Yielding barrier for. J. B. Strauss. 1,652,186; Dec. 13.
 Vehicles, Yielding barrier for stopping. E. D. Sawyer. 1,653,670; Dec. 27.
 Vehicular leaf spring. A. P. Koebeke. 1,622,727; Mar. 29.
 Veins, Apparatus for the treatment of varicose. S. Lake. 1,629,108; May 17.
 Velocimeter. W. C. Palmer. 1,620,224; Mar. 8.
 Velocipede. P. Kuhnle. 1,625,214; Apr. 19.
 Velocipede. G. N. Madsen. 1,652,284; Dec. 13.
 Velocipede. W. W. and W. V. Morrill. 1,632,092; June 14.
 Velocipede. I. Nettles. 1,638,781; Aug. 9.
 Velocipede brake. J. A. Bried. 1,635,109; July 5.
 Vending and change-making machine, Coin-controlled. C. W. Nixon. 1,634,679; July 5.
 Vending and display case. O. N. Hicks. 1,614,363; Jan. 11.
 Vending apparatus. R. G. Clark. 1,652,816; Dec. 13.
 Vending apparatus. H. B. Cooley. 1,627,837; May 10.
 Vending apparatus. O. F. Roberts. 1,615,885; Feb. 1.
 Vending apparatus. S. W. Wilkinson. 1,651,857-8; Jan. 11.
 Vending apparatus, Coin-controlled. C. H. Bookout. 1,616,251; Feb. 1.
 Vending apparatus for liquids. R. R. Robinson. 1,628,194; May 10.
 Vending apparatus, Mixed-beverage-. W. C. De Armond and W. R. H. Watt. 1,637,508; Aug. 2.
 Vending bottled beverages, Machine for. R. B. Wingate. 1,638,792; Aug. 9.
 Vending device, Liquid-. F. I. du Pont. 1,638,189; Aug. 9.
 Vending machine. A. D. Antoine and A. E. Gebert. 1,627,547; May 10.
 Vending machine. P. Boals. 1,649,658; Nov. 15.
 Vending machine. H. W. Dart. 1,640,396; Aug. 30.
 Vending machine. W. F. Donathan. 1,619,245; Mar. 1.
 Vending machine. W. F. Donathan. 1,619,248; Mar. 1.
 Vending machine. A. H. Du Grenier. 1,648,476; Nov. 8.
 Vending machine. W. Heddlund. 1,645,236; Oct. 11.
 Vending machine. C. A. Johnson. 1,648,812; Nov. 8.
 Vending machine. J. B. Johnson. 1,641,539; Sept. 6.
 Vending machine. O. N. Kelly. 1,629,824; May 24.
 Vending machine. O. N. Kelly. 1,630,949; May 31.
 Vending machine. O. N. Kelly. 1,648,734; Nov. 8.
 Vending machine. O. N. Kelly. 1,648,813; Nov. 8.
 Vending machine. V. H. Kelley. 1,644,134; Oct. 4.
 Vending machine. R. Kessler. 1,634,581; July 5.
 Vending machine. L. V. Kuhn and F. H. Vogel. 1,651,605-6; Dec. 6.
 Vending machine. L. E. La Croix. 1,633,215; June 21.
 Vending machine. D. Lazar. 1,618,450; Feb. 22.
 Vending machine. W. L. Linton. 1,624,263; Apr. 12.
 Vending machine. M. Margulith. 1,630,195; May 24.
 Vending machine. G. Marsden. 1,617,341; Feb. 15.
 Vending machine. M. L. Meletio. 1,634,911; July 5.
 Vending machine. E. Morell. 1,641,880; Sept. 6.
 Vending machine. L. H. Morin. 1,652,540; Dec. 13.
 Vending machine. W. H. Murphy. 1,613,244; Jan. 4.
 Vending machine. C. W. Nixon. 1,634,380; July 5.
 Vending machine. J. E. Olvis. 1,631,547; June 7.
 Vending machine. D. Oxarist. 1,640,851; Aug. 30.
 Vending machine. C. E. Parker. 1,620,914; Mar. 15.
 Vending machine. C. J. Paulson. 1,617,496; Feb. 15.
 Vending machine. G. N. Polling and H. L. Dillon. 1,619,365; Nov. 15.
 Vending machine. F. Ruoff. 1,626,429; Apr. 26.
 Vending machine. D. H. Stewart and G. W. Nelson. 1,621,960; Mar. 22.
 Vending machine. A. R. Varble. 1,653,679; Dec. 27.
 Vending machine. J. B. Watling. 1,626,595; May 3.
 Vending machine. J. B. Watling. 1,642,134; Sept. 13.
 Vending machine. J. Zsoldos. 1,635,451-2; July 12.
 Vending machine and game, Combined. F. L. Mills. 1,650,026; Nov. 22.
 Vending machine, Automatic. J. Paupa. 1,643,316; Sept. 27.
 Vending machine, Automatic gasoline-. E. T. Hess. 1,633,327; June 21.
 Vending-machine case. C. F. Kurtz. Des. 73,528; Sept. 27.
 Vending-machine casing. F. L. Mills. Des. 73,753; Nov. 1.

- Vending-machine casing. C. E. Parker. Des. 73,621; Oct. 11.
- Vending-machine casing. M. Perclabosco. Des. 73,622; Oct. 11.
- Vending machine, Central-discharge selective. W. C. Cutler. 1,653,347; Dec. 20.
- Vending machine, Coin carrier for multiple. W. C. Cutler. 1,634,535; July 5.
- Vending machine, Coin-controlled. W. F. Donathan. 1,619,246; Mar. 1.
- Vending machine, Coin-controlled. U. G. Grandbois. 1,645,068; Sept. 20.
- Vending machine, Coin-controlled. D. Lazar. 1,652,021; Dec. 6.
- Vending machine, Coin-controlled. C. Nadworney. 1,625,138; Apr. 19.
- Vending machine, Coin-controlled. H. W. Ramsey. 1,617,689; Feb. 15.
- Vending machine, Coin-controlled. R. Vaughan. 1,619,006; Mar. 1.
- Vending machine, Coin-controlled liquid. J. Zsoldos. 1,639,679; Aug. 23.
- Vending machine, Coin-operated. A. A. Fagen. 1,621,244; Mar. 15.
- Vending machine, Coin-operated. E. Schultz. 1,638,413; Aug. 9.
- Vending machine, Eskimo-pie. A. Probst. 1,627,865; May 10.
- Vending machine for stacked articles, Selective. W. C. Cutler. 1,619,292; Mar. 1.
- Vending machine, Fruit. M. Redlinger. 1,616,824; Feb. 8.
- Vending machine, Handkerchief. A. Probst. 1,646,314; Oct. 18.
- Vending-machine mechanism. N. P. Petersen. 1,616,822; Feb. 8.
- Vending machine, Merchandise. A. Cantrell. 1,625,845; Feb. 8.
- Vending machine, Newspaper. A. A. Meyer. 1,645,442; Oct. 11.
- Vending machine, Sanitary straw. W. H. Delano. 1,637,767; Aug. 2.
- Vending machine, Sanitary-toilet-seat-paper. J. Mortka. 1,640,245; Aug. 23.
- Vending machines, Coin-controlling mechanism for. A. P. Gilbertson. 1,613,882; Jan. 11.
- Vending machines, Coin-receiving mechanism for. R. B. and L. G. Sherburne and M. Hansen. 1,629,006; May 17.
- Vending machines, Coin-slot mechanism for. N. P. Petersen. 1,628,062; May 10.
- Vending machines, Fraud-preventing device for. D. L. Chaudler. 1,619,655; Mar. 1.
- Vending machines, Rotary selecting mechanism for. W. C. Cutler. 1,619,294; Mar. 1.
- Vending rack or stand. C. T. Hatch. 1,634,573; July 5.
- Vending and making same. Scored. G. W. Talbot. 1,637,164; July 26.
- Veneer construction and making the same. H. N. Gibson. 1,642,066; Sept. 13.
- Veneer core. A. W. Schorger. 1,649,983; Nov. 22.
- Veneer-core machine. S. Madsen. 1,635,149; July 5.
- Veneering machine. C. Straub. 1,626,365; Apr. 26.
- Veneer drier. F. Kershaw. 1,637,945; Aug. 2.
- Veneer drier. J. E. Kocha. 1,642,928; Sept. 20.
- Veneer-jointing machine. G. Buddenberg. 1,615,107; Jan. 18.
- Veneer machines, Driven pressure bar for. G. H. Osgood. 1,641,452; Sept. 6.
- Veneer wall. J. J. Fitz Gerald. 1,621,877; Mar. 22.
- Veneering machines, Centering devices for. T. L. and J. W. Randall. 1,613,903; Jan. 11.
- Veneers, Machine for edge-uniting. J. E. Black. 1,648,194; Sept. 20.
- Veneers, Treating. A. A. Dennis. 1,636,218; July 19.
- Veneer blind. W. E. Duncanson. 1,630,114; May 24.
- Vent for full-lined garments and making it. E. A. Feiss. 1,626,799; May 3.
- Ventilated house. J. Q. Clarke. 1,651,341; Nov. 29.
- Ventilated seat. F. Mahnkens. 1,614,622; Jan. 18.
- Ventilating and humidifying device. D. Handelan. 1,646,243; Oct. 18.
- Ventilating and humidifying, System of. E. Nesdahl. 1,641,899; Sept. 6.
- Ventilating apparatus. J. M. Frank and A. G. Sutcliffe. 1,633,579; June 28.
- Ventilating apparatus. M. Garland. 1,640,986; Aug. 30.
- Ventilating apparatus. F. W. W. Pickance. 1,618,552; Feb. 22.
- Ventilating apparatus. A. G. Schuck. 1,624,016; Apr. 12.
- Ventilating apparatus, Vehicle. E. B. Hutchins. 1,618,152; Feb. 15.
- Ventilating closet. E. H. and C. E. Raper. 1,639,966; Aug. 23.
- Ventilating device. W. H. Rose. 1,650,724; Nov. 29.
- Ventilating, heating, and humidifying apparatus. C. A. Moore. 1,643,345; Sept. 27.
- Ventilating motor, Propeller. F. Charavay. 1,646,578; Oct. 25.
- Ventilating or skylight constructions, Operating mechanism for the closure means of. A. R. Blaski. 1,647,262; Nov. 1.
- Ventilating screen. H. H. Everhard. 1,614,191; Jan. 11.
- Ventilating system. O. G. Crannell. 1,642,605; Sept. 13.
- Ventilating systems, Air control for. J. L. Strahan. 1,623,286; Apr. 5.
- Ventilating systems, Casing for the discharge mouth of building. I. C. Sternberg. Des. 73,949; Nov. 22.
- Ventilating systems, Unit for. R. A. Lig. 1,618,379; Feb. 22.
- Ventilation-controlling apparatus, Automatic. H. J. Wood and F. L. Eastgate. 1,618,792; Feb. 22.
- Ventilation, Reversible. L. C. Albrecht. 1,648,796; Nov. 8.
- Ventilator; See—
Automobile ventilator.
Bus ventilator.
Car ventilator.
Closed-body ventilator.
Cowl ventilator.
Crack-case ventilator.
Intake ventilator.
Louver ventilator.
Oven ventilator.
Vehicle ventilator.
Window ventilator.
- Ventilator. A. Andrews. 1,650,588; Nov. 29.
- Ventilator. E. F. Beach. 1,632,871; June 21.
- Ventilator. J. H. Bourgon. 1,620,512; Mar. 8.
- Ventilator. J. H. Bourgon. 1,624,907; Apr. 19.
- Ventilator. S. C. Burt. 1,617,939; Feb. 15.
- Ventilator. R. L. Crosthwaite. 1,630,692; May 31.
- Ventilator. R. L. Crosthwaite. 1,646,853; Oct. 25.
- Ventilator. M. L. Garland. 1,621,531; Mar. 22.
- Ventilator. H. Giese. 1,628,965; May 17.
- Ventilator. J. Goldstein. 1,634,184; June 28.
- Ventilator. H. N. Hansen. 1,645,283; Oct. 11.
- Ventilator. F. R. Kelley. 1,639,187; Aug. 16.
- Ventilator. C. H. Lighthart. 1,613,666; Jan. 11.
- Ventilator. A. Matthiessen. 1,640,575; Aug. 30.
- Ventilator. A. Miller. 1,638,698; Aug. 9.
- Ventilator. J. and D. P. Muirhead. 1,651,464; Dec. 6.
- Ventilator. A. L. Schwartzberg. 1,652,330; Dec. 13.
- Ventilator. J. Sobel. 1,630,978; May 31.
- Ventilator. F. R. Stark. 1,616,812; Dec. 6.
- Ventilator. H. E. Troutman. 1,624,291; Apr. 12.
- Ventilator. L. Whitesel. 1,650,918; Nov. 29.
- Ventilator and the like. A. B. Anderson. 1,644,701; Oct. 11.
- Ventilator and the like. R. L. Crosthwaite. 1,630,691; May 31.
- Ventilator canopy. R. E. Peck. 1,632,381; June 14.
- Ventilator for automobiles, Cowl. L. Ottinger. 1,639,309; Aug. 16.
- Ventilator for busses and other vehicles. M. M. Garland. 1,654,166; Dec. 27.
- Ventilator for closed vehicles. A. J. Norris. 1,650,570; Nov. 22.
- Ventilator installation, Wall-louver. R. J. Miller. 1,613,047; Jan. 4.
- Ventilators for wearing apparel, Machine for making. W. I. Silverstein. 1,631,773; June 7.
- Ventilators, Testing apparatus for. J. H. Young. 1,640,477; Aug. 30.
- Vermifuge and insecticide. W. J. Dennis. 1,621,240; Aug. 16.
- Vermin-destroying henroost. J. Kyle. 1,629,395; May 17.
- Vermin trap. G. O. Helvig and O. G. Munsen. 1,613,227; Jan. 4.
- Vernier device. T. F. W. Meyer. 1,634,676; July 5.
- Vernier dial. H. J. Kasch. 1,636,233; July 19.
- Vertical cooler. A. R. Thompson. 1,651,912; Dec. 6.
- Vessel. E. H. Ewertz. 1,619,063; Mar. 1.
- Vessel, Dispensing. W. H. Peaden. 1,654,429; Dec. 27.
- Vessel emptying or filling appliance. C. W. Meggenhofen. 1,643,025; Sept. 20.
- Vessels, Air-circulating system for cargo. J. Hudson. 1,623,922; Apr. 5.
- Vessels, Blank for conical. C. F. Dawson. 1,637,252; July 26.
- Vessels, Channel and plate construction for. W. G. Bartenfeld. 1,626,716; May 3.
- Vessels, Closure for. F. Goudard. 1,650,510; Nov. 22.
- Vessels, Closure for. A. Mauser. 1,632,031; June 14.
- Vessels containing liquid under pressure, Automatic safety system for. C. S. Messier. 1,627,399; May 3.
- Vessel, Device for launching boats on board of. N. van W. Jurriaanse. 1,636,059; July 19.
- Vessels, Producing a high vacuum in. D. S. Gustin. 1,647,618; Nov. 1.
- Vest or the like undergarment. H. Blair. 1,647,952; Nov. 1.
- Vibrating chair. M. P. Cannon and O. Markel. 1,615,615; Jan. 25.
- Vibrating device. A. M. Curtis. 1,641,251; Sept. 6.
- Vibrating machine. A. E. R. Blomquist. 1,613,377; Jan. 4.
- Vibrating machine. R. C. Stubbs. 1,615,052; Jan. 18.
- Vibrating machine, Wall. E. D. Church. 1,644,175; Oct. 4.
- Vibrating screen. B. A. Mitchell. 1,645,613; Oct. 18.
- Vibrating screen. G. A. Overstrom. 1,621,949; Mar. 22.
- Vibrating screen. H. S. Woodward. 1,649,833; Nov. 22.
- Vibration absorber. C. R. Soderberg. 1,633,889; Aug. 16.
- Vibration absorber. C. R. Soderberg. 1,635,938; Aug. 16.
- Vibration amplifier. W. Hahnemann, H. Hecht, H. Lichte, and L. Adelmann. 1,622,507; Mar. 29.
- Vibration dampener. K. R. Manville. 1,641,230; Sept. 6.
- Vibration dampener. A. F. Masury. 1,649,917; May 10.
- Vibration dampener. A. F. Masury. 1,640,788; Aug. 30.
- Vibration responsive device. H. C. Harrison. 1,648,120; Nov. 8.
- Vibrations, Apparatus and system for detecting. R. V. L. Hartley. 1,648,121; Nov. 8.

- Vibrations by means of a continuous stream of fluid, Device for the production of mechanical. W. Hahnemann, Rudolph, and E. Wilckens. 1,618,382; Mar. 1.
- Vibrator. L. J. Wahl. 1,623,987; Apr. 12.
- Vibrator, Hearth-tray. A. D. Keene. 1,652,532; Dec. 13.
- Vibrator mechanism. L. J. Wahl. 1,622,298; Mar. 29.
- Vibratory converter. O. M. Leich. 1,615,766; Jan. 25.
- Vibratory mixer. F. W. Wallace. 1,632,718; June 14.
- Vibratory motion into rotary motion, Apparatus for converting. H. L. Strling. 1,616,393; Feb. 1.
- Vibratory screen. W. F. Schadel. 1,620,575; Mar. 8.
- Vibratory structures, Supporting. T. C. Roberts. 1,641,602; Sept. 6.
- Vibratory system, Mechanical. H. C. Harrison. 1,645,139; Oct. 11.
- Vine-gathering machine. C. B. Hay. 1,648,767; Nov. 8.
- Vine holder. C. A. Comstock. 1,635,071; July 5.
- Vine lifter. G. S. Agee. 1,626,712; May 3.
- Vinyl esters, Manufacturing. F. W. Skirrow and O. W. Herzberg. 1,638,713; Aug. 9.
- Viol machines, Tremolo device for. H. S. Mills. 1,621,127; Mar. 15.
- Violin. J. Dopyera. 1,647,510; Nov. 1.
- Violin. M. Redlinger. 1,635,502; July 12.
- Violin bows, Finger grip for. J. Gaynor. 1,632,003; June 14.
- Violin bridge. A. M. Alvarado. 1,623,900; Apr. 5.
- Violin case. T. H. Stark. 1,624,994; Apr. 19.
- Violin lute. H. Riller. 1,647,312; Nov. 1.
- Violin mandolin. H. Miller. 1,635,429; July 12.
- Viols and the like, Bow guide for. G. M. Morris. 1,623,633; Apr. 5.
- Viscera retainer for use in abdominal operations. H. J. Arbogast. 1,618,261; Feb. 22.
- Viscose product. S. A. Neidich. 1,651,404; Dec. 6.
- Viscose-treating apparatus. S. A. Neidich. 1,616,918; Feb. 8.
- Viscosimeter. C. M. Larson. 1,635,281; July 12.
- Viscosimeter. E. H. Peabody. 1,639,057; Aug. 16.
- Viscosity gauge. W. C. Sproesser. 1,651,416; Dec. 6.
- Viscosity of matter, Method of and apparatus for testing the. R. A. McWald. 1,614,565; Jan. 18.
- Viscous materials, Apparatus for dispensing. G. H. Powers. 1,651,866; Dec. 6.
- Viscous materials, Grinding. H. F. Winslow. 1,628,211; May 10.
- Vise. J. M. Alexander. 1,650,565; Nov. 22.
- Vise. J. Brodgen. 1,632,588; Jan. 14.
- Vise. T. Classey. 1,636,181; July 19.
- Vise. G. W. Fetters. 1,651,263; Nov. 29.
- Vise. J. E. Gossage. 1,616,039; Feb. 1.
- Vise. C. W. Hampton. 1,653,173; Dec. 20.
- Vise. D. S. West. 1,630,993; May 31.
- Vise, Adjustable. S. H. Richards. 1,645,023; Oct. 11.
- Vise, Die sinker's. B. M. Louquist. 1,644,437; Oct. 4.
- Vise for hook bars, Combination. S. Heath. 1,614,299; Jan. 11.
- Vise, Pipe. H. G. Butt. 1,623,045; Apr. 5.
- Vise stand. O. S. Lee. 1,634,837; July 5.
- Vise, Watchmaker's hand. O. A. Bettum. 1,653,335; Dec. 20.
- Vises to posts, poles, or the like, Apparatus for securing. J. E. Kenerson. 1,625,319; Apr. 19.
- Visible pulse and diastolic indicator. N. Fedde. 1,644,824; Oct. 11.
- Vision, Device for determining the field of. L. Maggiora. 1,616,231; Mar. 23.
- Vision glasses, Antifrost. W. C. Nash. 1,638,505; Aug. 9.
- Visor. J. Berg. 1,645,216; Oct. 11.
- Visor. J. Berg. 1,654,206; Dec. 27.
- Visor, Automobile. H. E. Kempton and R. Rucker. 1,627,975; May 10.
- Visor, Automobile. H. E. West. 1,637,842; Aug. 2.
- Visor, Automobile windshield. O. E. Grigsby. 1,632,474; June 14.
- Visor for motor vehicles, Sun. C. C. Megown. 1,640,088; Aug. 23.
- Vital annunciator. W. T. Dippel. 1,626,795; May 3.
- Vitamin B, Preparing concentrated. P. Cacia. 1,617,702; Feb. 15.
- Vitamin food product and method. R. K. Prince. 1,633,711; June 28.
- Vitamin preparation. M. Winckel. 1,624,154; Apr. 12.
- Vitamines and product, Obtaining. C. Funk and H. E. Dublin. 1,649,520; Nov. 15.
- Vitamines, Transferring. S. Grönningsæter. 1,629,618; May 24.
- Vitreous articles in place, Securing. C. J. Rukenbrod. 1,652,052; Dec. 6.
- Vitrifier mechanism. S. Spallotta. 1,652,501; Dec. 13.
- Voice device. H. W. Munro. 1,649,722; Nov. 15.
- Voice devices, Post structure for. A. Konoff. 1,635,330; July 12.
- Voice mechanism. L. V. Aronson. 1,630,250; May 31.
- Voice-operated relay equipment. S. B. Wright. 1,636,031; July 19.
- Voice placer. E. Keller. 1,621,207; Mar. 15.
- Voice-reproducing device. M. DeCesare. 1,642,768; Sept. 20.
- Volle fabric, Flocked. E. B. Vandergaw and J. Heinrich. Dec. 22-29-30; Mar. 2.
- Volatile liquids, Apparatus for the extraction and recovery of. E. A. Ironside. 1,631,036; May 31.
- Volatile matter, Apparatus for extracting. K. E. Clayton-Kennedy. 1,647,273; Nov. 1.
- Volatile matter into lamps and the like, Introducing. C. C. Van Voorhis. 1,623,323; Apr. 5.
- Volatile organic solids, Recovery of. J. H. Brégaet. 1,613,219; Jan. 4.
- Volatil products from carbonaceous material, Apparatus for recovering the. M. J. Trumble. 1,651,647; Dec. 6.
- Volatil solvents, Recovery of. R. Oertel. 1,631,052; May 31.
- Volatil substances, Recovery of. J. Jannek, G. Wietzel and F. Stoeuener. 1,614,615; Jan. 18.
- Volatil substances, Separating. E. Wecker. 1,622,126; Mar. 22.
- Volt-ampere-hour meter. G. A. Cheetham. 1,637,370; Aug. 2.
- Volt-ampere meter, Vector-sum. D. J. Angus. 1,647,332; Nov. 1.
- Volt amperes in an alternating circuit, Method and apparatus for measuring. R. A. Warner. 1,614,219; Jan. 11.
- Volt amperes. Measuring. L. A. Paine. 1,649,851; Nov. 22.
- Voltage-balancing regulator. J. H. Ashbaugh. 1,654,317; Dec. 27.
- Voltage-limiting device. F. E. Field. 1,651,021; Nov. 29.
- Voltage-limiting device. G. A. Persons. 1,614,254; Jan. 11.
- Voltage-regulating system, Transformer-. P. M. Currier. 1,620,619; Mar. 8.
- Voltage regulation of exciters. R. M. Wilson. 1,637,887; Aug. 2.
- Voltage regulator. E. F. W. Alexanderson. 1,652,923; Dec. 13.
- Voltage regulator. A. F. Brotz. 1,647,266; Nov. 1.
- Voltage regulator. J. Slepien. 1,624,370; Apr. 12.
- Voltage regulator. J. B. Trevor, Jr. 1,621,443; Mar. 15.
- Voltage regulator. Induction. L. W. Thompson. 1,635,060; July 5.
- Voltage-regulatory system. W. M. Bradshaw. 1,640,560; Aug. 30.
- Voltage stress, Apparatus for indicating. F. C. Doble. 1,644,421; Oct. 4.
- Voltmeter and phase-rotation indicator, Combined. H. W. Hall. 1,641,757; Sept. 6.
- Voltmeter. Vacuum-tube. L. C. F. Horie. 1,622,786; Mar. 29.
- Volume control. W. A. Loomis. 1,640,842; Aug. 30.
- Volume indicator. A. Bailey. 1,653,082; Dec. 20.
- Voting machine. F. G. Diago. 1,654,457; Dec. 27.
- Voting machine. W. J. Schuessler. 1,614,320; Jan. 11.
- Voting, surety. J. E. Greenan. 1,636,994; July 26.
- Vulcanization. G. H. Ellinwood. 1,642,541; Sept. 13.
- Vulcanization. D. E. Hennessy. 1,623,183; Apr. 5.
- Vulcanization accelerator and making same. H. W. Elley and D. H. Powers. 1,624,723; Apr. 12.
- Vulcanization process and product. P. I. Murill. 1,622,535; Mar. 29.
- Vulcanized articles, Machine for stripping. C. J. Randall and C. Wertenberg. 1,623,208; Apr. 5.
- Vulcanizer. A. A. Baffetti. 1,619,231; Mar. 1.
- Vulcanizer. R. W. Brown. 1,643,196; Sept. 20.
- Vulcanizer. J. A. Cross. 1,653,021; Dec. 27.
- Vulcanizer. W. S. Galvin. 1,652,473; Dec. 13.
- Vulcanizer. P. F. M. A. Fontana. 1,620,597; Mar. 8.
- Vulcanizer. P. F. M. A. Fontana. 1,637,931; Aug. 2.
- Vulcanizer. C. B. Hudson and H. C. Bostwick. 1,644,433; Oct. 4.
- Vulcanizer. G. W. Lewis. 1,631,042; May 21.
- Vulcanizer. C. C. Marble. 1,640,281; Aug. 23.
- Vulcanizer. L. O. Snare. 1,621,958; Mar. 22.
- Vulcanizer. Automatically controlled. M. M. Kohn. 1,648,586; Nov. 8.
- Vulcanizer, Electric. M. Murphy. 1,628,899; May 17.
- Vulcanizer for pneumatic tubes. R. M. Brundidge. 1,618,406; Feb. 22.
- Vulcanizer, Tire-repair. C. M. Semler. 1,637,879; Aug. 2.
- Vulcanizing apparatus. W. L. Fairchild. Re16,542; Feb. 8.
- Vulcanizing apparatus. R. D. Fritz. 1,631,806; June 7.
- Vulcanizing apparatus. R. D. Fritz. 1,647,040; Oct. 25.
- Vulcanizing apparatus. R. Hansen. 1,640,500; Aug. 30.
- Vulcanizing apparatus. J. C. Heintz. 1,623,677; Apr. 5.
- Vulcanizing apparatus. L. A. Laursen. 1,650,078; Nov. 22.
- Vulcanizing apparatus. L. A. Laursen. 1,652,019; Dec. 6.
- Vulcanizing apparatus. J. F. Mincher. 1,621,595; Mar. 22.
- Vulcanizing apparatus. H. K. Wheelock. 1,630,457; Nov. 1.
- Vulcanizing apparatus. Automatically-controlled, electrically-heated. R. A. Brooks. 1,628,766; May 17.
- Vulcanizing, Apparatus for electrical. J. Ledwinka. 1,645,704; Feb. 15.
- Vulcanizing articles, Process and apparatus for. J. L. G. Dykes. 1,616,954; Feb. 8.
- Vulcanizing material, Method of and apparatus for. C. D. Hart. 1,633,592; June 28.
- Vulcanizing material, Method of and apparatus for. L. P. Lamplough. 1,633,591; June 28.
- Vulcanizing method and apparatus. J. D. Tew. 1,631,707; June 7.
- Vulcanizing mold. E. Hopkinson. 1,634,106; June 28.

- Vulcanizing rubber and compound resulting therefrom. N. A. Shepard and S. Krall. 1,647,754; Nov. 1.
- Vulcanizing under fluid pressure, Apparatus for. R. D. Fritz. 1,622,438; Mar. 29.
- Wafers, Machine for applying top coatings of comminuted materials to confection-coated. F. G. Salerno. 1,627,577; May 10.
- Waffle iron. C. M. Cole. 1,648,335; Nov. 8.
- Waffle iron. K. Ehrigott. 1,646,726; Oct. 25.
- Waffle iron. C. J. Fay. Des. 72,364; Apr. 5.
- Waffle iron. D. E. Gordon. 1,619,122; Jan. 18.
- Waffle iron. A. J. Neylon. 1,617,026; Feb. 8.
- Waffle iron. O. Pahomi. 1,649,039; Nov. 15.
- Waffle iron. J. H. Procter. 1,633,954; June 28.
- Waffle iron. G. B. Quatman. 1,641,455; Sept. 6.
- Waffle iron. A. H. Simmons. 1,632,630; Oct. 14.
- Waffle iron, Electric. K. Ehrigott. 1,646,727; Oct. 25.
- Waffle iron, Quick-action. L. Cortz. 1,625,243; Apr. 19.
- Waffles, Device for making. V. F. Diaz. 1,642,062; Sept. 13.
- Wagon: See—
Tank wagon.
- Wagon. A. A. Becker. 1,639,124; Aug. 16.
- Wagon. C. N. Clark. 1,652,762; Dec. 13.
- Wagon. H. E. Martin. 1,617,131; Feb. 8.
- Wagon. J. T. Norman. 1,627,109; May 8.
- Wagon and sled, Convertible. R. B. Fagool. 1,654,284; Dec. 27.
- Wagon and sled, Convertible. A. J. Kelly. 1,654,465; Aug. 7.
- Wagon and the like, Tipping. J. E. F. Cambessédes. 1,638,009; Aug. 9.
- Wagons and wagon trains, Draft mechanism for. H. J. Clark. 1,652,700; Dec. 13.
- Wagon body, Coaster. O. L. Lewis. 1,642,961; Sept. 20.
- Wagon body, Juvenile. J. Weber. 1,620,931; Mar. 15.
- Wagon-box support. B. G. Rademacher. 1,621,685; Mar. 22.
- Wagon, Casing. J. D. Lemex. 1,631,276; June 7.
- Wagon, Coaster. W. R. Kohler. 1,637,614; Aug. 2.
- Wagon, Coaster. A. R. Pribil. 1,633,272; June 21.
- Wagon end gate. P. Verdugt. 1,654,439; Dec. 27.
- Wagon, Four-horse. W. M. Crow. 1,619,059; Mar. 1.
- Wagon gate closer, Dump. S. W. Priggs. 1,622,084; Mar. 22.
- Wagon, Tank. G. W. Sawyer. 1,644,090; Oct. 4.
- Wagon, Tractor dump. A. C. Thomas. 1,619,094; Mar. 1.
- Wagons, Adjustable bolster standard for. J. V. Cizek. 1,619,288; Mar. 1.
- Wagons and the like, Tipping apparatus for. A. W. Biles. 1,615,737; Jan. 25.
- Wagons, Grain-dumping end gate for grain. W. A. Orendorff. 1,634,798; July 5.
- Wagons, Powder-distributing attachment for. F. E. Flack. 1,613,988; Jan. 11.
- Wagons, Running gear for. F. M. Kennedy. 1,647,047; Oct. 25.
- Wagons, Steering mechanism for coaster. E. S. Showers. 1,632,384; June 14.
- Waistbands and the like, Preparing. J. Overbeke. 1,651,039; Nov. 29.
- Waist pattern, Adjustable. J. J. Walsh. 1,628,343; May 10.
- Wall. E. Berliner. 1,628,351; May 10.
- Wall, Air-cooled. H. J. Kerr. 1,634,291; July 5.
- Wall and constructing same, Block. F. S. and F. A. Cooley. 1,623,094; Apr. 5.
- Wall and constructing the same. J. Riegel. 1,637,057; Sept. 2.
- Wall and constructing the same. H. F. Weiss. 1,642,282; Sept. 13.
- Wall and floor joint, Bathtub. W. B. Lucke. 1,615,881; Feb. 1.
- Wall and floor joints, etc., Sealing. W. R. Gillies. 1,624,984; Oct. 2.
- Wall and making the same, Tubular corrugated. W. M. Fulton. 1,648,046; Nov. 8.
- Wall and mantel ornament or the like. D. Calarco. Des. 73,642; Oct. 18.
- Wall, Baffle. J. E. Muhlfield. 1,622,288; Mar. 29.
- Wall board. P. T. Beyers. 1,635,922; July 12.
- Wall board. R. N. Jensen. 1,635,214; July 12.
- Wall board. H. F. Weiss. 1,634,807; July 5.
- Wall board. H. F. Weiss. 1,634,809; July 5.
- Wall board and forming the same. F. J. Moore. 1,644,199; Oct. 4.
- Wall board and making the same. H. F. Weiss. 1,631,173; June 7.
- Wall board, Bound-edge plaster. C. W. Utzman. 1,631,108; May 31.
- Wall-board edge. J. Schumacher. 1,653,474; Dec. 20.
- Wall-board machine. A. L. Frederickson and E. C. Pitcher. 1,646,645; Oct. 25.
- Wall board, Manufacturing. S. C. Clark. 1,639,128; Aug. 10.
- Wall-board. Nail-penetrable. M. K. Armstrong. 1,641,611; Sept. 6.
- Wall board or the like, Apparatus for shaping the edges of. J. J. Turner. 1,654,024; Dec. 27.
- Wall board or the like, Clamping means for. A. W. Tyler. 1,629,555; May 24.
- Wall-board-retaining member. J. Strand. 1,619,994; Mar. 8.
- Wall-board support. R. T. Ruth. 1,653,824; Dec. 27.
- Wall boards composed of rice hulls and plaster, Manufacturing. T. Nishi. 1,634,079; June 28.
- Wall boards, Erecting machine for. F. J. Paffner. 1,639,962; Aug. 23.
- Wall bracket. M. Klein. Des. 72,835; June 14.
- Wall bracket. M. Klein. Des. 72,837; June 14.
- Wall bracket. M. Klein. Des. 72,840; June 14.
- Wall bracket. M. Klein. Des. 72,846; June 14.
- Wall bracket. M. Klein. Des. 72,848; June 14.
- Wall bracket. M. Klein. Des. 72,850-1; June 14.
- Wall bracket. M. Klein. Des. 73,009; July 5.
- Wall bracket. A. A. Smith. Des. 73,947; Nov. 22.
- Wall bracket. W. von Nessen. Des. 73,878; Oct. 18.
- Wall-bracket arm fixture. J. Shortt. Des. 73,449; Sept. 13.
- Wall bracket or analogous article. W. von Nessen. Des. 74,128; Dec. 20.
- Wall bracket, Portable. C. U. Senter. 1,622,057; Mar. 22.
- Wall-building apparatus. M. C. Schweinert. 1,654,349; Dec. 27.
- Wall-building device. G. J. Seiler. 1,632,514; June 14.
- Wall cabinet, Flush-type. A. H. Cook. 1,613,939; Jan. 11.
- Wall clock. J. H. Page. Des. 73,193; Aug. 2.
- Wall construction. C. Collins. 1,652,701; Dec. 13.
- Wall construction. W. F. Gaudian. 1,623,917; Apr. 5.
- Wall construction. J. R. Hazelrigg. 1,629,702; May 24.
- Wall construction. B. J. Klaasen. 1,619,300; Mar. 1.
- Wall construction. J. F. Makowski. 1,627,913; May 10.
- Wall construction. J. McKenzie. 1,627,986; May 10.
- Wall construction. B. C. McWane. 1,649,481; Nov. 15.
- Wall construction. F. Y. Parsons. 1,630,801; May 31.
- Wall construction. B. Rhodes. 1,620,834; Mar. 15.
- Wall construction. W. Rokoski. 1,629,310; May 17.
- Wall construction. G. F. Voight. 1,624,192; Apr. 12.
- Wall construction. G. F. Voight. 1,640,303; Aug. 23.
- Wall construction. H. G. Wallace. 1,631,659; June 7.
- Wall construction. H. F. Weiss. 1,634,808; July 5.
- Wall construction, Acoustic. G. P. Little. 1,635,796; July 12.
- Wall construction and block therefor, Concrete. J. H. Serra. 1,624,369; Apr. 12.
- Wall construction and building block. R. F. Greene. 1,618,281; Feb. 22.
- Wall construction and metal member therefor. J. Strand. 1,612,993; Jan. 4.
- Wall construction, Building. G. L. Bennett. 1,631,787; June 7.
- Wall construction, Building hollow. H. A. Duchemin. 1,619,570; Mar. 1.
- Wall construction, Concrete. F. M. Barton. 1,641,147; Sept. 6.
- Wall construction, Concrete. W. E. Keller. 1,638,583; Aug. 9.
- Wall construction, Hollow fire. M. Liptak. 1,643,280; Sept. 20.
- Wall construction, Horizontal. H. S. Ashenburt. 1,654,029; Dec. 27.
- Wall construction, Marine. J. P. Ball. 1,629,470; May 24.
- Wall construction, Metallic. W. H. Barnes. 1,653,197; Dec. 20.
- Wall construction, Retaining. S. W. Traylor and C. H. Ruggles. 1,637,065; July 26.
- Wall construction, Stoker-side. H. E. Preston. 1,620,488; Mar. 8.
- Wall covering. H. Langer. 1,651,332; Nov. 29.
- Wall covering. Composition. F. Brandt. 1,646,809; Oct. 25.
- Wall covering, Preparing. A. C. Dodman, Jr. 1,623,020; Apr. 5.
- Wall coverings, Fastening for. R. Dorn. 1,650,117; Nov. 22.
- Wall decoration. A. Labram. 1,648,020-1; Nov. 8.
- Wall form, Concrete. O. L. Engstrom. 1,616,357; Feb. 1.
- Wall form, Poured. G. Strom. 1,636,256; July 19.
- Wall-form tie. J. H. Bauschard. 1,651,313; Nov. 29.
- Wall furnace. J. S. Andrews. Re16,657; June 14.
- Wall furnace. J. Benjamin. 1,652,263; Dec. 13.
- Wall furnace. H. T. Dykes. 1,643,765; Sept. 23.
- Wall, Interior. J. B. Blaw. 1,640,065; Aug. 23.
- Wall light. M. I. Kast. 1,642,339; Sept. 13.
- Wall lighting fixture, Bracket back for. G. E. Villaret. Des. 73,152; July 26.
- Wall mold. R. L. Bracey. 1,641,958; Sept. 13.
- Wall mold. C. Hutchins. 1,652,485; Dec. 13.
- Wall-molding apparatus. W. T. Fels. 1,630,080; May 24.
- Wall ornamentation. J. Koberling. 1,647,181; Nov. 1.
- Wall panel. R. M. Brown. 1,632,431; June 14.
- Wall panel. A. C. Dodman, Jr. Des. 73,829; Nov. 15.
- Wall paper. O. Sutezo. Des. 74,037; Dec. 8.
- Wall-paper machine. E. C. F. Ernst. 1,646,282; Oct. 18.
- Wall paper or similar article. H. T. Aboln. Des. 72,878-79; June 21.
- Wall-paper support. O. Thomas. 1,618,241; Feb. 22.
- Wall-papering device. B. D. Wooley. 1,637,288; July 26.
- Wall, Partition. J. M. Hewlett. 1,631,373; June 7.
- Wall, Partition. P. H. Thomason. 1,616,768; Feb. 8.
- Wall, Partition, Joint attachment and support for double. W. J. Barnes. 1,614,179; Jan. 11.
- Wall plate, Corrugated. H. L. Ingersoll. 1,627,392; May 3.
- Wall plate, Corrugated. V. E. Sisson. 1,653,067; Dec. 20.

- Wall plate, Lighting fixture, F. H. Trimble. Des. 72,196; Mar. 8.
- Wall pocket or similar article. R. De Boer. Des. 72,548; May 8.
- Wall pocket or similar article. R. De Boer. Des. 72,892; June 21.
- Wall rack or similar article. A. Tuck. Des. 74,038; Dec. 6.
- Wall seat. A. M. Freise. 1,617,901; Feb. 15.
- Wall seat. E. Nelson. 1,642,125; Sept. 13.
- Wall shield, Radiator. H. G. Sweitzer. 1,624,997; Apr. 19.
- Wall slabs, Mold board for the formation of. J. H. Delancy. 1,648,874; Nov. 8.
- Wall, Soundproof. H. S. Ashenburt. 1,654,030; Dec. 27.
- Wall switch, Flush. M. Guett. 1,650,871; Nov. 29.
- Walls and ceilings, Manufacturing lathing for. K. M. Johansson. 1,630,618; May 31.
- Walls and other surfaces, Facing or preservation of. J. W. Dougal. 1,636,829; July 19.
- Walls, Constructing. E. J. Frewen. 1,652,305; Dec. 13.
- Walls, Constructing cement. F. Knaust. 1,616,263; Feb. 1.
- Walls, Constructing plaster-tile. J. F. Makowski. 1,649,313; Nov. 15.
- Walls, Corner studding for plaster-board. C. E. Bowers. 1,615,972; Feb. 1.
- Walls, Finishing metal. M. C. Van der Kamp. 1,637,793; Aug. 2.
- Walls, Form holder for concrete. E. Watson. 1,622,072; Mar. 22.
- Wallet. M. Kanzel. 1,635,940; July 12.
- Wallet, File. E. F. Ahlquist. 1,634,064; June 28.
- Warming dehydrator. I. C. Wells. 1,641,710; Sept. 8.
- Ward-Leonard drive. B. D. Mickey. 1,615,643; Jan. 25.
- Wardrobe. F. Addison. 1,647,031; Oct. 25.
- Wardrobe. C. H. Kraft. 1,638,236; July 19.
- Wardrobe and dresser, Combined. C. G. Morrow and S. H. Oakes. Des. 72,718; May 24.
- Wardrobe, Foldable. N. M. Robert. 1,629,362; May 17.
- Wardrobe, Portable. C. H. Woodruff. 1,615,430; Jan. 25.
- Wardrobe rack. K. Hassa. 1,652,571; Dec. 13.
- Ware-transferring mechanism. E. H. Lorenz. 1,642,421; Sept. 13.
- Warm-air generator. C. A. Stoll. 1,632,250; June 14.
- Warning device. R. S. Blair and B. D. Wells. 1,650,419; Nov. 22.
- Warp beams, Warp-end holder for. A. A. Gordon. 1,632,472; June 14.
- Warp-drawing machine. H. D. Colman. 1,624,928; Apr. 19.
- Warp-heddling machine. W. Hammer. 1,645,088; Oct. 18.
- Warp-knitting machine. I. Springthorpe. 1,623,603; Apr. 5.
- Warp, Method and apparatus for making tapered. O. S. Lawton. 1,648,905; Nov. 15.
- Warp stop motion. L. E. Curry. 1,652,591; Dec. 13.
- Warp-tension equalizer. T. C. Demers. 1,646,446; Oct. 25.
- Warp threads, Apparatus for selecting and separating. J. E. Moore. 1,652,316; Dec. 13.
- Warper attachment. W. P. Hornbuckle and R. F. Craig. 1,626,829; May 3.
- Warper or section beam head. J. Wilkinson. 1,644,099; Oct. 4.
- Warpers having an oscillatory detector bar, Quick-acting warp stop mechanism for. 1,646,362; Oct. 18.
- Warpers, Quick-acting warp stop mechanism for. A. E. Rhoades. 1,646,362; Oct. 18.
- Warpers, Quick-acting warp stop mechanism for. A. E. Rhoades. 1,646,363; Oct. 18.
- Warships, Power plant for. W. Schmidt. 1,632,925; June 21.
- Washbasin and foot tub, Combined. A. J. Farmer. 1,616,313; Feb. 1.
- Washbasins, fountains, and the like, Screw connection for siphons of. H. Fahnen Schmidt. 1,622,773; Mar. 29.
- Washbench. J. R. Wlarda. 1,620,418; Mar. 8.
- Washboard. G. W. Cook. 1,630,170; May 24.
- Washboard. H. J. Gilbert. 1,628,772; May 17.
- Washboard. D. Greene. 1,643,845; Sept. 27.
- Washboard attachment. C. A. Dees. 1,650,896; Nov. 29.
- Washboard support, Adjustable. E. A. McClaflerty. 1,631,638; June 7.
- Washboller. W. Saare. 1,635,979; July 12.
- Washboller rack. G. Quale. 1,629,888; May 24.
- Washer: See—
 Can washer. Photograph washer.
 Clothes washer. Press-ripping washer.
 Dish washer. Sand and gravel washer.
 Gas washer. Separator-bowl washer.
 Glass washer. Smoke washer.
 Gold washer. Surface washer.
 Lock washer. Tinting washer.
 Nut lock or fastener washer. Vegetable washer.
 Nut-locking washer.
- Washer. J. B. Fisher. 1,638,251; Aug. 9.
- Washer. R. T. Hosking. 1,615,382; Jan. 25.
- Washer and sterilizer, Can. H. Nystuen. 1,648,501; Nov. 8.
- Washer attachment, Air. S. J. Morrison. 1,615,337; Jan. 25.
- Washer-drive mechanism. H. W. Mitchell. 1,632,091; June 14.
- Washer drums, Fluid-tight closure member for. H. W. Mitchell. 1,636,192; July 19.
- Washer-feeding apparatus. W. D. Kmentt. 1,619,075; Mar. 1.
- Washer, nails, Soft-metal. E. V. Swangren. 1,652,648; Dec. 13.
- Washing and drying apparatus. G. W. Aldeen. 1,647,763; Nov. 1.
- Washing and drying machine. S. J. Boughton. 1,629,856; May 24.
- Washing and polishing device. E. C. Joseph. 1,641,494; Sept. 6.
- Washing and sterilizing device. W. C. Flintham and E. H. Bridenbaugh. 1,640,401; Aug. 30.
- Washing and stirring apparatus. H. L. Hess. 1,653,281; Aug. 16.
- Washing and wringing machine. J. Hutchinson. 1,627,438; May 3.
- Washing apparatus, Vegetable. J. W. and T. J. Bell. 1,617,096; Feb. 8.
- Washing, cleaning, waxing, and polishing sheet material, Machine for. J. Plochart. 1,619,928; Mar. 8.
- Washing clothes, Apparatus for. W. B. Reeves and M. J. Poole. 1,626,154; Apr. 26.
- Washing clothes or other fabrics, Composition for. C. B. Hager. 1,628,970; May 17.
- Washing compound. S. I. Weisler. 1,628,015; May 10.
- Washing device. H. van Zandt and B. Eymann. 1,636,022; July 19.
- Washing device. M. M. Weiss. 1,644,903; Oct. 11.
- Washing device, Automobile. J. Gerken. 1,612,913; Jan. 4.
- Washing device, Milking machine. O. J. Bork. Re16,839; Dec. 27.
- Washing machine. A. W. Altorfer. 1,629,064; Apr. 26.
- Washing machine. A. W. Altorfer. 1,632,866; June 21.
- Washing machine. A. W. Altorfer. 1,640,348; Aug. 30.
- Washing machine. R. C. Beekman. 1,635,356; July 12.
- Washing machine. F. L. Bickel. 1,647,261; Nov. 1.
- Washing machine. C. Boyd. 1,622,330; Mar. 22.
- Washing machine. O. Brandell. 1,635,243; July 12.
- Washing machine. W. Burke. 1,613,787; Jan. 11.
- Washing machine. B. P. and W. J. Churchill. Re16,758; Oct. 4.
- Washing machine. R. J. Clark, Jr. 1,640,232; Aug. 23.
- Washing machine. E. R. Cooper and A. Larson. 1,614,284; Jan. 11.
- Washing machine. A. Daniel. 1,639,491; Aug. 16.
- Washing machine. J. M. Deaglin. 1,630,112; May 24.
- Washing machine. F. H. Ehnts. 1,627,730; May 10.
- Washing machine. F. L. Furbush. 1,642,147; Sept. 13.
- Washing machine. F. J. Gensley. 1,631,630; June 7.
- Washing machine. B. E. Getz. 1,635,402; July 12.
- Washing machine. F. G. Gies. 1,652,273; Dec. 13.
- Washing machine. A. H. Grauer. 1,641,481; Sept. 6.
- Washing machine. A. H. Haag. Re17,448; Sept. 27.
- Washing machine. L. W. Hamilton. 1,639,180; Aug. 16.
- Washing machine. W. C. Hasha. 1,631,266; June 7.
- Washing machine. J. S. Jenks. 1,632,407; June 14.
- Washing machine. H. Joseph. 1,617,526; Feb. 15.
- Washing machine. C. T. Kemp and N. E. Ryckman. 1,629,391; May 17.
- Washing machine. H. F. Kuhns. 1,621,548; Mar. 22.
- Washing machine. C. Lichterman. 1,622,227; Mar. 22.
- Washing machine. C. McLean. 1,641,344; Sept. 6.
- Washing machine. H. R. Merseles. 1,620,671; Mar. 15.
- Washing machine. H. W. Mitchell. 1,629,958; May 24.
- Washing machine. H. W. Mitchell. 1,646,872; Oct. 25.
- Washing machine. F. B. Morehouse and F. Haase. 1,627,053; May 3.
- Washing machine. C. A. Murdoch. 1,645,869; Oct. 18.
- Washing machine. J. H. Niesen. 1,623,548; Apr. 5.
- Washing machine. H. W. Routsom. 1,625,439; Apr. 19.
- Washing machine. G. W. Rynders. 1,622,543; Mar. 29.
- Washing machine. C. G. Sinclair. 1,633,796; June 28.
- Washing machine. C. G. Sinclair. 1,634,238; June 28.
- Washing machine. H. F. Snyder. 1,615,413; Jan. 25.
- Washing machine. H. F. Snyder. 1,644,959; Oct. 11.
- Washing machine. C. F. Staples. 1,634,890; July 5.
- Washing machine. C. F. Staples. 1,634,890; July 5.
- Washing machine. B. A. Stocking. 1,633,140; June 21.
- Washing machine. O. E. Stokes. 1,642,700; Sept. 20.
- Washing machine. N. B. Strawn. 1,638,714; Aug. 9.
- Washing machine. C. D. Swert. 1,653,341; Dec. 20.
- Washing machine. O. E. Szekely. 1,646,174; Oct. 18.
- Washing machine. W. W. Walker. 1,647,893; Nov. 1.
- Washing machine. A. G. Wanek. 1,639,872; Aug. 23.
- Washing machine. O. B. Woodrow. 1,629,761-2; May 24.
- Washing machine. E. R. Zademach. 1,628,818; May 17.
- Washing machine and wringer. F. G. and M. P. March. 1,654,182; Dec. 27.
- Washing-machine attachment for purpose of making ice cream. M. J. Morris. 1,649,968; Nov. 22.
- Washing machine, Automatic. E. J. Carroll. 1,639,024; Aug. 16.
- Washing machine, Automatic. E. J. Carroll. 1,639,368; Aug. 16.
- Washing machine, Bottle. S. H. Marsh. 1,651,925; Dec. 6.
- Washing machine, Bottle. W. H. Paulson. 1,642,824; Sept. 20.
- Washing machine, Bottle. W. C. Sheffield. 1,648,743; Nov. 8.

- Washing-machine cabinet. C. W. Swanson. Des. 72,458; Apr. 12.
- Washing-machine casing. A. J. Fisher. 1,636,176; July 19.
- Washing-machine casing. F. C. Sebulske, jr. Des. 74,028; Dec. 6.
- Washing machine, Filter-cell. J. J. Preble. 1,644,082; Oct. 4.
- Washing machine, Household. C. A. Murdoch. 1,645,816; Oct. 18.
- Washing machine, Jet. I. H. Kendall. 1,640,835; Aug. 30.
- Washing-machine mechanism. A. G. Larson and E. R. Cooper. 1,629,218; May 17.
- Washing-machine plungers, Resilient mounting for. E. F. Beebe. 1,632,943; June 21.
- Washing machine, Power. F. E. Bowers. 1,639,587; Aug. 16.
- Washing machine, Rotary. A. F. McNaughton. 1,642,123; Sept. 13.
- Washing machine, Spray head for boiler. D. A. Hegerty. 1,625,851; Apr. 26.
- Washing machine, Sprout. L. C. Peters. 1,644,488; Oct. 4.
- Washing-machine tub. A. W. Altorfer. 1,648,530; Nov. 8.
- Washing-machine tub. S. E. Schroeder. 1,627,931; May 10.
- Washing machine, Tumbler. S. C. Benjamin. 1,644,628; Oct. 4.
- Washing machine, Vegetable. C. C. Daniels. 1,633,437; June 21.
- Washing machine with folding wringer. H. D. Payne, A. W. De Clerque, and S. T. Sjöberg. Re16,776; Oct. 18.
- Washing-machine wringer mechanism. J. Rocke. 1,642,130; Sept. 13.
- Washing machines, Agitator for. J. H. Fedler. 1,613,318; Jan. 4.
- Washing machines, Agitator for. J. Rocke. Re16,743; Sept. 20.
- Washing machines, Agitator for. J. Rocke. 1,617,030; Feb. 8.
- Washing machines, Agitator for. S. E. Schroeder. 1,619,637; Mar. 1.
- Washing machines, Brush attachment for. M. Iseman. 1,637,418; Aug. 2.
- Washing machines, Cleaning-material feeder for. N. W. Halsey. 1,640,319; Aug. 23.
- Washing machines, Clothes wringer for. W. K. Howe. 1,640,773; Aug. 30.
- Washing machines, Clutch mechanism for. J. L. Coffield. 1,648,675; Nov. 8.
- Washing machines, Clutch mechanism for. O. B. Woodrow. 1,629,763; May 24.
- Washing machines, Conveyor for. H. D. Lathrop and W. H. Faulson. 1,649,069; Nov. 15.
- Washing machines, Cylinder for. G. H. Dein. 1,650,195; Nov. 22.
- Washing machines, Door mechanism for. F. Balzer. 1,630,513; May 31.
- Washing machines, Drain guard for. L. W. Tilt. 1,626,125; Apr. 26.
- Washing machines, Drainage valve for clothes. P. E. Geldhof. 1,614,117; Jan. 11.
- Washing machines, Driving mechanism for. F. Maus. 1,641,770; Sept. 6.
- Washing machines, Driving mechanism for. O. B. Woodrow. 1,635,450; July 12.
- Washing machines, Eccentric driving mechanism for power. H. J. Criner. 1,632,118; June 14.
- Washing machines, Holder for. F. A. Hoffer. 1,632,735; June 14.
- Washing machines, Hydrodisk for. J. Nelson. 1,615,952; Feb. 1.
- Washing machines of the spray type, Cleaning-material feeder for. N. W. Halsey. 1,640,318; Aug. 23.
- Washing machines, Power-operated wringer for. W. K. Howe. 1,626,831; May 8.
- Washing machines, Safety attachment for. J. E. Gariglio. 1,621,080; Aug. 30.
- Washing machines, Soap door for. E. J. Perry. 1,627,803; May 2.
- Washing machines, Stand for. A. A. Clark. 1,649,571; Nov. 15.
- Washing machines, Steam jet for. L. Mandry. 1,646,299; Oct. 18.
- Washing machines, Tub for. F. M. and A. Fairgrieve. 1,630,473; May 31.
- Washing mechanism, Lubricating system for power-driven. P. E. Geldhof. 1,618,852; Feb. 8.
- Washing or cleaning table forks or forked articles, Appliance for. R. M. Hamilton. 1,653,703; Dec. 27.
- Washers, Drum controller for. M. E. Daly. 1,652,768; Dec. 13.
- Washers, drying tumblers, and the like, Door-locking device for. W. O. Olson. 1,647,713; Nov. 1.
- Washers on upstanding pins, Machine for placing. W. H. Brown. 1,626,914; May 3.
- Washers upon the pins of rubber-heel molds, Machine for placing. J. H. Kintzele. 1,626,039; Apr. 26.
- Wash-tub-cover-holding device, Stationary. J. H. Barrett. 1,627,467; May 3.
- Wash-tubs, Body rest for. E. H. Senger. 1,639,113; Aug. 16.
- Wash-tubs, etc., Enameled-metal cover for. J. Foster, jr. 1,614,464; Jan. 18.
- Wash-tubs, table tops, and the like, Stand for supporting. H. A. Hansen. 1,643,271; Sept. 20.
- Waste material, Suction device for removing. K. Schmid. 1,630,972; May 31.
- Waste can, Sanitary. J. F. Geibel. 1,639,992; Aug. 23.
- Waste connections and the like, Spud for. K. A. Wernle. 1,637,365; Aug. 2.
- Waste-heat boiler. H. S. Bennett. 1,636,979; July 26.
- Waste material and utilizing components thereof, Disposing of. A. Engle. 1,633,078-81; June 21.
- Waste-pipe cleaner, Flexible. F. E. Grosvoid. 1,638,766; Aug. 9.
- Waste receiver. M. W. Thaele. 1,633,688; June 28.
- Waste-removal apparatus. F. L. Crockett. 1,629,092; May 17.
- Watch. J. Bulova. 1,614,276; Jan. 11.
- Watch. J. B. Kislinger. Des. 73,323; Aug. 23.
- Watch. W. E. Wakefield. 1,645,633; Oct. 18.
- Watch barrel. H. A. Borresen. 1,643,403; Sept. 27.
- Watchcase. W. Becker. Des. 73,956-63; Nov. 29.
- Watchcase. W. Becker. Des. 73,994; Dec. 6.
- Watchcase. J. H. Beckman. Des. 74,134-5; Dec. 27.
- Watchcase. G. W. Bowen. 1,634,447; July 5.
- Watchcase bow. A. P. Conant. Des. 73,558; Oct. 4.
- Watchcase. J. Dinhofer. Des. 72,356-60; Apr. 5.
- Watchcase. J. Dinhofer. Des. 72,413-16; Apr. 12.
- Watchcase. I. Dinstant. 1,651,194; Nov. 29.
- Watchcase. I. Dinstant. Des. 73,646; Oct. 18.
- Watchcase. F. G. Gruen. Des. 73,517; Sept. 27.
- Watchcase. F. G. Gruen. Des. 73,606; Oct. 11.
- Watchcase. W. Huber. 1,619,822; Mar. 8.
- Watchcase. J. B. Kislinger. Des. 73,361; Aug. 23.
- Watchcase. B. Levy. Des. 72,024; Feb. 15.
- Watchcase. M. Spiro. 1,638,600; Aug. 9.
- Watchcase. F. G. Vermont. 1,644,802; Oct. 11.
- Watchcase and appendage, Combined. C. Messick. Des. 73,095; July 19.
- Watchcase and making same. G. T. Bates. 1,627,765; May 10.
- Watchcase bow. A. P. Conant. Des. 71,778; Jan. 4.
- Watchcase center. N. Greenberg. 1,621,110; Mar. 15.
- Watchcase construction. L. Lebr. 1,618,432; Feb. 22.
- Watchcase, strap and buckle, Combined wrist-. I. Dinstant. Des. 73,647; Oct. 18.
- Watchcases, Making. H. Cook. 1,637,337; Aug. 2.
- Watchcases, Making. I. Dinstant. 1,633,661; June 28.
- Watch-chain swivel. T. J. Fagan. 1,632,828; June 21.
- Watch, chain or similar article. J. A. Dominguez. Des. 73,648; Oct. 18.
- Watch crystal. J. B. Kislinger. Des. 73,360; Aug. 23.
- Watch display device, Strap-. A. Bulova. 1,615,324; Jan. 25.
- Watch fobs, Safety catch for. C. H. Cross. 1,648,217; Nov. 8.
- Watch holder. E. Edelstein. Des. 71,785; Jan. 4.
- Watch holder. L. B. Thompson. 1,618,492; Jan. 4.
- Watch lock. B. N. Colon. 1,618,698; Feb. 22.
- Watch movements, Manufacturing process of blanks for. H. Colomb. 1,621,235; Mar. 15.
- Watch movements provided with jewel-insetting or plug holes, Manufacturing process of making blanks for. H. Colomb. Re16,596; Apr. 19.
- Watch movements, Rest and holder for. J. I. Nasett. 1,621,805; Mar. 22.
- Watch. Stem-winding and stem-setting. W. E. Porter. 1,625,498; Apr. 19.
- Watch strap, Wrist-. W. Hankinson and J. J. Knebel. 1,629,339; May 17.
- Watch straps and bracelets, Fastening device for wrist-. C. H. Kesterman. 1,633,381; June 21.
- Watch straps, Connector for wrist-. W. A. Davis. 1,632,178; June 14.
- Watch straps, Fastener for. A. A. Goldstein. 1,653,457; Dec. 20.
- Watches and making same, Jewel setting for. H. Colomb. 1,642,102; Sept. 13.
- Watches and clocks and other devices, Determining the error in. E. Wolf. 1,628,214; May 10.
- Watches, Dust guard for. I. Sonnenthal. 1,633,351; June 21.
- Watches, Manufacturing blank movements of. H. Colomb. 1,629,257; May 17.
- Watches or clocks, Dial for. J. J. Guillardmod. Des. 73,227; Aug. 9.
- Watches or the like, Bracelet chain for wrist. A. Person. 1,630,498; May 31.
- Watches, Setting and winding mechanism for. C. H. H. Rodanet. 1,643,630; Sept. 27.
- Watches, Winding and setting mechanism for. J. G. Berger. 1,615,898; Feb. 1.
- Water and air tube connection. W. A. Smith. 1,653,071; Dec. 20.
- Water and other impurities from mineral or other oils or liquids, Separating. H. J. Holford. 1,635,845; July 12.
- Water, Apparatus for filtering and purifying. C. H. Perry. 1,628,510; May 10.
- Water bag. J. R. Moler. 1,629,728; May 24.
- Water barrier. W. H. Gillen. 1,632,545; June 14.
- Water-bottle stopper. H. P. Kraft. 1,641,594; Sept. 6.
- Water-carbonating apparatus. W. C. De Armond and W. Ray H. Watt. 1,645,320; Oct. 11.

- Water circulating systems, Composition for stopping leaks in hot-. G. I. May. 1,613,055; Jan. 4.
- Water-closet. G. R. Bell. 1,620,429; Mar. 8.
- Water-closet. W. Fröhlich. 1,654,520; Dec. 27.
- Water-closet. O. F. Karlsson. 1,628,887; May 17.
- Water-closet bend. E. W. N. Boosey. 1,624,653; Apr. 12.
- Water-closet, Marine. U. G. Lee. 1,625,950; Apr. 26.
- Water-closet, Marine. Ventilation of. S. R. Habault. 1,632,791; June 21.
- Water-closet seat. S. L. Eastburn. 1,628,830; May 17.
- Water-closet structure. E. Richardson. 1,636,649; July 19.
- Water-closets, Flush device for. R. Stickdon. 1,629,421; May 17.
- Water-closets, Seat for. J. K. Lang. 1,648,485; Nov. 8.
- Water-closets, Suction device for. J. D. Cameron. 1,622,993; Mar. 29.
- Water-closets, urinals, and the like, Tank for. E. G. Watrous. 1,644,622; Oct. 4.
- Water coils, Apparatus for preventing incrustation of. E. I. Ingles. 1,642,610; Sept. 13.
- Water-collecting device. C. W. Armbrust. 1,648,438; Nov. 8.
- Water-column alarm. W. H. Kuhn. 1,620,729; Mar. 15.
- Water cooler. F. A. Philipp. 1,627,574; May 10.
- Water cooler. H. Weiss. Des. 72,508; Apr. 19.
- Water cooler and refrigerating apparatus. E. A. Haas and M. Posey. 1,625,803; Apr. 26.
- Water cooling and filtering apparatus. N. Gymnaitis. 1,621,198; Mar. 15.
- Water-cooling systems, Heater for automobile. E. A. Turner. 1,637,596; Aug. 2.
- Water, Deaerating. G. H. Gibson. 1,618,424; Feb. 22.
- Water, Deaerating. G. H. Gibson. 1,645,132; Oct. 11.
- Water, Degassing. D. S. Jacobus. 1,650,129; Nov. 22.
- Water-distribution control, Automatic. E. Walker. 1,628,698; May 17.
- Water-elevating apparatus. T. E. Crockett. 1,642,990; Sept. 20.
- Water feeder, Boller. C. B. Haines. 1,636,559; July 19.
- Water fountain, Hog-. M. J. Horsch. 1,637,940; Aug. 22.
- Water from pond and the like, Removal of. O. Soderlund, T. Boberg, and N. Testrup. 1,624,769; Apr. 12.
- Water from petrol. Trap device for separating. N. A. Frean. 1,619,713; Mar. 1.
- Water gate. A. M. Amend. 1,654,476; Dec. 27.
- Water gate. K. F. Liljegen. 1,624,748; Apr. 12.
- Water gauge. M. Pekar. 1,630,630; May 31.
- Water-gauge connection, Self-adjusting. W. Rigney. 1,620,692; Mar. 15.
- Water gauge, Safety. W. M. Myers. 1,643,467; Sept. 27.
- Water heater. A. E. Ania. 1,643,533; Sept. 27.
- Water heater. H. Brand. 1,634,704; July 5.
- Water heater. W. Coates. 1,630,890; May 24.
- Water heater. T. P. Cronin. 1,641,532; Sept. 6.
- Water heater. L. F. Davis and L. W. Schneppe. 1,632,868; June 21.
- Water heater. J. Ellis. 1,638,624; Aug. 9.
- Water heater. E. Ercanbrack. 1,615,831; Feb. 1.
- Water heater. O. Fox. 1,623,658; May 24.
- Water heater. A. L. Hall. 1,636,907; July 26.
- Water heater. P. S. Hanton and J. Dick. 1,630,382; May 31.
- Water heater. B. D. Hodges and C. E. Owen. 1,621,013; Mar. 15.
- Water heater. H. S. Humphrey. 1,618,434; Feb. 22.
- Water heater. A. T. Johanson. 1,631,533; June 7.
- Water heater. G. G. Kitzeman. 1,617,601; Feb. 15.
- Water heater. G. C. Kitzeman. 1,654,275; Dec. 27.
- Water heater. C. L. Lewis. 1,635,093; July 5.
- Water heater. P. J. McGuane. 1,649,610; Nov. 15.
- Water heater. W. E. O'Brien. 1,643,854; Sept. 27.
- Water heater. H. W. O'Dowd. 1,639,748; Aug. 23.
- Water heater. G. F. Reichman. 1,615,486; Jan. 25.
- Water heater. L. W. Schneppe. 1,616,143; Feb. 1.
- Water heater. D. J. Shaffer. 1,625,268; Apr. 19.
- Water heater. B. W. Shuell. 1,634,388; July 5.
- Water heater. R. L. Shriner. 1,655,672; Dec. 27.
- Water heater. F. Soto. 1,629,844; May 24.
- Water heater. E. E. Spletter. 1,646,429; Oct. 25.
- Water heater. J. W. Storey. 1,618,735; Feb. 22.
- Water heater. W. J., E., and G. M. Towles. 1,628,341; May 10.
- Water heater. G. C. Vennum. 1,652,188; Dec. 13.
- Water heater and sterilizing apparatus, Combined. A. Martin. 1,619,146; Mar. 1.
- Water heater arrangement, Feed-. N. T. McKee. 1,630,400; May 31.
- Water heater arrangement, Feed-. N. T. McKee. 1,633,947; June 23.
- Water heater, Electric. L. W. Armstrong. 1,615,819; Feb. 1.
- Water heater, Electric. F. J. Cld. 1,645,277-8; Oct. 11.
- Water heater, Electric. A. Cote. 1,632,821; June 21.
- Water heater, Electric. E. E. Kittredge, J. A. Forster, and R. D. Johansen. 1,614,620; Jan. 18.
- Water heater, Electric. G. N. Madsen. 1,620,117; Mar. 8.
- Water heater, Electric. S. W. Malcolm. 1,618,101; Feb. 15.
- Water heater, Electric. A. Martin. 1,613,714; Jan. 11.
- Water heater, Electric. A. Martin. 1,621,800; Mar. 22.
- Water heater, Electric. T. H. McQuinn. 1,624,843; Apr. 12.
- Water heater, Electric. B. Midulla. 1,627,335; May 3.
- Water heater, Electric. S. D. Nesmith. Rel. 6,715-16; Aug. 23.
- Water heater, Electric. E. C. Steere. 1,630,909; May 31.
- Water heater, Electric. J. J. Underwood. 1,627,875; May 10.
- Water heater, Electric. W. W. Wainwright. 1,620,745; Mar. 15.
- Water heater, Electrical. H. W. Woodgate and F. W. Slade. 1,617,889; Feb. 15.
- Water heater, Electrically-operated. S. E. Nesmith. 1,640,048; Aug. 23.
- Water heater, Feed-. E. A. Averill. 1,617,891; Feb. 15.
- Water heater, Feed-. M. F. Cox. 1,627,595; May 10.
- Water heater, Feed-. A. L. Penniman, Jr. 1,621,268; Mar. 15.
- Water heater, Feed-. W. W. Phillips. 1,646,491; Oct. 25.
- Water heater, Feed-. H. J. Sternberg. 1,621,289; Mar. 15.
- Water heater, Immersible. S. M. Kass. 1,640,943; Aug. 30.
- Water heater of the storage type, Electric. A. E. Lewis. 1,622,951; Mar. 29.
- Water heater unit. L. R. Mendelson. 1,639,002; Aug. 16.
- Water heater, Unrestricted-return. J. E. Ercanbrack. 1,651,875; Dec. 6.
- Water-heater vent-pipe ceiling device. G. L. Wallace. 1,619,885; Mar. 1.
- Water heater, Vertical-type. J. E. Ercanbrack. 1,652,397; May 12.
- Water heaters, Latch for electric. C. Vandenberghe. 1,646,225; Oct. 18.
- Water-heating apparatus. F. W. Shuell. 1,637,395; Aug. 2.
- Water heating and deaerating. G. H. Gibson. 1,636,361; Apr. 12.
- Water-heating device. T. J. Farrington. 1,651,450; Dec. 6.
- Water-heating system. H. W. O'Dowd. 1,643,223; Sept. 20.
- Water-heating system. J. A. Powell. 1,621,853; Mar. 22.
- Water-heating system, Thermostatically-controlled. M. Resek. 1,621,601; Mar. 22.
- Water-heating unit, Electrical. M. Nerev. 1,648,588; Nov. 8.
- Water in oil emulsions, Resolving. E. E. Ayres, Jr. 1,646,339; Oct. 18.
- Water-level-controlling means. E. L. Martin. 1,619,350; Mar. 1.
- Water-level indicator, Boiler-. J. E. Doering. 1,652,001; Dec. 6.
- Water-lifting device. E. R., H. L., and M. C. Rose. 1,652,877; Dec. 13.
- Water meter. J. R. Winton. 1,646,513-4; Oct. 25.
- Water meter. E. G. Judson. 1,645,243; Oct. 11.
- Water meter. W. L. Marden. 1,632,554; June 14.
- Water meter, Irrigating and mining. G. W. Beattie. 1,634,011; June 28.
- Water motor. S. Adragna. 1,654,031; Dec. 27.
- Water motor. W. Keywood. 1,623,596; Apr. 26.
- Water motor. R. A. Robertson. 1,622,610; Mar. 29.
- Water of condensation and gases entrained therewith from steam-heating systems, Apparatus for withdrawing. J. L. Pitts and K. W. Rohlin. 1,621,529; Mar. 22.
- Water or air, Mixture of. A. Alexeff. 1,649,044; Nov. 15.
- Water-pipe cleaner. Hydraulic. D. J. McGeehin. 1,634,591; July 5.
- Water-power utility. I. Cummings. 1,635,820; July 12.
- Water-power wheel. G. E. Brooks. 1,622,365; Mar. 29.
- Water, Preparing a medium for treatment of. H. Reinbold. 1,646,596; Oct. 25.
- Water-pressure system. H. A. Young. 1,618,258; Feb. 22.
- Waterproof abrasive. H. R. Power. 1,615,231; Jan. 25.
- Waterproof abrasive fabric. F. J. Crup. 1,629,259; May 17.
- Waterproof abrasive fabric and making the same. F. J. Crup. 1,642,766; Sept. 20.
- Waterproof cap and fuse. J. B. Fletcher and O. S. Culver. 1,645,379; Oct. 11.
- Waterproof case. F. Archila. 1,619,782; Mar. 1.
- Waterproof composition and making same. C. E. Rahr and L. Kirschbraun. 1,616,821; Feb. 8.
- Waterproof composition and product produced thereby, Making. L. Kirschbraun. 1,621,791; Mar. 22.
- Waterproof compositions, Producing reinforced. W. H. Cady. 1,644,050; Oct. 4.
- Waterproof covering and making same. L. Kirschbraun. 1,644,652; Oct. 4.
- Waterproof fabric and its manufacture. J. S. Miller, Jr. 1,640,795; Aug. 30.
- Waterproof plastic. O. A. Collings. 1,650,864; Nov. 29.
- Waterproof product. L. Kirschbraun and W. H. Cady. 1,632,189; Apr. 5.
- Waterproof sheets, Making multiply. L. Kirschbraun. 1,616,901-2; Feb. 8.
- Waterproofing composition and making same. A. N. Nelsen. 1,628,370; May 10.
- Waterproofing composition and producing the same. T. A. Barr. 1,648,861; Nov. 8.
- Waterproofing vulcanized fiber. E. E. Novotny and C. J. Romieux. 1,616,062; Feb. 1.
- Water, Purification of. O. Lasche and O. T. Post. 1,614,135; Jan. 11.
- Water purifier. G. O. Baker. 1,647,495; Nov. 1.

- Water, Purifying. W. H. Green and A. S. Behrman. 1,653,272; Dec. 20.
- Water-purifying apparatus. H. B. Hartman. 1,613,998; Jan. 11.
- Water regulator. J. Müller. 1,638,053; Aug. 9.
- Water, Rotating endless screen belt for the mechanical purification of. E. Geiger. 1,629,572; May 24.
- Water skil. T. J. Lease. 1,628,368; May 10.
- Water softener. N. E. Brice and H. G. Snyder. 1,620,717; Apr. 15.
- Water softener. C. P. Eisenhauer. 1,634,409; July 5.
- Water softener. C. P. Eisenhauer. 1,646,581; Oct. 25.
- Water softener. O. W. Johnson. 1,628,541; May 10.
- Water softener. O. W. Johnson. 1,654,172; Dec. 27.
- Water softener. V. L. Tannehill. 1,626,055; Apr. 26.
- Water softener, Automatic. C. P. Eisenhauer. 1,625,198; Apr. 19.
- Water softener, Two-flow base exchange. C. T. McGill. 1,624,614; Apr. 12.
- Water softeners, Automatic control mechanism for. A. C. Hougland and L. G. Lindsay. 1,627,903; May 10.
- Water softeners, Control mechanism for. L. G. Lindsay. 1,632,610; June 14.
- Water-softening apparatus. K. W. Bartlett. 1,624,382; Apr. 12.
- Water-softening apparatus. C. P. Eisenhauer. 1,623,399; Apr. 5.
- Water-softening apparatus. C. P. Eisenhauer. 1,644,714; Oct. 11.
- Water-softening apparatus. C. P. Eisenhauer. 1,625,197; Apr. 19.
- Water-softening material, Preparing. G. W. Prather. 1,636,942; July 26.
- Water-softening reagent and preparing same. A. S. Behrman. 1,624,711; Apr. 12.
- Water-softening system. G. S. Apeldorn. 1,646,270; Oct. 18.
- Water-soluble neutral derivatives of dihydroxydiaminoarsenobenzol. Manufacture of. H. M. Wuest. 1,648,926; Nov. 15.
- Water sounding or measuring distance in. A. Behm. 1,649,878; Nov. 15.
- Water sport apparatus. B. L. Henry. 1,639,607; Aug. 16.
- Water still. E. V. Oliver. 1,629,807; May 24.
- Water-supply connection. W. J. Fennell. 1,642,672; Sept. 20.
- Water-supply system and valve therefor. J. H. Masters. 1,631,142; Jan. 7.
- Water system for making ice, Raw. J. A. Martocello. 1,638,776; Aug. 9.
- Water systems, Hydropneumatic controller for. G. Muffy. 1,628,265; May 10.
- Water tower for fire-fighting purposes. J. Zeiter. 1,644,972; Oct. 11.
- Water trap, Automatic. P. C. Ribes. 1,628,430; May 10.
- Water, Treating hard. G. Petroff and P. Shestakoff. 1,642,594; Sept. 13.
- Water treatment. G. H. Gibson and J. D. Yoder. 1,638,803; Aug. 9.
- Water, Treatment of. J. H. Harrington. 1,623,342; Apr. 5.
- Water, treatment of boiler. R. E. Hall. 1,613,701; Jan. 11.
- Water-tube boiler. A. C. Danks. 1,614,948; Jan. 18.
- Water-tube boiler. A. H. Esgieker. 1,615,006; Jan. 18.
- Water-tube boiler. K. Endo. 1,638,924; Aug. 16.
- Water-tube boiler. W. Hopf. 1,614,839; Jan. 18.
- Water-tube boiler. W. D. Hoxie. 1,636,960; July 26.
- Water-tube boiler. G. Lasker. 1,645,030; Oct. 11.
- Water-tube boiler. C. L. Roszak. 1,648,933; Oct. 25.
- Water-tube boiler. F. C. Stimmel. 1,628,005; May 10.
- Water-tube boiler. L. R. Stowe. 1,627,871; May 10.
- Water-tube boiler. G. C. Vennum. 1,618,141; Feb. 15.
- Water-tube heater. C. F. H. Almy. 1,614,767; Jan. 18.
- Water waver. P. H. Watson. 1,635,065; July 5.
- Water waver, Marcel. A. J. Greenwich. 1,637,816; Aug. 2.
- Water wheel. F. L. McQuiston. 1,645,996; Oct. 18.
- Waterer, Hog. F. F. Petrick. 1,640,292; Aug. 23.
- Waterer, Poultry. A. D. Lantz. 1,642,304; Sept. 13.
- Waterer, Stock. H. G. Zacht. 1,649,009; Nov. 15.
- Watering apparatus for cattle. K. Dickow. 1,640,649; Aug. 50.
- Watering areas of land, Apparatus for. D. Elder. 1,617,749; Feb. 15.
- Watering areas of land, Apparatus for. D. Elder. 1,637,413; Aug. 2.
- Watering device, Animal. G. E. Hazard. 1,646,246; Oct. 18.
- Watering tank, Stock. F. E. Pierson. 1,629,883; May 24.
- Water analysis, System for. F. X. Rettenmeyer. 1,636,436; July 19.
- Wave and tide motor. N. Hoshafan. 1,620,258; Mar. 8.
- Wave apparatus, Permanent-Marcel. E. Perry. 1,636,967; July 26.
- Wave-bath machine. J. B. Wanko. 1,621,819; Mar. 22.
- Wave energy, System for determining the direction of propagation of. F. A. Howard. 1,641,452; Sept. 6.
- Wave filter. T. E. Shea. 1,636,152; July 19.
- Wave filter, Electric. K. S. Johnson. 1,647,634; Nov. 1.
- Wave filter, Electrical. R. W. De Monte and T. E. Shea. 1,654,071; Dec. 27.
- Wave filter, Electrical. O. J. Zobel. 1,615,252; Jan. 25.
- Wave filter, Electrical. O. J. Zobel. 1,644,004; Oct. 4.
- Wave filter receiving circuits. P. Welch and A. Murphy. 1,638,608; Aug. 9.
- Wave length. Device for altering the. S. Loewe. 1,643,782; Sept. 27.
- Wave lengths, Adjustment of. G. H. Clark. Re16,651; June 14.
- Wave lengths, Changing. G. Hill and G. H. Clark. 1,639,696; Aug. 23.
- Wave meter. J. O. Mauborgne and G. Hill. 1,632,982; June 21.
- Wave modulating. J. F. Farrington. 1,647,988; Nov. 8.
- Wave modulation. J. W. Horton. 1,639,000; Aug. 16.
- Wave motion for the propulsion of ships and their auxiliary machinery, Utilizing. T. R. Bean and R. E. Taudvin. 1,622,173; Mar. 22.
- Wave motor. W. G. Bloss. 1,617,568; Feb. 15.
- Wave motor. H. L. Booth. 1,625,519; Apr. 19.
- Wave motor. S. B. Caldwell. 1,617,571; Feb. 15.
- Wave motor. J. J. and W. J. Mann and M. H. Van Coeverden. 1,624,349; Apr. 12.
- Wave motor. F. Stich. 1,647,025; Oct. 25.
- Wave signaling system. L. A. Hazeltine. 1,648,808; Nov. 8.
- Wave signaling system. L. A. Hazeltine. 1,650,353; Nov. 22.
- Wave signaling system, Electric. J. C. Schelleng. 1,653,878; Dec. 27.
- Wave signaling system, Modulated carrier. H. S. Black. 1,654,875; Dec. 27.
- Wave-transmitting means, Electric. W. S. Gorton. and J. Moore. 1,654,232; Dec. 27.
- Wave-transmission system. R. V. L. Hartley. 1,632,069; June 14.
- Wave transmission system. E. L. Norton. 1,642,506; Sept. 13.
- Wave-transmission system and apparatus. A. S. Curtis. 1,636,765; July 26.
- Wave transmission system, Two-way. J. F. Farrington. 1,632,282; June 14.
- Waving hair. F. Parker. Re16,546; Feb. 8.
- Waving hair, Apparatus for. A. O'Brien. 1,646,831; Oct. 25.
- Waving hair, Method of and apparatus for. M. Clemence. 1,637,605; Aug. 2.
- Waves in hair, Device for placing. C. S. Ackley. 1,652,751; Dec. 13.
- Waves in radiofrequency circuits, Arrangement for eliminating distributing. M. Osnoa. 1,651,998; Mar. 22.
- Waves, Receiving system for compressional. H. G. Dorsey. 1,625,245; Apr. 19.
- Wax and the products resulting from same, Treating. O. E. Enell. 1,646,280; Oct. 18.
- Wax-applying tool. H. L. Gibson. 1,619,817; Mar. 8.
- Wax emulsion. L. Davis and E. W. Bennett. 1,637,475; Aug. 2.
- Wax, Finish remover containing. O. E. Enell. 1,646,281; Oct. 18.
- Wax on oil, Process and apparatus for removing. S. H. Hall. 1,616,041; Feb. 1.
- Wax sweating and crystallizing apparatus. H. L. Allan. 1,653,837; Dec. 27.
- Wax-sweating systems, Apparatus for regulating. S. S. Amursky. 1,636,730; July 26.
- Wax, Transparent sealing. J. Prikelmayer. 1,638,960; Aug. 16.
- Waxer and polisher. J. S. Judge. 1,632,481; June 14.
- Waxer, Floor. J. H. Millholland. 1,638,500; Aug. 9.
- Waxing machine and the like. S. J. Blum. 1,618,799; Feb. 22.
- Weaner, Calif. R. R. Sidders. 1,616,203; Feb. 1.
- Weapon. G. Ebert. 1,614,353; Jan. 11.
- Wear-compensating bolt. G. C. Monckmeier. 1,624,499; Apr. 12.
- Wear-compensating bolt. G. C. Monckmeier. 1,627,401; May 3.
- Wearing apparel. R. J. O. Simpson. 1,648,153; Nov. 8.
- Wearing apparel, Collar and like article of. E. Higgins. 1,652,131; Dec. 6.
- Weather shield and glare visor. O. E. Grigsby. 1,615,078; Jan. 18.
- Weather strip. J. J. Burroughs. 1,629,017; May 17.
- Weather strip. J. G. S. Hall. Re16,770; Oct. 11.
- Weather strip. J. G. S. Hall. 1,628,665; May 17.
- Weather strip. O. Kresser. 1,652,628; Dec. 13.
- Weather strip. W. Marshall. 1,613,044; Jan. 4.
- Weather strip. S. W. Nicholson. 1,641,191; Sept. 6.
- Weather strip. C. A. Pipehagen. 1,622,393; Mar. 29.
- Weather strip. E. and H. S. Ray. 1,646,559; Oct. 25.
- Weather strip. A. C. Schnake. 1,629,842; May 24.
- Weather strip. A. C. Schnake. 1,642,176-7; Sept. 13.
- Weather strip. A. J. and A. R. P. Spanjers. 1,648,787; Nov. 8.
- Weather strip. O. C. Watkins. 1,624,295; Apr. 12.
- Weather strip and guide. F. W. and O. W. Brazell. 1,619,915; Mar. 8.
- Weather strip, Automatic. A. Wonsowicz. 1,613,496; Jan. 4.
- Weather strip, Automatic. R. Lerch. 1,649,070; Nov. 15.
- Weather strip for automobile doors. J. Ledwinka. 1,644,682; Oct. 11.
- Weather strip for insulating casements. F. Reese. 1,619,037; Mar. 1.
- Weather strip for sliding closures. E. J. Cook. 1,641,157; Sept. 6.
- Weather-strip unit. D. Kulage. 1,646,155; Oct. 18.

- Weather stripping. M. E. Bosley. 1,625,764; Apr. 19.
- Weaving. J. R. Lister. 1,643,817; Sept. 27.
- Weaving device. H. Zenker. 1,615,805; Jan. 25.
- Weaving. Heddle for jacquard. R. A. Machon. 1,648,439; Nov. 8.
- Weaving narrow-width ware and machine for carrying out such method. B. Renshaw. 1,622,542; Mar. 29.
- Weaving, Nipper for tuft. E. F. Hathaway. 1,635,670; July 12.
- Weaving. Tube frame for tuft. E. F. Hathaway. 1,615,167; Feb. 22.
- Web-coating apparatus. C. C. Colbert and G. E. Preston. 1,632,885; June 21.
- Web feeding and cutting mechanism. G. A. Bresett. 1,631,094; May 31.
- Web-feeding mechanism. J. S. Coldwell. 1,640,532; Aug. 30.
- Web-feeding mechanism. L. Jensen. 1,627,905; May 10.
- Web-feeding mechanism. J. E. Meyer. 1,630,713; May 31.
- Web-feeding mechanism. J. K. Robertson and S. Duerden. 1,617,419; Feb. 15.
- Web of flexible material while changing from one web roll to another. Uninterruptedly feeding a. W. C. Scott. 1,623,277; Apr. 5.
- Web-replenishing mechanism. W. C. Scott. 1,651,840; Dec. 6.
- Web-roll tension devices, Brake for. H. W. Wood and C. Nordfors. 1,623,992; Apr. 12.
- Web rolls, Wrinkle remover for. E. G. Beveridge. 1,638,560; Aug. 9.
- Web-supplying system. J. S. Coldwell. 1,640,533; Aug. 30.
- Web-winding machine. N. Marcalus. 1,628,323; May 10.
- Webs into lengths, Mechanism for severing moving. W. E. Molins. 1,651,096; Nov. 29.
- Wedding ring. W. Pels. Des. 72,072; Feb. 22.
- Wedge. T. L. E. Haug. 1,637,771; Aug. 2.
- Weed and grass cutter. F. J. Haas. 1,625,081; Apr. 19.
- Weed and root extractor. J. R. Kovar. 1,647,832; Nov. 1.
- Weed cutter and cultivator, Combined. G. M. Carkey. 1,632,883; June 21.
- Weed-cutting device. W. L. Paul. 1,628,422; May 10.
- Weed-destroying composition. H. E. Hughes. 1,629,819; Dec. 24.
- Weed eradicator. F. K. Carrick. 1,634,172; June 28.
- Weed eradicator. J. Hanson. 1,618,997; Jan. 11.
- Weed killer. W. D. Barnard. 1,624,033; Apr. 12.
- Weed puller. G. R. Simpson. 1,640,732; Aug. 30.
- Weeder. J. W. Gibbs. 1,641,032; Aug. 30.
- Weeder. J. H. Imus. 1,637,862; Aug. 2.
- Weeder. M. D. Kast. 1,631,733; June 7.
- Weeder. F. Patterson. 1,642,261; Sept. 13.
- Weeder. J. F. Snider. 1,653,518; Dec. 20.
- Weeder. A. Suck and J. H. Thiemann. 1,614,808; Jan. 18.
- Weeder. J. A. Talbot. 1,646,168; Apr. 19.
- Weeder. C. A. Warren. 1,644,098; Oct. 4.
- Weeder and cultivator. G. C. Haley. 1,645,483; Oct. 11.
- Weeder and the like. D. W. Bartlebaugh. 1,634,606; July 5.
- Weeding and cultivating implement. D. E. Richardson. 1,645,115; Oct. 11.
- Weeding, cultivating, and like purposes, Tool for. J. F. Raymond. 1,640,094; Aug. 23.
- Weeding implement. J. J. Kearns. 1,627,038; May 3.
- Weeding machine. R. M. Adams. 1,647,680; Nov. 1.
- Weeding machine. A. Christensen and A. W. Warsen. 1,620,594; Mar. 8.
- Weeding machine. O. R. Saunders. 1,635,098; July 5.
- Weeds, Composition for killing certain. R. T. Holmes. 1,625,608; Apr. 19.
- Weft detecting and transferring mechanism, Combined. A. J. Chevette. 1,654,112; Dec. 27.
- Weft-detecting mechanism. A. A. Gordon. 1,647,728; Nov. 1.
- Weft-detecting mechanism. W. H. Wakefield. 1,647,718; Nov. 1.
- Weft detector, Box-motion-controlled electromagnet. W. H. Wakefield. 1,639,822; Aug. 23.
- Weft detector controlled by box motion, Electrical. W. H. Wakefield. 1,647,720; Nov. 1.
- Weft detector controlled by box motion, Pneumatic. W. H. Wakefield. 1,647,719; Nov. 1.
- Weft detector controlled by box motion, Yarn-impinging lay-acruated. W. H. Wakefield. 1,639,823; Aug. 23.
- Weft detector controlled by pattern mechanism. W. H. Wakefield. 1,639,824; Aug. 23.
- Weft detector for regularly moving transferer arms. K. J. Unwin. 1,651,107; Nov. 29.
- Weft detector, Multiple-needle. O. V. Payne. 1,651,100; Nov. 29.
- Weft detectors, Withdrawing means for side-slips. W. H. Wakefield. 1,652,593; Dec. 13.
- Weft exhaustion, Device to delay transmission of an indication of. A. A. Gordon. 1,639,845; Aug. 23.
- Weft fork and grid cleaner, Combined. W. H. Nix and J. McDaniel. 1,651,148; Nov. 29.
- Weftless cord fabric, Manufacture of. M. Castricum. 1,619,191; Mar. 1.
- Weigh pan. J. P. Vogel. 1,622,984; Mar. 29.
- Weigher. Automatic. F. Hebben. Re16,666; July 5.
- Weighing and filling machine. L. D. Nelson. 1,628,178; May 10.
- Weighing apparatus. W. A. Benton. 1,634,444; July 5.
- Weighing apparatus. W. H. Rees. 1,615,405; Jan. 25.
- Weighing apparatus. W. H. Rees. 1,615,485; Jan. 25.
- Weighing apparatus. F. C. C. Vogel. 1,615,248; Jan. 25.
- Weighing apparatus and the like, Stay connection for. E. L. Blick. 1,631,358; June 7.
- Weighing apparatus, Continuous. A. F. Cooke. 1,638,244; Aug. 9.
- Weighing apparatus, Liquid-. J. M. Rowland. 1,625,825; Apr. 26.
- Weighing apparatus with tare weighing, Automatic. B. Boulogne. 1,633,625; June 28.
- Weighing apparatus with weighing carrier, Automatic. B. Boulogne. 1,651,407; Dec. 27.
- Weighing conveyer. J. J. Reddick. 1,617,301; Feb. 8.
- Weighing device. H. Allison. 1,628,762; May 17.
- Weighing device. H. C. Schaper. 1,623,276; Apr. 5.
- Weighing device, Automatic. J. B. Van Deren. 1,613,684; Jan. 11.
- Weighing machine. G. H. Bent. 1,631,117; June 7.
- Weighing machine. A. Bousfield. 1,652,810; Dec. 13.
- Weighing machine. J. L. Echaniz and F. G. Mansilla. 1,647,038; Oct. 25.
- Weighing machine. W. Pütz. 1,613,192; Jan. 4.
- Weighing machine. M. H. Starr. 1,627,124; May 3.
- Weighing machine, Automatic. P. Durand. 1,625,799; Apr. 26.
- Weighing machine, Automatic-. J. Markman. 1,644,260; Oct. 4.
- Weighing machine, Automatic. R. R. West. 1,623,820; Oct. 5.
- Weighing machine, Automatic liquid-. J. J. Fortier. 1,631,957; June 14.
- Weighing machine, Fur-. F. P. Mansbendel. 1,623,629; Apr. 5.
- Weighing machine, Tin-plate-. J. M. Hotherhall. 1,649,231; Nov. 15.
- Weighing mechanism. H. L. Merrick. 1,616,503; Feb. 8.
- Weighing mechanism. H. L. Merrick. 1,652,178; Dec. 13.
- Weighing mechanism. Recording. J. Holm. 1,632,006; Jan. 14.
- Weighing Method and apparatus for. J. Lundgren. 1,647,923; Nov. 1.
- Weighing moving material. M. Castricum. 1,646,950; Oct. 25.
- Weighing sheet material, Device for. E. G. Thomas. 1,619,183; Mar. 1.
- Weight and buffer, Combined whip. C. W. Lewis. 1,625,552; Apr. 19.
- Weight-changing device for top-roll-saddle mechanism. W. H. Brigrman. 1,613,557; Jan. 4.
- Weight indicator. A. A. Caille. 1,638,524; Aug. 9.
- Weir, Adjustable. F. A. and J. A. Milliff. 1,620,164; Mar. 8.
- Weld rod and arc welding with the same. J. C. Miller. 1,643,254; Sept. 20.
- Welded beam. C. Schenck. 1,620,293; Mar. 8.
- Welded spring structure. H. A. Houston and V. J. Shepard. 1,619,346; Mar. 1.
- Welding structure and making same. G. O. Carter. 1,620,324; Mar. 8.
- Welding. O. H. Eschholz. 1,615,686; Jan. 25.
- Welding. E. A. Nelson. 1,624,501; Apr. 12.
- Welding and article produced thereby. W. Dishong. 1,625,656; May 24.
- Welding and cutting apparatus. F. W. Becker. 1,633,359; June 21.
- Welding and cutting system, Electric-arc. C. J. Holslag. 1,621,068-70; Mar. 15.
- Welding and cutting apparatus. W. C. Buckman. 1,615,893; Oct. 18.
- Welding and electrode-guiding machine, Autogenous. H. Busckist-Scharnweber. 1,644,896; Oct. 11.
- Welding and product thereof. W. G. Allan. 1,626,774; May 3.
- Welding and the like, Electric. L. H. Hoffer. 1,620,206; Mar. 8.
- Welding apparatus. A. Krebs. 1,613,326; Jan. 4.
- Welding apparatus, Automatic arc. O. H. Eschholz. 1,615,687; Jan. 25.
- Welding apparatus, Electric. E. V. Gibbons. 1,618,080; Feb. 15.
- Welding apparatus, Electric. E. J. von Henke. 1,626,769; May 3.
- Welding apparatus, Electric. L. H. Hoffer. 1,648,177; Nov. 8.
- Welding apparatus, Electric. F. P. McBerty. 1,640,244; Aug. 23.
- Welding apparatus, Electric. R. Mack. 1,636,676; July 19.
- Welding apparatus, Electric. J. W. Meadowcroft. 1,635,583; July 12.
- Welding apparatus, Electric-arc. J. H. Ezendam. 1,635,208; July 12.
- Welding apparatus, Electric arc. H. P. Himes. 1,623,344; Apr. 5.
- Welding apparatus, Electric-arc. H. D. Morton. 1,645,563; Nov. 8.
- Welding apparatus, Electric-spot. J. Ledwinka. 1,645,705; Oct. 18.
- Welding, Apparatus for arc. H. D. Morton. 1,648,561; Nov. 8.
- Welding apparatus, Metallic-arc-. F. C. Owen. 1,635,382; Dec. 27.
- Welding apparatus, Pipe-. F. P. Ofner and W. H. Nourse. 1,623,434; Apr. 5.

- Welding apparatus, Truck for supporting electric. R. Mattice. 1,612,980; Jan. 4.
- Welding appliance, Electric. J. W. Wilkinson. 1,636,266; July 19.
- Welding, Arc. G. T. Herald. 1,648,683; Nov. 8.
- Welding, Arc. E. B. Paxton. 1,635,764; July 12.
- Welding, Arc. R. Stresau. 1,658,892; Aug. 16.
- Welding by means of an electric arc, Butt. W. F. Heineman. 1,653,565; Dec. 20.
- Welding control method and means Electric-arc. H. D. Morton. 1,648,562; Nov. 8.
- Welding copper and aluminum. J. V. Capicotto. 1,636,656; July 19.
- Welding device and operating the same, Automatic electric-arc. H. D. Morton. 1,634,624; July 5.
- Welding, Electric. V. J. Chapman. 1,640,437; Aug. 30.
- Welding, Electric. R. Mattice. 1,634,675; July 5.
- Welding, Electric. E. Thomson. 1,637,063; July 26.
- Welding, Electric. H. W. Tobey. 1,637,031; July 26.
- Welding, Electric-arc. H. P. Himes. 1,638,329; Aug. 9.
- Welding, Electric-arc. H. D. Morton. 1,648,560; Nov. 8.
- Welding, Electric-arc. R. L. Shipman. 1,616,145; Feb. 1.
- Welding electrode, Guide and conductor for. H. D. Morton. 1,620,220; Mar. 8.
- Welding electrodes, Holder for electric-. C. J. Kotchi. 1,621,512; Mar. 22.
- Welding electrodes, Manual holder for arc-. A. Marland. 1,643,929; Sept. 27.
- Welding fixture. F. J. Jarecki. 1,642,549; Sept. 13.
- Welding furnace. H. B. Groninger. 1,617,804; Feb. 15.
- Welding hollow shafts. C. W. Spicer. 1,629,127; May 17.
- Welding machine, Arc-. G. C. Hubble. 1,628,148; May 10.
- Welding machine, Arc-. J. S. Skelly. 1,653,376; Dec. 20.
- Welding machine, Arc-. H. R. Woodrow. 1,638,024; Aug. 9.
- Welding machine, Automatic electric. J. W. Meadowcroft. 1,620,274; Mar. 8.
- Welding machine, Electric. J. Kahn. 1,623,249; Apr. 5.
- Welding machine, Electric. J. W. Meadowcroft. 1,635,582; July 2.
- Welding machine, Electric. J. W. Meadowcroft. 1,645,710; Oct. 18.
- Welding machine, Electric-arc-. V. A. Nelson. 1,622,251; Mar. 22.
- Welding machine, Electric tube-. G. V. Johnston. 1,635,461; Dec. 13.
- Welding machine for use in. F. J. Jarecki. 1,642,548; Sept. 13.
- Welding machine, Tube-. D. W. Chisholm. 1,637,679; Aug. 2.
- Welding machines, Electrode-operating means for. E. Schroder. 1,617,770; Feb. 15.
- Welding machines, Electrode-automatic current control for. J. B. Borgardt. 1,651,438; Dec. 6.
- Welding machines, Torch mechanism for. C. L. Stancliff. 1,623,503; Apr. 5.
- Welding metal strands, Method of and apparatus for. J. W. Fay and C. Wales. 1,639,653; Aug. 23.
- Welding, Metallic arc. R. Stresau. 1,643,227; Sept. 20.
- Welding, Method and apparatus for. J. F. Lawson. 1,643,307; Sept. 27.
- Welding, Method and machine for electric. H. D. Madden. 1,613,957; Jan. 11.
- Welding, Method of and apparatus for. P. E. Hunter. 1,628,245; May 10.
- Welding or soldering device, Electric. R. E. Gearhart. 1,638,301; Aug. 9.
- Welding, Resistance-line. E. M. Hewlett. 1,640,449; Aug. 30.
- Welding rod. J. B. Green. 1,632,546; June 14.
- Welding rod. O. L. Mills. 1,650,905; Nov. 29.
- Welding-rod holder. C. M. Miller. 1,621,745; Mar. 22.
- Welding rods, Machine for making. W. F. Stoodly. 1,640,859; Aug. 30.
- Welding sheet-metal panels, Jig for electric. J. W. Meadowcroft. 1,645,711; Oct. 18.
- Welding, soldering, or the like, Machine for electric. E. J. Languepin. 1,622,792; Mar. 29.
- Welding structural members. F. H. Moyer. 1,646,074; Oct. 25.
- Welding system, Alternating-current. J. R. Brueckner. 1,640,877; Aug. 30.
- Welding system, Arc-. A. K. Harford. 1,645,049; Oct. 11.
- Welding systems, Engine controller for. R. E. Frickey and A. S. Klenborn. 1,643,550; Sept. 27.
- Welding transformer. C. B. Waters. 1,618,497; Feb. 22.
- Welding, Tungsten. C. W. Balke. 1,651,662; Dec. 6.
- Welding, Uniting butted edges of metal parts by. J. Clark. 1,654,037; Dec. 27.
- Welding, Weld rod for arc. C. B. Langstroth and G. G. Vunder. 1,602,274; Sept. 20.
- Welding wire-rod ends. A. S. Rairden. 1,649,855; Nov. 22.
- Well. F. R. Hyer. 1,647,630; Nov. 1.
- Well-boring apparatus, Rotary deep-. C. E. Reed. 1,653,028; Dec. 27.
- Well-boring machine. C. Wild. 1,643,731; Sept. 27.
- Well casing. D. B. Doty. 1,647,907; Nov. 1.
- Well casing. A. C. Helm. 1,613,105; Jan. 4.
- Well-casing cutter. E. Ventresca. 1,632,015; June 14.
- Well casings, Support for. F. M. Crowell. 1,646,639; Oct. 25.
- Well crib. W. V. McClure. 1,636,610; July 19.
- Well drill. O. M. Carter. 1,617,043; Feb. 8.
- Well drill. C. Wild. 1,643,730; Sept. 27.
- Well drill, Rotary. E. S. Hutton. 1,638,337; Aug. 9.
- Well drill, Rotary. O. E. Murphy. 1,647,740; Nov. 1.
- Well drill, Rotary. J. T. Phinns. 1,615,596; Jan. 25.
- Well drill, Soft-formation. H. W. Fletcher. 1,638,253; Aug. 9.
- Well drilling. W. Sheldon. 1,633,134; June 21.
- Well-drilling apparatus, Deep-. C. A. Butler. 1,650,426; Dec. 6.
- Well-drilling apparatus. T. S. Dietle. 1,629,024; May 17.
- Well-drilling apparatus. J. W. MacClatchie. 1,633,945; June 28.
- Well-drilling apparatus. F. A. Philbrick. 1,642,628; Sept. 13.
- Well-drilling apparatus, W. Sheldon. 1,628,282; May 10.
- Well-drilling apparatus. C. L. Skinner. 1,652,059; Dec. 6.
- Well-drilling apparatus, Rotary. E. A. Reed. 1,632,713; June 14.
- Well-drilling apparatus, Weight-indicating device for. G. A. Montgomery. 1,616,194; Feb. 1.
- Well-drilling machine. H. G. Parr. 1,650,534; Nov. 22.
- Well drilling, Making production tests in. G. A. Maccready. Re16,563; Mar. 1.
- Well-drilling rigs, Sand reel for. E. Timbs, L. E. Zerbe, and F. von Schlegell. 1,646,123; Oct. 18.
- Well drilling, Underreamer for. E. A. Hardison. 1,615,379; Jan. 25.
- Well drills, Reamer for rotary. L. Aldrin. 1,640,341; Aug. 30.
- Well elevator. J. Grant. 1,653,095; Dec. 20.
- Well point. T. F. Moore. 1,648,587; Nov. 8.
- Well points, Making. T. C. Thomas. 1,625,340; Apr. 19.
- Well-pumping apparatus. J. Fitzpatrick. 1,649,454; Nov. 15.
- Well-pumping apparatus. J. B. Hawley, jr. 1,641,329; Sept. 6.
- Well-production apparatus. F. B. Vaughn and I. Thomas. 1,626,057; Apr. 26.
- Well rigging. W. D. Giles. 1,621,009; Mar. 15.
- Well screen. H. E. Hanson. 1,638,731; Aug. 9.
- Well screen. H. White. 1,648,925; Nov. 15.
- Well screen casing. H. White. 1,615,495; Jan. 25.
- Well-sealing device. H. H. Breene. 1,632,271; June 14.
- Well strainers, Sand tester for. J. H. McEvoy, jr. 1,613,460; Jan. 4.
- Well-testing tool. C. T. Neitzel. 1,625,140; Apr. 19.
- Well tubing, Automatic catching device for. S. V. Dillon. 1,629,261; May 17.
- Well tubing, Catching device for. S. V. Dillon. 1,629,262-3; May 17.
- Well-water-lifting device. W. E. Franklin. 1,616,219; Feb. 1.
- Wells, Apparatus for measuring depths of. C. E. Van Orstrand. 1,639,973; Aug. 23.
- Wells, Apparatus for plugging. M. M. Kinley. 1,631,419; June 7.
- Wells, Apparatus for sinking and cleaning oil and water. M. A. King. 1,639,852; Aug. 23.
- Wells, Automatic tubing catcher for. R. A. Wilson. 1,622,255; Sept. 13.
- Wells, Casing for artesian. A. Paulsen. 1,645,719; Oct. 18.
- Wells, Device for cementing. A. Boynton. 1,641,915; Sept. 6.
- Wells, Gas anchor for oil. F. P. Jones. 1,639,734; Aug. 23.
- Wells, Gas-energy-control head for oil. E. V. Crowell. 1,625,883; Apr. 26.
- Wells, Making and maintaining. P. S. Judy. 1,642,245; Sept. 13.
- Wells, Method and apparatus for drilling. E. Smith. 1,612,889; Jan. 4.
- Wells, Method of and apparatus for pumping. I. B. Winsor. 1,637,629; Aug. 2.
- Wells, Oil-flowing device for. W. R. Hauswirth. 1,633,325; June 21.
- Wells, Pressure-relief mechanism for. W. D. Egenhoff. 1,623,886; Apr. 5.
- Wells, Separating apparatus for. C. H. M. Roberts. 1,651,963; Dec. 6.
- Well and metal container, Combined finishing. R. C. Schemmel. 1,651,910; Dec. 6.
- Well-attaching method and product. J. R. Oliver. 1,612,940; Jan. 4.
- Well, Finishing. D. A. Emery. 1,617,581; Feb. 15.
- Well, Filling machine. A. H. Havir. 1,622,281; Mar. 29.
- Wellting. E. W. Arnold. 1,654,204; Dec. 27.
- Wellting, Apparatus for use in handling. G. E. Warren. 1,620,790; Mar. 15.
- Wheaten cereals, Heat treatment of. R. Hutchinson. 1,634,259; July 5.
- Wheel: See—
- Abrasive wheel.
 - Auto wheel.
 - Automobile wheel.
 - Band-saw wheel.
 - Bicycle wheel.
 - Buffing wheel.
 - Car wheel.
 - Cast wheel.
 - Caster wheel.
 - Compound wheel.
 - Cooling wheel.
 - Cushion wheel.
 - Demountable wheel.
 - Die-cutting wheel.
 - Disk wheel.
 - Dressing wheel.
 - Driving wheel.
 - Dual-tired wheel.
 - Elastic wheel.
 - Fan wheel.
 - Fifth wheel.
 - Figure wheel.

Wheel: See—

Flexible wheel. Sludging wheel.
Grinding wheel. Spinning wheel.
Gyal wheel. Spoked wheel.
Last-scouring wheel. Spring wheel.
Leaning wheel. Sprocket wheel.
Metal wheel. Spunding wheel.
Pneumatic wheel. Steering drive wheel.
Polishing or buffer wheel. Steering wheel.
Polishing wheel. Supporting wheel.
Power wheel. Suspension wheel.
Pulley wheel. Traction wheel.
Punctureproof cushion wheel. Tread wheel.
Pyrotechnic wheel. Trolley wheel.
Reinforced wheel. Truck wheel.
Resilient disk wheel. Tubular spoked wheel.
Resilient wheel. Vehicle wheel.
Rim wheel. Water-power wheel.
Road tired wheel. Water wheel.
Road wheel. Whistle pin wheel.
Roller-bearing free wheel. Wire wheel.
Scouring wheel.
Wheel. Y. Bendix. 1,652,752; Dec. 13.
Wheel. J. Bolick. 1,630,651; May 31.
Wheel. G. and P. Christia. 1,634,454; July 5.
Wheel. T. G. Dade. 1,643,700; Sept. 27.
Wheel. F. De Luca. 1,624,780; Apr. 12.
Wheel. J. R. Eaid. 1,617,442; Feb. 15.
Wheel. J. W. Ester. 1,648,709; Nov. 8.
Wheel. G. F. Honold. 1,613,829; Jan. 11.
Wheel. E. R. Jacobi and E. H. Le Jeune. 1,650,794; Nov. 29.
Wheel. G. E. Jones, sr. 1,643,460; Sept. 27.
Wheel. W. F. Kasper. Rel. 1,650,520; Jan. 4.
Wheel. W. F. Kasper. 1,615,709; May 25.
Wheel. B. J. Keelan. 1,620,897; Mar. 15.
Wheel. L. E. La Brie. 1,637,527; Aug. 2.
Wheel. F. L. Lawrence. 1,643,248; Sept. 20.
Wheel. D. H. Ludlow. 1,636,310; July 19.
Wheel. H. V. Ludwick. 1,634,786; July 5.
Wheel. H. V. Ludwick. 1,648,936; Oct. 25.
Wheel. W. B. Minch. 1,623,355; Apr. 5.
Wheel. H. P. Nielsen. 1,636,483; July 19.
Wheel. S. I. Prescott and F. J. Rummier. 1,626,355; Apr. 26.
Wheel. E. J. W. Ragsdale. 1,627,202; May 3.
Wheel. F. C. Schoenthal. 1,638,646; Aug. 9.
Wheel. C. A. Smith. 1,649,552; Nov. 15.
Wheel and axle. H. W. Sanford. 1,618,848; Feb. 22.
Wheel and brake drum. T. E. Murray. 1,624,112; Apr. 12.
Wheel and brake-drum structure. Vehicle. P. A. White. 1,641,309; Sept. 6.
Wheel and crank. G. F. Honold. 1,619,024; Mar. 1.
Wheel and demountable rim. J. G. Swain. 1,643,188; Sept. 20.
Wheel and demountable rim. J. G. Swain. 1,649,772; Nov. 15.
Wheel and demountable rim. C. S. Watkins. 1,612,957; Jan. 4.
Wheel and rim therefor. Disk. W. E. Williams. 1,639,322; Aug. 16.
Wheel and throttle lock. Ford. R. V. Behning. 1,623,029; Mar. 29.
Wheel assembly, Fifth-. G. C. Henderson. 1,627,176; May 3.
Wheel-attaching device. W. P. Shuffleton. 1,635,389; July 12.
Wheel attachment. J. V. Laughland. 1,621,513; Mar. 22.
Wheelbarrow. J. H. Nussel. 1,616,329; Feb. 1.
Wheelbarrow. I. R. Smith. 1,622,354; Mar. 29.
Wheelbarrow. I. R. Smith. 1,630,975; May 31.
Wheelbarrow. I. R. Smith. 1,645,966; Oct. 18.
Wheelbarrow attachment. L. A. Knight. 1,618,443; Feb. 22.
Wheelbarrow, Garden. B. Privat. 1,631,333; June 7.
Wheelbarrow or like wheel. O. H. Hawley. 1,615,760; Jan. 25.
Wheelbarrows, Combined wheel scraper and brace for. L. W. Walker. 1,643,374; Nov. 8.
Wheel block. W. W. Blakely. 1,617,389; Feb. 15.
Wheel block. C. A. Goodspeed. 1,621,504; Mar. 22.
Wheel brake. A. Patus and L. Nagy. 1,629,407; May 17.
Wheel brake. R. H. Rosenberg. 1,646,932; Oct. 25.
Wheel brake. F. M. Sarff. 1,617,276; Feb. 8.
Wheel brake, Front. J. A. Herzer. 1,614,742; Jan. 18.
Wheel chain, Foldable. E. Fargson. 1,650,826; Nov. 29.
Wheel check. C. H. Fennell. 1,617,339; Feb. 15.
Wheel check. O. W. Turnbaugh. 1,623,895; Apr. 19.
Wheel-cleaning device. D. C. Mulvihill. 1,625,137; Jan. 26.
Wheel cleat. M. M. Yore. 1,617,282; Feb. 8.
Wheel cleat, Traction-. W. C. Anderson. 1,636,731; July 26.
Wheel construction, Cast-. G. H. E. Petersen. 1,615,847; Feb. 1.
Wheel construction, Cast-. N. S. Reed. 1,626,211; Apr. 6.
Wheel construction, Fifth-. I. H. Judd. 1,634,945; July 5.
Wheel construction, Front-. E. R. Gurney. 1,641,224; Sept. 6.
Wheel construction, Metal. E. E. Einfield. 1,627,772; May 10.

Wheel construction, Steerable. E. H. Remde. 1,623,554; Apr. 5.
Wheel counterbalance, Band-. R. R. Bloss. 1,651,944; Dec. 6.
Wheel-dressing mechanism. H. E. Kempton. 1,631,596; June 7.
Wheel disk and method of manufacture. W. E. Williams. 1,650,780; Nov. 29.
Wheel disks, Roll for making tapered. E. G. Budd and J. H. Hunt. 1,647,853; Nov. 1.
Wheel-equalized traction unit, Four-. E. H. Babel and R. L. Owen. 1,627,225; May 3.
Wheel for grinding heads. L. Crane. 1,616,889; Feb. 8.
Wheel for motor and other vehicles, Resilient. C. Newman. 1,616,506; Feb. 8.
Wheel gauge. O. H. Barnes. 1,638,723; Aug. 9.
Wheel guard. L. R. Ferguson. 1,644,055; Oct. 4.
Wheel guard, Grinding. E. Ritz. 1,638,459; Aug. 9.
Wheel guard, Safety. C. F. Orrick. 1,623,849; Apr. 5.
Wheel-hub construction. J. Bingham. 1,632,214; June 14.
Wheel hubs, Flask for casting metallic. F. A. Thomann. 1,643,140; Sept. 20.
Wheel lifter. G. L. Smith and R. Munce. 1,653,516; Dec. 20.
Wheel lock, Permutation automobile. J. Winkler. 1,647,110; Oct. 25.
Wheel lock, Spare-. J. Sokolov. 1,635,229; July 12.
Wheel lugs, V-shaped appliance for tractor-. W. Lutz. 1,641,231; Sept. 6.
Wheel-machining apparatus. F. M. A'Hearn and E. F. Richardson. 1,637,330; Aug. 2.
Wheel-making machine. H. Flick. 1,629,692; May 24.
Wheel mechanism, Detachable. W. V. Gilbert. 1,627,499; May 3.
Wheel mount, Front-. G. C. Goode. 1,652,780; Dec. 13.
Wheel mounting. H. Perrot. 1,613,768; Jan. 11.
Wheel mounting, Front-. H. Perrot. 1,637,089; July 26.
Wheel of metal, Spoked. H. Austin. 1,617,786; Feb. 15.
Wheel or tire handling apparatus. F. Rogers. 1,640,297; Aug. 23.
Wheel pressure of vehicles, Weighing screw jack for determining the. A. van L. van den Heuvel. 1,621,911; Mar. 22.
Wheel puller. A. L. Cornwell and L. R. Grames. 1,633,314; June 21.
Wheel puller. B. D. Jerabek. 1,620,211; Mar. 8.
Wheel puller. F. A. Luthy. 1,639,140; Aug. 16.
Wheel puller. J. J. McGuckin. 1,643,896; Sept. 27.
Wheel puller. A. J. Merten. 1,654,009; Dec. 27.
Wheel puller. I. C. Woodward. 1,642,285; Sept. 13.
Wheel-removing device. F. C. Hersee. 1,618,195; Feb. 22.
Wheel-removing assembly. G. H. Forsyth. 1,617,999; Feb. 15.
Wheel rims, Device for expanding. W. A. Anderson. 1,632,263; June 14.
Wheel rims, Vacuum clamping fixture for. W. A. Hatcher. 1,616,188; Feb. 1.
Wheel runner. F. Knight. 1,631,773; June 7.
Wheel-sapping device operating by rolling movements, Bevel-. M. Harbeck. 1,625,722; Apr. 19.
Wheel-shipping strap. E. T. Esterbrook. 1,640,890; Aug. 30.
Wheel-spoke bar. W. E. Williams. 1,639,068; Aug. 16.
Wheel-straightening machine. E. S. Ingham. 1,650,216; Nov. 22.
Wheel structure. W. A. Hutchinson. 1,643,379; Sept. 27.
Wheel-truing device. A. M. Drake. 1,638,623; Aug. 9.
Wheel with brake disk. L. E. La Brie. 1,635,088; July 5.
Wheel with drum. T. E. Murray, Jr. 1,635,335; July 12.
Wheeled supporting device. A. C. Berg. 1,613,155; Jan. 4.
Wheels, Alignment device for automobile. W. S. Rosenfeld. 1,625,431; Apr. 19.
Wheels, Antiskid device for motor vehicle. O. W. Nesbitt. 1,644,077; Oct. 4.
Wheels, Antiskid attachment for vehicle. R. Forwood. 1,650,437; Nov. 22.
Wheels, Apparatus for testing toothed. A. Steinle and O. Eppenstein. 1,642,219; Sept. 13.
Wheels, Camber-measuring means for vehicle. M. L. Dearborn. 1,644,111; Oct. 4.
Wheels, Clamping means for extra tread rims of tractor. E. H. Sanders. 1,637,876; Aug. 2.
Wheels, Constructing metal. E. W. Buquet. 1,627,953; May 10.
Wheels, Detachable rim for tractor. L. W. Witry. 1,616,729; Feb. 8.
Wheels, Device for aligning. J. H. Gray. 1,639,604; Aug. 16.
Wheels, Device used for controlling the speed of water. H. V. Carpenter. 1,622,763; Mar. 29.
Wheels, Double nut for dual. J. P. Tarbox. 1,637,666; Aug. 2.
Wheels for road vehicles, Construction of. G. Turner and J. B. Bishop. 1,624,771; Apr. 12.
Wheels, Hub construction for demountable. E. K. Baker. 1,615,253; Jan. 25.
Wheels, Hub-locking device for. C. Saucedo. 1,635,505; July 12.
Wheels, Hug structure for metal. O. A. Parker. 1,651,333; Dec. 6.
Wheels, Machine for assembling spoked. W. N. Booth. 1,647,603; Nov. 1.

- Wheels, Manufacture and truing of built-up. G. McKenzie. 1,637,345; Aug. 2.
- Wheels, Manufacturing gear. H. E. Warren. 1,640,432; Aug. 30.
- Wheels, Manufacturing semiwood. H. Flicke. 1,622,504; Mar. 29.
- Wheels, Manufacturing wire. J. G. Swain. 1,630,226; May 24.
- Wheels, Method and apparatus for making. H. H. Williams. 1,634,700; July 5.
- Wheels of motor vehicles, Antisplash device for the. E. W. Haward. 1,627,033; May 3.
- Wheels, Mounting vehicle. K. I. Denham. 1,646,352; Oct. 18.
- Wheels of vehicles, Guard for. W. D. Ratcliff. 1,625,824; Apr. 26.
- Wheels, Pneumatic tire for vehicle. C. C. Wals. 1,647,205; Nov. 1.
- Wheels, Power transmission for. H. R. Holmes. 1,619,472; Mar. 1.
- Wheels, Producing of cast-metal. G. Walther. 1,631,712; June 7.
- Wheels, Producing of cast-metal. G. Walther. 1,641,107; Aug. 30.
- Wheels, Rim for automobile. C. L. Stewart. 1,637,880; Aug. 2.
- Wheels, Runner for automobile. J. H. Haynes. 1,627,507; May 3.
- Wheels, Steadying device for vehicle. C. E. Stevens. 1,648,627; Nov. 8.
- Wheels, Tool for mounting disk. O. C. Schoenwerk. 1,649,130; Nov. 15.
- Wheels, Tread attachment for. C. B. Moore. 1,638,449; Aug. 9.
- Whip actuator. E. Scott. 1,638,249; July 19.
- Whipping or prodding device. W. Huber. 1,634,193; June 28.
- Whipstock. F. I. Getty. 1,625,000; Apr. 19.
- Whipstock. F. Kinzbach. 1,634,532; July 5.
- Whirligig. E. R. Jenkins. 1,634,784; Mar. 22.
- Whirligig. G. M. Larrair. 1,631,539; June 7.
- Whirligig. F. M. Pierce. 1,612,882; Jan. 4.
- Whirligig. Sounding. F. M. Pierce. 1,612,881; Jan. 4.
- Whisk broom holder and shoe polisher, Combination. L. E. Goeller. 1,635,885; July 12.
- Whistle pin wheel. J. E. Cohn. 1,613,982; Jan. 11.
- Whistling ball. C. J. Diebold. 1,632,825; June 21.
- White lead, Manufacture of. G. F. Lloyd and F. H. Campbell. 1,635,759; July 12.
- Whiting, Manufacture of. P. M. McHugh. 1,634,877; July 5.
- Wheel adjuster. E. F. McGregor. 1,641,429; Jan. 11.
- Wick ends and the like, Splice for. R. T. Pearce. 1,648,104; Oct. 18.
- Wiener and making the same, Skinless. W. A. Schmelz. 1,651,472; Dec. 6.
- Wig. L. A. Seilaz. 1,635,099; July 5.
- Withing of leaves and dovers, Preventing the. W. W. Allabough. 1,617,785; Feb. 15.
- Winch. W. L. Hinger. 1,615,543; Jan. 25.
- Winch. J. C. Smaltz. 1,623,021; Mar. 29.
- Winch for barbed-wire spools. M. Stoffel. 1,648,568; Nov. 8.
- Wind and tide motor. W. O. Miller. 1,647,461; Nov. 1.
- Wind and wiper motor. Erickson. 1,650,618; Nov. 29.
- Wind deflector. W. P. Hammond. 1,633,368; June 21.
- Wind-driven motor. J. H. Wilson. 1,614,268; Jan. 11.
- Wind indicator for night aviation. H. G. Smith. 1,644,547; Oct. 4.
- Wind instruments, Control valve for sheet metal. C. Lehmann. 1,642,783; Sept. 20.
- Wind instruments, Metal reed for. D. G. Horton. 1,616,748; Feb. 8.
- Wind instruments, Valve pad for. A. Ciccone. 1,621,395; Mar. 15.
- Windmill. F. W. Baker. 1,636,797; July 26.
- Windmill. F. R. Burch. 1,644,912; Oct. 11.
- Windmill. A. Chausser. 1,628,490; May 10.
- Windmill. D. E. Felt. 1,654,165; Dec. 27.
- Windmill. D. L. Ford. 1,617,385; Feb. 15.
- Windmill. H. H. Macomber. 1,626,203; Apr. 26.
- Windmill. J. O'Toole. 1,618,549; Feb. 22.
- Windmill. M. H. Richardson. 1,614,804; Jan. 18.
- Windmill. C. W. Snook. 1,634,436; Dec. 27.
- Windmill. L. S. Stripling. 1,632,322; June 14.
- Windmill. C. Turner. 1,620,145; Mar. 8.
- Windmill. G. W. Whitehead. 1,624,452; Apr. 12.
- Windmill. J. H. Wilson. 1,634,926; July 5.
- Windmill. I. Wolf. 1,640,262; Aug. 23.
- Windmill attachment. F. Beeson. 1,615,820; Feb. 1.
- Windmill construction. H. M. Loeber. 1,632,188; June 14.
- Windmills, Automatic control for. P. J. Nolan. 1,627,990; May 10.
- Windmills, Automatic control for. L. C. Weaver. 1,639,545; Aug. 16.
- Windmills, Pump-rod lift for. W. G. Reid. 1,654,093; Dec. 27.
- Windmills, Pumping mechanism for. O. E. McCaskill. 1,630,092; May 24.
- Wind motor. O. T. Adams. 1,636,449; July 19.
- Wind motor. G. R. Bishop. 1,633,842; June 28.
- Wind motor. W. Lenke. 1,652,022; Dec. 6.
- Wind motor. O. J. Nitaray. 1,651,067; Nov. 29.
- Wind motor. J. A. Pinaud. 1,636,434; July 19.
- Wind motor. E. E. De Vore. 1,645,855; Oct. 18.
- Wind motor. N. L. Wood. 1,617,888; Feb. 15.
- Wind motor, Automatic. S. Zgliczynski. 1,633,428; June 21.
- Wind-propelled device. W. F. Foimer. 1,650,702; Nov. 29.
- Wind rotor. H. Ellison. 1,640,269; Aug. 23.
- Windshield. J. Bauer. 1,624,906; Apr. 19.
- Windshield. A. B. Beltman. 1,649,799; Nov. 22.
- Windshield. F. A. Dillingham. 1,630,330; May 31.
- Windshield. W. E. B. Hasselkus. 1,616,619; Feb. 8.
- Windshield. M. R. Hull. 1,624,170; Apr. 12.
- Windshield. W. S. Pritchard. 1,644,681; Oct. 11.
- Windshield. C. Rasmussen. 1,615,035; Jan. 18.
- Windshield. W. H. Rose. 1,644,397-8; Oct. 4.
- Windshield. E. W. Saunders. 1,626,758; May 3.
- Windshield. E. H. Worthington. 1,650,922; Nov. 29.
- Windshield. L. M. Wragg. 1,626,997; May 3.
- Windshield adjuster. G. W. Wells. 1,618,121; Feb. 15.
- Windshield attachment. J. E. Reed. 1,635,906; July 12.
- Windshield attachment. F. R. Rhodes. 1,632,679; June 14.
- Windshields, Attachment for. C. A. Updgrave and W. R. Shollenberger. 1,647,943; Nov. 1.
- Windshield, Automobile. E. J. Madden. 1,645,438; Oct. 11.
- Windshield, Automobile. J. P. McCullough. 1,631,046; May 31.
- Windshield cleaner. R. G. Arey. 1,638,976; Aug. 16.
- Windshield cleaner. R. G. Arey. 1,639,018; Aug. 16.
- Windshield cleaner. B. T. Barber. 1,643,235; Sept. 20.
- Windshield cleaner. J. Baylin. 1,613,263; Jan. 4.
- Windshield cleaner. J. C. Birely. 1,630,921; May 31.
- Windshield cleaner. H. E. Burton. 1,622,410; Mar. 29.
- Windshield cleaner. M. E. Dayton. 1,618,068; Feb. 15.
- Windshield cleaner. F. G. and W. M. Folberth. 1,616,037; Feb. 1.
- Windshield cleaner. F. G. and W. M. Folberth. 1,617,517; Feb. 15.
- Windshield cleaner. F. G. and W. M. Folberth. 1,631,629; June 7.
- Windshield cleaner. F. G. and W. M. Folberth. 1,645,592; Oct. 18.
- Windshield cleaner. T. B. Klapper. 1,641,336; Sept. 6.
- Windshield cleaner. T. Levett. 1,613,280; Jan. 4.
- Windshield cleaner. W. Luxmore. 1,654,005; Dec. 27.
- Windshield cleaner. B. I. Malouf. 1,641,083; Sept. 6.
- Windshield cleaner. W. V. Orr. 1,615,290; Jan. 25.
- Windshield cleaner. E. F. Pierce. 1,614,688; Jan. 18.
- Windshield cleaner. E. F. Pierce. 1,619,677; Mar. 1.
- Windshield cleaner. W. F. Ridge. 1,615,915; Feb. 1.
- Windshield cleaner. L. Ruckel. 1,619,885; Mar. 8.
- Windshield cleaner and drier. K. Herman. 1,653,176; Dec. 20.
- Windshield cleaner, Automatic. L. A. Barrett and C. Hunt. 1,623,028; Mar. 29.
- Windshield cleaner, Automatic. B. I. Malouf. 1,639,043; Aug. 16.
- Windshield cleaner, Automatic. J. L. Nilson and J. F. Prince. 1,627,989; May 10.
- Windshield-cleaner installation. R. Beringer. 1,616,648; Feb. 8.
- Windshield-cleaner motor. F. G. Folberth. 1,635,401; July 12.
- Windshield cleaner, Motor-driven. S. Lippert. 1,624,264; July 12.
- Windshield construction. C. E. Dawson. 1,629,439; May 17.
- Windshield cutter, Portable. G. W. Alden. 1,651,353; Dec. 6.
- Windshield for funnels, Yielding. W. W. Johnson. 1,644,837; Oct. 11.
- Windshield heater. H. P. Thompson. 1,622,068; Mar. 22.
- Windshield of automobiles, Electric warmer and wiper for. C. V. Davis. 1,640,887; Aug. 30.
- Windshield pivot. A. T. Potter. 1,644,689; Oct. 11.
- Windshield-regulating device. L. A. Mullen. 1,634,592; July 7.
- Windshield regulator. T. P. Archer and F. M. Edgar. 1,653,977; Dec. 27.
- Windshield regulator. W. A. Proctor. 1,652,638; Dec. 13.
- Windshield regulator. C. S. Whilden. 1,614,416; Jan. 11.
- Windshield screen. P. G. Wood. 1,627,760; May 10.
- Windshield screen, Automobile. G. J. Schweizer. 1,649,985; Nov. 22.
- Windshield-wing mounting. L. R. Scott. 1,628,200; May 10.
- Windshield wiper. J. Bornstein. 1,643,919; Sept. 27.
- Windshield wiper. W. G. Bray. 1,647,648; Oct. 18.
- Windshield wiper. J. Demand. 1,623,380; Apr. 5.
- Windshield wiper. A. F. Gillet. 1,613,883; Jan. 11.
- Windshield wiper. F. G. Goodman. 1,643,067; Sept. 20.
- Windshield wiper. R. B. Gray. 1,634,460; July 5.
- Windshield wiper. H. E. Marsh. 1,633,597; June 28.
- Windshield wiper. L. T. Nixon. 1,649,848; Nov. 22.
- Windshield wiper. W. C. Poole. 1,629,734; May 24.
- Windshield wiper. E. O. Sather. 1,628,198; May 10.
- Windshield wiper. G. P. Sayre. 1,626,629; May 3.
- Windshield wiper. H. Schults and A. W. and B. F. Barbour. 1,647,319; Nov. 1.
- Windshield wiper. H. von Littrow and F. H. Zehl. 1,614,164; Jan. 11.
- Windshield wiper, Electrically-heated. R. P. Mitchell. 1,642,786; Sept. 20.

- Windshield wiper, Electrically-heated. J. W. Wood and O. C. Clague. 1,642,570; Sept. 13.
- Windshield-wiper-operating mechanism. F. L. Gerke. 1,641,753; Sept. 6.
- Windshields and the like, Weatherproof joint for. H. Bernard. 1,646,743; Oct. 25.
- Windshields, Frost-exterminating means for. A. D. Updegraff. 1,628,814; Mar. 17.
- Windshields, Window attachment for. E. T. Norbeck. 1,630,208; May 24.
- Wind stackers, Blower pipe for. H. B. Sperry. 1,630,588; May 31.
- Wind-vane sight, Manually-adjustable. C. L. Paulus. 1,650,648; Nov. 23.
- Windwheel. W. Bender. 1,615,675; Jan. 25.
- Wind wheels, propellers, and the like, Blade or vane applicable to. A. Bunkenburg. 1,649,057; Nov. 15.
- Winder, B. A. Peterson. 1,622,607; Mar. 29.
- Winder, B. A. Peterson. 1,644,946; Oct. 11.
- Winders, Stop motion for. E. H. Ryon. 1,632,507; June 14.
- Winding and dyeing apparatus. R. G. Jennings. 1,627,849; May 10.
- Winding and measuring machine, Automatic. G. Ritter. 1,622,254; Mar. 22.
- Winding drums, Lubricator for. A. H. Skaer and E. J. Downing. 1,634,100; Dec. 27.
- Winding engine. T. S. Miller. 1,621,554; Mar. 22.
- Winding machine. G. Adsit and D. Davis. 1,647,681; Nov. 1.
- Winding machine. J. A. Cameron and G. B. Birch. 1,642,669; Sept. 20.
- Winding machine. J. A. Heany. 1,621,723; Mar. 22.
- Winding machine. W. G. Houskeeper. 1,632,075; June 14.
- Winding machine. J. D. Joyce. 1,649,066; Nov. 15.
- Winding machine. N. Marcalus. 1,628,322; May 10.
- Winding machine. J. O. McKean. 1,620,267; Mar. 8.
- Winding machine. J. O. McKean. 1,647,534; Nov. 1.
- Winding machine. E. P. Parks, C. A. Brink, and G. N. Taylor. 1,651,099; Nov. 29.
- Winding machine. F. G. Robins. 1,652,050; Dec. 6.
- Winding machine. A. D. Scott. 1,630,720; May 31.
- Winding machine. G. Sipp. 1,631,292; June 7.
- Winding machine. W. M. Stocker. 1,620,044; Mar. 8.
- Winding machine. D. Stone. 1,627,213; May 3.
- Winding machine. A. Van Veen. 1,638,074; Aug. 9.
- Winding machine and method. H. S. Woodruff. 1,627,681; May 10.
- Winding machines, Adjustable guide for. G. F. Albach, jr. 1,643,914; Sept. 27.
- Winding machines, Bunch mechanism for. H. A. Leonard. 1,652,144; Dec. 6.
- Winding machines, Build building attachment for. S. M. Ford. 1,614,834; Jan. 18.
- Winding machines, Compensating device for. T. J. Sands. 1,647,198; Nov. 1.
- Winding machines, Thread guide for. G. S. Beckman. 1,648,459; Nov. 8.
- Winding machines, Traverse drive for. A. Petersen. 1,629,300; May 17.
- Winding machines, Yarn tension for. A. E. Rhoades and A. S. Johnson. 1,620,571; Mar. 8.
- Winding material, Apparatus for. H. I. Morris. 1,624,272; Apr. 12.
- Winding means. J. A. Cameron. 1,613,381; Jan. 4.
- Winding means. J. A. Cameron. 1,620,007; Mar. 8.
- Winding means. W. M. Stocker. 1,619,220; Mar. 1.
- Winding mechanism. E. F. Baldwin and F. E. Woods. 1,640,012; Nov. 15.
- Winding mechanism. G. A. Bouvier. 1,615,161; Jan. 13.
- Winding mechanism. P. B. Camp. 1,618,750; Feb. 22.
- Winding mechanism. J. W. Sager. 1,625,432; Apr. 19.
- Winding mechanism, Braid hank-. S. A. Neidich. 1,641,288; Sept. 6.
- Winding-mechanism indicator. L. Hill. 1,616,496; Feb. 8.
- Winding mechanism, Ink-ribbon-. S. A. Neidich. 1,643,313; Sept. 27.
- Winding shaft. F. E. Langdon. 1,631,538; June 7.
- Winding strand material, Method of and mechanism for. S. Thronsen. 1,639,676; Aug. 23.
- Winding yarn, Machine for. R. G. Sharples and C. Wilbraham. 1,622,007; Mar. 22.
- Winding yarns or threads, Machine for. H. Holt. 1,642,924; Sept. 20.
- Windlasses and capstans of vessels, Driving mechanism for the. G. E. Barrett. 1,634,766; July 5.
- Window. A. H. Ballard. 1,614,942; Jan. 18.
- Window. G. I. Barclay. 1,615,823; Feb. 1.
- Window. G. I. Barclay. 1,644,229; Oct. 1.
- Window. C. E. Bateman. 1,631,866; June 7.
- Window. H. E. Campbell. 1,636,807; July 26.
- Window. F. E. Domscheit. 1,632,789; June 21.
- Window. H. Donath. 1,634,985; July 5.
- Window. L. Estrada. 1,621,463; Mar. 15.
- Window. S. Goodman. 1,613,510; Jan. 4.
- Window. C. T. B. Gould. 1,629,646; Mar. 15.
- Window. M. Haberle. 1,632,835; June 21.
- Window. A. A. Jahr. 1,625,611; Apr. 19.
- Window. C. A. Lewis. 1,641,390; Sept. 6.
- Window. A. F. Masury. 1,627,916; May 10.
- Window. F. L. Michaels. 1,650,640; Nov. 29.
- Window. F. Miller. 1,612,934; Jan. 4.
- Window. E. A. Ormsby. 1,650,880; Nov. 29.
- Window. V. Pastrngo. 1,626,479; Apr. 26.
- Window. J. Polachek. J. Jepsen, and E. Peremi. Re16,800; Nov. 29.
- Window. J. Polachek, J. Jepsen, and E. Peremi. 1,636,241; July 19.
- Window. W. D. Redrup. 1,639,148; Aug. 16.
- Window. H. W. Switzer. 1,634,277; July 5.
- Window. J. J. J. 1,629,186; May 17.
- Window. D. B. Whistler. 1,644,655; Oct. 4.
- Window. J. Williams. 1,643,042; Sept. 20.
- Window. P. H. Williamson and F. M. Williamson. 1,636,762; July 26.
- Window adjuster, Friction casement-. E. J. Sibley. 1,635,925; Apr. 26.
- Window adjustment. G. Butcher. 1,643,871; Sept. 27.
- Window-adjustment construction, Casement-. G. Butcher. 1,643,921; Sept. 27.
- Window and balancing sheet-metal sashes, Sheet-metal. G. W. Lancaster. 1,627,653; May 10.
- Window and door frame. F. C. Andersen. 1,648,712; June 14.
- Window and door openings, Metal strip for. J. E. J. F., and M. O. Dowell. 1,648,336; Nov. 8.
- Window and operating means thereto. B. J. Goldsmith and E. Koeb. 1,639,455; Aug. 16.
- Window and stile. C. A. Lewis. 1,641,391; Sept. 6.
- Window and wind screen. H. Austin. 1,618,746; Feb. 22.
- Window antirattler. L. Edelmann. 1,653,553; Dec. 20.
- Window attachment. C. M. Heublein. 1,619,256; Mar. 1.
- Window attachment. C. M. Heublein. 1,650,015; Nov. 22.
- Window attachment. H. G. Irmiger. 1,649,164; Nov. 15.
- Window, Automobile. D. H. Donachy. 1,614,189; Jan. 11.
- Window, Automobile. M. R. Hull and R. H. Money. 1,650,276; Nov. 22.
- Window, Awning casement. J. G. Dudley. 1,633,375; June 21.
- Window barrier. L. Dandridge. 1,633,848; June 28.
- Window blind. J. P. Whitmore. 1,639,474; Aug. 16.
- Window box. J. Lose. 1,653,775; Dec. 27.
- Window bracket. W. H. Johnson. 1,627,241; May 3.
- Window, Casement. C. S. Clarke. 1,635,537; July 12.
- Window, Casement. H. N. Renton. 1,614,435; Jan. 11.
- Window-casement control. W. F. Klein. 1,622,365; Mar. 29.
- Window catch. H. Sebell. 1,645,354; Oct. 11.
- Window-channel strip. H. Faurot. 1,619,923; Mar. 8.
- Window cleaner. J. H. Cook. 1,640,924; Aug. 30.
- Window cleaner. S. Fuchs. 1,613,319; Jan. 4.
- Window cleaner. R. Greenberg. 1,623,004; Mar. 29.
- Window cleaner. K. Horibata. 1,644,443; Oct. 4.
- Window cleaner, Mechanical. J. Bernhard. 1,653,692; Dec. 27.
- Window-cleaner's safety device. C. Mallon. 1,650,371; Nov. 22.
- Window-cleaning device. H. T. Barlow. 1,630,463; May 31.
- Window-cleaning device. M. Christeler. 1,629,201; May 17.
- Window-cleaning device. H. M. Davis. 1,627,318; May 3.
- Window-cleaning device. S. De Rosa. 1,633,479; June 21.
- Window-cleaning device. M. Hayes. 1,628,593; May 10.
- Window-cleaning device. G. H. and F. H. Hunter. 1,628,669; May 17.
- Window-cleaning device. A. C. Jensen, W. Moloney, and G. Biltgen. 1,628,783; May 17.
- Window-cleaning device. W. I. Katow. 1,637,258; July 26.
- Window-cleaning device. E. E. Shipley. 1,624,284; Apr. 13.
- Window-cleaning device, Automatic. F. Saghy. 1,652,734; Dec. 13.
- Window-cleaning device, Power-operated. H. C. Robertson. 1,644,545; Oct. 4.
- Window-cleaning device, Safety. H. P. Chieffo. 1,621,626; Mar. 22.
- Window-closing device, Electric. F. Dzierzenza. 1,637,740; Aug. 2.
- Window, Combination. H. J. Schlacks. 1,625,872; Apr. 26.
- Window, Combined sliding and swinging. C. A. Lewis. 1,633,789; June 28.
- Window, Combined swinging and sliding. C. A. Lewis. 1,617,128; Feb. 8.
- Window construction. R. T. Axe. 1,616,248; Feb. 1.
- Window construction. A. Entenman. 1,629,264; May 17.
- Window construction. W. Fairley. 1,632,700; June 14.
- Window construction. F. C. Ferguson. 1,645,232; Oct. 11.
- Window construction. J. J. Gillman. 1,628,879; May 17.
- Window construction. J. and B. T. Mesker. 1,625,220; Apr. 19.
- Window construction. F. J. Plym. 1,628,187; May 10.
- Window construction. H. B. Stein. 1,627,419; May 3.
- Window construction. H. B. Stein. 1,653,788; Dec. 27.
- Window construction. L. Tulekls and J. Collins. 1,647,844-5; Nov. 1.
- Window construction, Metal. T. P. Shean. 1,651,635; Dec. 6.
- Window construction, Multiple-. R. T. Axe. 1,651,352; Dec. 6.

- Window construction, Ventilating. J. A. Glass. 1,643,554; Sept. 27.
- Window control and silencer. J. H. Londick. 1,642,162; Sept. 13.
- Window-control device. W. Quick, S. E. Thomas, and F. W. Herwick. 1,614,629; Jan. 18.
- Window-control mechanism. S. W. Nicholson. 1,614,485; Oct. 4.
- Window-control mechanism. H. M. and C. M. Tichenor. 1,651,003; Nov. 29.
- Window-control mechanism, Mounting for. S. W. Nicholson. 1,622,603; Mar. 29.
- Window-control mechanism to windows, Retaining device for operatively connecting. E. J. Cook. 1,616,527; Feb. 8.
- Window-controlling device. S. W. Nicholson. 1,619,633; Mar. 1.
- Window cornice and the like. H. A. Kretschmer. 1,652,365; Dec. 13.
- Window, Curtain. R. Calpin. 1,643,942; Oct. 4.
- Window, Curtain. R. Calpin. 1,643,979; Oct. 4.
- Window-curtain protector. M. E. Wheeler. 1,619,280; Mar. 1.
- Window-decorating device. F. A. Cykowski. 1,646,190; Oct. 18.
- Window device, Safety. J. J. Bartak. 1,620,749; Mar. 15.
- Window display, Refrigerator case for. L. E. Chambers. 1,643,372; Sept. 27.
- Window, Double-hung. S. U. Barr. 1,644,814; Oct. 11.
- Window draperies, Valance for. F. W. Oehrl. 1,625,329; Apr. 19.
- Window fastener. B. Jahn and E. E. Kahl. 1,653,011; Dec. 20.
- Window fastener. W. E. Morrison. 1,637,910; Aug. 2.
- Window fastener. J. J., Jr., and F. Ostrosky. 1,619,031; Mar. 1.
- Window fastener. J. Retzlaff. 1,622,803; Mar. 29.
- Window fastener. V. J. Whitney. 1,618,617; Feb. 22.
- Window-fastening device. S. Radwolski. 1,644,354; Oct. 4.
- Window fixture. W. A. Cyr. 1,617,670; Feb. 15.
- Window flashing. A. Hokanson. 1,636,365; July 19.
- Window frame. H. C. Maise. 1,624,608; Apr. 12.
- Window frame. C. Rupp. 1,623,496; Apr. 5.
- Window frame. G. L. Whips. 1,643,142; Sept. 20.
- Window frame and sash construction. H. E. Campbell. 1,636,806; July 26.
- Window frame and sash construction. H. E. Campbell. 1,637,731-3; Aug. 2.
- Window-frame stile, Adjustable. C. H. Brennen. 1,622,022; Mar. 22.
- Window-glass guide. E. W. M. Bailey. 1,635,570; July 12.
- Window-glass shawls, Flattening. H. H. Halbach and S. Sweet. 1,620,017; Mar. 8.
- Window, Grated. R. C. Porras. 1,618,224; Feb. 22.
- Window guard. F. Benca. 1,635,601; July 12.
- Window guard. B. A. Bowles. 1,638,724; Aug. 9.
- Window guard. A. W. Cooke. 1,618,060; Feb. 15.
- Window guard. A. T. McWane. 1,634,841-3; July 5.
- Window hanger, Adjustable. M. B. Price. 1,621,484; Nov. 15.
- Window-hanging device. H. B. Stein. 1,625,289; Apr. 19.
- Window, Insulated. L. J. Fedder. 1,634,987; July 5.
- Window jack. S. Mennelley. 1,630,626; May 31.
- Window leather strip, Casement-. I. W. Fisher. 1,621,861; Mar. 15.
- Window-light frame. W. J. Bossemeyer. 1,638,284; Aug. 9.
- Window-lighting system. E. Vinogradov. 1,632,254; June 14.
- Window lock. J. E. Bergonzoni. 1,654,207; Dec. 27.
- Window lock. O. E. Shostrom. 1,622,979; Mar. 29.
- Window lock. J. Wattle. 1,620,705; Mar. 15.
- Window lock, Antirattle. L. Hill. 1,623,343; Apr. 5.
- Window, Metallic. J. Brogren. 1,631,949; June 7.
- Window, Metallic. J. Brogren. 1,646,006; Oct. 18.
- Window, Motor-operated. N. L. Larsen. 1,636,519; July 19.
- Window mounting, Casement-. E. W. Cummings. 1,640,483; Aug. 30.
- Window mounting, Casement-. M. D. Skinner. 1,648,744; Nov. 8.
- Window mounting, Swinging. V. J. Whitney. 1,614,166; Jan. 11.
- Window of motor and other vehicles, Sliding. J. M. Strachan. 1,631,775; June 7.
- Window opening and closing mechanism. J. Saoutchik. 1,631,892; June 7.
- Window-operating device. W. Vaughan. 1,638,897; Aug. 16.
- Window-operating mechanism. J. H. Roethel. 1,646,218; Oct. 18.
- Window operator. F. G. Kitchin. 1,631,490; June 7.
- Window operator, Casement-. C. E. Spencer and O. W. Roberts. Des. 73,417; Sept. 6.
- Window or door construction, Casement. E. J. Emig. 1,620,526; Mar. 8.
- Window or windshield cleaner. J. S. Prowense. 1,616,692; Aug. 2.
- Window-pane fastener. F. S. Osborn. 1,637,959; Aug. 2.
- Window-pane holder, Metal. C. G. Nelson. 1,649,917; Nov. 22.
- Window panes, Support for. C. G. Nelson. 1,649,915; Nov. 22.
- Window platform. J. F. Peckenpaugh. 1,625,423; Apr. 19.
- Window portal. P. J. Murphy. 1,641,044; Aug. 30.
- Window-raising device. W. F. Fredericks. 1,627,697; May 10.
- Window, Rear. J. H. Webber. 1,622,933; Mar. 29.
- Window-regulating mechanism. A. R. Clas. 1,651,870; Dec. 6.
- Window regulator. T. P. Archer and E. E. Heintz. 1,625,186; Apr. 19.
- Window regulator. J. H. Bourgon. 1,617,195; Feb. 8.
- Window regulator. A. A. Craig. 1,613,022; Jan. 4.
- Window regulator. B. J. Goldsmith and E. Koeb. 1,624,098; Apr. 12.
- Window regulator. B. J. Goldsmith and E. Koeb. 1,642,020-1; Sept. 13.
- Window regulator. B. J. Goldsmith and E. Koeb. 1,645,136; Oct. 11.
- Window regulator. E. E. Heintz. 1,638,197; Aug. 9.
- Window regulator. E. Koeb. 1,629,277; May 17.
- Window regulator. P. J. Kurscheidt and H. E. Norwood. 1,642,035; Sept. 13.
- Window regulator. N. Lee. 1,640,459; Aug. 30.
- Window regulator. H. A. Myers. 1,645,617; Oct. 18.
- Window regulator. S. W. Nicholson. 1,647,654; Nov. 1.
- Window regulator. J. H. Parsons. 1,646,979; Oct. 25.
- Window regulator. E. G. Simpson. 1,643,320; Sept. 27.
- Window regulator, Automatic storm-. C. A. Christoffer-son. 1,632,949; June 21.
- Window-regulator handle. G. Graff. Des. 73,783; Nov. 8.
- Window-regulator handle. A. L. Knapp. Des. 73,787; Nov. 8.
- Window-regulator-handle assembly. W. Schnell. 1,648,283; Nov. 8.
- Window-regulator handle or similar article. W. Schnell. Des. 73,624; Oct. 11.
- Window-regulator handle or similar article, Plate for automobile. W. Schnell. Des. 72,284; Mar. 22.
- Window-regulator operator and clutch. A. C. Andersen. 1,613,009; Jan. 4.
- Window regulators, Automatic gear lock for. H. A. Myers. 1,636,105; July 19.
- Window retainer. J. Cantorl. 1,625,295; Apr. 19.
- Window, Reversible. O. Materney. 1,629,350; May 17.
- Window, Reversible casement. F. H. Miles and J. D. Switzer. 1,652,906; Dec. 13.
- Window, Rotatable. C. W. Olson. 1,649,850; Nov. 22.
- Window sash. W. R. Wilkes and A. Kennedy. 1,636,203; July 19.
- Window-sash construction. R. T. Axe. 1,637,723; Aug. 2.
- Window-sash construction. D. R. Canny. 1,621,828; Mar. 22.
- Window-sash fastener. W. J. Collins. 1,638,088; Aug. 9.
- Window-sash-fastening device, Adjustable. A. Ingman. 1,633,861; June 28.
- Window-sash holder. F. H. Stowell. 1,643,614; Sept. 27.
- Window-sash holder, Frictional. E. R. Draver. 1,650,011; Nov. 22.
- Window-sash-securing means. C. Thompson. 1,648,371; Nov. 22.
- Window-sash starter. M. J. Hoffenberg. 1,625,941; Apr. 26.
- Window sashes, Device for removing putty from. A. J. Dwyer. 1,648,610; Nov. 8.
- Window sashes, Locking mechanism for. W. W. Myers. 1,638,547; Aug. 9.
- Window sashes, Pulley for balanced. A. W. Goldman. 1,646,908; Oct. 25.
- Window sashes, Stop for sliding. G. E. Wood. 1,627,300; May 3.
- Window screen. L. G. Abrams. 1,617,316; Feb. 15.
- Window screen. J. A. Chewing. 1,624,534; Apr. 12.
- Window screen. J. T. Cook. 1,632,022; June 14.
- Window screen. R. W. Evans. 1,653,351; May 10.
- Window screen. J. P. Hamel. 1,615,580; Jan. 25.
- Window screen. J. Kolumbus. 1,653,184; Dec. 20.
- Window screen. T. B. Laycock. 1,634,371; July 5.
- Window screen. E. Scheller. 1,634,303; July 5.
- Window screen. E. M. Schwarz. 1,624,368; Apr. 12.
- Window screen. P. W. Willig. 1,628,485; May 10.
- Window-screen hanger. M. S. Serpa. 1,622,927; Mar. 29.
- Window-screen holder. F. A. Stickley. 1,636,255; July 19.
- Window screen, Rolling. J. G. Stewart. 1,613,967; Jan. 11.
- Window screen, Sheet-metal. A. F. Otto. 1,646,832; Oct. 25.
- Window screen, Storm-. W. B. Kinnear. 1,615,632; Jan. 25.
- Window seal. A. C. Enoch. 1,635,076; July 5.
- Window seat. P. Alles. 1,650,315; Nov. 22.
- Window seat. J. D. Orlovski. 1,634,883; July 5.
- Window seat. E. Sonntag. 1,642,792; Sept. 20.
- Window seat, Safety. C. C. Wais. 1,646,509; Oct. 25.
- Window shade and curtain holder, Combination. G. E. Hoffman. 1,651,525; Dec. 6.
- Window shade and curtain-roll holder. S. Constantine. 1,646,011; Oct. 18.
- Window-shade bracket. D. M. Parkinson. 1,639,742; Aug. 9.
- Window-shade bracket. V. C. Ruffy. 1,638,707; Aug. 9.
- Window-shade holder. J. P. Olson. 1,620,736; Mar. 15.

- Window shades and curtains, Support for a. H. Machowicz. 1,649,717; Nov. 15.
- Window shelf. L. M. Dabney. 1,614,719; Jan. 18.
- Window, Sliding. W. D. Irving. 1,634,425; July 5.
- Window, Sliding. J. Tarnowski. 1,616,709; Feb. 8.
- Window, Sliding. A. Zehmann. 1,633,968; June 28.
- Window, Sliding metal. J. E. Dennis. 1,636,593; July 19.
- Window stop. C. T. Hansen. 1,632,132; June 14.
- Window stop, Adjustable. R. C. Piscator. 1,615,554; Jan. 25.
- Window stop and weather strip, Combined. W. Friedman. 1,626,674; May 3.
- Window, Storm. E. W. Vinz. 1,631,777; June 7.
- Window structure. J. S. Berry. 1,644,507; Oct. 4.
- Window structure. C. F. Boucek. 1,630,522; May 2.
- Window structure. O. W. L. Buss. 1,633,017; Jan. 4.
- Window structure. O. W. L. Buss. 1,626,286; Apr. 26.
- Window structure. E. C. Healy. 1,632,333; June 14.
- Window structure. T. L. Juraskinski. 1,635,678; July 12.
- Window structure. G. M. Walkup. 1,623,078; Apr. 5.
- Window, Tilting-sash. F. W. Minich. 1,621,851; Mar. 22.
- Window ventilator. F. C. Alber. 1,616,297; Feb. 1.
- Window ventilator. V. M. Allen. 1,630,594; May 31.
- Window ventilator. W. Deissler. 1,615,444; Jan. 25.
- Window ventilator. E. Lambricht. 1,650,946; Nov. 29.
- Window ventilator. W. J. Lapin. 1,648,851; Nov. 8.
- Window ventilator. W. H. Rose. 1,644,399-400; Oct. 4.
- Window ventilator. S. V. Van Berschoot. 1,622,854; Mar. 29.
- Window ventilator, Adjustable. J. Niers. 1,646,040; Oct. 18.
- Window ventilator, Automatic. D. J. De Grasse. 1,651,259; Nov. 29.
- Window, Vertically-slidable inwardly-swinging. J. G. Kramer. 1,628,727; May 17.
- Window wiper. E. P. Locke. 1,639,778; Aug. 23.
- Windows, Adjustable staff mold for. S. B. Zimmer. 1,653,529; Dec. 20.
- Windows and doors, Raft, dust, and weather excluder for sliding. W. J. Hadden. 1,651,697; Dec. 6.
- Windows and doorways, Sound-screening attachment for. E. T. Fisk. 1,617,384; Feb. 15.
- Windows and the like, Automatic closer for. L. V. Blue. 1,632,532; June 14.
- Windows and the like, Fastener for storm. C. R. Moore. 1,613,285; Jan. 4.
- Windows and the like, Hanger for storm. C. R. Moore. 1,613,284; Jan. 4.
- Windows and the like, Protection of jewelers'. M. C. M. O'Brien. 1,635,140; July 5.
- Windows, Apparatus for cleaning. L. Hachenberg. 1,635,991; July 19.
- Windows, Attachment for. E. H. Berg. 1,646,522; Oct. 25.
- Windows, Combined shade roller and holding means for. D. A. Batts. 1,637,798; Aug. 2.
- Windows, Frame for automobile curtain. E. W. Hornung. 1,618,709; Feb. 22.
- Windows, Guide for sliding. J. Ledwinka. 1,654,333; Dec. 27.
- Windows, Lifting and retaining device for sliding. J. Ledwinka. 1,630,494; May 31.
- Windows, Roller-blind support for casement. O. F. C. Ewart and A. Ewart. 1,620,596; Mar. 8.
- Windows, Runway for. C. J. McKinney. 1,634,878; July 5.
- Windows, shutters, and similar appliances, Device for opening and closing. J. L. Stowers. 1,614,500; Jan. 18.
- Windows, shutters, and similar appliances, Device for opening and closing. J. L. Stowers. 1,627,580; May 10.
- Windows, Swinging double-hung. R. L. Christenson. 1,649,665; Nov. 15.
- Wing skid. H. C. Mummert. 1,613,842; Jan. 11.
- Wiper. D. C. Brees. 1,615,612; Jan. 25.
- Wiper for gauge rods. E. A. Rein, H. W. Irwin, and A. F. Leidy. 1,652,875; Dec. 13.
- Wiper, Metal-pot-mouthpiece. S. E. Sperry. 1,654,488; Dec. 27.
- Wire and the like, Metal coating. E. L. Watrous. 1,650,730; Nov. 29.
- Wire articles, Corrugated. R. P. Southcomb. 1,620,403; Mar. 8.
- Wire attachment, Electric. A. E. Chapman and C. R. Cook. 1,645,474; Oct. 11.
- Wire-banding machine. J. S. McChesney. 1,650,843; Nov. 29.
- Wire-bending machine. W. L. Clouse. 1,639,397; Aug. 16.
- Wire-bending machine. A. Van Veen. 1,650,248; Nov. 29.
- Wire, Boring Dumet. R. D. Hall. 1,647,620; Nov. 1.
- Wire-cable cutter. J. E. Butcher and H. B. Harris. 1,623,044; Apr. 5.
- Wire circuits, Suppression of echoes and singing in four. H. C. Silent. 1,653,738; Dec. 27.
- Wire clamp. W. J. Carley. Re 1,670,4; Aug. 16.
- Wire clamp. F. N. Clark. 1,638,918; Aug. 16.
- Wire-cleaning apparatus. C. E. Youngchild. 1,637,169; July 26.
- Wire-cloth-stretching machine. W. P. Jones. 1,649,350; Nov. 15.
- Wire connector. W. R. Sommer, R. Ree, and C. Kerkhof. 1,635,293; July 12.
- Wire connector. J. Zilliox. 1,635,200; July 12.
- Wire connector and bootleg terminal, Bond. W. F. Bosser and J. C. Edwards. 1,615,187; Jan. 15.
- Wire connectors, Device for handling. F. A. Brown. 1,648,635; Nov. 8.
- Wire connection. C. K. Jackson. 1,631,821; June 7.
- Wire connection for grand-piano actions, Adjustable damper. H. Sandner. 1,653,590; Dec. 20.
- Wire, Core-planter. W. H. Bongers. 1,614,453; Jan. 18.
- Wire-covering machine. A. J. Trenc. 1,616,058; Feb. 1.
- Wire-crimping tool. A. W. Miller. 1,619,084; Mar. 1.
- Wire cutter. R. E. Jourdan. 1,622,446; Mar. 29.
- Wire cutter and making it, Pile. M. B. Behrman. 1,625,072; Apr. 19.
- Wire cutter, Pile. M. B. Behrman. 1,647,600; Nov. 1.
- Wire cutting and stripping device. F. Smittak. 1,618,734; Feb. 22.
- Wire-cutting machine. J. F. Hidzick. 1,637,824; Aug. 2.
- Wire-cutting machine. E. F. Shuster. 1,629,643; May 24.
- Wire drawing and take-up method. F. Honig. 1,653,461; Dec. 20.
- Wire-drawing apparatus. H. Blount and J. W. Hernlund. 1,621,309; Mar. 15.
- Wire-drawing apparatus. F. Murphy. 1,649,912; Nov. 22.
- Wire-drawing bench. L. G. and P. A. Bréguet. 1,646,896; Oct. 25.
- Wire-drawing die. F. Vollmer. 1,624,027; Apr. 12.
- Wire-drawing dies, Manufacture of. K. B. Lewis and F. H. Ellsworth. 1,635,945; July 12.
- Wire drawing, etc., Die for. F. Honig. 1,637,109; July 26.
- Wire-drawing machine. J. A. Horton. 1,645,052; Oct. 11.
- Wire-drawing machine. A. Kreidler. 1,648,514; Nov. 8.
- Wire-drawing machine, Multiple continuous. H. W. Hodgson. 1,653,097; Dec. 20.
- Wire fabric, Apparatus for the production of. A. Armstrong. 1,643,291; Sept. 27.
- Wire fabric, Bulletproof woven. C. A. Scheeler. 1,649,548; Nov. 15.
- Wire fabric, Coating. N. S. Harter. 1,623,593; Apr. 5.
- Wire fabric, Woven. D. G. Harvey. 1,627,807; May 10.
- Wire fabrics, Seam for woven. A. W. Harris. 1,632,964; June 21.
- Wire fastener. A. C. Alvarez. 1,617,735; Feb. 15.
- Wire fastener. G. F. Voigt. 1,618,133; Feb. 15.
- Wire fence tool. E. L. Coleman. 1,613,871; Jan. 11.
- Wire glass, Method and apparatus for making. J. A. Reece. 1,641,932; Sept. 6.
- Wire handle. W. B. Willis. 1,640,016; Aug. 23.
- Wire holder. L. B. Barrett. 1,631,510; June 7.
- Wire in definite lengths, Machine for deforming. W. F. Frech. 1,624,940; Apr. 19.
- Wire-line belting. H. W. Kerr. 1,619,793; Mar. 1.
- Wire-line spudding shoe. J. V. E. Wiesenthal. 1,647,206; Nov. 1.
- Wire, Machine for manufacturing nails from. J. Wikschtröm. 1,642,597; Sept. 13.
- Wire, Machine for treating. B. F. Steel and H. D. Kelly. 1,617,087; Feb. 8.
- Wire, Making bimetallic. B. F. Steel. 1,653,378; Dec. 20.
- Wire-measuring device. H. H. Johnson. 1,652,407; Dec. 13.
- Wire, Method and apparatus for drawing. F. H. Nullmeyer. 1,629,524; May 24.
- Wire, Misch-metel. J. W. Marden and M. N. Rich. 1,653,367; Dec. 20.
- Wire-netting machines, Mesh-aligning device for. C. W. Hawthorne. 1,617,052; Feb. 8.
- Wire or cord hanger. W. H. Lawrence. 1,647,008; Oct. 25.
- Wire, Drawing, Machine for picking coils of. H. A. Staples and H. K. Beach. 1,643,186; Sept. 20.
- Wire or the like, Mechanism for and method of colling. F. Honig. 1,624,000; Apr. 12.
- Wire package-holding device. C. E. Bowers. 1,651,664; Dec. 6.
- Wire, Pile. F. A. Atkinson and F. and O. J. Pickard. 1,653,755; Dec. 27.
- Wire, Pile. J. Bagley. 1,625,783; Apr. 26.
- Wire, Pile. M. B. Behrman. 1,648,892; Nov. 15.
- Wire-pulling head. H. E. Waltz. 1,649,937; Nov. 22.
- Wire reducer. W. A. Murphy. 1,652,577; Dec. 13.
- Wire reel. J. E. Frederick. 1,654,885; July 5.
- Wire reel. G. A. Paff. 1,647,715; Nov. 1.
- Wire rope and producing the same, Attachment for. A. J. Briggs. 1,643,110; Sept. 20.
- Wire-rope fitting. E. Allen. 1,642,573; Sept. 13.
- Wire-rope swivel socket. W. H. Stainbrook. 1,614,407; Jan. 1.
- Wire, Screen, Fourdrinier. H. R. Harrigan. 1,616,222; Feb. 1.
- Wire-seaming machine. F. F. Schmlege. 1,646,709; Oct. 25.
- Wire-shaping apparatus. G. G. Henderson. 1,613,170; Jan. 4.
- Wire, Splice. A. J. Slonecker. 1,616,337; Feb. 1.
- Wire splicer. W. F. Kerscy. 1,651,210; Nov. 29.
- Wire-splicing machine. D. T. May. 1,645,152; Oct. 11.
- Wire-splicing tool or wrench. A. J. Lewis. 1,637,226; July 26.
- Wire-spoke wheel. F. W. Baker. 1,653,612; Dec. 27.

- Wire spool and carrier. H. de Jong. 1,637,037; July 26.
Wire-straightening machine. H. Prym. 1,645,072; Oct. 11.
- Wire strand and producing the same, Attachment for. E. A. Conner. 1,643,150; Sept. 20.
- Wire-strapping tool. W. N. Lurcott. 1,616,912; Feb. 8.
- Wire stretcher. G. W. Martin. 1,653,866; Dec. 27.
- Wire stretcher. E. L. Peetz. 1,637,537; Aug. 2.
- Wire stretcher. N. O. Thorp. 1,613,209; Jan. 4.
- Wire stretcher. L. C. Woodyard. 1,632,016; June 14.
- Wire-stretching device. L. E. Clémence. 1,643,199; Sept. 20.
- Wire, strip, and the like, Apparatus for the electric heat treatment of. H. Alexander and A. Imbery. 1,626,713; May 3.
- Wire supporter, Bond-. F. A. Preston. 1,612,984; Jan. 4.
- Wire tensioning and twisting machine, Portable. A. J. Gerrard and P. Wright. 1,617,387; Feb. 15.
- Wire terminal, Conductor-. G. A. Childs. 1,617,373; Feb. 15.
- Wire-tie clamp. D. D. Prusquale. 1,634,847; July 5.
- Wire tie for bundles of various kinds. S. C. Cary. 1,624,531; Apr. 12.
- Wire tire, Bailing-. J. O. Carroll. 1,624,157; Apr. 12.
- Wire ties, Apparatus for stringing. H. B. Foulder. 1,617,104; Feb. 8.
- Wire ties, Machine for tying. H. B. Foulder. 1,642,850; Sept. 20.
- Wire ties, Tool for twisting. H. B. Foulder. 1,642,849; Sept. 20.
- Wire-twisting machine. A. J. Gerrard and P. Wright. 1,620,404; Apr. 26.
- Wire-tying machine. A. J. Gerrard and P. Wright. 1,653,164-5; Dec. 20.
- Wire-tying machine. V. H. Ross. 1,652,460; Dec. 13.
- Wire-webbing anchoring device. J. L. Griswold. 1,644,015; Oct. 4.
- Wire wheel. J. M. Jones. 1,642,207; Sept. 13.
- Wire-working machine. S. C. Cary. 1,624,295; Apr. 19.
- Wire-working machines, Blank-feeding device for. J. Roderburg. 1,640,907; Aug. 30.
- Wire, Wrapping. W. E. Pettengill. 1,639,146; Aug. 16.
- Wiring and seaming mechanism, False. W. Cameron. 1,615,325; Jan. 25.
- Wires, Device for removing kinks and the like from flexible. J. W. Lynn. 1,614,375; Jan. 11.
- Wires, Device for transforming the crystalline structure of. F. Koref. 1,629,345; May 17.
- Wires, Insulator support for. P. L. Peterson. 1,653,584; Dec. 20.
- Wires, Machine for making asbestos-covered. L. H. Thomas and F. Euhn. 1,645,884; Oct. 13.
- Wires, Manufacture of very thin. G. L. Hertz. 1,627,971; May 10.
- Wires, Method and apparatus for forming bead. C. E. Maynard. 1,615,466; Jan. 25.
- Wires, Program transmission over. J. F. Toomey. 1,628,697; May 17.
- Wires, Safety device for high-tension. A. A. C. Ohlsen. 1,635,726; July 12.
- Wires to removable Foundrins, Apparatus and method for applying. E. E. Berry. 1,613,264; Jan. 4.
- Wireless amplifier, Loud-speaking. J. R. Showers. 1,626,102; Apr. 26.
- Wireless apparatus. W. A. Graham. 1,614,524; Jan. 18.
- Wireless apparatus. L. R. Ruoff. 1,648,592; Nov. 8.
- Wireless apparatus. G. F. Wittgenstein. 1,625,234; Apr. 19.
- Wireless-apparatus cabinet structure. G. W. Cisco. 1,634,709; July 5.
- Wireless apparatus, Coll. for. F. G. Niece. 1,647,744; Nov. 1.
- Wireless directive signaling. R. A. Fessenden. 1,617,240; Feb. 8.
- Wireless installation on vehicles such as automobiles. N. H. Clough. 1,649,510; Nov. 15.
- Wireless receiving apparatus. S. Loewe. 1,642,420; Sept. 13.
- Wireless receiving circuits. H. J. Round. 1,624,185; Apr. 12.
- Wireless receiving or transmitting apparatus, Equipment for. S. Loewe. 1,654,296; Dec. 27.
- Wireless receiving system. F. B. Falknor. 1,633,932; June 28.
- Wireless receiving system. J. Sleplan. 1,621,034; Mar. 15.
- Wireless sending and receiving system, Combined. A. Myman. 1,615,645; Jan. 25.
- Wireless signaling. M. Osnos and L. Kasarnowsky. 1,624,005; Apr. 12.
- Wireless signaling. Aerial system employed in. S. B. Smith and G. M. Wright. 1,618,209; Feb. 22.
- Wireless signaling system. W. C. White. 1,617,974; Feb. 15.
- Wireless signaling systems, Coll. holder for. A. H. Curtis. S. R. Wright, and A. H. Mackley. 1,613,222; Jan. 4.
- Wireless signaling system of facsimile telegraphy by. E. Belin. 1,642,637; Sept. 13.
- Wireless telegraph apparatus. F. Lowenstein. 1,618,017; Feb. 15.
- Wireless telegraphy, Receiving arrangement for. G. G. Von Arco. 1,649,499; Nov. 15.
- Wireless telephony. W. T. Ditham. 1,629,685; May 24.
- Wireless telephony and other purposes, Loud speaker for. P. Grassmann. 1,632,287; June 14.
- Wireless telephony, System of secret. F. W. Kranz. 1,628,411; May 10.
- Wireless transmission and reception. R. A. Fessenden. 1,617,242; Feb. 8.
- Wireless transmission system. D. G. Little. 1,622,654; Mar. 29.
- Wireless transmitting system. V. K. Zworykin. 1,634,390; July 5.
- Wood and product obtained by said process, Manufacture of artificial. T. Surdi. 1,634,346; July 5.
- Wood and solutions therefor, Preserving. L. P. Curtin. 1,620,152; Mar. 8.
- Wood and the like, Preserving. C. Schantz. 1,632,508; Feb. 15.
- Wood and treating wood, Impregnated. J. R. Coolidge, 3d. 1,648,295; Nov. 8.
- Wood, Artificially graining. E. E. Spargo. 1,653,481; Dec. 20.
- Wood-burning device. H. E. Woolery. 1,636,161; Feb. 19.
- Wood, Composition for impregnating. B. Wurzschmitt. 1,654,229; Dec. 27.
- Wood construction. M. A. Huhnholz. 1,630,342; May 31.
- Wood, Gelatinizing. A. W. Schorger. 1,631,834; June 7.
- Wood, glass, etc., Producing ornamental effects on. E. Freund. 1,646,907; Oct. 25.
- Wood grain surfaces, Producing. G. E. Lang. 1,651,136; Nov. 29.
- Wood, Impregnating. J. R. Coolidge, 3d. 1,648,294; Nov. 8.
- Wood impregnation. A. M. Howald. 1,650,274; Nov. 22.
- Wood, Method and machine for shredding. F. J. Moore. 1,623,261; Apr. 5.
- Wood pulp, Manufacture of chemical. A. Peetz. 1,653,730; Dec. 27.
- Wood preservation. A. M. Howald. 1,638,440; Aug. 9.
- Wood, Preservation of. J. Johnston. 1,617,447; Feb. 15.
- Wood preservative. L. P. Curtin. 1,624,930; Apr. 19.
- Wood preservative. R. H. Handy. 1,633,095; June 21.
- Wood preservative. K. H. Wolman, F. Peters, and H. Pfug. 1,622,751; Mar. 29.
- Woods, Preservatively treating. E. B. Fulk. 1,652,109; Dec. 6.
- Wood-preserving composition. F. Raschig. 1,616,468; Feb. 8.
- Wood-pervading system. J. R. Pfister. 1,629,302; May 17.
- Wood pulp, Apparatus for bleaching. F. G. Sherbondy and M. E. Boehm. 1,633,965; Aug. 16.
- Wood pulp, Bleaching. F. G. Sherbondy and M. E. Boehm. 1,638,886; Aug. 16.
- Wood pulp, Process and apparatus for manufacturing ground. F. K. Fish. Jr. 1,633,733; June 28.
- Wood pulp, Process and apparatus for the production of. C. J. Sternkopf. 1,619,004; Mar. 1.
- Wood separator and preparing same. W. H. Grinditch. 1,638,765; Aug. 9.
- Wood separators, Treatment of. C. C. Carpenter. 1,614,916; Jan. 18.
- Wood shaper. E. F. Wagner. 1,615,893; Feb. 1.
- Wood shapers, Tool spindle for. J. W. Ostrman. 1,644,442; Oct. 4.
- Wood-shaping machine. P. Kieher. 1,615,088; Jan. 18.
- Wood-shaping machine. W. M. Whitney. 1,647,028; Nov. 25.
- Wood-splitting machine. C. Rasmussen. 1,626,152; Apr. 26.
- Wood substitute. H. C. Harvey and H. L. Becher. 1,651,388; Dec. 6.
- Wood, Treating. J. Himmelsbach. 1,613,459; Jan. 4.
- Wood, Treating. W. Hoskins. 1,631,728; June 7.
- Wood, Treating. A. H. van der Werf. 1,644,801; Oct. 11.
- Wood-treating apparatus. G. B. Shipley. 1,623,979; Apr. 12.
- Wood, Treating, Impregnating, seasoning, and stabilizing. G. E. Rice. 1,650,738; Nov. 29.
- Wood waste, Utilizing. H. F. Weiss. 1,631,171-2; Jan. 7.
- Wood wind and like musical instrument. J. W. McAvoy. 1,643,463; Sept. 27.
- Wood with sheet metal, Machine for covering. W. B. Hewitt. 1,646,533; Oct. 25.
- Wooden articles, Producing. M. B. Llovd. 1,644,195; Apr. 4.
- Wooden container. J. H. Proctor. 1,625,280; Apr. 19.
- Wooden panels from mill clippings and the like, Rapid production of. J. L. Herzog. 1,638,262; Aug. 9.
- Woodworking apparatus. M. Skolnik. 1,641,646; Sept. 6.
- Woodworking machine. L. E. Blood. 1,638,652; Aug. 9.
- Woodworking machine. J. T. Dowse. 1,615,575; Jan. 25.
- Woodworking machine. S. W. Green. 1,616,745; Feb. 8.
- Woodworking machine. F. Hoffman. 1,628,724; May 17.
- Woodworking machine. M. Hutchinson. 1,617,211; Feb. 8.
- Woodworking machine. C. W. Jackson. 1,628,845; May 17.
- Woodworking machine. E. Stauder. 1,651,846; Dec. 6.
- Woodworking machine, Combination. J. D. Pierce. 1,621,999; Mar. 22.
- Woodworking machine, Combination. J. Schimmelpenninck. 1,619,158; Mar. 1.
- Woodworking machine, Cutter guard for dado. J. F. Wilson. 1,632,253; June 14.
- Woodworking machine, Portable. J. L. Weaver. 1,643,325; Sept. 27.

- Woodworking machines, Sectional feed roller for. W. R. Buss and M. E. Dick. 1,625,881; Apr. 26.
- Woodworking tool. J. I. Misener. 1,615,818; Jan. 25.
- Wool blowing mineral. A. Kobierie. 1,630,133; Nov. 22.
- Wool, cotton, rag, and the like drying machine. W. E. Layland and J. H. Whitehead. 1,630,438; May 31.
- Wool felt and making same, Ornamental. J. Robinson. 1,619,681; Mar. 1.
- Wool-pulling device. J. T. Denton. 1,653,090; Dec. 20.
- Wool washers and the like. Press roll for. F. L. Fur-bush. 1,628,835; May 17.
- Work carrier. F. E. Gardner. 1,628,878; May 17.
- Work clamp. C. A. Vidinghoff. 1,637,134; July 26.
- Work-driving device. R. A. Ashton. 1,632,018; June 14.
- Work-handling device. J. Dragon. 1,618,700; Feb. 22.
- Work holder. B. Fodge. 1,625,251; Apr. 19.
- Work holder. H. S. Fullerton. 1,619,340; Mar. 1.
- Work holder. H. H. Kistner. 1,654,174; Dec. 27.
- Work holder. B. S. Warner. 1,622,855; Mar. 29.
- Work-holding device. M. M. Scharf. 1,614,852; Jan. 18.
- Work-holding means. F. A. Bailey. 1,617,562; Feb. 15.
- Work-positioning device. C. E. Hood. 1,658,932; Aug. 16.
- Work rest. H. J. Cook. 1,624,889; Apr. 12.
- Work support. S. J. Teller and J. J. Thacher. 1,616,150; Feb. 1.
- Worm and worm-wheel transmission. H. Austin. 1,622,987; Mar. 29.
- Worm-grinding machine. H. E. Durkee. 1,622,628; Mar. 29.
- Wound machine with additional excitation in bridge connection. Series. W. Petersen. 1,621,429; Mar. 15.
- Wound package and producing the same. J. O. McKean. 1,647,535; Nov. 1.
- Woven fabric. J. E. Fefel. 1,634,411-2; July 5.
- Woven fabric. E. Meyer. Des. 72,487; Apr. 19.
- Woven fabric or similar article. L. Bluhm. Des. 73,022; July 12.
- Woven-wire fabric. C. C. Wickwire. Des. 74,041; Dec. 6.
- Wrapper. E. H. Radford. 1,628,429; May 10.
- Wrapper-making machine. B. Heinrichs. 1,619,615; Mar. 1.
- Wrapping device for irregularly-shaped delicate objects. O. Lauenstein. 1,626,543; Apr. 26.
- Wrapping machine. H. Y. Armstrong. 1,626,378-9; Apr. 26.
- Wrapping machine. C. H. Bunker. 1,628,111; May 10.
- Wrapping machine. J. Derry. 1,613,986; Jan. 11.
- Wrapping machine. M. B. Ferguson. 1,634,711; July 5.
- Wrapping machine. J. P. Hooper. 1,654,258; Dec. 27.
- Wrapping machine. F. Marasso. 1,641,042; Aug. 30.
- Wrapping machine. F. E. Modlin. 1,632,344; June 14.
- Wrapping machine. D. D. Parker. 1,650,803; Nov. 29.
- Wrapping machine. P. Pierce. 1,635,288; July 12.
- Wrapping machine. O. Sandberg. 1,646,496-7; Oct. 25.
- Wrapping machine. E. L. Smith and F. B. Fuller. 1,653,880; Dec. 27.
- Wrapping machine. E. Stern. 1,629,934; May 24.
- Wrapping machine for wrapping or parceling toffee, chocolate, or the like. H. Bradwell. 1,634,229; June 28.
- Wrapping machines. Belt feed mechanism for. W. H. Serrent. 1,654,146; Dec. 27.
- Wrapping machines, Folding and filling mechanism for. M. J. Milmo. 1,621,516; Mar. 22.
- Wrapping machines, Work supporting and rotating means for. J. Derry. 1,650,199; Nov. 22.
- Wrapping pies. G. W. Gwinn. 1,647,289; Nov. 1.
- Wrapping station. Central-package. W. R. Mabey. 1,644,342; Oct. 4.
- Wrapping strand material around a core, Method of and apparatus for. H. F. Carter. 1,625,983; Apr. 26.
- Wreath. M. Nadolleck. Des. 72,563; May 3.
- Wrench-lifting device. H. Hicks. 1,630,994; May 31.
- Wrench. See—
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| Adjustable wrench. | Jar wrench. |
| Cap wrench. | Monkey wrench. |
| Chain pipe wrench. | Nut wrench. |
| Chain wrench. | Open-end wrench. |
| Conduit-bushing wrench. | Pipe wrench. |
| Double wrench. | Power wrench. |
| End wrench. | Ratchet wrench. |
| Headlight-rim wrench. | Socket wrench. |
| Headlight wrench. | Speed wrench. |
- Wrench. J. L. Abernethy and L. E. Mumbower. 1,627,008; May 3.
- Wrench. H. C. Anderson. 1,618,904; Feb. 22.
- Wrench. N. A. Anderson. 1,646,970; Oct. 15.
- Wrench. W. H. Arbogast. 1,647,071; Oct. 25.
- Wrench. F. H. Bradshaw. 1,646,608; Oct. 25.
- Wrench. B. R. Beaver. 1,623,379; Apr. 5.
- Wrench. W. L. Bessolo. 1,651,576; Dec. 6.
- Wrench. W. S. Bellows. 1,613,976; Jan. 11.
- Wrench. G. Browning and P. J. Bohan. 1,641,730; Sept. 6.
- Wrench. L. T. Broyles. 1,624,922; Apr. 19.
- Wrench. L. A. Burch. 1,647,340; Nov. 1.
- Wrench. L. R. Carbell. 1,623,945; Apr. 5.
- Wrench. A. E. Cariberg. 1,613,981; Jan. 11.
- Wrench. J. Cottrell. 1,615,440; Jan. 25.
- Wrench. C. E. Dale. 1,634,610; July 5.
- Wrench. J. M. De Vilbiss. 1,652,977; Dec. 13.
- Wrench. J. H. Dodds. 1,616,612; Feb. 8.
- Wrench. F. Dominelli. 1,639,798; Aug. 23.
- Wrench. J. Dickie. 1,646,140; Oct. 18.
- Wrench. J. M. Elliott. 1,638,990; Aug. 16.
- Wrench. J. H. Ellis. 1,615,169; Jan. 18.
- Wrench. P. A. Forsdahl. 1,635,930; July 12.
- Wrench. W. F. Gourley. 1,639,177; Aug. 16.
- Wrench. P. Hammer. 1,652,355; Dec. 13.
- Wrench. M. M. Harman. 1,641,484; Sept. 6.
- Wrench. J. H. Horsburgh. 1,628,842; May 17.
- Wrench. H. M. Hutchinson. 1,627,778; May 10.
- Wrench. J. H. Ivey. 1,630,848; May 31.
- Wrench. H. C. Jahn. 1,627,035; May 3.
- Wrench. A. Johnson. 1,617,448; Feb. 15.
- Wrench. J. E. Kenerson. 1,613,229; Jan. 4.
- Wrench. W. H. Kewish. 1,641,634; Sept. 6.
- Wrench. W. S. Lawyer. 1,627,441; May 3.
- Wrench. C. H. Leonard. 1,653,861; Dec. 27.
- Wrench. I. W. Litchfield. 1,637,778; Aug. 2.
- Wrench. E. E. Lynch and H. A. Mead. 1,634,908; July 5.
- Wrench. S. Mandl. 1,614,039; Jan. 11.
- Wrench. S. Mandl. 1,628,467; May 10.
- Wrench. J. McDonald. 1,648,653; Nov. 8.
- Wrench. J. W. McDonough. 1,650,085; Nov. 22.
- Wrench. B. L. McDerney. 1,625,559; Apr. 19.
- Wrench. R. L. Murphy. 1,639,455; Jun. 21.
- Wrench. A. P. Norton. 1,614,534; Jan. 18.
- Wrench. P. E. Owens. 1,636,318; July 19.
- Wrench. J. C. Paule. 1,641,989; Sept. 13.
- Wrench. F. C. Reilly. 1,624,508; Apr. 12.
- Wrench. L. Reboul. 1,645,999; Oct. 18.
- Wrench. N. H. Robinson. 1,637,530; Aug. 2.
- Wrench. N. H. Robinson. 1,640,128; Nov. 15.
- Wrench. N. Salvucci. 1,616,871; Feb. 8.
- Wrench. C. Senn. 1,648,661; Nov. 8.
- Wrench. G. M. Smith. 1,651,162; Nov. 29.
- Wrench. W. M. Stovall. 1,638,891; Aug. 16.
- Wrench. P. D. Stowell. 1,639,710; Aug. 23.
- Wrench. C. E. Turner. 1,646,068; Oct. 25.
- Wrench. G. L. Wackerow. 1,648,599; Nov. 8.
- Wrench. L. E. Watson. 1,635,002; July 5.
- Wrench. W. White. 1,648,037; Nov. 8.
- Wrench. L. S. Whitehead. 1,648,519; Nov. 8.
- Wrench. J. Zilliox. 1,626,906; May 3.
- Wrench. J. Zilliox. 1,633,823; Aug. 23.
- Wrench adjustment. J. McConville. 1,621,123; Mar. 15.
- Wrench and can opener. Cover. A. Craig. 1,638,185; Aug. 9.
- Wrench and inflating mechanism. Combined. J. Wahl and O. Melzer. 1,652,846; Dec. 13.
- Wrench for road automobiles. Socket. R. W. Barb. 1,618,046; Feb. 15.
- Wrench for screw-top jars. F. Moser. 1,631,689; June 7.
- Wrench for use in restricted locations. T. Woods. 1,615,497; Jan. 25.
- Wrench mechanism. C. W. McDaniel. 1,621,264; Mar. 15.
- Wrench mechanism. O. Melzer and J. Wahl. 1,648,430; Nov. 8.
- Wrench of the adjustable-jaw type, Open-end. J. Van Eck. 1,643,633; Sept. 27.
- Wrench outfit. Ratchet. G. W. Myers. 1,644,347; Oct. 4.
- Wrench or other tool holder. Interchangeable. J. R. Serrent. 1,655,361; Dec. 6.
- Wrench-set-carrying device. R. S. Brown and W. J. Victory. 1,612,905; Jan. 4.
- Wrench with head hinged on the shaft and with reversible ratchet mechanism. H. Distler. 1,629,205; May 17.
- Wrenches. Extension handle for. M. Morgan. 1,643,027; Sept. 20.
- Wringer. See—
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| Clothes wringer. | Mop wringer. |
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- Wringer. A. W. Altorfer. 1,637,630; Aug. 2.
- Wringer. P. E. Barker. 1,638,312-3; Aug. 9.
- Wringer. W. G. Beatty. 1,616,627; May 17.
- Wringer. F. P. Cowan. 1,652,427; Dec. 13.
- Wringer. V. Gehrlin. 1,636,225-6; July 19.
- Wringer. W. Robertson. 1,629,736; May 24.
- Wringer. S. E. Schroeder. 1,624,073; Apr. 12.
- Wringer. S. E. Schroeder. 1,644,040; Oct. 4.
- Wringer. S. E. Schroeder. 1,645,160-1; Dec. 11.
- Wringer. S. E. Schroeder. 1,645,297; Oct. 11.
- Wringer. L. Sweningson. 1,640,627; Aug. 30.
- Wringer. O. B. Woodrow. 1,641,516; Sept. 6.
- Wringer and pail. Combined mop. J. M. Eiffe. 1,613,267; Jan. 4.
- Wringer attachment. F. B. Schuyler. 1,625,101; Apr. 19.
- Wringer construction. S. E. Schroeder. 1,644,041; Oct. 4.
- Wringer construction. S. E. Schroeder. 1,646,601; Oct. 25.
- Wringer-frame construction. F. L. Chamberlain. 1,638,241; Aug. 9.
- Wringer mechanism. Safety. S. E. Schroeder. 1,623,707; Apr. 5.
- Wringer roll. G. R. Keltie. 1,630,086; May 24.
- Wringer roll and making the same. J. J. Rathens. 1,640,216; Aug. 23.
- Wringer-roll guard. G. W. Smith, Jr. 1,643,475; Sept. 27.
- Wringers. Adjustable drain board for. E. C. Rocke. 1,634,799; May 5.
- Wringers. Safety device for. T. Adams. 1,624,706; Apr. 12.
- Wringers. Safety device for feeding clothes to. H. L. Morin. 1,651,615; Dec. 6.

- Wingers, Supporting device for. F. L. Chamberlain. 1,638,242; Aug. 9.
- Wrist paste container and distributor. G. De Pamphlis. 1,632,890; June 21.
- Wrist pin. O. C. Willis and O. Cox. 1,634,166; June 28.
- Wrist-watch strap. J. Kreisler. 1,617,954; Feb. 15.
- Wrist-watch straps, Extension member for. J. P. Benham. 1,622,989; Mar. 29.
- Wrist-watch straps, Fastener for. I. R. Lederer. 1,614,246; Jan. 11.
- Writer's guide. G. Yenofkian. 1,628,347; May 10.
- Writing and drawing apparatus. J. G. Hendrickson. 1,642,369; Sept. 13.
- Writing implement. O. Imset. 1,635,624; July 12.
- Writing implement, Illuminated. T. J. Brooks. 1,615,740; Jan. 25.
- Writing instrument. A. B. W. Bartholomew. 1,636,207; July 19.
- Writing machine. K. A. Sundquist. 1,652,988; Dec. 13.
- Writing pad. B. M. Dunlap. 1,631,192; June 7.
- Writing table, Multiple. L. Nagy. 1,652,792; Dec. 13.
- X-ray apparatus. C. E. Campbell. 1,623,575; Apr. 5.
- X-ray apparatus. C. E. Campbell. 1,629,950; May 24.
- X-ray apparatus. P. A. Isherwood. 1,630,181; May 24.
- X-ray apparatus. M. Morrison. 1,617,267; Feb. 8.
- X-ray apparatus. M. Morrison. 1,639,464; Aug. 16.
- X-ray apparatus. J. B. Wantz. 1,628,014; May 10.
- X-ray apparatus. F. H. Wappler and C. Fayer. 1,628,699; May 17.
- X-ray-beam generator. F. S. Smith. 1,647,477; Nov. 1.
- X-ray-beam generator of high power. F. S. Smith. 1,647,479; Nov. 1.
- X-ray beams of short duration, Producing intense periodic. F. S. Smith. 1,647,478; Nov. 1.
- X-ray dental films, Machine or device for labeling. R. Torpin. 1,632,154; June 14.
- X-ray examination and X-ray photographing, Apparatus for. M. Pohlmann. 1,646,065; Oct. 18.
- X-ray filter. A. St. John. 1,624,443; Apr. 12.
- X-ray machine. M. B. Adrian. 1,619,962; Mar. 8.
- X-ray machine, Convertible. A. Mutscheller. 1,625,328; Apr. 19.
- X-ray machines, Radiographic attachment for. F. Irwig. 1,651,707; Dec. 6.
- X-ray operating table. J. J. Grobe. 1,628,043; May 10.
- X-ray photography, Make-up frame for. A. H. Honey. 1,629,104; May 17.
- X-ray screen. H. S. Sawford. 1,621,814; Mar. 22.
- X-ray screen for taking skiagrams. R. Mann. 1,633,706; June 28.
- X-ray system. H. D. Garrettson. 1,629,338; May 17.
- X-ray system, Therapy. A. Mutscheller. 1,620,732; Mar. 15.
- X-ray tables, Attachment for. F. H. Wappler and A. C. Koenitz. 1,623,567; Apr. 5.
- X-ray tube. U. Fujimoto. 1,621,926; Mar. 22.
- X-ray tube. G. Holst. 1,643,453; Sept. 27.
- X-ray tube. G. Holst and A. Bouwers. 1,626,465; Apr. 26.
- X-ray tube. G. Holst and A. Bouwers. 1,632,230; June 14.
- X-ray tube. M. Morrison. 1,621,852; Mar. 22.
- X-ray tube. J. Slepian. 1,645,304; Oct. 11.
- X-ray tube and installation for operating the said tube. A. Bouwers. 1,641,410; Sept. 6.
- X-ray tube radiator. M. Morrison. 1,626,687; May 3.
- X-ray tubes, Seal for. C. T. Ulrey. 1,653,380; Dec. 20.
- X-ray tubes, Target for. H. C. Rentschler and J. W. Marden. 1,625,426-7; Apr. 19.
- X-ray work, Method and apparatus for. M. B. Adrian. 1,642,915; Sept. 20.
- X rays and apparatus therefor, Producing homogeneous. J. St. John. 1,626,306; Apr. 26.
- X rays, Screen for reducing secondary radiation from. H. S. Sawford. 1,621,813; Mar. 22.
- Yacht, Miniature. H. E. Boucher. 1,616,948; Feb. 8.
- Yacht, Model. R. F. B. Shaver. 1,639,707; Aug. 23.
- Yarn. A. Boller. 1,621,348; Mar. 15.
- Yarn and the like, Making. H. B. Clow and H. L. Clow. 1,637,139; July 26.
- Yarn, Apparatus for spinning. E. Hartley. 1,639,406; Aug. 16.
- Yarn balls, Core for. E. H. Newton. 1,614,750; Jan. 18.
- Yarn cleaner. H. E. Van Ness. 1,625,692; Apr. 19.
- Yarn cleaner. V. Walikus. 1,628,523; May 10.
- Yarn-control mechanism. W. P. Drumheller. 1,636,409; July 19.
- Yarn-dyeing machine. H. M. Van Alstyne and W. Bell. 1,651,167; Nov. 29.
- Yarn-impinging detector controlled by active shuttle. W. H. Wakefield. 1,651,108; Nov. 29.
- Yarn-method support. H. D. Colman. 1,641,661; Sept. 6.
- Yarn, Method and apparatus for cleaning. L. B. Hasbrouck. 1,630,381; May 31.
- Yarn-rolling device. J. K. Altemus. 1,621,303; Mar. 15.
- Yarn on bobbins, Coloring. J. S. Johnston. 1,613,707; Jan. 11.
- Yarn or thread feeding mechanism for spring-needle machines. G. F. Bosworth. 1,620,781; May 3.
- Yarn reel. N. Brugger. 1,628,325; Apr. 26.
- Yarn-tensioning device. A. M. Pigeon. 1,648,190; Nov. 8.
- Yarn-tensioning device. A. Wetzel. 1,623,608; Apr. 5.
- Yarn to remove the kinks therefrom, Power-driven device for automatically untwisting. J. O. McKean. 1,650,902; Nov. 29.
- Yarn to remove the kinks therefrom, Self-driven device for automatically untwisting. J. O. McKean. 1,650,901; Nov. 29.
- Yarn, Winding. H. D. Clinton. 1,639,927; Aug. 23.
- Yarn-winding machine. J. K. Altemus. 1,644,973; Oct. 11.
- Yarn-winding machines, Tension device for. H. A. Davis. 1,618,699; Feb. 22.
- Yarns, Dyeing. O. Hoffmann. 1,615,124; Jan. 18.
- Yarns in hanks with liquid, Machine for treating. J. Schlumpf. 1,639,438; Aug. 16.
- Yarns, Spinning, twisting, cabling, and proofing of. J. E. Moore. 1,647,303; Nov. 1.
- Yeast and activator for yeast, Increasing the activity of. A. W. Hixson and A. E. Balls. 1,651,027; Nov. 29.
- Yeast and producing the same, Dry. C. B. Hill and M. H. Givens. 1,641,676-7; Sept. 6.
- Yeast and the product thereof, Treating and preparing. F. M. Hildebrandt. 1,625,121; Apr. 19.
- Yeast, Drying. A. K. Balls. 1,643,047; Sept. 20.
- Yeast foam malted milk and product thereof, Manufacturing. C. B. Hill and M. H. Givens. 1,636,563; July 19.
- Yeast, Improvement of flavor of. E. B. Brown. 1,642,537; Sept. 13.
- Yeast stimulant, Making a. J. Takamine, jr., and N. Fujita. 1,634,310; July 5.
- Yeasts, Propagating. A. K. Balls. 1,642,192; Sept. 13.
- Yieldable coupling. W. Mimier. 1,629,041; May 17.
- Yoke. F. M. Jackson. 1,613,109; Jan. 4.
- Yoke, Steel. F. O'Dell. 1,630,447; May 31.
- Zeolite water softeners, Method of and apparatus for reclaiming. W. J. Kenney. 1,617,288; Feb. 8.
- Zeolites and the like, Apparatus for regeneration of. W. H. Green. 1,620,886; Mar. 15.
- Zeolites, Manufacture of precipitated. H. Kriegsheim and V. Vaughan. 1,642,880; Sept. 20.
- Zeolites, Process and apparatus for utilizing. W. H. Green. 1,644,469; Oct. 4.
- Zinc bars, Lead, Apparatus for coating. A. H. Rossbach. 1,638,882; Aug. 16.
- Zinc-bearing ores and metallurgical products, Treatment of. H. W. Gepp, H. Hey, G. Rigg, R. H. Stevens, and R. T. D. Williams. 1,634,100; June 28.
- Zinc carbonate, Producing. N. A. Laury. 1,640,708; Aug. 30.
- Zinc from blue powder, Making liquid. F. Tharaldsen. 1,647,381; Nov. 1.
- Zinc gold slimes and apparatus therefor, Treatment of. C. E. Meyer. 1,622,960; Mar. 29.
- Zinc oxide, Making. J. F. Cregan. 1,628,953; May 17.
- Zinc oxide, Recovering. C. A. H. de Saulles. 1,647,279; Nov. 1.
- Zinc oxide, Treatment of furnace gases to recover. J. F. Cregan. 1,628,952; May 17.
- Zinc, Process and apparatus for extracting. J. Skogmark. 1,652,184; Dec. 13.
- Zinc, Rolling. O. Gerlach. 1,616,038; Feb. 1.
- Zirconium and hafnium, Separating. D. Coster and G. Von Hevesy. 1,618,960; Feb. 22.
- Zirconium compound and making same. C. J. Kinzie. 1,618,286-7; Feb. 22.
- Zirconium oxide silica composite and making same. C. J. Kinzie. 1,618,288; Feb. 22.
- Zirconium sulphate, Manufacture of pure. H. Trapp. 1,648,569; Nov. 8.

LIST OF DISCLAIMERS ARRANGED BY INVENTIONS.

- Accelerator, Vulcanization. M. L. Weiss. No. 1,411,231; date of patent Mar. 28, 1922; disclaimer filed Aug. 9, 1927; v. 364; p. 894.
- Armatures, Apparatus for making. R. H. Ahlers and E. M. Polk. No. 1,556,891; date of patent Oct. 13, 1925; disclaimer filed Aug. 9, 1927; v. 364; p. 8.
- Bracket for lamps. B. A. Benson. No. 1,551,533; date of patent Sept. 1, 1925; disclaimer filed Apr. 7, 1927; v. 357; p. 790.
- Buoy, Aviatory life. S. L. Van Meter, jr. No. 1,192,479; date of patent July 25, 1916; disclaimer filed Oct. 15, 1927; v. 364; p. 7.
- Cable joints, Protective device for electric. P. Torchio. No. 1,172,322; date of patent Feb. 22, 1916; disclaimer filed Feb. 11, 1927; v. 356; p. 1.
- Calculating machine. M. Teetor. No. 1,344,191; date of patent June 22, 1920; disclaimer filed Oct. 31, 1927; v. 364; p. 780.

- Caoutchouc substance and vulcanization product thereof. F. Hoemann and K. Gottlob. No. 1,149,580; date of patent Aug. 10, 1915; disclaimer filed Feb. 11, 1927; v. 356; p. 1.
- Carburetor. R. Abell. No. 1,158,359; date of patent Oct. 26, 1915; disclaimer filed Oct. 14, 1927; v. 364; p. 7.
- Clipper. L. J. Wahl. No. 1,487,189; date of patent Mar. 18, 1924; disclaimer filed Aug. 29, 1927; v. 362; p. 235.
- Cover. Receptacle. J. I. Russakov. No. 1,458,955; date of patent June 19, 1923; disclaimers filed June 6, 1927; v. 359; p. 497; and 1,511,426; date of patent Oct. 14, 1924; filed June 6, 1927; v. 359; p. 497. (Two cases.)
- Die-casting metal. W. M. Peirce and E. A. Anderson. No. 1,596,761; date of patent Aug. 17, 1926; disclaimer filed May 20, 1927; v. 359; p. 6.
- Electric controller. D. C. Wright and P. V. Tippet. No. 1,559,832; date of patent Nov. 3, 1925; disclaimer filed Nov. 26, 1927; v. 365; p. 894.
- Firearms. Ring sight for. R. Kauch and C. L. Paulus. No. 1,517,863; date of patent Dec. 2, 1924; disclaimer filed Sept. 27, 1927; v. 363; p. 209.
- Flow-proportioning apparatus. G. H. Gibson. No. 1,537,044; date of patent May 5, 1925; disclaimers filed Aug. 5, 1927; v. 361; p. 894; and 1,166,758; date of patent Jan. 4, 1916; filed Aug. 5, 1927; v. 361; p. 659. (Two cases.)
- Fuel. Making motor. C. Ellis. No. 1,318,061; date of patent Oct. 7, 1919; disclaimer filed May 12, 1927; v. 358; p. 814.
- Gas meter. J. T. Wilkin. No. 1,487,042; date of patent Mar. 18, 1924; disclaimer filed June 20, 1927; 1. 360; p. 259.
- Gas producer. J. F. Rogers. No. 1,572,041; date of patent Feb. 9, 1926; disclaimer filed Mar. 21, 1927; v. 357; p. 1.
- Gear. Flexible. C. Bethel. No. 1,602,298; date of patent Oct. 5, 1926; disclaimer filed July 19, 1927; v. 361; p. 210.
- Glass feeder. L. D. Soubrier. No. 1,614,936; date of patent Jan. 18, 1927; disclaimer filed Apr. 2, 1927; v. 357; p. 536.
- Globe. Display. E. A. Zeh. Des. No. 71,347; date of patent Oct. 26, 1926; disclaimer filed June 11, 1927; v. 359; p. 744.
- Heel base and making same. W. H. Albee. No. 1,553,301; date of patent Sept. 15, 1925; disclaimer filed Mar. 12, 1927; v. 356; p. 988.
- Heel. Cushion. G. E. Warren. No. 1,564,158; date of patent Dec. 1, 1925; disclaimer filed Dec. 16, 1926; v. 354; p. 6.
- Indexing mechanism. C. H. Schurr. No. 1,467,985; date of patent Sept. 11, 1923; disclaimer filed Oct. 12, 1927; v. 364; p. 8.
- Instrument panel. B. H. Anibal. No. 1,585,636; date of patent May 25, 1926; disclaimer filed Nov. 19, 1927; v. 365; p. 1.
- Lacquer and lacquer enamel. S. D. Shipley and G. C. Given. No. 1,533,616; date of patent Apr. 14, 1925; disclaimer filed Feb. 24, 1927; v. 356; p. 495.
- Liquid-feeding device. W. Sparks. No. 1,466,387; date of patent Aug. 28, 1923; disclaimer filed June 16, 1927; v. 360; p. 259.
- Lock. Universal jimmyproof are bolt. C. W. Lanphere. No. 1,525,303; date of patent Feb. 3, 1925; disclaimers filed Oct. 18, 1927; v. 364; p. 254; 1,543,930; date of patent Feb. 3, 1925; filed Oct. 18, 1927; v. 364; p. 254; 1,584,950; date of patent May 18, 1926; filed Oct. 5, 1927; v. 363; p. 691; and 1,621,549; date of patent Mar. 22, 1927; filed Oct. 18, 1927; v. 364; p. 254. (Four cases.)
- Locking automobiles against theft. Means for. F. W. Stewart. No. 1,541,773; date of patent June 9, 1925; disclaimer filed Oct. 7, 1927; v. 363; p. 691.
- Lubricating means. A. V. Gullborg. No. 1,307,734; date of patent June 24, 1919; disclaimer filed Aug. 29, 1927; v. 362; p. 235.
- Machining for placing springs in casings. C. P. Read. No. 1,218,814; date of patent Mar. 6, 1917; disclaimer filed Dec. 5, 1927; v. 365; p. 655.
- Meter. C. R. Houghton and J. T. Wilkin. No. 1,528,728; date of patent Mar. 3, 1925; disclaimers filed June 20, 1927; v. 360; p. 259; and 1,528,728; date of patent Mar. 3, 1925; filed July 18, 1927; v. 361; p. 1. (Two cases.)
- Mining machine. T. E. Pray and G. Bodin. No. 1,609,245; date of patent Sept. 21, 1926; disclaimer filed Jan. 29, 1927; v. 355; p. 183.
- Register. Autographic. L. Jensen. No. 1,560,474; date of patent Nov. 3, 1925; disclaimers filed Mar. 30, 1927; v. 357; p. 536; and 1,560,475; date of patent Nov. 3, 1925; filed Mar. 30, 1927; v. 357; p. 536. (Two cases.)
- Ring. Class. A. H. Andersen. Des. No. 69,930; date of patent Apr. 20, 1926; disclaimers filed May 6, 1927; v. 358; p. 814; and Des. No. 70,047; date of patent May 4, 1926; filed May 6, 1927; v. 358; p. 814. (Two cases.)
- Safety mechanism. T. and D. Stenhouse. No. 1,564,497; date of patent Dec. 8, 1925; disclaimer filed Jan. 10, 1927; v. 355; p. 1.
- Separable-fastener slider. G. Sundback. No. 1,302,606; date of patent May 6, 1919; disclaimer filed Aug. 4, 1927; v. 361; p. 425.
- Sheet of folded material. P. H. Horwitt. No. 1,501,662; date of patent July 15, 1924; disclaimer filed June 24, 1927; v. 360; p. 497.
- Shock-absorbing mechanism. Friction. J. F. O'Connor. No. 1,620,678; date of patent Mar. 15, 1927; disclaimer filed July 2, 1927; v. 361; p. 210.
- Telegaphy. A. Ebeling. No. 1,499,646; date of patent July 1, 1924; disclaimer filed Oct. 21, 1927; v. 364; p. 5.
- Telephone-exchange system. Automatic. L. Polinkowsky. No. 1,541,388; date of patent June 9, 1925; disclaimer filed Aug. 30, 1927; v. 362; p. 236.
- Telephone-exchange system. A. C. Powell. No. 1,577,076; patent dated Mar. 16, 1926; disclaimer filed Apr. 14, 1927; v. 358; p. 814.
- Telephone-exchange system. W. T. Powell. No. 1,308,553; date of patent July 1, 1919; disclaimer filed Apr. 15, 1927; v. 358; p. 5.
- Telephone system. Automatic. E. Jacobsen. No. 1,580,252; patent dated Apr. 13, 1926; disclaimer filed May 12, 1927; v. 358; p. 1052.
- Telephone system. Machine-switching. C. L. Goodrum and J. N. Reynolds. No. 1,515,735; date of patent Nov. 18, 1924; disclaimer filed Feb. 8, 1927; v. 356; p. 1.
- Tire-spreading device. G. H. Wadsworth. No. 1,589,274; date of patent June 15, 1926; disclaimer filed June 14, 1927; v. 359; p. 744.
- Tractor attachment. C. B. Rose. No. 1,472,888; date of patent Nov. 6, 1923; disclaimer filed May 25, 1927; v. 360; p. 745.
- Typewriting and computing machine. G. J. Barrett. No. 1,227,236; date of patent May 22, 1917; disclaimers filed Apr. 21, 1927; v. 358; p. 814; and 1,459,814; date of patent June 26, 1923; filed Apr. 21, 1927; v. 358; p. 814. (Two cases.)
- Warps. Machine for operating upon. H. D. Colman. No. 1,442,776; date of patent Jan. 16, 1923; disclaimer filed Sept. 2, 1927; v. 362; p. 450.
- Washable dyed silk piece goods and dyeing them. J. Seyer. Reissue No. 16,016; date of patent Mar. 3, 1925; disclaimer filed June 2, 1927; v. 359; p. 497.
- Windshield-cleaning apparatus. W. M. Folberth. No. 1,405,773; date of patent Feb. 7, 1922; disclaimer filed Nov. 28, 1927; v. 365; p. 233.

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